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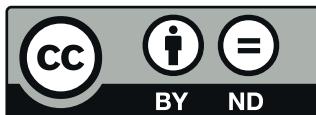
Whole-of-Home Efficiency Factors Standard



2022

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Part 1 Introduction

1.1 General

The National Construction Code (NCC) is a uniform set of technical provisions for the design and construction of buildings and other structures throughout Australia.

The NCC energy efficiency provisions require a dwelling and its *domestic services* to use energy efficiently in order to reduce energy consumption, reduce greenhouse gas emissions, improve occupant health and amenity, and improve the resilience of a building to extreme weather and blackouts.

The NCC 2022 residential energy efficiency provisions introduce a whole-of-home (WOH) approach. This provides a holistic assessment of the energy performance of a dwelling, covering both thermal performance and *domestic services*. To meet the WOH requirements, the net equivalent energy usage of a dwelling must not exceed a certain allowance.

The net equivalent energy usage of a dwelling is calculated by multiplying the applicable WOH efficiency factor by the applicable floor area factor, adding swimming pool and spa pump energy usage, and subtracting the installed capacity of any photovoltaics (PV). The applicable WOH efficiency factors are determined by the combination of the *domestic services* (i.e. heating, cooling and *heated water* equipment).

Section 2 of this ABCB Standard contains the WOH efficiency factors used in the formula for calculating net equivalent energy usage in J3D14 of NCC Volume One and Part 13.6 of the ABCB Housing Provisions.

1.2 Scope

This ABCB Standard provides WOH efficiency factors for Class 1 dwellings, Class 2 *sole-occupancy units* and Class 4 parts of buildings in the energy efficiency provisions of the NCC. It applies in each NCC *climate zone* and jurisdiction.

1.3 Application

The provisions of this ABCB Standard are designed for application to Class 1 buildings (houses and the like), Class 2 *sole-occupancy units* (apartments) and Class 4 parts of buildings, as defined in the NCC.

This ABCB Standard is referenced in the *Deemed-to-Satisfy Provisions* of J3D14 of NCC Volume One and Part 13.6 of the ABCB Housing Provisions.

This ABCB Standard is not to be read in isolation and must only be used in conjunction with the relevant parts of the NCC, as outlined above.

1.4 Normative references

The following documents are referred to in this Standard:

- (a) NCC Volume One;
- (b) ABCB Housing Provisions

1.5 Units

This ABCB Standard uses kW/100m² as the units for WOH efficiency factors.

1.6 Definitions

In this ABCB Standard, terms shown in italicised text have the meaning that they have in the NCC.

Part 2 Whole-of-Home Efficiency Factors

2.1 Limitations

This ABCB Standard only covers the range from 1 kW to 10 kW of equivalent photovoltaic (PV) capacity. Beyond this scope, an alternative compliance option must be used to satisfy the *Performance Requirements* under J1P3 in NCC Volume One or H6P2(1) in NCC Volume Two. Where there is an 'X' in a table, it means this particular combination of equipment is beyond the scope of this ABCB Standard. Other compliance options must be considered to comply with the *Performance Requirements*.

2.2 Compliance requirements

In J3D14 of NCC Volume One and Part 13.6 of the ABCB Housing Provisions, the net equivalent energy usage of a dwelling must be calculated using the formula in J3D14(1)(a) or 13.6.2(1)(a), and the WOH efficiency factors (E_E) specified in Section 2.4 of this ABCB Standard.

2.3 Application

2.3.1 J3D14 or 13.6.2 Net equivalent energy usage

- (1) The net equivalent energy usage of a building, calculated in accordance with (a), must not exceed the allowance calculated in accordance with (b)—
 - (a) $(A \times E_E) + E_P + E_S - E_R$, where—
 - (i) A = the floor area factor obtained by multiplying the total floor area of the building by the adjustment factor in Table J3D14a or Table 13.6.2a; and
 - (ii) E_E = the *main space conditioning* and *main water heater* efficiency factors obtained from the ABCB Standard for Whole-of-Home Efficiency Factors; and
 - (iii) E_P = the *swimming pool* pump energy usage in (2); and
 - (iv) E_S = the spa pump energy usage in (3); and
 - (v) E_R = the installed capacity of on-site photovoltaics (kW).
 - (b) $A \times E_F$ where—
 - (i) A = the floor area factor obtained from multiplying the total floor area of the building by the adjustment factor in Table J3D14a or Table 13.6.2a;
 - (ii) E_F = the energy factor in Table J3D14b or Table 13.6.2b.

The WOH efficiency factors specified in Section 2.4 must be obtained from the appropriate table given the dwelling's *climate zone*, jurisdiction and equipment types.

For gas heating and heat pump appliances, the factors must be obtained from the closest rating that can be chosen from the tables.

Information

For example, if the heating equipment is a 2-star gas ducted system, 'Gas – ducted < 3 stars' should be used, not 'Gas – ducted < 4.5 stars'.

Other than *climate zone* 1, if no heating and/or cooling is specified for a dwelling, 'Other or none specified' must be selected to determine the applicable WOH efficiency factors.

2.4 Whole-of-home efficiency factors

- (1) When using the tables in this ABCB Standard—
 - (a) Hydronic heating should be treated as 'Gas – ducted < 3 stars'.

Whole-of-home efficiency factors

- (b) Ratings for heat pumps are equivalent values based on ratings to the Greenhouse and Energy Minimum Standards (GEMS) 2019 determination or later determination for air-conditioners.
- (c) Ratings in brackets for heat pumps are values based on ratings to the GEMS pre-2019 determination for air-conditioners.

Information

The star rating selected for heat pumps registered under the GEMS 2019 (or later) determination should correspond to the appropriate zone on the energy rating label (hot, cold or average) for the dwelling location. For more detail, see the energy rating website, www.energyrating.gov.au.

2.4.1 Climate zone 1

Table 1.1.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 1 – Queensland

| Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Evaporative | 2.292 | 1.860 | 1.078 | 0.944 | 0.906 | 3.137 | 2.686 | 0.752 |
| Heat pump - Ducted < 2.25 stars (< 3) | 3.952 | 3.618 | 2.719 | 2.644 | 2.537 | 4.883 | 4.442 | 2.427 |
| Heat pump - Ducted < 3 stars (< 4.5) | 3.757 | 3.422 | 2.524 | 2.449 | 2.342 | 4.687 | 4.246 | 2.232 |
| Heat pump - Ducted < 3.75 stars (< 6) | 3.463 | 3.129 | 2.230 | 2.155 | 2.048 | 4.394 | 3.953 | 1.938 |
| Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.169 | 2.835 | 1.937 | 1.861 | 1.755 | 4.100 | 3.659 | 1.644 |
| Heat pump - Non-ducted < 2.25 stars (< 3) | 3.616 | 3.271 | 2.382 | 2.296 | 2.198 | 4.537 | 4.095 | 2.086 |
| Heat pump - Non-ducted < 3 stars (< 4.5) | 3.451 | 3.107 | 2.218 | 2.132 | 2.034 | 4.373 | 3.931 | 1.922 |
| Heat pump - Non-ducted < 3.75 stars (< 6) | 3.205 | 2.860 | 1.971 | 1.885 | 1.787 | 4.127 | 3.685 | 1.675 |
| Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.958 | 2.614 | 1.725 | 1.639 | 1.541 | 3.880 | 3.438 | 1.429 |

| Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|-------------------------|--------------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | 3.952 | 3.618 | 2.719 | 2.644 | 2.537 | 4.883 | 4.442 | 2.427 |

Table 1.1.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 1 – Western Australia

| Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Evaporative | 2.871 | 1.711 | 1.249 | 0.906 | 1.045 | 3.188 | 2.706 | 0.770 |
| Heat pump - Ducted < 2.25 stars (< 3) | 5.352 | 4.355 | 3.654 | 3.374 | 3.400 | 5.855 | 5.378 | 3.185 |
| Heat pump - Ducted < 3 stars (< 4.5) | 5.057 | 4.060 | 3.359 | 3.079 | 3.105 | 5.560 | 5.083 | 2.890 |
| Heat pump - Ducted < 3.75 stars (< 6) | 4.614 | 3.618 | 2.917 | 2.637 | 2.662 | 5.117 | 4.640 | 2.448 |
| Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.172 | 3.175 | 2.474 | 2.194 | 2.220 | 4.675 | 4.198 | 2.006 |
| Heat pump - Non-ducted < 2.25 stars (< 3) | 4.850 | 3.825 | 3.142 | 2.858 | 2.902 | 5.326 | 4.850 | 2.674 |
| Heat pump - Non-ducted < 3 stars (< 4.5) | 4.604 | 3.578 | 2.896 | 2.611 | 2.655 | 5.079 | 4.603 | 2.428 |
| Heat pump - Non-ducted < 3.75 stars (< 6) | 4.234 | 3.208 | 2.526 | 2.241 | 2.285 | 4.709 | 4.233 | 2.058 |
| Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.864 | 2.839 | 2.156 | 1.872 | 1.915 | 4.339 | 3.863 | 1.688 |
| Other or none specified | 5.352 | 4.355 | 3.654 | 3.374 | 3.400 | 5.855 | 5.378 | 3.185 |

Table 1.1.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 1– Northern Territory

| Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Evaporative | 1.710 | 1.596 | 1.025 | 1.008 | 0.825 | 1.478 | 1.359 | 0.768 |
| Heat pump - Ducted < 2.25 stars (< 3) | 3.600 | 3.501 | 2.918 | 2.909 | 2.719 | 3.383 | 3.264 | 2.664 |
| Heat pump - Ducted < 3 stars (< 4.5) | 3.385 | 3.287 | 2.704 | 2.694 | 2.504 | 3.169 | 3.049 | 2.449 |
| Heat pump - Ducted < 3.75 stars (< 6) | 3.063 | 2.965 | 2.382 | 2.372 | 2.182 | 2.847 | 2.727 | 2.127 |
| Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.741 | 2.643 | 2.060 | 2.050 | 1.860 | 2.525 | 2.405 | 1.805 |
| Heat pump - Non-ducted < 2.25 stars (< 3) | 3.230 | 3.130 | 2.548 | 2.538 | 2.349 | 3.012 | 2.893 | 2.294 |
| Heat pump - Non-ducted < 3 stars (< 4.5) | 3.048 | 2.948 | 2.366 | 2.355 | 2.166 | 2.830 | 2.711 | 2.111 |
| Heat pump - Non-ducted < 3.75 stars (< 6) | 2.774 | 2.675 | 2.092 | 2.082 | 1.893 | 2.557 | 2.437 | 1.838 |
| Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.501 | 2.401 | 1.819 | 1.809 | 1.619 | 2.283 | 2.164 | 1.565 |
| Other or none specified | 3.600 | 3.501 | 2.918 | 2.909 | 2.719 | 3.383 | 3.264 | 2.664 |

2.4.2 Climate zone 2

Table 2.1.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 2 – gas heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 2.434 | 1.545 | 1.000 | 0.714 | 0.809 | 2.285 | 1.894 | 0.593 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.739 | 1.891 | 1.306 | 1.059 | 1.134 | 2.621 | 2.231 | 0.869 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.702 | 1.854 | 1.270 | 1.023 | 1.098 | 2.585 | 2.195 | 0.833 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.648 | 1.800 | 1.215 | 0.969 | 1.043 | 2.531 | 2.140 | 0.778 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.593 | 1.746 | 1.161 | 0.914 | 0.989 | 2.476 | 2.086 | 0.724 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.677 | 1.820 | 1.245 | 0.990 | 1.070 | 2.552 | 2.159 | 0.798 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.648 | 1.790 | 1.215 | 0.960 | 1.040 | 2.522 | 2.130 | 0.768 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.603 | 1.746 | 1.171 | 0.916 | 0.996 | 2.478 | 2.085 | 0.724 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.559 | 1.702 | 1.127 | 0.871 | 0.952 | 2.434 | 2.041 | 0.680 |
| Gas – ducted < 3 Stars | Other or none specified | 2.739 | 1.891 | 1.306 | 1.059 | 1.134 | 2.621 | 2.231 | 0.869 |
| Gas – ducted < 4.5 Stars | Evaporative | 2.408 | 1.519 | 0.974 | 0.688 | 0.783 | 2.259 | 1.868 | 0.567 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.713 | 1.865 | 1.280 | 1.033 | 1.108 | 2.596 | 2.205 | 0.843 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.676 | 1.829 | 1.244 | 0.997 | 1.072 | 2.559 | 2.169 | 0.807 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.622 | 1.774 | 1.190 | 0.943 | 1.017 | 2.505 | 2.114 | 0.752 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.567 | 1.720 | 1.135 | 0.888 | 0.963 | 2.450 | 2.060 | 0.698 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.651 | 1.794 | 1.219 | 0.964 | 1.044 | 2.526 | 2.133 | 0.772 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.622 | 1.764 | 1.190 | 0.934 | 1.015 | 2.496 | 2.104 | 0.742 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.577 | 1.720 | 1.145 | 0.890 | 0.970 | 2.452 | 2.059 | 0.698 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.533 | 1.676 | 1.101 | 0.846 | 0.926 | 2.408 | 2.015 | 0.654 |
| Gas – ducted < 4.5 Stars | Other or none specified | 2.713 | 1.865 | 1.280 | 1.033 | 1.108 | 2.596 | 2.205 | 0.843 |
| Gas – ducted < 6 Stars | Evaporative | 2.370 | 1.480 | 0.935 | 0.649 | 0.744 | 2.220 | 1.829 | 0.528 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.674 | 1.826 | 1.241 | 0.995 | 1.069 | 2.557 | 2.166 | 0.804 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.638 | 1.790 | 1.205 | 0.958 | 1.033 | 2.520 | 2.130 | 0.768 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.583 | 1.735 | 1.151 | 0.904 | 0.979 | 2.466 | 2.075 | 0.713 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.529 | 1.681 | 1.096 | 0.849 | 0.924 | 2.412 | 2.021 | 0.659 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.612 | 1.755 | 1.180 | 0.925 | 1.005 | 2.487 | 2.094 | 0.733 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.583 | 1.725 | 1.151 | 0.895 | 0.976 | 2.458 | 2.065 | 0.703 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.538 | 1.681 | 1.106 | 0.851 | 0.931 | 2.413 | 2.021 | 0.659 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.494 | 1.637 | 1.062 | 0.807 | 0.887 | 2.369 | 1.976 | 0.615 |
| Gas – ducted < 6 Stars | Other or none specified | 2.674 | 1.826 | 1.241 | 0.995 | 1.069 | 2.557 | 2.166 | 0.804 |
| Gas – ducted ≥ 6 Stars | Evaporative | 2.331 | 1.442 | 0.896 | 0.610 | 0.705 | 2.181 | 1.790 | 0.489 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.635 | 1.787 | 1.203 | 0.956 | 1.030 | 2.518 | 2.127 | 0.765 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.599 | 1.751 | 1.166 | 0.919 | 0.994 | 2.482 | 2.091 | 0.729 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.544 | 1.696 | 1.112 | 0.865 | 0.940 | 2.427 | 2.036 | 0.674 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.490 | 1.642 | 1.057 | 0.810 | 0.885 | 2.373 | 1.982 | 0.620 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.573 | 1.716 | 1.141 | 0.886 | 0.966 | 2.448 | 2.056 | 0.694 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.544 | 1.687 | 1.112 | 0.856 | 0.937 | 2.419 | 2.026 | 0.665 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.500 | 1.642 | 1.068 | 0.812 | 0.893 | 2.374 | 1.982 | 0.620 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.455 | 1.598 | 1.023 | 0.768 | 0.848 | 2.330 | 1.937 | 0.576 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 2.635 | 1.787 | 1.203 | 0.956 | 1.030 | 2.518 | 2.127 | 0.765 |
| Gas - non ducted < 3 Stars | Evaporative | 2.362 | 1.465 | 0.935 | 0.660 | 0.741 | 2.202 | 1.813 | 0.546 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.668 | 1.814 | 1.244 | 0.991 | 1.070 | 2.540 | 2.149 | 0.803 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.631 | 1.778 | 1.208 | 0.954 | 1.033 | 2.504 | 2.113 | 0.767 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.577 | 1.723 | 1.153 | 0.900 | 0.979 | 2.449 | 2.059 | 0.712 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.522 | 1.669 | 1.099 | 0.845 | 0.925 | 2.395 | 2.004 | 0.658 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.606 | 1.742 | 1.182 | 0.920 | 1.005 | 2.470 | 2.079 | 0.738 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.576 | 1.713 | 1.153 | 0.891 | 0.976 | 2.441 | 2.049 | 0.709 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.532 | 1.668 | 1.109 | 0.847 | 0.931 | 2.396 | 2.005 | 0.665 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.487 | 1.624 | 1.064 | 0.802 | 0.887 | 2.352 | 1.961 | 0.620 |
| Gas - non ducted < 3 Stars | Other or none specified | 2.668 | 1.814 | 1.244 | 0.991 | 1.070 | 2.540 | 2.149 | 0.803 |
| Gas - non ducted < 4.5 Stars | Evaporative | 2.348 | 1.452 | 0.921 | 0.647 | 0.728 | 2.188 | 1.800 | 0.533 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.654 | 1.801 | 1.231 | 0.977 | 1.056 | 2.527 | 2.136 | 0.790 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.618 | 1.764 | 1.194 | 0.941 | 1.020 | 2.491 | 2.100 | 0.753 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.563 | 1.710 | 1.140 | 0.887 | 0.966 | 2.436 | 2.045 | 0.699 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.509 | 1.655 | 1.085 | 0.832 | 0.911 | 2.382 | 1.991 | 0.645 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.592 | 1.729 | 1.169 | 0.907 | 0.992 | 2.457 | 2.066 | 0.725 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.563 | 1.699 | 1.140 | 0.877 | 0.962 | 2.427 | 2.036 | 0.696 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.518 | 1.655 | 1.095 | 0.833 | 0.918 | 2.383 | 1.992 | 0.651 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.474 | 1.611 | 1.051 | 0.789 | 0.874 | 2.339 | 1.948 | 0.607 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 2.654 | 1.801 | 1.231 | 0.977 | 1.056 | 2.527 | 2.136 | 0.790 |
| Gas - non ducted < 6 Stars | Evaporative | 2.328 | 1.432 | 0.901 | 0.627 | 0.708 | 2.168 | 1.780 | 0.513 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.634 | 1.781 | 1.211 | 0.957 | 1.036 | 2.507 | 2.116 | 0.770 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.598 | 1.744 | 1.174 | 0.921 | 1.000 | 2.470 | 2.080 | 0.733 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.543 | 1.690 | 1.120 | 0.866 | 0.946 | 2.416 | 2.025 | 0.679 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.489 | 1.635 | 1.065 | 0.812 | 0.891 | 2.362 | 1.971 | 0.624 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.572 | 1.709 | 1.149 | 0.887 | 0.972 | 2.437 | 2.046 | 0.705 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.543 | 1.679 | 1.119 | 0.857 | 0.942 | 2.407 | 2.016 | 0.675 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.498 | 1.635 | 1.075 | 0.813 | 0.898 | 2.363 | 1.972 | 0.631 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.454 | 1.591 | 1.031 | 0.769 | 0.854 | 2.319 | 1.927 | 0.587 |
| Gas - non ducted < 6 Stars | Other or none specified | 2.634 | 1.781 | 1.211 | 0.957 | 1.036 | 2.507 | 2.116 | 0.770 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 2.308 | 1.412 | 0.881 | 0.607 | 0.687 | 2.148 | 1.760 | 0.493 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.614 | 1.760 | 1.190 | 0.937 | 1.016 | 2.487 | 2.096 | 0.750 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.578 | 1.724 | 1.154 | 0.901 | 0.980 | 2.450 | 2.060 | 0.713 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.523 | 1.670 | 1.100 | 0.846 | 0.925 | 2.396 | 2.005 | 0.659 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.469 | 1.615 | 1.045 | 0.792 | 0.871 | 2.342 | 1.951 | 0.604 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.552 | 1.689 | 1.129 | 0.867 | 0.952 | 2.417 | 2.026 | 0.685 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.522 | 1.659 | 1.099 | 0.837 | 0.922 | 2.387 | 1.996 | 0.655 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 2.478 | 1.615 | 1.055 | 0.793 | 0.878 | 2.343 | 1.952 | 0.611 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.434 | 1.571 | 1.011 | 0.749 | 0.834 | 2.299 | 1.907 | 0.567 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 2.614 | 1.760 | 1.190 | 0.937 | 1.016 | 2.487 | 2.096 | 0.750 |

Table 2.1.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 2 – gas heating – Queensland

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 2.340 | 1.956 | 1.088 | 0.964 | 0.921 | 3.315 | 2.752 | 0.760 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.608 | 2.239 | 1.355 | 1.255 | 1.199 | 3.587 | 3.031 | 1.061 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.576 | 2.208 | 1.324 | 1.224 | 1.168 | 3.556 | 2.999 | 1.030 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.529 | 2.161 | 1.277 | 1.177 | 1.121 | 3.509 | 2.952 | 0.983 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.482 | 2.114 | 1.230 | 1.130 | 1.074 | 3.462 | 2.905 | 0.936 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 2.554 | 2.180 | 1.302 | 1.197 | 1.144 | 3.531 | 2.974 | 1.002 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.528 | 2.154 | 1.276 | 1.171 | 1.118 | 3.505 | 2.948 | 0.976 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.489 | 2.115 | 1.237 | 1.132 | 1.079 | 3.466 | 2.909 | 0.937 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.450 | 2.077 | 1.198 | 1.093 | 1.040 | 3.427 | 2.870 | 0.898 |
| Gas – ducted < 3 Stars | Other or none specified | 2.608 | 2.239 | 1.355 | 1.255 | 1.199 | 3.587 | 3.031 | 1.061 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 2.301 | 1.917 | 1.049 | 0.925 | 0.881 | 3.276 | 2.713 | 0.721 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.568 | 2.200 | 1.316 | 1.216 | 1.160 | 3.548 | 2.991 | 1.022 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.537 | 2.168 | 1.285 | 1.184 | 1.129 | 3.516 | 2.960 | 0.990 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.490 | 2.121 | 1.238 | 1.137 | 1.082 | 3.470 | 2.913 | 0.943 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.443 | 2.074 | 1.191 | 1.090 | 1.035 | 3.423 | 2.866 | 0.896 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.515 | 2.141 | 1.263 | 1.158 | 1.105 | 3.492 | 2.934 | 0.963 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.489 | 2.115 | 1.237 | 1.132 | 1.079 | 3.466 | 2.908 | 0.937 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.450 | 2.076 | 1.198 | 1.093 | 1.040 | 3.427 | 2.869 | 0.898 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.411 | 2.037 | 1.159 | 1.054 | 1.001 | 3.388 | 2.830 | 0.859 |
| Gas – ducted < 4.5 Stars | Other or none specified | 2.568 | 2.200 | 1.316 | 1.216 | 1.160 | 3.548 | 2.991 | 1.022 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 2.242 | 1.858 | 0.990 | 0.866 | 0.823 | 3.217 | 2.654 | 0.662 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.509 | 2.141 | 1.257 | 1.157 | 1.101 | 3.489 | 2.932 | 0.963 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.478 | 2.109 | 1.226 | 1.125 | 1.070 | 3.458 | 2.901 | 0.931 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.431 | 2.062 | 1.179 | 1.078 | 1.023 | 3.411 | 2.854 | 0.884 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.384 | 2.015 | 1.132 | 1.031 | 0.976 | 3.364 | 2.807 | 0.837 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.456 | 2.082 | 1.204 | 1.099 | 1.046 | 3.433 | 2.875 | 0.904 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.430 | 2.056 | 1.178 | 1.073 | 1.020 | 3.407 | 2.849 | 0.878 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.391 | 2.017 | 1.139 | 1.034 | 0.981 | 3.368 | 2.810 | 0.839 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.352 | 1.978 | 1.100 | 0.995 | 0.942 | 3.329 | 2.772 | 0.800 |
| Gas – ducted < 6 Stars | Other or none specified | 2.509 | 2.141 | 1.257 | 1.157 | 1.101 | 3.489 | 2.932 | 0.963 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 2.183 | 1.799 | 0.931 | 0.807 | 0.764 | 3.158 | 2.595 | 0.603 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.450 | 2.082 | 1.198 | 1.098 | 1.042 | 3.430 | 2.874 | 0.904 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.419 | 2.050 | 1.167 | 1.066 | 1.011 | 3.399 | 2.842 | 0.872 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.372 | 2.003 | 1.120 | 1.019 | 0.964 | 3.352 | 2.795 | 0.825 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.325 | 1.956 | 1.073 | 0.972 | 0.917 | 3.305 | 2.748 | 0.779 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.397 | 2.023 | 1.145 | 1.040 | 0.987 | 3.374 | 2.816 | 0.845 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.371 | 1.997 | 1.119 | 1.014 | 0.961 | 3.348 | 2.791 | 0.819 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.332 | 1.958 | 1.080 | 0.975 | 0.922 | 3.309 | 2.752 | 0.780 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.293 | 1.919 | 1.041 | 0.936 | 0.883 | 3.270 | 2.713 | 0.741 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 2.450 | 2.082 | 1.198 | 1.098 | 1.042 | 3.430 | 2.874 | 0.904 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 2.242 | 1.852 | 0.997 | 0.867 | 0.827 | 3.207 | 2.645 | 0.678 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.511 | 2.134 | 1.267 | 1.161 | 1.109 | 3.479 | 2.924 | 0.967 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.480 | 2.103 | 1.236 | 1.130 | 1.078 | 3.448 | 2.892 | 0.936 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.433 | 2.056 | 1.189 | 1.083 | 1.031 | 3.401 | 2.845 | 0.889 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.386 | 2.009 | 1.142 | 1.036 | 0.984 | 3.354 | 2.798 | 0.842 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.457 | 2.076 | 1.214 | 1.103 | 1.054 | 3.424 | 2.866 | 0.908 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.431 | 2.050 | 1.188 | 1.077 | 1.028 | 3.398 | 2.840 | 0.882 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.392 | 2.011 | 1.149 | 1.038 | 0.989 | 3.359 | 2.801 | 0.843 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.353 | 1.972 | 1.110 | 0.999 | 0.950 | 3.320 | 2.762 | 0.804 |
| Gas - non ducted < 3 Stars | Other or none specified | 2.511 | 2.134 | 1.267 | 1.161 | 1.109 | 3.479 | 2.924 | 0.967 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 2.222 | 1.832 | 0.977 | 0.846 | 0.807 | 3.187 | 2.625 | 0.658 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.491 | 2.114 | 1.247 | 1.141 | 1.089 | 3.459 | 2.903 | 0.947 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.460 | 2.082 | 1.216 | 1.109 | 1.058 | 3.428 | 2.872 | 0.915 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.413 | 2.035 | 1.169 | 1.062 | 1.011 | 3.381 | 2.825 | 0.868 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.366 | 1.988 | 1.122 | 1.016 | 0.964 | 3.334 | 2.778 | 0.821 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.437 | 2.056 | 1.194 | 1.083 | 1.033 | 3.403 | 2.846 | 0.887 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.411 | 2.030 | 1.168 | 1.057 | 1.008 | 3.377 | 2.820 | 0.861 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.372 | 1.991 | 1.129 | 1.018 | 0.969 | 3.338 | 2.781 | 0.823 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.333 | 1.952 | 1.090 | 0.979 | 0.930 | 3.299 | 2.742 | 0.784 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 2.491 | 2.114 | 1.247 | 1.141 | 1.089 | 3.459 | 2.903 | 0.947 |
| Gas - non ducted < 6 Stars | Evaporative | 2.191 | 1.802 | 0.947 | 0.816 | 0.777 | 3.156 | 2.594 | 0.627 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.461 | 2.083 | 1.217 | 1.110 | 1.059 | 3.429 | 2.873 | 0.916 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.429 | 2.052 | 1.185 | 1.079 | 1.027 | 3.397 | 2.842 | 0.885 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.382 | 2.005 | 1.138 | 1.032 | 0.980 | 3.350 | 2.795 | 0.838 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.335 | 1.958 | 1.092 | 0.985 | 0.933 | 3.303 | 2.748 | 0.791 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.406 | 2.025 | 1.163 | 1.052 | 1.003 | 3.373 | 2.816 | 0.857 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.380 | 1.999 | 1.137 | 1.026 | 0.977 | 3.347 | 2.790 | 0.831 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.341 | 1.960 | 1.098 | 0.987 | 0.938 | 3.308 | 2.751 | 0.792 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.303 | 1.921 | 1.059 | 0.948 | 0.899 | 3.269 | 2.712 | 0.753 |
| Gas - non ducted < 6 Stars | Other or none specified | 2.461 | 2.083 | 1.217 | 1.110 | 1.059 | 3.429 | 2.873 | 0.916 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 2.161 | 1.771 | 0.916 | 0.785 | 0.746 | 3.126 | 2.564 | 0.597 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.430 | 2.053 | 1.186 | 1.080 | 1.028 | 3.398 | 2.843 | 0.886 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.399 | 2.021 | 1.155 | 1.049 | 0.997 | 3.367 | 2.811 | 0.855 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.352 | 1.974 | 1.108 | 1.002 | 0.950 | 3.320 | 2.764 | 0.808 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.305 | 1.927 | 1.061 | 0.955 | 0.903 | 3.273 | 2.717 | 0.761 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.376 | 1.995 | 1.133 | 1.022 | 0.973 | 3.343 | 2.785 | 0.827 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.350 | 1.969 | 1.107 | 0.996 | 0.947 | 3.317 | 2.759 | 0.801 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 2.311 | 1.930 | 1.068 | 0.957 | 0.908 | 3.278 | 2.720 | 0.762 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.272 | 1.891 | 1.029 | 0.918 | 0.869 | 3.239 | 2.681 | 0.723 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 2.430 | 2.053 | 1.186 | 1.080 | 1.028 | 3.398 | 2.843 | 0.886 |

Table 2.2.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 2 – heat pump heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 2.222 | 1.314 | 0.812 | 0.578 | 0.647 | 2.031 | 1.651 | 0.465 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 2.531 | 1.659 | 1.127 | 0.859 | 0.949 | 2.369 | 1.990 | 0.696 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 2.494 | 1.623 | 1.091 | 0.822 | 0.912 | 2.333 | 1.954 | 0.659 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.440 | 1.568 | 1.037 | 0.768 | 0.858 | 2.279 | 1.899 | 0.605 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.385 | 1.514 | 0.982 | 0.714 | 0.803 | 2.224 | 1.845 | 0.550 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 2.468 | 1.586 | 1.065 | 0.788 | 0.883 | 2.299 | 1.921 | 0.648 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.438 | 1.556 | 1.036 | 0.758 | 0.854 | 2.269 | 1.891 | 0.619 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.394 | 1.512 | 0.991 | 0.714 | 0.809 | 2.225 | 1.847 | 0.574 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.350 | 1.468 | 0.947 | 0.670 | 0.765 | 2.181 | 1.803 | 0.530 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 2.531 | 1.659 | 1.127 | 0.859 | 0.949 | 2.369 | 1.990 | 0.696 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.214 | 1.306 | 0.804 | 0.571 | 0.639 | 2.023 | 1.644 | 0.458 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 2.523 | 1.652 | 1.120 | 0.851 | 0.941 | 2.362 | 1.983 | 0.688 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 2.487 | 1.615 | 1.084 | 0.815 | 0.905 | 2.325 | 1.946 | 0.652 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.432 | 1.561 | 1.029 | 0.760 | 0.850 | 2.271 | 1.892 | 0.597 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.378 | 1.506 | 0.975 | 0.706 | 0.796 | 2.217 | 1.837 | 0.543 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.460 | 1.578 | 1.058 | 0.780 | 0.876 | 2.291 | 1.913 | 0.641 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.431 | 1.549 | 1.028 | 0.751 | 0.846 | 2.262 | 1.884 | 0.611 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.386 | 1.504 | 0.984 | 0.706 | 0.802 | 2.217 | 1.840 | 0.567 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.342 | 1.460 | 0.939 | 0.662 | 0.758 | 2.173 | 1.795 | 0.523 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 2.523 | 1.652 | 1.120 | 0.851 | 0.941 | 2.362 | 1.983 | 0.688 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 2.203 | 1.295 | 0.793 | 0.559 | 0.628 | 2.012 | 1.632 | 0.446 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.512 | 1.640 | 1.108 | 0.840 | 0.930 | 2.350 | 1.971 | 0.677 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.475 | 1.604 | 1.072 | 0.803 | 0.893 | 2.314 | 1.935 | 0.640 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.421 | 1.549 | 1.018 | 0.749 | 0.839 | 2.260 | 1.881 | 0.586 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.366 | 1.495 | 0.963 | 0.695 | 0.785 | 2.205 | 1.826 | 0.531 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.449 | 1.567 | 1.046 | 0.769 | 0.864 | 2.280 | 1.902 | 0.629 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.419 | 1.537 | 1.017 | 0.739 | 0.835 | 2.250 | 1.873 | 0.600 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.375 | 1.493 | 0.972 | 0.695 | 0.790 | 2.206 | 1.828 | 0.555 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.331 | 1.449 | 0.928 | 0.651 | 0.746 | 2.162 | 1.784 | 0.511 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 2.512 | 1.640 | 1.108 | 0.840 | 0.930 | 2.350 | 1.971 | 0.677 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.191 | 1.284 | 0.781 | 0.548 | 0.616 | 2.000 | 1.621 | 0.435 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.500 | 1.629 | 1.097 | 0.828 | 0.918 | 2.339 | 1.960 | 0.665 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.464 | 1.592 | 1.061 | 0.792 | 0.882 | 2.303 | 1.924 | 0.629 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.410 | 1.538 | 1.006 | 0.738 | 0.828 | 2.248 | 1.869 | 0.575 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.355 | 1.484 | 0.952 | 0.683 | 0.773 | 2.194 | 1.815 | 0.520 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.437 | 1.555 | 1.035 | 0.757 | 0.853 | 2.268 | 1.891 | 0.618 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.408 | 1.526 | 1.005 | 0.728 | 0.823 | 2.239 | 1.861 | 0.588 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.364 | 1.482 | 0.961 | 0.683 | 0.779 | 2.195 | 1.817 | 0.544 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.319 | 1.437 | 0.917 | 0.639 | 0.735 | 2.150 | 1.773 | 0.500 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.500 | 1.629 | 1.097 | 0.828 | 0.918 | 2.339 | 1.960 | 0.665 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 2.206 | 1.298 | 0.798 | 0.569 | 0.638 | 2.013 | 1.634 | 0.456 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 2.515 | 1.643 | 1.114 | 0.844 | 0.935 | 2.352 | 1.974 | 0.685 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 2.479 | 1.607 | 1.078 | 0.808 | 0.899 | 2.316 | 1.938 | 0.648 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.425 | 1.552 | 1.023 | 0.753 | 0.844 | 2.262 | 1.883 | 0.594 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.370 | 1.498 | 0.969 | 0.699 | 0.790 | 2.207 | 1.829 | 0.540 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.452 | 1.569 | 1.052 | 0.774 | 0.869 | 2.282 | 1.905 | 0.639 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.423 | 1.540 | 1.022 | 0.744 | 0.840 | 2.252 | 1.875 | 0.609 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.379 | 1.495 | 0.978 | 0.700 | 0.796 | 2.208 | 1.831 | 0.565 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.334 | 1.451 | 0.934 | 0.656 | 0.751 | 2.164 | 1.787 | 0.521 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 2.515 | 1.643 | 1.114 | 0.844 | 0.935 | 2.352 | 1.974 | 0.685 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.200 | 1.292 | 0.791 | 0.562 | 0.631 | 2.007 | 1.628 | 0.449 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 2.509 | 1.636 | 1.108 | 0.838 | 0.929 | 2.346 | 1.968 | 0.678 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 2.473 | 1.600 | 1.072 | 0.801 | 0.892 | 2.310 | 1.931 | 0.642 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.418 | 1.546 | 1.017 | 0.747 | 0.838 | 2.255 | 1.877 | 0.588 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.364 | 1.491 | 0.963 | 0.692 | 0.783 | 2.201 | 1.822 | 0.533 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.446 | 1.563 | 1.046 | 0.768 | 0.863 | 2.275 | 1.898 | 0.633 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.416 | 1.533 | 1.016 | 0.738 | 0.833 | 2.246 | 1.869 | 0.603 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.372 | 1.489 | 0.972 | 0.694 | 0.789 | 2.201 | 1.824 | 0.559 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.328 | 1.445 | 0.927 | 0.649 | 0.745 | 2.157 | 1.780 | 0.514 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 2.509 | 1.636 | 1.108 | 0.838 | 0.929 | 2.346 | 1.968 | 0.678 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 2.190 | 1.282 | 0.782 | 0.553 | 0.622 | 1.997 | 1.618 | 0.440 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.499 | 1.627 | 1.098 | 0.828 | 0.919 | 2.336 | 1.958 | 0.669 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.463 | 1.590 | 1.062 | 0.792 | 0.883 | 2.300 | 1.922 | 0.632 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.409 | 1.536 | 1.007 | 0.737 | 0.828 | 2.246 | 1.867 | 0.578 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.354 | 1.482 | 0.953 | 0.683 | 0.774 | 2.191 | 1.813 | 0.524 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.436 | 1.553 | 1.036 | 0.758 | 0.853 | 2.266 | 1.889 | 0.623 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.407 | 1.524 | 1.006 | 0.728 | 0.824 | 2.236 | 1.859 | 0.593 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.362 | 1.479 | 0.962 | 0.684 | 0.780 | 2.192 | 1.815 | 0.549 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.318 | 1.435 | 0.918 | 0.640 | 0.735 | 2.147 | 1.770 | 0.505 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 2.499 | 1.627 | 1.098 | 0.828 | 0.919 | 2.336 | 1.958 | 0.669 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.180 | 1.273 | 0.772 | 0.543 | 0.612 | 1.988 | 1.608 | 0.430 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.490 | 1.617 | 1.089 | 0.818 | 0.909 | 2.327 | 1.948 | 0.659 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.453 | 1.581 | 1.052 | 0.782 | 0.873 | 2.290 | 1.912 | 0.623 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.399 | 1.526 | 0.998 | 0.728 | 0.819 | 2.236 | 1.858 | 0.568 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.345 | 1.472 | 0.943 | 0.673 | 0.764 | 2.182 | 1.803 | 0.514 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.427 | 1.544 | 1.026 | 0.748 | 0.844 | 2.256 | 1.879 | 0.613 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.397 | 1.514 | 0.997 | 0.719 | 0.814 | 2.226 | 1.849 | 0.584 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 2.353 | 1.470 | 0.952 | 0.674 | 0.770 | 2.182 | 1.805 | 0.539 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.309 | 1.425 | 0.908 | 0.630 | 0.726 | 2.138 | 1.761 | 0.495 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.490 | 1.617 | 1.089 | 0.818 | 0.909 | 2.327 | 1.948 | 0.659 |

Table 2.2.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 2 – heat pump heating – Queensland

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 1.995 | 1.576 | 0.766 | 0.641 | 0.623 | 2.910 | 2.355 | 0.508 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 2.262 | 1.863 | 1.045 | 0.919 | 0.880 | 3.185 | 2.635 | 0.737 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 2.231 | 1.832 | 1.014 | 0.887 | 0.849 | 3.154 | 2.604 | 0.706 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.184 | 1.785 | 0.967 | 0.840 | 0.802 | 3.107 | 2.557 | 0.659 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.137 | 1.738 | 0.920 | 0.793 | 0.755 | 3.060 | 2.510 | 0.612 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 2.207 | 1.805 | 0.990 | 0.859 | 0.824 | 3.129 | 2.578 | 0.682 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.181 | 1.779 | 0.964 | 0.833 | 0.798 | 3.103 | 2.552 | 0.656 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.142 | 1.740 | 0.925 | 0.794 | 0.759 | 3.064 | 2.513 | 0.617 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.103 | 1.701 | 0.886 | 0.755 | 0.720 | 3.025 | 2.474 | 0.578 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 2.262 | 1.863 | 1.045 | 0.919 | 0.880 | 3.185 | 2.635 | 0.737 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 1.989 | 1.570 | 0.759 | 0.634 | 0.617 | 2.904 | 2.348 | 0.501 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 2.256 | 1.857 | 1.038 | 0.912 | 0.874 | 3.179 | 2.629 | 0.730 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 2.224 | 1.826 | 1.007 | 0.881 | 0.843 | 3.148 | 2.597 | 0.699 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.177 | 1.779 | 0.960 | 0.834 | 0.796 | 3.101 | 2.550 | 0.652 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.130 | 1.732 | 0.913 | 0.787 | 0.749 | 3.054 | 2.503 | 0.605 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.200 | 1.799 | 0.984 | 0.853 | 0.817 | 3.123 | 2.571 | 0.675 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.174 | 1.773 | 0.958 | 0.827 | 0.791 | 3.097 | 2.545 | 0.649 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.135 | 1.734 | 0.919 | 0.788 | 0.752 | 3.058 | 2.506 | 0.610 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.096 | 1.695 | 0.880 | 0.749 | 0.713 | 3.019 | 2.467 | 0.571 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 2.256 | 1.857 | 1.038 | 0.912 | 0.874 | 3.179 | 2.629 | 0.730 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 1.979 | 1.560 | 0.750 | 0.624 | 0.607 | 2.894 | 2.338 | 0.492 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.246 | 1.847 | 1.029 | 0.903 | 0.864 | 3.169 | 2.619 | 0.721 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.215 | 1.816 | 0.997 | 0.871 | 0.833 | 3.138 | 2.587 | 0.689 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.168 | 1.769 | 0.950 | 0.824 | 0.786 | 3.091 | 2.540 | 0.642 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.121 | 1.722 | 0.903 | 0.777 | 0.739 | 3.044 | 2.494 | 0.595 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.191 | 1.789 | 0.974 | 0.843 | 0.807 | 3.113 | 2.562 | 0.665 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.165 | 1.763 | 0.948 | 0.817 | 0.781 | 3.087 | 2.536 | 0.639 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.126 | 1.724 | 0.909 | 0.778 | 0.742 | 3.048 | 2.497 | 0.600 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.087 | 1.685 | 0.870 | 0.739 | 0.704 | 3.009 | 2.458 | 0.562 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 2.246 | 1.847 | 1.029 | 0.903 | 0.864 | 3.169 | 2.619 | 0.721 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 1.969 | 1.550 | 0.740 | 0.615 | 0.597 | 2.884 | 2.329 | 0.482 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.236 | 1.837 | 1.019 | 0.893 | 0.854 | 3.160 | 2.609 | 0.711 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.205 | 1.806 | 0.988 | 0.861 | 0.823 | 3.128 | 2.578 | 0.680 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.158 | 1.759 | 0.941 | 0.814 | 0.776 | 3.081 | 2.531 | 0.633 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.111 | 1.712 | 0.894 | 0.768 | 0.729 | 3.034 | 2.484 | 0.586 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.181 | 1.779 | 0.964 | 0.833 | 0.798 | 3.103 | 2.552 | 0.656 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.155 | 1.753 | 0.938 | 0.807 | 0.772 | 3.077 | 2.526 | 0.630 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.116 | 1.714 | 0.899 | 0.769 | 0.733 | 3.038 | 2.487 | 0.591 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.077 | 1.675 | 0.860 | 0.730 | 0.694 | 2.999 | 2.448 | 0.552 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.236 | 1.837 | 1.019 | 0.893 | 0.854 | 3.160 | 2.609 | 0.711 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 1.983 | 1.562 | 0.754 | 0.632 | 0.615 | 2.896 | 2.341 | 0.499 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 2.249 | 1.850 | 1.033 | 0.906 | 0.869 | 3.172 | 2.622 | 0.726 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 2.218 | 1.819 | 1.002 | 0.875 | 0.837 | 3.141 | 2.590 | 0.695 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.171 | 1.772 | 0.955 | 0.828 | 0.790 | 3.094 | 2.543 | 0.648 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.124 | 1.725 | 0.908 | 0.781 | 0.743 | 3.047 | 2.496 | 0.601 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.194 | 1.792 | 0.979 | 0.847 | 0.812 | 3.116 | 2.564 | 0.673 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.168 | 1.766 | 0.953 | 0.821 | 0.786 | 3.090 | 2.538 | 0.647 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.129 | 1.727 | 0.914 | 0.782 | 0.747 | 3.051 | 2.499 | 0.608 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.090 | 1.688 | 0.875 | 0.743 | 0.708 | 3.012 | 2.461 | 0.569 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 2.249 | 1.850 | 1.033 | 0.906 | 0.869 | 3.172 | 2.622 | 0.726 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 1.978 | 1.557 | 0.748 | 0.626 | 0.609 | 2.891 | 2.335 | 0.493 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 2.244 | 1.845 | 1.028 | 0.901 | 0.863 | 3.167 | 2.616 | 0.721 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 2.213 | 1.813 | 0.997 | 0.870 | 0.832 | 3.135 | 2.585 | 0.689 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.166 | 1.766 | 0.950 | 0.823 | 0.785 | 3.088 | 2.538 | 0.642 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.119 | 1.720 | 0.903 | 0.776 | 0.738 | 3.041 | 2.491 | 0.595 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.189 | 1.786 | 0.973 | 0.842 | 0.806 | 3.110 | 2.559 | 0.667 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.163 | 1.760 | 0.947 | 0.816 | 0.780 | 3.084 | 2.533 | 0.641 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.124 | 1.721 | 0.908 | 0.777 | 0.741 | 3.045 | 2.494 | 0.602 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.085 | 1.682 | 0.869 | 0.738 | 0.702 | 3.006 | 2.455 | 0.563 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 2.244 | 1.845 | 1.028 | 0.901 | 0.863 | 3.167 | 2.616 | 0.721 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 1.969 | 1.549 | 0.740 | 0.618 | 0.601 | 2.883 | 2.327 | 0.485 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.236 | 1.837 | 1.020 | 0.893 | 0.855 | 3.158 | 2.608 | 0.712 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.204 | 1.805 | 0.988 | 0.861 | 0.823 | 3.127 | 2.577 | 0.681 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.157 | 1.758 | 0.941 | 0.814 | 0.776 | 3.080 | 2.530 | 0.634 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.110 | 1.711 | 0.894 | 0.767 | 0.730 | 3.033 | 2.483 | 0.587 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.180 | 1.778 | 0.965 | 0.833 | 0.798 | 3.102 | 2.551 | 0.659 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.154 | 1.752 | 0.939 | 0.807 | 0.772 | 3.076 | 2.525 | 0.633 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.115 | 1.713 | 0.900 | 0.768 | 0.733 | 3.037 | 2.486 | 0.594 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.076 | 1.674 | 0.861 | 0.729 | 0.694 | 2.998 | 2.447 | 0.555 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 2.236 | 1.837 | 1.020 | 0.893 | 0.855 | 3.158 | 2.608 | 0.712 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 1.961 | 1.540 | 0.732 | 0.610 | 0.593 | 2.874 | 2.319 | 0.477 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.227 | 1.828 | 1.011 | 0.884 | 0.847 | 3.150 | 2.600 | 0.704 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.196 | 1.797 | 0.980 | 0.853 | 0.815 | 3.119 | 2.568 | 0.673 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.149 | 1.750 | 0.933 | 0.806 | 0.768 | 3.072 | 2.521 | 0.626 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.102 | 1.703 | 0.886 | 0.759 | 0.721 | 3.025 | 2.474 | 0.579 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.172 | 1.770 | 0.957 | 0.825 | 0.790 | 3.094 | 2.542 | 0.651 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.146 | 1.744 | 0.931 | 0.799 | 0.764 | 3.068 | 2.516 | 0.625 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 2.107 | 1.705 | 0.892 | 0.760 | 0.725 | 3.029 | 2.477 | 0.586 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.068 | 1.666 | 0.853 | 0.721 | 0.686 | 2.990 | 2.438 | 0.547 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.227 | 1.828 | 1.011 | 0.884 | 0.847 | 3.150 | 2.600 | 0.704 |

Table 2.3.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 2 – other heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 2.425 | 1.532 | 0.990 | 0.700 | 0.801 | 2.263 | 1.877 | 0.577 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 2.824 | 1.979 | 1.389 | 1.151 | 1.219 | 2.700 | 2.321 | 0.963 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 2.788 | 1.943 | 1.353 | 1.114 | 1.183 | 2.664 | 2.284 | 0.927 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 2.733 | 1.888 | 1.298 | 1.060 | 1.128 | 2.610 | 2.230 | 0.873 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.679 | 1.834 | 1.244 | 1.005 | 1.074 | 2.555 | 2.175 | 0.818 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.744 | 1.893 | 1.310 | 1.066 | 1.141 | 2.615 | 2.231 | 0.878 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 2.715 | 1.863 | 1.281 | 1.037 | 1.111 | 2.585 | 2.202 | 0.849 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.670 | 1.819 | 1.237 | 0.993 | 1.067 | 2.541 | 2.157 | 0.804 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.626 | 1.775 | 1.192 | 0.948 | 1.023 | 2.497 | 2.113 | 0.760 |
| Electric - Resistance (Panel) | Other or none specified | 2.824 | 1.979 | 1.389 | 1.151 | 1.219 | 2.700 | 2.321 | 0.963 |
| Wood Heater | Evaporative | 2.271 | 1.368 | 0.854 | 0.603 | 0.669 | 2.096 | 1.712 | 0.489 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 2.673 | 1.827 | 1.259 | 1.011 | 1.086 | 2.545 | 2.159 | 0.826 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 2.637 | 1.791 | 1.223 | 0.974 | 1.050 | 2.509 | 2.123 | 0.790 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 2.582 | 1.737 | 1.168 | 0.920 | 0.996 | 2.454 | 2.069 | 0.736 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.528 | 1.682 | 1.114 | 0.865 | 0.941 | 2.400 | 2.014 | 0.681 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.595 | 1.738 | 1.183 | 0.925 | 1.007 | 2.457 | 2.069 | 0.748 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.566 | 1.708 | 1.153 | 0.895 | 0.978 | 2.427 | 2.039 | 0.719 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.522 | 1.664 | 1.109 | 0.851 | 0.933 | 2.383 | 1.995 | 0.674 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.477 | 1.620 | 1.065 | 0.807 | 0.889 | 2.339 | 1.950 | 0.630 |
| Wood Heater | Other or none specified | 2.673 | 1.827 | 1.259 | 1.011 | 1.086 | 2.545 | 2.159 | 0.826 |
| Electric - Resistance (Slab) | Evaporative | 2.376 | 1.483 | 0.945 | 0.664 | 0.753 | 2.222 | 1.832 | 0.548 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 2.774 | 1.939 | 1.345 | 1.108 | 1.176 | 2.666 | 2.280 | 0.919 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 2.738 | 1.903 | 1.309 | 1.071 | 1.139 | 2.630 | 2.244 | 0.882 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 2.683 | 1.848 | 1.254 | 1.017 | 1.085 | 2.576 | 2.189 | 0.828 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.629 | 1.794 | 1.200 | 0.963 | 1.031 | 2.521 | 2.135 | 0.773 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.697 | 1.851 | 1.269 | 1.022 | 1.097 | 2.579 | 2.189 | 0.832 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.668 | 1.821 | 1.240 | 0.993 | 1.068 | 2.550 | 2.160 | 0.803 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.623 | 1.777 | 1.196 | 0.949 | 1.023 | 2.505 | 2.115 | 0.759 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.579 | 1.733 | 1.151 | 0.904 | 0.979 | 2.461 | 2.071 | 0.714 |
| Electric - Resistance (Slab) | Other or none specified | 2.774 | 1.939 | 1.345 | 1.108 | 1.176 | 2.666 | 2.280 | 0.919 |
| Other or none specified | Evaporative | 2.222 | 1.314 | 0.812 | 0.578 | 0.647 | 2.031 | 1.651 | 0.465 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 2.531 | 1.659 | 1.127 | 0.859 | 0.949 | 2.369 | 1.990 | 0.696 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 2.494 | 1.623 | 1.091 | 0.822 | 0.912 | 2.333 | 1.954 | 0.659 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 2.440 | 1.568 | 1.037 | 0.768 | 0.858 | 2.279 | 1.899 | 0.605 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.385 | 1.514 | 0.982 | 0.714 | 0.803 | 2.224 | 1.845 | 0.550 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.468 | 1.586 | 1.065 | 0.788 | 0.883 | 2.299 | 1.921 | 0.648 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.438 | 1.556 | 1.036 | 0.758 | 0.854 | 2.269 | 1.891 | 0.619 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.394 | 1.512 | 0.991 | 0.714 | 0.809 | 2.225 | 1.847 | 0.574 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.350 | 1.468 | 0.947 | 0.670 | 0.765 | 2.181 | 1.803 | 0.530 |
| Other or none specified | Other or none specified | 2.531 | 1.659 | 1.127 | 0.859 | 0.949 | 2.369 | 1.990 | 0.696 |

Table 2.3.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 2 – other heating – Queensland

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 2.157 | 1.754 | 0.919 | 0.781 | 0.747 | 3.092 | 2.537 | 0.616 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 2.509 | 2.124 | 1.272 | 1.165 | 1.115 | 3.449 | 2.901 | 0.974 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 2.478 | 2.093 | 1.240 | 1.134 | 1.084 | 3.418 | 2.870 | 0.942 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 2.431 | 2.046 | 1.193 | 1.087 | 1.037 | 3.371 | 2.823 | 0.895 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.384 | 1.999 | 1.146 | 1.040 | 0.990 | 3.324 | 2.776 | 0.848 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.442 | 2.051 | 1.205 | 1.094 | 1.047 | 3.380 | 2.830 | 0.901 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 2.416 | 2.025 | 1.179 | 1.068 | 1.021 | 3.354 | 2.804 | 0.875 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.377 | 1.986 | 1.140 | 1.029 | 0.982 | 3.315 | 2.765 | 0.836 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.338 | 1.947 | 1.101 | 0.990 | 0.943 | 3.276 | 2.726 | 0.797 |
| Electric - Resistance (Panel) | Other or none specified | 2.509 | 2.124 | 1.272 | 1.165 | 1.115 | 3.449 | 2.901 | 0.974 |
| Wood Heater | Evaporative | 2.053 | 1.647 | 0.822 | 0.682 | 0.660 | 2.991 | 2.432 | 0.546 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 2.407 | 2.021 | 1.180 | 1.068 | 1.020 | 3.353 | 2.800 | 0.875 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 2.376 | 1.990 | 1.149 | 1.037 | 0.989 | 3.321 | 2.769 | 0.844 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 2.329 | 1.943 | 1.102 | 0.990 | 0.942 | 3.274 | 2.722 | 0.797 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.282 | 1.896 | 1.055 | 0.943 | 0.895 | 3.227 | 2.675 | 0.750 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.339 | 1.950 | 1.114 | 0.996 | 0.952 | 3.282 | 2.728 | 0.803 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.313 | 1.924 | 1.088 | 0.970 | 0.926 | 3.256 | 2.702 | 0.777 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.274 | 1.885 | 1.049 | 0.931 | 0.887 | 3.217 | 2.663 | 0.738 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.235 | 1.846 | 1.010 | 0.892 | 0.848 | 3.178 | 2.624 | 0.699 |
| Wood Heater | Other or none specified | 2.407 | 2.021 | 1.180 | 1.068 | 1.020 | 3.353 | 2.800 | 0.875 |
| Electric - Resistance (Slab) | Evaporative | 2.202 | 1.811 | 0.959 | 0.826 | 0.788 | 3.164 | 2.603 | 0.645 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 2.554 | 2.183 | 1.311 | 1.210 | 1.155 | 3.524 | 2.970 | 1.018 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 2.523 | 2.152 | 1.280 | 1.179 | 1.124 | 3.492 | 2.938 | 0.986 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 2.476 | 2.105 | 1.233 | 1.132 | 1.077 | 3.445 | 2.891 | 0.939 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.429 | 2.058 | 1.186 | 1.085 | 1.030 | 3.398 | 2.844 | 0.892 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.487 | 2.109 | 1.245 | 1.139 | 1.087 | 3.453 | 2.898 | 0.945 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.461 | 2.083 | 1.219 | 1.113 | 1.061 | 3.427 | 2.872 | 0.919 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.422 | 2.044 | 1.180 | 1.074 | 1.022 | 3.388 | 2.833 | 0.880 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.383 | 2.005 | 1.141 | 1.035 | 0.983 | 3.349 | 2.794 | 0.841 |
| Electric - Resistance (Slab) | Other or none specified | 2.554 | 2.183 | 1.311 | 1.210 | 1.155 | 3.524 | 2.970 | 1.018 |
| Other or none specified | Evaporative | 1.995 | 1.576 | 0.766 | 0.641 | 0.623 | 2.910 | 2.355 | 0.508 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 2.262 | 1.863 | 1.045 | 0.919 | 0.880 | 3.185 | 2.635 | 0.737 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 2.231 | 1.832 | 1.014 | 0.887 | 0.849 | 3.154 | 2.604 | 0.706 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 2.184 | 1.785 | 0.967 | 0.840 | 0.802 | 3.107 | 2.557 | 0.659 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.137 | 1.738 | 0.920 | 0.793 | 0.755 | 3.060 | 2.510 | 0.612 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.207 | 1.805 | 0.990 | 0.859 | 0.824 | 3.129 | 2.578 | 0.682 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.181 | 1.779 | 0.964 | 0.833 | 0.798 | 3.103 | 2.552 | 0.656 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.142 | 1.740 | 0.925 | 0.794 | 0.759 | 3.064 | 2.513 | 0.617 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.103 | 1.701 | 0.886 | 0.755 | 0.720 | 3.025 | 2.474 | 0.578 |
| Other or none specified | Other or none specified | 2.262 | 1.863 | 1.045 | 0.919 | 0.880 | 3.185 | 2.635 | 0.737 |

2.4.3 Climate zone 3

Table 3.1.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 3 – gas heating – Queensland

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 2.405 | 2.038 | 1.240 | 1.140 | 0.842 | 3.223 | 2.791 | 0.805 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.798 | 3.502 | 2.639 | 2.576 | 2.244 | 4.675 | 4.250 | 2.216 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.635 | 3.340 | 2.477 | 2.414 | 2.081 | 4.513 | 4.087 | 2.054 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.392 | 3.096 | 2.233 | 2.170 | 1.838 | 4.269 | 3.844 | 1.811 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.148 | 2.853 | 1.990 | 1.927 | 1.595 | 4.026 | 3.600 | 1.567 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 3.519 | 3.212 | 2.354 | 2.284 | 1.965 | 4.387 | 3.961 | 1.936 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.383 | 3.076 | 2.218 | 2.148 | 1.829 | 4.251 | 3.825 | 1.800 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.179 | 2.872 | 2.014 | 1.944 | 1.625 | 4.047 | 3.620 | 1.596 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.975 | 2.668 | 1.810 | 1.740 | 1.421 | 3.842 | 3.416 | 1.392 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Other or none specified | 3.798 | 3.502 | 2.639 | 2.576 | 2.244 | 4.675 | 4.250 | 2.216 |
| Gas – ducted < 4.5 Stars | Evaporative | 2.376 | 2.009 | 1.210 | 1.110 | 0.812 | 3.193 | 2.761 | 0.776 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.768 | 3.472 | 2.610 | 2.547 | 2.214 | 4.645 | 4.220 | 2.187 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.606 | 3.310 | 2.447 | 2.384 | 2.052 | 4.483 | 4.058 | 2.024 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.362 | 3.067 | 2.204 | 2.141 | 1.809 | 4.240 | 3.814 | 1.781 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.119 | 2.823 | 1.961 | 1.897 | 1.565 | 3.996 | 3.571 | 1.538 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.490 | 3.183 | 2.325 | 2.255 | 1.936 | 4.357 | 3.931 | 1.907 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.354 | 3.047 | 2.189 | 2.119 | 1.800 | 4.221 | 3.795 | 1.771 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.150 | 2.842 | 1.985 | 1.915 | 1.596 | 4.017 | 3.591 | 1.566 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.945 | 2.638 | 1.780 | 1.710 | 1.391 | 3.813 | 3.387 | 1.362 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Other or none specified | 3.768 | 3.472 | 2.610 | 2.547 | 2.214 | 4.645 | 4.220 | 2.187 |
| Gas – ducted < 6 Stars | Evaporative | 2.331 | 1.965 | 1.166 | 1.066 | 0.768 | 3.149 | 2.717 | 0.732 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.724 | 3.428 | 2.565 | 2.502 | 2.170 | 4.601 | 4.176 | 2.143 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.562 | 3.266 | 2.403 | 2.340 | 2.008 | 4.439 | 4.014 | 1.980 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.318 | 3.022 | 2.160 | 2.097 | 1.764 | 4.196 | 3.770 | 1.737 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.075 | 2.779 | 1.916 | 1.853 | 1.521 | 3.952 | 3.527 | 1.493 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.446 | 3.138 | 2.281 | 2.211 | 1.892 | 4.313 | 3.887 | 1.862 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.310 | 3.002 | 2.145 | 2.075 | 1.756 | 4.177 | 3.751 | 1.726 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.105 | 2.798 | 1.940 | 1.870 | 1.551 | 3.973 | 3.547 | 1.522 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.901 | 2.594 | 1.736 | 1.666 | 1.347 | 3.769 | 3.343 | 1.318 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Other or none specified | 3.724 | 3.428 | 2.565 | 2.502 | 2.170 | 4.601 | 4.176 | 2.143 |
| Gas – ducted ≥ 6 Stars | Evaporative | 2.287 | 1.920 | 1.122 | 1.022 | 0.724 | 3.105 | 2.673 | 0.688 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.680 | 3.384 | 2.521 | 2.458 | 2.126 | 4.557 | 4.132 | 2.098 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.517 | 3.222 | 2.359 | 2.296 | 1.964 | 4.395 | 3.969 | 1.936 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.274 | 2.978 | 2.116 | 2.052 | 1.720 | 4.151 | 3.726 | 1.693 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.030 | 2.735 | 1.872 | 1.809 | 1.477 | 3.908 | 3.483 | 1.449 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.401 | 3.094 | 2.237 | 2.166 | 1.847 | 4.269 | 3.843 | 1.818 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.265 | 2.958 | 2.100 | 2.030 | 1.711 | 4.133 | 3.707 | 1.682 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.061 | 2.754 | 1.896 | 1.826 | 1.507 | 3.929 | 3.503 | 1.478 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.857 | 2.550 | 1.692 | 1.622 | 1.303 | 3.724 | 3.298 | 1.274 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Other or none specified | 3.680 | 3.384 | 2.521 | 2.458 | 2.126 | 4.557 | 4.132 | 2.098 |
| Gas - non ducted < 3 Stars | Evaporative | 2.328 | 1.956 | 1.168 | 1.064 | 0.766 | 3.137 | 2.705 | 0.729 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.717 | 3.420 | 2.560 | 2.495 | 2.167 | 4.590 | 4.166 | 2.140 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.555 | 3.258 | 2.398 | 2.333 | 2.005 | 4.428 | 4.004 | 1.978 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.312 | 3.014 | 2.155 | 2.090 | 1.762 | 4.185 | 3.760 | 1.734 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.068 | 2.771 | 1.911 | 1.846 | 1.518 | 3.941 | 3.517 | 1.491 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.441 | 3.129 | 2.275 | 2.205 | 1.888 | 4.302 | 3.876 | 1.859 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.305 | 2.993 | 2.139 | 2.069 | 1.752 | 4.166 | 3.740 | 1.723 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.101 | 2.789 | 1.934 | 1.865 | 1.548 | 3.962 | 3.536 | 1.518 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.896 | 2.585 | 1.730 | 1.661 | 1.344 | 3.758 | 3.332 | 1.314 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Other or none specified | 3.717 | 3.420 | 2.560 | 2.495 | 2.167 | 4.590 | 4.166 | 2.140 |
| Gas - non ducted < 4.5 Stars | Evaporative | 2.312 | 1.941 | 1.152 | 1.048 | 0.750 | 3.121 | 2.690 | 0.714 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.702 | 3.405 | 2.545 | 2.480 | 2.152 | 4.575 | 4.150 | 2.124 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.540 | 3.242 | 2.383 | 2.318 | 1.990 | 4.412 | 3.988 | 1.962 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.296 | 2.999 | 2.139 | 2.074 | 1.746 | 4.169 | 3.745 | 1.719 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.053 | 2.755 | 1.896 | 1.831 | 1.503 | 3.926 | 3.501 | 1.475 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.425 | 3.114 | 2.259 | 2.190 | 1.873 | 4.287 | 3.861 | 1.843 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.289 | 2.978 | 2.123 | 2.054 | 1.737 | 4.150 | 3.725 | 1.707 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.085 | 2.774 | 1.919 | 1.850 | 1.533 | 3.946 | 3.521 | 1.503 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.881 | 2.569 | 1.715 | 1.646 | 1.328 | 3.742 | 3.316 | 1.299 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 3.702 | 3.405 | 2.545 | 2.480 | 2.152 | 4.575 | 4.150 | 2.124 |
| Gas - non ducted < 6 Stars | Evaporative | 2.289 | 1.918 | 1.129 | 1.025 | 0.727 | 3.098 | 2.667 | 0.691 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.679 | 3.381 | 2.522 | 2.457 | 2.129 | 4.552 | 4.127 | 2.101 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.517 | 3.219 | 2.359 | 2.295 | 1.966 | 4.389 | 3.965 | 1.939 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.273 | 2.976 | 2.116 | 2.051 | 1.723 | 4.146 | 3.722 | 1.696 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.030 | 2.732 | 1.872 | 1.808 | 1.480 | 3.902 | 3.478 | 1.452 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.402 | 3.091 | 2.236 | 2.167 | 1.850 | 4.263 | 3.838 | 1.820 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.266 | 2.955 | 2.100 | 2.031 | 1.714 | 4.127 | 3.702 | 1.684 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.062 | 2.750 | 1.896 | 1.827 | 1.509 | 3.923 | 3.497 | 1.480 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.858 | 2.546 | 1.692 | 1.622 | 1.305 | 3.719 | 3.293 | 1.276 |
| Gas - non ducted < 6 Stars | Other or none specified | 3.679 | 3.381 | 2.522 | 2.457 | 2.129 | 4.552 | 4.127 | 2.101 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 2.266 | 1.894 | 1.106 | 1.002 | 0.704 | 3.075 | 2.643 | 0.667 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.656 | 3.358 | 2.498 | 2.434 | 2.106 | 4.528 | 4.104 | 2.078 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.493 | 3.196 | 2.336 | 2.271 | 1.943 | 4.366 | 3.942 | 1.916 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.250 | 2.952 | 2.093 | 2.028 | 1.700 | 4.123 | 3.698 | 1.672 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.006 | 2.709 | 1.849 | 1.785 | 1.456 | 3.879 | 3.455 | 1.429 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.379 | 3.068 | 2.213 | 2.144 | 1.827 | 4.240 | 3.815 | 1.797 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.243 | 2.931 | 2.077 | 2.008 | 1.690 | 4.104 | 3.678 | 1.661 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.039 | 2.727 | 1.873 | 1.803 | 1.486 | 3.900 | 3.474 | 1.457 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.835 | 2.523 | 1.668 | 1.599 | 1.282 | 3.696 | 3.270 | 1.252 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 3.656 | 3.358 | 2.498 | 2.434 | 2.106 | 4.528 | 4.104 | 2.078 |

Table 3.1.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 3 – gas heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 2.955 | 1.909 | 1.371 | 1.077 | 0.859 | 3.297 | 2.831 | 0.796 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.023 | 4.115 | 3.424 | 3.181 | 2.892 | 5.517 | 5.055 | 2.840 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.780 | 3.872 | 3.181 | 2.938 | 2.648 | 5.274 | 4.812 | 2.597 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.415 | 3.507 | 2.816 | 2.573 | 2.283 | 4.909 | 4.447 | 2.232 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.050 | 3.142 | 2.451 | 2.208 | 1.918 | 4.544 | 4.082 | 1.867 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 4.596 | 3.675 | 3.001 | 2.747 | 2.461 | 5.077 | 4.612 | 2.411 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.394 | 3.472 | 2.798 | 2.544 | 2.259 | 4.875 | 4.409 | 2.208 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.090 | 3.168 | 2.494 | 2.240 | 1.955 | 4.571 | 4.105 | 1.905 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.786 | 2.864 | 2.190 | 1.936 | 1.651 | 4.267 | 3.801 | 1.601 |
| Gas – ducted < 3 Stars | Other or none specified | 5.023 | 4.115 | 3.424 | 3.181 | 2.892 | 5.517 | 5.055 | 2.840 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 2.927 | 1.881 | 1.342 | 1.049 | 0.831 | 3.269 | 2.803 | 0.768 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.995 | 4.087 | 3.396 | 3.153 | 2.864 | 5.489 | 5.027 | 2.812 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.752 | 3.844 | 3.153 | 2.910 | 2.620 | 5.246 | 4.784 | 2.569 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.387 | 3.479 | 2.788 | 2.545 | 2.255 | 4.881 | 4.419 | 2.204 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.022 | 3.114 | 2.423 | 2.180 | 1.890 | 4.516 | 4.054 | 1.839 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.568 | 3.647 | 2.973 | 2.719 | 2.433 | 5.049 | 4.584 | 2.383 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.366 | 3.444 | 2.770 | 2.516 | 2.231 | 4.847 | 4.381 | 2.180 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.062 | 3.140 | 2.466 | 2.212 | 1.927 | 4.543 | 4.077 | 1.877 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.758 | 2.836 | 2.162 | 1.908 | 1.623 | 4.239 | 3.773 | 1.573 |
| Gas – ducted < 4.5 Stars | Other or none specified | 4.995 | 4.087 | 3.396 | 3.153 | 2.864 | 5.489 | 5.027 | 2.812 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 2.885 | 1.839 | 1.300 | 1.007 | 0.789 | 3.227 | 2.761 | 0.725 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.953 | 4.045 | 3.354 | 3.111 | 2.822 | 5.447 | 4.985 | 2.770 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.710 | 3.802 | 3.111 | 2.868 | 2.578 | 5.204 | 4.742 | 2.527 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.345 | 3.437 | 2.746 | 2.503 | 2.213 | 4.839 | 4.377 | 2.162 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.980 | 3.072 | 2.381 | 2.138 | 1.848 | 4.473 | 4.012 | 1.797 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.526 | 3.605 | 2.931 | 2.677 | 2.391 | 5.007 | 4.542 | 2.341 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.324 | 3.402 | 2.728 | 2.474 | 2.189 | 4.805 | 4.339 | 2.138 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.020 | 3.098 | 2.424 | 2.170 | 1.885 | 4.501 | 4.035 | 1.835 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.716 | 2.794 | 2.120 | 1.866 | 1.581 | 4.197 | 3.731 | 1.531 |
| Gas – ducted < 6 Stars | Other or none specified | 4.953 | 4.045 | 3.354 | 3.111 | 2.822 | 5.447 | 4.985 | 2.770 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 2.843 | 1.797 | 1.258 | 0.965 | 0.747 | 3.185 | 2.719 | 0.683 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.911 | 4.003 | 3.312 | 3.069 | 2.780 | 5.405 | 4.943 | 2.728 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.668 | 3.760 | 3.069 | 2.826 | 2.536 | 5.162 | 4.700 | 2.485 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.303 | 3.395 | 2.704 | 2.461 | 2.171 | 4.797 | 4.335 | 2.120 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.938 | 3.030 | 2.339 | 2.096 | 1.806 | 4.431 | 3.970 | 1.755 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.484 | 3.563 | 2.889 | 2.635 | 2.349 | 4.965 | 4.499 | 2.299 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.282 | 3.360 | 2.686 | 2.432 | 2.147 | 4.763 | 4.297 | 2.096 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.978 | 3.056 | 2.382 | 2.128 | 1.843 | 4.459 | 3.993 | 1.793 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.674 | 2.752 | 2.078 | 1.824 | 1.539 | 4.155 | 3.689 | 1.489 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 4.911 | 4.003 | 3.312 | 3.069 | 2.780 | 5.405 | 4.943 | 2.728 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 2.870 | 1.822 | 1.299 | 1.002 | 0.785 | 3.201 | 2.736 | 0.732 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.935 | 4.025 | 3.337 | 3.097 | 2.807 | 5.422 | 4.962 | 2.756 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.692 | 3.781 | 3.094 | 2.854 | 2.564 | 5.179 | 4.719 | 2.512 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.327 | 3.416 | 2.729 | 2.489 | 2.199 | 4.814 | 4.354 | 2.147 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.962 | 3.051 | 2.364 | 2.124 | 1.834 | 4.449 | 3.989 | 1.782 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.511 | 3.586 | 2.917 | 2.660 | 2.383 | 4.983 | 4.519 | 2.332 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.309 | 3.383 | 2.715 | 2.458 | 2.180 | 4.780 | 4.316 | 2.129 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.005 | 3.079 | 2.411 | 2.154 | 1.876 | 4.476 | 4.013 | 1.826 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.701 | 2.775 | 2.107 | 1.850 | 1.572 | 4.173 | 3.709 | 1.522 |
| Gas - non ducted < 3 Stars | Other or none specified | 4.935 | 4.025 | 3.337 | 3.097 | 2.807 | 5.422 | 4.962 | 2.756 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 2.856 | 1.807 | 1.285 | 0.987 | 0.770 | 3.187 | 2.722 | 0.718 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.921 | 4.010 | 3.323 | 3.083 | 2.793 | 5.408 | 4.947 | 2.741 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.677 | 3.767 | 3.079 | 2.839 | 2.549 | 5.164 | 4.704 | 2.498 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.312 | 3.402 | 2.714 | 2.474 | 2.184 | 4.799 | 4.339 | 2.133 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.947 | 3.037 | 2.349 | 2.109 | 1.819 | 4.434 | 3.974 | 1.768 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.497 | 3.571 | 2.903 | 2.645 | 2.368 | 4.968 | 4.504 | 2.317 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.294 | 3.368 | 2.700 | 2.443 | 2.165 | 4.766 | 4.302 | 2.115 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.990 | 3.064 | 2.396 | 2.139 | 1.862 | 4.462 | 3.998 | 1.811 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.686 | 2.761 | 2.092 | 1.835 | 1.558 | 4.158 | 3.694 | 1.507 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 4.921 | 4.010 | 3.323 | 3.083 | 2.793 | 5.408 | 4.947 | 2.741 |
| Gas - non ducted < 6 Stars | Evaporative | 2.834 | 1.785 | 1.263 | 0.965 | 0.748 | 3.165 | 2.700 | 0.696 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.899 | 3.988 | 3.301 | 3.061 | 2.771 | 5.386 | 4.925 | 2.719 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.655 | 3.745 | 3.057 | 2.817 | 2.527 | 5.142 | 4.682 | 2.476 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.290 | 3.380 | 2.692 | 2.452 | 2.162 | 4.777 | 4.317 | 2.111 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.925 | 3.015 | 2.327 | 2.087 | 1.797 | 4.412 | 3.952 | 1.746 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.475 | 3.549 | 2.881 | 2.624 | 2.346 | 4.946 | 4.482 | 2.295 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.272 | 3.346 | 2.678 | 2.421 | 2.143 | 4.744 | 4.280 | 2.093 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.968 | 3.043 | 2.374 | 2.117 | 1.840 | 4.440 | 3.976 | 1.789 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.664 | 2.739 | 2.070 | 1.813 | 1.536 | 4.136 | 3.672 | 1.485 |
| Gas - non ducted < 6 Stars | Other or none specified | 4.899 | 3.988 | 3.301 | 3.061 | 2.771 | 5.386 | 4.925 | 2.719 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 2.812 | 1.763 | 1.241 | 0.943 | 0.727 | 3.143 | 2.678 | 0.674 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.877 | 3.966 | 3.279 | 3.039 | 2.749 | 5.364 | 4.903 | 2.697 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.633 | 3.723 | 3.035 | 2.795 | 2.505 | 5.120 | 4.660 | 2.454 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.268 | 3.358 | 2.670 | 2.430 | 2.140 | 4.755 | 4.295 | 2.089 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.903 | 2.993 | 2.305 | 2.065 | 1.775 | 4.390 | 3.930 | 1.724 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.453 | 3.527 | 2.859 | 2.602 | 2.324 | 4.924 | 4.460 | 2.273 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.250 | 3.324 | 2.656 | 2.399 | 2.122 | 4.722 | 4.258 | 2.071 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.946 | 3.021 | 2.352 | 2.095 | 1.818 | 4.418 | 3.954 | 1.767 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.643 | 2.717 | 2.048 | 1.791 | 1.514 | 4.114 | 3.650 | 1.463 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 4.877 | 3.966 | 3.279 | 3.039 | 2.749 | 5.364 | 4.903 | 2.697 |

Table 3.1.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 3 – gas heating – Northern Territory

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 1.646 | 1.513 | 0.873 | 0.853 | 0.602 | 1.375 | 1.253 | 0.568 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.479 | 2.359 | 1.707 | 1.692 | 1.440 | 2.221 | 2.097 | 1.407 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.384 | 2.264 | 1.612 | 1.598 | 1.345 | 2.126 | 2.002 | 1.313 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.242 | 2.122 | 1.470 | 1.456 | 1.203 | 1.984 | 1.860 | 1.170 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.100 | 1.980 | 1.328 | 1.314 | 1.061 | 1.842 | 1.718 | 1.028 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 2.316 | 2.194 | 1.544 | 1.529 | 1.277 | 2.056 | 1.932 | 1.244 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.236 | 2.113 | 1.464 | 1.448 | 1.197 | 1.976 | 1.852 | 1.164 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.115 | 1.993 | 1.343 | 1.327 | 1.076 | 1.855 | 1.731 | 1.043 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 1.995 | 1.872 | 1.222 | 1.207 | 0.955 | 1.734 | 1.611 | 0.922 |
| Gas – ducted < 3 Stars | Other or none specified | 2.479 | 2.359 | 1.707 | 1.692 | 1.440 | 2.221 | 2.097 | 1.407 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 1.634 | 1.501 | 0.861 | 0.841 | 0.590 | 1.363 | 1.241 | 0.556 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.467 | 2.347 | 1.695 | 1.681 | 1.428 | 2.209 | 2.085 | 1.395 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.372 | 2.252 | 1.601 | 1.586 | 1.334 | 2.114 | 1.990 | 1.301 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.230 | 2.110 | 1.458 | 1.444 | 1.191 | 1.972 | 1.848 | 1.159 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.088 | 1.968 | 1.316 | 1.302 | 1.049 | 1.830 | 1.706 | 1.017 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.304 | 2.182 | 1.532 | 1.517 | 1.265 | 2.044 | 1.920 | 1.232 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.224 | 2.101 | 1.452 | 1.436 | 1.185 | 1.964 | 1.840 | 1.152 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.103 | 1.981 | 1.331 | 1.316 | 1.064 | 1.843 | 1.719 | 1.031 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.983 | 1.860 | 1.211 | 1.195 | 0.943 | 1.722 | 1.599 | 0.910 |
| Gas – ducted < 4.5 Stars | Other or none specified | 2.467 | 2.347 | 1.695 | 1.681 | 1.428 | 2.209 | 2.085 | 1.395 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 1.616 | 1.483 | 0.843 | 0.823 | 0.572 | 1.345 | 1.223 | 0.538 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.449 | 2.329 | 1.677 | 1.663 | 1.410 | 2.191 | 2.067 | 1.378 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.355 | 2.234 | 1.583 | 1.568 | 1.316 | 2.096 | 1.972 | 1.283 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.213 | 2.092 | 1.441 | 1.426 | 1.174 | 1.954 | 1.830 | 1.141 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.070 | 1.950 | 1.299 | 1.284 | 1.032 | 1.812 | 1.688 | 0.999 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.287 | 2.164 | 1.514 | 1.499 | 1.247 | 2.026 | 1.903 | 1.214 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.206 | 2.084 | 1.434 | 1.418 | 1.167 | 1.946 | 1.822 | 1.134 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.085 | 1.963 | 1.313 | 1.298 | 1.046 | 1.825 | 1.702 | 1.013 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.965 | 1.842 | 1.193 | 1.177 | 0.926 | 1.705 | 1.581 | 0.893 |
| Gas – ducted < 6 Stars | Other or none specified | 2.449 | 2.329 | 1.677 | 1.663 | 1.410 | 2.191 | 2.067 | 1.378 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|---------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 1.598 | 1.466 | 0.825 | 0.805 | 0.554 | 1.328 | 1.205 | 0.520 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.432 | 2.311 | 1.660 | 1.645 | 1.393 | 2.173 | 2.049 | 1.360 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.337 | 2.216 | 1.565 | 1.550 | 1.298 | 2.079 | 1.955 | 1.265 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.195 | 2.074 | 1.423 | 1.408 | 1.156 | 1.936 | 1.813 | 1.123 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.053 | 1.932 | 1.281 | 1.266 | 1.014 | 1.794 | 1.670 | 0.981 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.269 | 2.146 | 1.497 | 1.481 | 1.230 | 2.008 | 1.885 | 1.196 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.188 | 2.066 | 1.416 | 1.401 | 1.149 | 1.928 | 1.804 | 1.116 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.068 | 1.945 | 1.296 | 1.280 | 1.028 | 1.807 | 1.684 | 0.995 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.947 | 1.824 | 1.175 | 1.159 | 0.908 | 1.687 | 1.563 | 0.875 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 2.432 | 2.311 | 1.660 | 1.645 | 1.393 | 2.173 | 2.049 | 1.360 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 1.616 | 1.483 | 0.843 | 0.823 | 0.571 | 1.345 | 1.223 | 0.537 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.449 | 2.328 | 1.677 | 1.662 | 1.410 | 2.191 | 2.067 | 1.377 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.354 | 2.234 | 1.582 | 1.567 | 1.315 | 2.096 | 1.972 | 1.282 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.212 | 2.092 | 1.440 | 1.425 | 1.173 | 1.954 | 1.830 | 1.140 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.070 | 1.950 | 1.298 | 1.283 | 1.031 | 1.812 | 1.688 | 0.998 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.286 | 2.164 | 1.514 | 1.498 | 1.247 | 2.026 | 1.902 | 1.214 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.206 | 2.083 | 1.434 | 1.418 | 1.166 | 1.945 | 1.822 | 1.133 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.085 | 1.962 | 1.313 | 1.297 | 1.046 | 1.825 | 1.701 | 1.013 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.965 | 1.842 | 1.192 | 1.177 | 0.925 | 1.704 | 1.580 | 0.892 |
| Gas - non ducted < 3 Stars | Other or none specified | 2.449 | 2.328 | 1.677 | 1.662 | 1.410 | 2.191 | 2.067 | 1.377 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 1.610 | 1.477 | 0.837 | 0.816 | 0.565 | 1.339 | 1.216 | 0.531 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.443 | 2.322 | 1.671 | 1.656 | 1.404 | 2.184 | 2.060 | 1.371 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.348 | 2.228 | 1.576 | 1.561 | 1.309 | 2.090 | 1.966 | 1.276 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.206 | 2.085 | 1.434 | 1.419 | 1.167 | 1.948 | 1.824 | 1.134 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.064 | 1.943 | 1.292 | 1.277 | 1.025 | 1.805 | 1.682 | 0.992 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.280 | 2.157 | 1.508 | 1.492 | 1.241 | 2.020 | 1.896 | 1.208 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.200 | 2.077 | 1.428 | 1.412 | 1.160 | 1.939 | 1.815 | 1.127 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.079 | 1.956 | 1.307 | 1.291 | 1.040 | 1.819 | 1.695 | 1.006 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.958 | 1.836 | 1.186 | 1.171 | 0.919 | 1.698 | 1.574 | 0.886 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 2.443 | 2.322 | 1.671 | 1.656 | 1.404 | 2.184 | 2.060 | 1.371 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Evaporative | 1.601 | 1.467 | 0.827 | 0.807 | 0.556 | 1.329 | 1.207 | 0.522 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.434 | 2.313 | 1.661 | 1.647 | 1.394 | 2.175 | 2.051 | 1.362 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.339 | 2.218 | 1.567 | 1.552 | 1.300 | 2.080 | 1.956 | 1.267 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.197 | 2.076 | 1.425 | 1.410 | 1.158 | 1.938 | 1.814 | 1.125 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.055 | 1.934 | 1.283 | 1.268 | 1.016 | 1.796 | 1.672 | 0.983 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.271 | 2.148 | 1.499 | 1.483 | 1.231 | 2.010 | 1.887 | 1.198 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.190 | 2.068 | 1.418 | 1.402 | 1.151 | 1.930 | 1.806 | 1.118 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.070 | 1.947 | 1.298 | 1.282 | 1.030 | 1.809 | 1.686 | 0.997 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.949 | 1.826 | 1.177 | 1.161 | 0.910 | 1.689 | 1.565 | 0.877 |
| Gas - non ducted < 6 Stars | Other or none specified | 2.434 | 2.313 | 1.661 | 1.647 | 1.394 | 2.175 | 2.051 | 1.362 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Evaporative | 1.591 | 1.458 | 0.818 | 0.798 | 0.547 | 1.320 | 1.198 | 0.513 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 2.424 | 2.304 | 1.652 | 1.637 | 1.385 | 2.166 | 2.042 | 1.352 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 2.330 | 2.209 | 1.557 | 1.543 | 1.290 | 2.071 | 1.947 | 1.258 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.187 | 2.067 | 1.415 | 1.401 | 1.148 | 1.929 | 1.805 | 1.115 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.045 | 1.925 | 1.273 | 1.258 | 1.006 | 1.787 | 1.663 | 0.973 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.261 | 2.139 | 1.489 | 1.474 | 1.222 | 2.001 | 1.877 | 1.189 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.181 | 2.058 | 1.409 | 1.393 | 1.142 | 1.921 | 1.797 | 1.108 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 2.060 | 1.938 | 1.288 | 1.273 | 1.021 | 1.800 | 1.676 | 0.988 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 1.940 | 1.817 | 1.168 | 1.152 | 0.900 | 1.679 | 1.556 | 0.867 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 2.424 | 2.304 | 1.652 | 1.637 | 1.385 | 2.166 | 2.042 | 1.352 |

Table 3.2.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 3 – heat pump heating – Queensland

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 2.134 | 1.743 | 0.991 | 0.873 | 0.616 | 2.904 | 2.478 | 0.590 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.517 | 3.198 | 2.358 | 2.284 | 1.974 | 4.355 | 3.936 | 1.945 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.354 | 3.036 | 2.195 | 2.122 | 1.812 | 4.192 | 3.773 | 1.783 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.111 | 2.792 | 1.952 | 1.878 | 1.569 | 3.949 | 3.530 | 1.539 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.868 | 2.549 | 1.709 | 1.635 | 1.325 | 3.706 | 3.287 | 1.296 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.242 | 2.908 | 2.082 | 2.005 | 1.693 | 4.068 | 3.645 | 1.661 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 3.106 | 2.772 | 1.946 | 1.869 | 1.557 | 3.932 | 3.509 | 1.525 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.902 | 2.568 | 1.742 | 1.664 | 1.352 | 3.727 | 3.305 | 1.321 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.698 | 2.363 | 1.538 | 1.460 | 1.148 | 3.523 | 3.101 | 1.117 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.517 | 3.198 | 2.358 | 2.284 | 1.974 | 4.355 | 3.936 | 1.945 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.129 | 1.737 | 0.986 | 0.867 | 0.611 | 2.898 | 2.472 | 0.585 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.511 | 3.192 | 2.352 | 2.278 | 1.969 | 4.349 | 3.930 | 1.939 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.349 | 3.030 | 2.190 | 2.116 | 1.806 | 4.187 | 3.768 | 1.777 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.105 | 2.787 | 1.946 | 1.873 | 1.563 | 3.943 | 3.524 | 1.534 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.862 | 2.543 | 1.703 | 1.629 | 1.319 | 3.700 | 3.281 | 1.290 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.237 | 2.902 | 2.077 | 1.999 | 1.687 | 4.062 | 3.640 | 1.655 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.101 | 2.766 | 1.941 | 1.863 | 1.551 | 3.926 | 3.504 | 1.519 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.896 | 2.562 | 1.736 | 1.659 | 1.347 | 3.722 | 3.299 | 1.315 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.692 | 2.358 | 1.532 | 1.455 | 1.143 | 3.517 | 3.095 | 1.111 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.511 | 3.192 | 2.352 | 2.278 | 1.969 | 4.349 | 3.930 | 1.939 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 2.120 | 1.728 | 0.977 | 0.859 | 0.602 | 2.889 | 2.464 | 0.576 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.502 | 3.184 | 2.343 | 2.270 | 1.960 | 4.340 | 3.921 | 1.931 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.340 | 3.021 | 2.181 | 2.107 | 1.798 | 4.178 | 3.759 | 1.768 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.097 | 2.778 | 1.938 | 1.864 | 1.554 | 3.935 | 3.516 | 1.525 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.853 | 2.535 | 1.694 | 1.621 | 1.311 | 3.691 | 3.272 | 1.281 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.228 | 2.893 | 2.068 | 1.990 | 1.678 | 4.053 | 3.631 | 1.647 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.092 | 2.757 | 1.932 | 1.854 | 1.542 | 3.917 | 3.495 | 1.511 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.888 | 2.553 | 1.728 | 1.650 | 1.338 | 3.713 | 3.291 | 1.306 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.684 | 2.349 | 1.524 | 1.446 | 1.134 | 3.509 | 3.087 | 1.102 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.502 | 3.184 | 2.343 | 2.270 | 1.960 | 4.340 | 3.921 | 1.931 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.111 | 1.720 | 0.968 | 0.850 | 0.593 | 2.881 | 2.455 | 0.567 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.494 | 3.175 | 2.335 | 2.261 | 1.951 | 4.332 | 3.913 | 1.922 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.331 | 3.013 | 2.172 | 2.099 | 1.789 | 4.169 | 3.750 | 1.760 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.088 | 2.769 | 1.929 | 1.855 | 1.546 | 3.926 | 3.507 | 1.516 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.844 | 2.526 | 1.686 | 1.612 | 1.302 | 3.682 | 3.264 | 1.273 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.219 | 2.885 | 2.059 | 1.982 | 1.670 | 4.045 | 3.622 | 1.638 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.083 | 2.749 | 1.923 | 1.846 | 1.534 | 3.909 | 3.486 | 1.502 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.879 | 2.545 | 1.719 | 1.641 | 1.329 | 3.704 | 3.282 | 1.298 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.675 | 2.340 | 1.515 | 1.437 | 1.125 | 3.500 | 3.078 | 1.094 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.494 | 3.175 | 2.335 | 2.261 | 1.951 | 4.332 | 3.913 | 1.922 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 2.123 | 1.731 | 0.981 | 0.862 | 0.608 | 2.892 | 2.466 | 0.582 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.505 | 3.187 | 2.346 | 2.273 | 1.963 | 4.343 | 3.924 | 1.934 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.343 | 3.024 | 2.184 | 2.111 | 1.801 | 4.181 | 3.762 | 1.772 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.099 | 2.781 | 1.940 | 1.868 | 1.558 | 3.938 | 3.519 | 1.528 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.856 | 2.538 | 1.697 | 1.624 | 1.314 | 3.694 | 3.275 | 1.285 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.231 | 2.897 | 2.071 | 1.994 | 1.681 | 4.056 | 3.634 | 1.650 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 3.095 | 2.760 | 1.935 | 1.858 | 1.545 | 3.920 | 3.498 | 1.514 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.890 | 2.556 | 1.731 | 1.653 | 1.341 | 3.716 | 3.294 | 1.309 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.686 | 2.352 | 1.527 | 1.449 | 1.137 | 3.512 | 3.089 | 1.105 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.505 | 3.187 | 2.346 | 2.273 | 1.963 | 4.343 | 3.924 | 1.934 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.118 | 1.726 | 0.976 | 0.857 | 0.603 | 2.887 | 2.461 | 0.577 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.500 | 3.182 | 2.341 | 2.268 | 1.958 | 4.338 | 3.919 | 1.929 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.338 | 3.020 | 2.179 | 2.106 | 1.796 | 4.176 | 3.757 | 1.767 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.094 | 2.776 | 1.936 | 1.863 | 1.553 | 3.933 | 3.514 | 1.523 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.851 | 2.533 | 1.692 | 1.619 | 1.309 | 3.689 | 3.270 | 1.280 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.226 | 2.892 | 2.067 | 1.989 | 1.677 | 4.051 | 3.629 | 1.645 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.090 | 2.756 | 1.930 | 1.853 | 1.540 | 3.915 | 3.493 | 1.509 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.886 | 2.551 | 1.726 | 1.648 | 1.336 | 3.711 | 3.289 | 1.305 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.681 | 2.347 | 1.522 | 1.444 | 1.132 | 3.507 | 3.085 | 1.100 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.500 | 3.182 | 2.341 | 2.268 | 1.958 | 4.338 | 3.919 | 1.929 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 2.110 | 1.718 | 0.969 | 0.850 | 0.596 | 2.879 | 2.454 | 0.570 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.493 | 3.175 | 2.334 | 2.261 | 1.951 | 4.331 | 3.912 | 1.922 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.331 | 3.012 | 2.172 | 2.099 | 1.789 | 4.169 | 3.750 | 1.760 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.087 | 2.769 | 1.928 | 1.855 | 1.545 | 3.925 | 3.506 | 1.516 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.844 | 2.525 | 1.685 | 1.612 | 1.302 | 3.682 | 3.263 | 1.273 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.219 | 2.884 | 2.059 | 1.981 | 1.669 | 4.044 | 3.622 | 1.638 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.082 | 2.748 | 1.923 | 1.845 | 1.533 | 3.908 | 3.486 | 1.501 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.878 | 2.544 | 1.719 | 1.641 | 1.329 | 3.704 | 3.281 | 1.297 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.674 | 2.340 | 1.515 | 1.437 | 1.125 | 3.500 | 3.077 | 1.093 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.493 | 3.175 | 2.334 | 2.261 | 1.951 | 4.331 | 3.912 | 1.922 |
| Heat pump - Non Ducted | Evaporative | 2.103 | 1.711 | 0.961 | 0.842 | 0.589 | 2.872 | 2.447 | 0.563 |
| Heat pump - Non Ducted | Heat pump - Ducted < 2.25 stars (< 3) | 3.486 | 3.167 | 2.327 | 2.254 | 1.944 | 4.324 | 3.905 | 1.914 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.323 | 3.005 | 2.164 | 2.091 | 1.782 | 4.162 | 3.742 | 1.752 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.080 | 2.762 | 1.921 | 1.848 | 1.538 | 3.918 | 3.499 | 1.509 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.836 | 2.518 | 1.677 | 1.605 | 1.295 | 3.675 | 3.256 | 1.265 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.211 | 2.877 | 2.052 | 1.974 | 1.662 | 4.037 | 3.614 | 1.630 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.075 | 2.741 | 1.916 | 1.838 | 1.526 | 3.901 | 3.478 | 1.494 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.871 | 2.537 | 1.712 | 1.634 | 1.322 | 3.696 | 3.274 | 1.290 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.667 | 2.333 | 1.508 | 1.430 | 1.117 | 3.492 | 3.070 | 1.086 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.486 | 3.167 | 2.327 | 2.254 | 1.944 | 4.324 | 3.905 | 1.914 |

Table 3.2.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 3 – heat pump heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 2.711 | 1.637 | 1.169 | 0.854 | 0.676 | 2.978 | 2.523 | 0.635 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.745 | 3.816 | 3.157 | 2.909 | 2.626 | 5.187 | 4.732 | 2.572 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.502 | 3.572 | 2.913 | 2.665 | 2.382 | 4.944 | 4.489 | 2.328 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.137 | 3.207 | 2.548 | 2.300 | 2.017 | 4.579 | 4.124 | 1.963 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.772 | 2.842 | 2.183 | 1.935 | 1.652 | 4.214 | 3.759 | 1.598 |
| Heat pump - Ducted < 3 Stars (< 2.25) | HP - Non-ducted < 2.25 stars (< 3) | 4.332 | 3.377 | 2.741 | 2.474 | 2.219 | 4.748 | 4.294 | 2.166 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.129 | 3.175 | 2.538 | 2.272 | 2.017 | 4.545 | 4.091 | 1.963 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.825 | 2.871 | 2.235 | 1.968 | 1.713 | 4.242 | 3.788 | 1.659 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.521 | 2.567 | 1.931 | 1.664 | 1.409 | 3.938 | 3.484 | 1.355 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 4.745 | 3.816 | 3.157 | 2.909 | 2.626 | 5.187 | 4.732 | 2.572 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.703 | 1.629 | 1.161 | 0.846 | 0.668 | 2.970 | 2.515 | 0.627 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.737 | 3.808 | 3.149 | 2.901 | 2.617 | 5.179 | 4.724 | 2.564 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.494 | 3.564 | 2.905 | 2.657 | 2.374 | 4.936 | 4.481 | 2.320 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.129 | 3.199 | 2.540 | 2.292 | 2.009 | 4.571 | 4.116 | 1.955 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.764 | 2.834 | 2.175 | 1.927 | 1.644 | 4.206 | 3.750 | 1.590 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.324 | 3.369 | 2.733 | 2.466 | 2.211 | 4.740 | 4.286 | 2.158 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.121 | 3.167 | 2.530 | 2.264 | 2.009 | 4.537 | 4.083 | 1.955 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.817 | 2.863 | 2.227 | 1.960 | 1.705 | 4.233 | 3.780 | 1.651 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.513 | 2.559 | 1.923 | 1.656 | 1.401 | 3.930 | 3.476 | 1.347 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.737 | 3.808 | 3.149 | 2.901 | 2.617 | 5.179 | 4.724 | 2.564 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 2.691 | 1.617 | 1.149 | 0.834 | 0.656 | 2.958 | 2.503 | 0.615 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.725 | 3.796 | 3.137 | 2.888 | 2.605 | 5.167 | 4.712 | 2.552 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.482 | 3.552 | 2.893 | 2.645 | 2.362 | 4.924 | 4.469 | 2.308 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.117 | 3.187 | 2.528 | 2.280 | 1.997 | 4.559 | 4.103 | 1.943 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.752 | 2.822 | 2.163 | 1.915 | 1.632 | 4.194 | 3.738 | 1.578 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.312 | 3.357 | 2.721 | 2.454 | 2.199 | 4.728 | 4.274 | 2.146 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.109 | 3.155 | 2.518 | 2.251 | 1.996 | 4.525 | 4.071 | 1.943 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.805 | 2.851 | 2.214 | 1.948 | 1.693 | 4.221 | 3.767 | 1.639 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.501 | 2.547 | 1.911 | 1.644 | 1.389 | 3.918 | 3.464 | 1.335 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 4.725 | 3.796 | 3.137 | 2.888 | 2.605 | 5.167 | 4.712 | 2.552 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.679 | 1.605 | 1.136 | 0.822 | 0.644 | 2.946 | 2.491 | 0.602 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.713 | 3.783 | 3.125 | 2.876 | 2.593 | 5.155 | 4.700 | 2.540 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.470 | 3.540 | 2.881 | 2.633 | 2.350 | 4.912 | 4.456 | 2.296 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.105 | 3.175 | 2.516 | 2.268 | 1.985 | 4.547 | 4.091 | 1.931 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.740 | 2.810 | 2.151 | 1.903 | 1.620 | 4.182 | 3.726 | 1.566 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.299 | 3.345 | 2.709 | 2.442 | 2.187 | 4.716 | 4.262 | 2.134 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.097 | 3.143 | 2.506 | 2.239 | 1.984 | 4.513 | 4.059 | 1.931 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.793 | 2.839 | 2.202 | 1.936 | 1.681 | 4.209 | 3.755 | 1.627 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.489 | 2.535 | 1.899 | 1.632 | 1.377 | 3.905 | 3.452 | 1.323 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.713 | 3.783 | 3.125 | 2.876 | 2.593 | 5.155 | 4.700 | 2.540 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 2.694 | 1.619 | 1.154 | 0.838 | 0.665 | 2.959 | 2.505 | 0.626 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.728 | 3.799 | 3.140 | 2.892 | 2.608 | 5.170 | 4.714 | 2.555 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.484 | 3.555 | 2.897 | 2.648 | 2.365 | 4.927 | 4.471 | 2.311 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.119 | 3.190 | 2.532 | 2.283 | 2.000 | 4.562 | 4.106 | 1.946 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.754 | 2.825 | 2.167 | 1.918 | 1.635 | 4.197 | 3.741 | 1.581 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.314 | 3.360 | 2.724 | 2.458 | 2.203 | 4.730 | 4.276 | 2.149 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.112 | 3.157 | 2.521 | 2.256 | 2.000 | 4.528 | 4.074 | 1.947 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.808 | 2.853 | 2.217 | 1.952 | 1.696 | 4.224 | 3.770 | 1.643 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.504 | 2.550 | 1.913 | 1.648 | 1.393 | 3.920 | 3.466 | 1.339 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 4.728 | 3.799 | 3.140 | 2.892 | 2.608 | 5.170 | 4.714 | 2.555 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.687 | 1.612 | 1.148 | 0.831 | 0.658 | 2.953 | 2.498 | 0.619 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.721 | 3.792 | 3.134 | 2.885 | 2.602 | 5.164 | 4.708 | 2.548 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.478 | 3.548 | 2.890 | 2.642 | 2.358 | 4.920 | 4.464 | 2.305 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.113 | 3.183 | 2.525 | 2.277 | 1.993 | 4.555 | 4.099 | 1.940 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.748 | 2.818 | 2.160 | 1.912 | 1.628 | 4.190 | 3.734 | 1.575 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.307 | 3.353 | 2.717 | 2.452 | 2.196 | 4.723 | 4.269 | 2.143 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.105 | 3.151 | 2.514 | 2.249 | 1.994 | 4.521 | 4.067 | 1.940 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.801 | 2.847 | 2.211 | 1.945 | 1.690 | 4.217 | 3.763 | 1.636 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.497 | 2.543 | 1.907 | 1.641 | 1.386 | 3.913 | 3.459 | 1.332 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.721 | 3.792 | 3.134 | 2.885 | 2.602 | 5.164 | 4.708 | 2.548 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 2.677 | 1.602 | 1.138 | 0.821 | 0.648 | 2.942 | 2.488 | 0.609 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.711 | 3.782 | 3.124 | 2.875 | 2.592 | 5.153 | 4.697 | 2.538 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.468 | 3.538 | 2.880 | 2.632 | 2.348 | 4.910 | 4.454 | 2.295 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.102 | 3.173 | 2.515 | 2.267 | 1.983 | 4.545 | 4.089 | 1.930 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.737 | 2.808 | 2.150 | 1.901 | 1.618 | 4.180 | 3.724 | 1.564 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.297 | 3.343 | 2.707 | 2.442 | 2.186 | 4.713 | 4.259 | 2.133 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.095 | 3.140 | 2.504 | 2.239 | 1.983 | 4.511 | 4.057 | 1.930 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.791 | 2.837 | 2.200 | 1.935 | 1.680 | 4.207 | 3.753 | 1.626 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.487 | 2.533 | 1.897 | 1.631 | 1.376 | 3.903 | 3.449 | 1.322 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 4.711 | 3.782 | 3.124 | 2.875 | 2.592 | 5.153 | 4.697 | 2.538 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.667 | 1.592 | 1.127 | 0.811 | 0.638 | 2.932 | 2.478 | 0.599 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.701 | 3.772 | 3.113 | 2.865 | 2.581 | 5.143 | 4.687 | 2.528 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.457 | 3.528 | 2.870 | 2.622 | 2.338 | 4.900 | 4.444 | 2.284 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.092 | 3.163 | 2.505 | 2.256 | 1.973 | 4.535 | 4.079 | 1.919 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.727 | 2.798 | 2.140 | 1.891 | 1.608 | 4.170 | 3.714 | 1.554 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.287 | 3.333 | 2.697 | 2.431 | 2.176 | 4.703 | 4.249 | 2.122 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.085 | 3.130 | 2.494 | 2.229 | 1.973 | 4.501 | 4.047 | 1.920 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.781 | 2.826 | 2.190 | 1.925 | 1.669 | 4.197 | 3.743 | 1.616 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.477 | 2.523 | 1.886 | 1.621 | 1.366 | 3.893 | 3.439 | 1.312 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.701 | 3.772 | 3.113 | 2.865 | 2.581 | 5.143 | 4.687 | 2.528 |

Table 3.2.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 3 – heat pump heating – Northern Territory

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 1.560 | 1.424 | 0.786 | 0.765 | 0.513 | 1.287 | 1.165 | 0.479 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 2.392 | 2.269 | 1.619 | 1.604 | 1.352 | 2.131 | 2.008 | 1.319 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 2.297 | 2.174 | 1.525 | 1.509 | 1.257 | 2.037 | 1.913 | 1.224 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.155 | 2.032 | 1.382 | 1.367 | 1.115 | 1.895 | 1.771 | 1.082 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.013 | 1.890 | 1.240 | 1.225 | 0.973 | 1.753 | 1.629 | 0.940 |
| Heat pump - Ducted < 3 Stars (< 2.25) | HP - Non-ducted < 2.25 stars (< 3) | 2.229 | 2.104 | 1.457 | 1.440 | 1.189 | 1.967 | 1.843 | 1.156 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.149 | 2.024 | 1.377 | 1.360 | 1.109 | 1.886 | 1.763 | 1.075 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.028 | 1.903 | 1.256 | 1.239 | 0.988 | 1.766 | 1.642 | 0.955 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 1.908 | 1.783 | 1.135 | 1.119 | 0.867 | 1.645 | 1.522 | 0.834 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 2.392 | 2.269 | 1.619 | 1.604 | 1.352 | 2.131 | 2.008 | 1.319 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 1.556 | 1.421 | 0.783 | 0.762 | 0.510 | 1.283 | 1.161 | 0.476 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 2.388 | 2.265 | 1.616 | 1.600 | 1.348 | 2.128 | 2.004 | 1.315 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 2.294 | 2.171 | 1.521 | 1.505 | 1.254 | 2.033 | 1.909 | 1.221 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.152 | 2.029 | 1.379 | 1.363 | 1.112 | 1.891 | 1.767 | 1.078 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.009 | 1.886 | 1.237 | 1.221 | 0.970 | 1.749 | 1.625 | 0.936 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.226 | 2.101 | 1.453 | 1.437 | 1.185 | 1.963 | 1.840 | 1.152 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.145 | 2.020 | 1.373 | 1.356 | 1.105 | 1.883 | 1.759 | 1.072 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.025 | 1.900 | 1.252 | 1.236 | 0.984 | 1.762 | 1.639 | 0.951 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.904 | 1.779 | 1.132 | 1.115 | 0.864 | 1.641 | 1.518 | 0.830 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 2.388 | 2.265 | 1.616 | 1.600 | 1.348 | 2.128 | 2.004 | 1.315 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 1.551 | 1.415 | 0.777 | 0.756 | 0.504 | 1.278 | 1.156 | 0.470 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.383 | 2.260 | 1.610 | 1.594 | 1.343 | 2.122 | 1.998 | 1.310 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.288 | 2.165 | 1.515 | 1.500 | 1.248 | 2.027 | 1.904 | 1.215 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.146 | 2.023 | 1.373 | 1.357 | 1.106 | 1.885 | 1.762 | 1.073 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.004 | 1.881 | 1.231 | 1.215 | 0.964 | 1.743 | 1.619 | 0.931 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.220 | 2.095 | 1.448 | 1.431 | 1.180 | 1.958 | 1.834 | 1.147 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.140 | 2.015 | 1.367 | 1.351 | 1.099 | 1.877 | 1.754 | 1.066 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.019 | 1.894 | 1.247 | 1.230 | 0.979 | 1.756 | 1.633 | 0.945 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.898 | 1.773 | 1.126 | 1.109 | 0.858 | 1.636 | 1.512 | 0.825 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 2.383 | 2.260 | 1.610 | 1.594 | 1.343 | 2.122 | 1.998 | 1.310 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 1.545 | 1.409 | 0.771 | 0.750 | 0.498 | 1.272 | 1.150 | 0.464 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.377 | 2.254 | 1.604 | 1.589 | 1.337 | 2.116 | 1.993 | 1.304 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.282 | 2.159 | 1.510 | 1.494 | 1.243 | 2.022 | 1.898 | 1.209 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.140 | 2.017 | 1.368 | 1.352 | 1.100 | 1.880 | 1.756 | 1.067 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 1.998 | 1.875 | 1.225 | 1.210 | 0.958 | 1.738 | 1.614 | 0.925 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.214 | 2.089 | 1.442 | 1.425 | 1.174 | 1.952 | 1.828 | 1.141 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.134 | 2.009 | 1.362 | 1.345 | 1.094 | 1.871 | 1.748 | 1.060 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.013 | 1.888 | 1.241 | 1.224 | 0.973 | 1.751 | 1.627 | 0.940 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.893 | 1.768 | 1.120 | 1.104 | 0.852 | 1.630 | 1.507 | 0.819 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.377 | 2.254 | 1.604 | 1.589 | 1.337 | 2.116 | 1.993 | 1.304 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 1.554 | 1.418 | 0.780 | 0.759 | 0.507 | 1.281 | 1.159 | 0.473 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 2.386 | 2.263 | 1.613 | 1.597 | 1.346 | 2.125 | 2.001 | 1.313 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 2.291 | 2.168 | 1.518 | 1.502 | 1.251 | 2.030 | 1.907 | 1.218 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.149 | 2.026 | 1.376 | 1.360 | 1.109 | 1.888 | 1.765 | 1.076 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.007 | 1.884 | 1.234 | 1.218 | 0.967 | 1.746 | 1.622 | 0.934 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.223 | 2.098 | 1.451 | 1.434 | 1.183 | 1.961 | 1.837 | 1.149 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.143 | 2.018 | 1.370 | 1.353 | 1.102 | 1.880 | 1.757 | 1.069 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.022 | 1.897 | 1.249 | 1.233 | 0.982 | 1.759 | 1.636 | 0.948 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.901 | 1.776 | 1.129 | 1.112 | 0.861 | 1.639 | 1.515 | 0.828 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 2.386 | 2.263 | 1.613 | 1.597 | 1.346 | 2.125 | 2.001 | 1.313 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 1.550 | 1.415 | 0.777 | 0.756 | 0.504 | 1.278 | 1.156 | 0.470 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 2.383 | 2.260 | 1.610 | 1.594 | 1.343 | 2.122 | 1.998 | 1.309 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 2.288 | 2.165 | 1.515 | 1.499 | 1.248 | 2.027 | 1.903 | 1.215 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.146 | 2.023 | 1.373 | 1.357 | 1.106 | 1.885 | 1.761 | 1.073 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.004 | 1.881 | 1.231 | 1.215 | 0.964 | 1.743 | 1.619 | 0.931 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.220 | 2.095 | 1.447 | 1.431 | 1.180 | 1.957 | 1.834 | 1.146 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.139 | 2.014 | 1.367 | 1.350 | 1.099 | 1.877 | 1.753 | 1.066 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.019 | 1.894 | 1.246 | 1.230 | 0.978 | 1.756 | 1.633 | 0.945 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.898 | 1.773 | 1.126 | 1.109 | 0.858 | 1.636 | 1.512 | 0.825 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 2.383 | 2.260 | 1.610 | 1.594 | 1.343 | 2.122 | 1.998 | 1.309 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 1.546 | 1.410 | 0.772 | 0.751 | 0.499 | 1.273 | 1.151 | 0.465 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.378 | 2.255 | 1.605 | 1.589 | 1.338 | 2.117 | 1.993 | 1.305 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.283 | 2.160 | 1.510 | 1.494 | 1.243 | 2.022 | 1.899 | 1.210 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.141 | 2.018 | 1.368 | 1.352 | 1.101 | 1.880 | 1.757 | 1.068 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 1.999 | 1.876 | 1.226 | 1.210 | 0.959 | 1.738 | 1.615 | 0.926 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.215 | 2.090 | 1.443 | 1.426 | 1.175 | 1.953 | 1.829 | 1.141 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.135 | 2.010 | 1.362 | 1.346 | 1.094 | 1.872 | 1.749 | 1.061 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.014 | 1.889 | 1.242 | 1.225 | 0.974 | 1.752 | 1.628 | 0.940 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.893 | 1.768 | 1.121 | 1.104 | 0.853 | 1.631 | 1.507 | 0.820 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 2.378 | 2.255 | 1.605 | 1.589 | 1.338 | 2.117 | 1.993 | 1.305 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 1.541 | 1.405 | 0.767 | 0.746 | 0.494 | 1.268 | 1.146 | 0.460 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.373 | 2.250 | 1.600 | 1.584 | 1.333 | 2.112 | 1.989 | 1.300 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.278 | 2.155 | 1.505 | 1.490 | 1.238 | 2.018 | 1.894 | 1.205 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.136 | 2.013 | 1.363 | 1.348 | 1.096 | 1.876 | 1.752 | 1.063 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 1.994 | 1.871 | 1.221 | 1.206 | 0.954 | 1.733 | 1.610 | 0.921 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.210 | 2.085 | 1.438 | 1.421 | 1.170 | 1.948 | 1.824 | 1.137 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.130 | 2.005 | 1.357 | 1.341 | 1.090 | 1.867 | 1.744 | 1.056 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 2.009 | 1.884 | 1.237 | 1.220 | 0.969 | 1.747 | 1.623 | 0.936 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 1.889 | 1.764 | 1.116 | 1.100 | 0.848 | 1.626 | 1.503 | 0.815 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.373 | 2.250 | 1.600 | 1.584 | 1.333 | 2.112 | 1.989 | 1.300 |

Table 3.3.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 3 – other heating – Queensland

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 2.285 | 1.902 | 1.129 | 1.021 | 0.727 | 3.066 | 2.641 | 0.690 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 4.090 | 3.789 | 2.935 | 2.873 | 2.548 | 4.945 | 4.527 | 2.520 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 3.928 | 3.627 | 2.773 | 2.711 | 2.386 | 4.783 | 4.365 | 2.357 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 3.684 | 3.383 | 2.529 | 2.468 | 2.143 | 4.539 | 4.122 | 2.114 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.441 | 3.140 | 2.286 | 2.224 | 1.899 | 4.296 | 3.878 | 1.870 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.747 | 3.435 | 2.591 | 2.521 | 2.196 | 4.592 | 4.173 | 2.168 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 3.611 | 3.298 | 2.454 | 2.385 | 2.060 | 4.456 | 4.037 | 2.032 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.407 | 3.094 | 2.250 | 2.181 | 1.856 | 4.252 | 3.833 | 1.827 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.203 | 2.890 | 2.046 | 1.977 | 1.652 | 4.047 | 3.628 | 1.623 |
| Electric - Resistance (Panel) | Other or none specified | 4.090 | 3.789 | 2.935 | 2.873 | 2.548 | 4.945 | 4.527 | 2.520 |
| Wood Heater | Evaporative | 2.176 | 1.794 | 1.029 | 0.915 | 0.641 | 2.964 | 2.535 | 0.616 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 3.985 | 3.696 | 2.834 | 2.777 | 2.447 | 4.859 | 4.438 | 2.419 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 3.823 | 3.534 | 2.672 | 2.614 | 2.284 | 4.697 | 4.276 | 2.257 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 3.580 | 3.291 | 2.429 | 2.371 | 2.041 | 4.454 | 4.032 | 2.013 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.336 | 3.047 | 2.185 | 2.127 | 1.797 | 4.210 | 3.789 | 1.770 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.640 | 3.339 | 2.487 | 2.420 | 2.097 | 4.503 | 4.081 | 2.070 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.504 | 3.203 | 2.351 | 2.284 | 1.961 | 4.367 | 3.945 | 1.934 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.300 | 2.999 | 2.146 | 2.080 | 1.757 | 4.163 | 3.741 | 1.730 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.096 | 2.795 | 1.942 | 1.876 | 1.553 | 3.959 | 3.537 | 1.525 |
| Wood Heater | Other or none specified | 3.985 | 3.696 | 2.834 | 2.777 | 2.447 | 4.859 | 4.438 | 2.419 |
| Electric - Resistance (Slab) | Evaporative | 2.296 | 1.924 | 1.138 | 1.032 | 0.735 | 3.104 | 2.672 | 0.698 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 4.110 | 3.830 | 2.957 | 2.903 | 2.571 | 4.996 | 4.574 | 2.544 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 3.947 | 3.667 | 2.794 | 2.740 | 2.409 | 4.833 | 4.412 | 2.382 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 3.704 | 3.424 | 2.551 | 2.497 | 2.165 | 4.590 | 4.168 | 2.138 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.461 | 3.180 | 2.308 | 2.254 | 1.922 | 4.346 | 3.925 | 1.895 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.765 | 3.472 | 2.610 | 2.548 | 2.215 | 4.641 | 4.217 | 2.188 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.629 | 3.335 | 2.474 | 2.411 | 2.079 | 4.505 | 4.081 | 2.052 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.425 | 3.131 | 2.269 | 2.207 | 1.875 | 4.300 | 3.876 | 1.848 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.221 | 2.927 | 2.065 | 2.003 | 1.670 | 4.096 | 3.672 | 1.643 |
| Electric - Resistance (Slab) | Other or none specified | 4.110 | 3.830 | 2.957 | 2.903 | 2.571 | 4.996 | 4.574 | 2.544 |
| Other or none specified | Evaporative | 2.134 | 1.743 | 0.991 | 0.873 | 0.616 | 2.904 | 2.478 | 0.590 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.517 | 3.198 | 2.358 | 2.284 | 1.974 | 4.355 | 3.936 | 1.945 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.354 | 3.036 | 2.195 | 2.122 | 1.812 | 4.192 | 3.773 | 1.783 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 3.111 | 2.792 | 1.952 | 1.878 | 1.569 | 3.949 | 3.530 | 1.539 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.868 | 2.549 | 1.709 | 1.635 | 1.325 | 3.706 | 3.287 | 1.296 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.242 | 2.908 | 2.082 | 2.005 | 1.693 | 4.068 | 3.645 | 1.661 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.106 | 2.772 | 1.946 | 1.869 | 1.557 | 3.932 | 3.509 | 1.525 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.902 | 2.568 | 1.742 | 1.664 | 1.352 | 3.727 | 3.305 | 1.321 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.698 | 2.363 | 1.538 | 1.460 | 1.148 | 3.523 | 3.101 | 1.117 |
| Other or none specified | Other or none specified | 3.517 | 3.198 | 2.358 | 2.284 | 1.974 | 4.355 | 3.936 | 1.945 |

Table 3.3.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 3 – other heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 2.940 | 1.883 | 1.356 | 1.064 | 0.849 | 3.242 | 2.787 | 0.785 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 5.625 | 4.714 | 4.034 | 3.794 | 3.502 | 6.091 | 5.640 | 3.450 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 5.381 | 4.470 | 3.790 | 3.551 | 3.259 | 5.848 | 5.396 | 3.207 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 5.016 | 4.105 | 3.425 | 3.186 | 2.893 | 5.483 | 5.031 | 2.842 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.651 | 3.740 | 3.060 | 2.821 | 2.528 | 5.118 | 4.666 | 2.477 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 5.104 | 4.179 | 3.511 | 3.258 | 2.978 | 5.555 | 5.102 | 2.925 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 4.901 | 3.976 | 3.309 | 3.055 | 2.775 | 5.352 | 4.899 | 2.723 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.598 | 3.672 | 3.005 | 2.751 | 2.471 | 5.048 | 4.595 | 2.419 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.294 | 3.368 | 2.701 | 2.447 | 2.167 | 4.745 | 4.292 | 2.115 |
| Electric - Resistance (Panel) | Other or none specified | 5.625 | 4.714 | 4.034 | 3.794 | 3.502 | 6.091 | 5.640 | 3.450 |
| Wood Heater | Evaporative | 2.745 | 1.683 | 1.194 | 0.884 | 0.693 | 3.045 | 2.583 | 0.648 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 5.437 | 4.552 | 3.855 | 3.624 | 3.320 | 5.938 | 5.481 | 3.273 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 5.194 | 4.309 | 3.611 | 3.381 | 3.077 | 5.695 | 5.237 | 3.029 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 4.829 | 3.944 | 3.246 | 3.016 | 2.712 | 5.330 | 4.872 | 2.664 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.464 | 3.579 | 2.881 | 2.651 | 2.347 | 4.965 | 4.507 | 2.299 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.915 | 4.006 | 3.324 | 3.084 | 2.796 | 5.394 | 4.937 | 2.745 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.713 | 3.804 | 3.121 | 2.881 | 2.594 | 5.191 | 4.734 | 2.543 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.409 | 3.500 | 2.817 | 2.577 | 2.290 | 4.887 | 4.430 | 2.239 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.105 | 3.196 | 2.513 | 2.273 | 1.986 | 4.583 | 4.126 | 1.935 |
| Wood Heater | Other or none specified | 5.437 | 4.552 | 3.855 | 3.624 | 3.320 | 5.938 | 5.481 | 3.273 |
| Electric - Resistance (Slab) | Evaporative | 2.821 | 1.769 | 1.255 | 0.955 | 0.741 | 3.144 | 2.680 | 0.696 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 5.525 | 4.643 | 3.939 | 3.712 | 3.407 | 6.035 | 5.577 | 3.359 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 5.282 | 4.400 | 3.696 | 3.469 | 3.164 | 5.792 | 5.334 | 3.116 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 4.917 | 4.035 | 3.331 | 3.104 | 2.798 | 5.427 | 4.969 | 2.751 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.552 | 3.670 | 2.965 | 2.739 | 2.433 | 5.062 | 4.604 | 2.386 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.001 | 4.099 | 3.409 | 3.168 | 2.878 | 5.492 | 5.033 | 2.829 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.799 | 3.897 | 3.206 | 2.965 | 2.676 | 5.290 | 4.830 | 2.626 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.495 | 3.593 | 2.903 | 2.661 | 2.372 | 4.986 | 4.527 | 2.322 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.191 | 3.289 | 2.599 | 2.358 | 2.068 | 4.682 | 4.223 | 2.018 |
| Electric - Resistance (Slab) | Other or none specified | 5.525 | 4.643 | 3.939 | 3.712 | 3.407 | 6.035 | 5.577 | 3.359 |
| Other or none specified | Evaporative | 2.711 | 1.637 | 1.169 | 0.854 | 0.676 | 2.978 | 2.523 | 0.635 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 4.745 | 3.816 | 3.157 | 2.909 | 2.626 | 5.187 | 4.732 | 2.572 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 4.502 | 3.572 | 2.913 | 2.665 | 2.382 | 4.944 | 4.489 | 2.328 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 4.137 | 3.207 | 2.548 | 2.300 | 2.017 | 4.579 | 4.124 | 1.963 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.772 | 2.842 | 2.183 | 1.935 | 1.652 | 4.214 | 3.759 | 1.598 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.332 | 3.377 | 2.741 | 2.474 | 2.219 | 4.748 | 4.294 | 2.166 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.129 | 3.175 | 2.538 | 2.272 | 2.017 | 4.545 | 4.091 | 1.963 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.825 | 2.871 | 2.235 | 1.968 | 1.713 | 4.242 | 3.788 | 1.659 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.521 | 2.567 | 1.931 | 1.664 | 1.409 | 3.938 | 3.484 | 1.355 |
| Other or none specified | Other or none specified | 4.745 | 3.816 | 3.157 | 2.909 | 2.626 | 5.187 | 4.732 | 2.572 |

Table 3.3.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 3 – other heating – Northern Territory

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 1.640 | 1.507 | 0.867 | 0.847 | 0.597 | 1.369 | 1.247 | 0.563 |
| Electric – Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 2.721 | 2.601 | 1.950 | 1.935 | 1.682 | 2.464 | 2.340 | 1.649 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 2.626 | 2.507 | 1.855 | 1.841 | 1.587 | 2.369 | 2.245 | 1.554 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 2.484 | 2.365 | 1.713 | 1.699 | 1.445 | 2.227 | 2.103 | 1.412 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.342 | 2.223 | 1.571 | 1.557 | 1.303 | 2.085 | 1.961 | 1.270 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.521 | 2.399 | 1.749 | 1.734 | 1.482 | 2.261 | 2.138 | 1.449 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 2.441 | 2.319 | 1.669 | 1.653 | 1.401 | 2.181 | 2.057 | 1.368 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.320 | 2.198 | 1.548 | 1.533 | 1.281 | 2.060 | 1.937 | 1.248 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.199 | 2.077 | 1.427 | 1.412 | 1.160 | 1.940 | 1.816 | 1.127 |
| Electric - Resistance (Panel) | Other or none specified | 2.721 | 2.601 | 1.950 | 1.935 | 1.682 | 2.464 | 2.340 | 1.649 |
| Wood Heater | Evaporative | 1.574 | 1.440 | 0.801 | 0.780 | 0.528 | 1.303 | 1.180 | 0.494 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 2.654 | 2.537 | 1.883 | 1.869 | 1.615 | 2.399 | 2.274 | 1.582 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 2.560 | 2.442 | 1.788 | 1.775 | 1.520 | 2.304 | 2.180 | 1.488 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 2.418 | 2.300 | 1.646 | 1.633 | 1.378 | 2.162 | 2.038 | 1.346 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.276 | 2.158 | 1.504 | 1.490 | 1.236 | 2.020 | 1.896 | 1.204 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.454 | 2.334 | 1.682 | 1.667 | 1.415 | 2.196 | 2.072 | 1.382 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.374 | 2.254 | 1.602 | 1.587 | 1.335 | 2.116 | 1.992 | 1.302 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.253 | 2.133 | 1.481 | 1.466 | 1.214 | 1.995 | 1.871 | 1.181 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.133 | 2.012 | 1.360 | 1.346 | 1.093 | 1.874 | 1.751 | 1.060 |
| Wood Heater | Other or none specified | 2.654 | 2.537 | 1.883 | 1.869 | 1.615 | 2.399 | 2.274 | 1.582 |
| Electric - Resistance (Slab) | Evaporative | 1.699 | 1.569 | 0.927 | 0.907 | 0.658 | 1.430 | 1.307 | 0.624 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 2.781 | 2.666 | 2.011 | 1.998 | 1.744 | 2.528 | 2.403 | 1.711 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 2.687 | 2.571 | 1.916 | 1.904 | 1.649 | 2.433 | 2.309 | 1.617 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 2.544 | 2.429 | 1.774 | 1.762 | 1.507 | 2.291 | 2.166 | 1.474 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.402 | 2.287 | 1.632 | 1.619 | 1.365 | 2.149 | 2.024 | 1.332 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.581 | 2.463 | 1.810 | 1.796 | 1.543 | 2.325 | 2.201 | 1.510 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.501 | 2.383 | 1.730 | 1.716 | 1.462 | 2.244 | 2.120 | 1.430 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.380 | 2.262 | 1.609 | 1.595 | 1.342 | 2.124 | 2.000 | 1.309 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.259 | 2.141 | 1.488 | 1.474 | 1.221 | 2.003 | 1.879 | 1.188 |
| Electric - Resistance (Slab) | Other or none specified | 2.781 | 2.666 | 2.011 | 1.998 | 1.744 | 2.528 | 2.403 | 1.711 |
| Other or none specified | Evaporative | 1.560 | 1.424 | 0.786 | 0.765 | 0.513 | 1.287 | 1.165 | 0.479 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 2.392 | 2.269 | 1.619 | 1.604 | 1.352 | 2.131 | 2.008 | 1.319 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 2.297 | 2.174 | 1.525 | 1.509 | 1.257 | 2.037 | 1.913 | 1.224 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 2.155 | 2.032 | 1.382 | 1.367 | 1.115 | 1.895 | 1.771 | 1.082 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.013 | 1.890 | 1.240 | 1.225 | 0.973 | 1.753 | 1.629 | 0.940 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.229 | 2.104 | 1.457 | 1.440 | 1.189 | 1.967 | 1.843 | 1.156 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.149 | 2.024 | 1.377 | 1.360 | 1.109 | 1.886 | 1.763 | 1.075 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.028 | 1.903 | 1.256 | 1.239 | 0.988 | 1.766 | 1.642 | 0.955 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 1.908 | 1.783 | 1.135 | 1.119 | 0.867 | 1.645 | 1.522 | 0.834 |
| Other or none specified | Other or none specified | 2.392 | 2.269 | 1.619 | 1.604 | 1.352 | 2.131 | 2.008 | 1.319 |

2.4.4 Climate zone 4

Table 4.1.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – gas heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 3.925 | 2.941 | 2.236 | 1.955 | 2.094 | 3.757 | 3.322 | 1.750 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.495 | 3.542 | 2.829 | 2.560 | 2.685 | 4.330 | 3.911 | 2.347 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.430 | 3.476 | 2.764 | 2.494 | 2.619 | 4.265 | 3.846 | 2.282 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.331 | 3.378 | 2.666 | 2.396 | 2.521 | 4.166 | 3.747 | 2.184 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.233 | 3.280 | 2.568 | 2.298 | 2.423 | 4.068 | 3.649 | 2.086 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 4.377 | 3.420 | 2.712 | 2.436 | 2.565 | 4.210 | 3.789 | 2.225 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.323 | 3.366 | 2.657 | 2.381 | 2.511 | 4.155 | 3.735 | 2.170 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.241 | 3.284 | 2.576 | 2.299 | 2.429 | 4.073 | 3.653 | 2.089 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.159 | 3.202 | 2.494 | 2.218 | 2.347 | 3.992 | 3.571 | 2.007 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Other or none specified | 4.495 | 3.542 | 2.829 | 2.560 | 2.685 | 4.330 | 3.911 | 2.347 |
| Gas – ducted < 4.5 Stars | Evaporative | 3.777 | 2.792 | 2.087 | 1.807 | 1.946 | 3.608 | 3.173 | 1.602 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.347 | 3.393 | 2.681 | 2.411 | 2.536 | 4.182 | 3.763 | 2.199 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.281 | 3.328 | 2.616 | 2.346 | 2.471 | 4.116 | 3.697 | 2.133 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.183 | 3.230 | 2.517 | 2.248 | 2.372 | 4.018 | 3.599 | 2.035 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.085 | 3.131 | 2.419 | 2.149 | 2.274 | 3.920 | 3.501 | 1.937 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.229 | 3.272 | 2.563 | 2.287 | 2.417 | 4.061 | 3.640 | 2.076 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.174 | 3.217 | 2.509 | 2.233 | 2.362 | 4.007 | 3.586 | 2.022 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.092 | 3.135 | 2.427 | 2.151 | 2.280 | 3.925 | 3.504 | 1.940 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.011 | 3.054 | 2.346 | 2.069 | 2.199 | 3.843 | 3.423 | 1.858 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Other or none specified | 4.347 | 3.393 | 2.681 | 2.411 | 2.536 | 4.182 | 3.763 | 2.199 |
| Gas – ducted < 6 Stars | Evaporative | 3.554 | 2.569 | 1.865 | 1.584 | 1.723 | 3.385 | 2.950 | 1.379 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.124 | 3.170 | 2.458 | 2.189 | 2.313 | 3.959 | 3.540 | 1.976 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.058 | 3.105 | 2.393 | 2.123 | 2.248 | 3.893 | 3.474 | 1.911 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.960 | 3.007 | 2.295 | 2.025 | 2.150 | 3.795 | 3.376 | 1.812 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.862 | 2.909 | 2.196 | 1.927 | 2.051 | 3.697 | 3.278 | 1.714 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.006 | 3.049 | 2.341 | 2.064 | 2.194 | 3.838 | 3.418 | 1.854 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.951 | 2.994 | 2.286 | 2.010 | 2.139 | 3.784 | 3.363 | 1.799 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.870 | 2.913 | 2.204 | 1.928 | 2.058 | 3.702 | 3.282 | 1.717 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.788 | 2.831 | 2.123 | 1.846 | 1.976 | 3.620 | 3.200 | 1.636 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Other or none specified | 4.124 | 3.170 | 2.458 | 2.189 | 2.313 | 3.959 | 3.540 | 1.976 |
| Gas – ducted ≥ 6 Stars | Evaporative | 3.331 | 2.347 | 1.642 | 1.361 | 1.500 | 3.163 | 2.728 | 1.156 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.901 | 2.948 | 2.235 | 1.966 | 2.091 | 3.736 | 3.317 | 1.753 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.836 | 2.882 | 2.170 | 1.900 | 2.025 | 3.671 | 3.252 | 1.688 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.737 | 2.784 | 2.072 | 1.802 | 1.927 | 3.572 | 3.153 | 1.590 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.639 | 2.686 | 1.974 | 1.704 | 1.829 | 3.474 | 3.055 | 1.492 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.783 | 2.826 | 2.118 | 1.842 | 1.971 | 3.616 | 3.195 | 1.631 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.729 | 2.772 | 2.063 | 1.787 | 1.917 | 3.561 | 3.141 | 1.576 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.647 | 2.690 | 1.982 | 1.705 | 1.835 | 3.479 | 3.059 | 1.495 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.565 | 2.608 | 1.900 | 1.624 | 1.753 | 3.398 | 2.977 | 1.413 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Other or none specified | 3.901 | 2.948 | 2.235 | 1.966 | 2.091 | 3.736 | 3.317 | 1.753 |
| Gas - non ducted < 3 Stars | Evaporative | 3.542 | 2.542 | 1.880 | 1.579 | 1.732 | 3.342 | 2.913 | 1.385 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.116 | 3.147 | 2.461 | 2.180 | 2.311 | 3.929 | 3.512 | 1.985 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.051 | 3.082 | 2.395 | 2.115 | 2.246 | 3.864 | 3.447 | 1.919 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.953 | 2.983 | 2.297 | 2.016 | 2.147 | 3.766 | 3.348 | 1.821 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.854 | 2.885 | 2.199 | 1.918 | 2.049 | 3.667 | 3.250 | 1.723 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.001 | 3.024 | 2.340 | 2.060 | 2.190 | 3.807 | 3.391 | 1.863 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.947 | 2.970 | 2.286 | 2.006 | 2.136 | 3.753 | 3.336 | 1.809 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.865 | 2.888 | 2.204 | 1.924 | 2.054 | 3.671 | 3.255 | 1.727 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.783 | 2.806 | 2.122 | 1.843 | 1.973 | 3.590 | 3.173 | 1.646 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Other or none specified | 4.116 | 3.147 | 2.461 | 2.180 | 2.311 | 3.929 | 3.512 | 1.985 |
| Gas - non ducted < 4.5 Stars | Evaporative | 3.467 | 2.467 | 1.805 | 1.504 | 1.657 | 3.267 | 2.837 | 1.309 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.041 | 3.072 | 2.386 | 2.105 | 2.236 | 3.854 | 3.437 | 1.909 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.975 | 3.006 | 2.320 | 2.039 | 2.170 | 3.789 | 3.371 | 1.844 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.877 | 2.908 | 2.222 | 1.941 | 2.072 | 3.690 | 3.273 | 1.746 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.779 | 2.810 | 2.124 | 1.843 | 1.974 | 3.592 | 3.175 | 1.648 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.926 | 2.949 | 2.265 | 1.985 | 2.115 | 3.732 | 3.315 | 1.788 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.871 | 2.894 | 2.210 | 1.931 | 2.061 | 3.678 | 3.261 | 1.734 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.790 | 2.813 | 2.129 | 1.849 | 1.979 | 3.596 | 3.179 | 1.652 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.708 | 2.731 | 2.047 | 1.767 | 1.897 | 3.514 | 3.098 | 1.570 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 4.041 | 3.072 | 2.386 | 2.105 | 2.236 | 3.854 | 3.437 | 1.909 |
| Gas - non ducted < 6 Stars | Evaporative | 3.354 | 2.354 | 1.692 | 1.391 | 1.544 | 3.154 | 2.724 | 1.197 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.928 | 2.959 | 2.273 | 1.992 | 2.123 | 3.741 | 3.324 | 1.797 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.863 | 2.893 | 2.207 | 1.926 | 2.057 | 3.676 | 3.258 | 1.731 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.764 | 2.795 | 2.109 | 1.828 | 1.959 | 3.577 | 3.160 | 1.633 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.666 | 2.697 | 2.011 | 1.730 | 1.861 | 3.479 | 3.062 | 1.535 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.813 | 2.836 | 2.152 | 1.872 | 2.002 | 3.619 | 3.202 | 1.675 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.759 | 2.781 | 2.097 | 1.818 | 1.948 | 3.565 | 3.148 | 1.621 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.677 | 2.700 | 2.016 | 1.736 | 1.866 | 3.483 | 3.066 | 1.539 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.595 | 2.618 | 1.934 | 1.654 | 1.784 | 3.401 | 2.985 | 1.457 |
| Gas - non ducted < 6 Stars | Other or none specified | 3.928 | 2.959 | 2.273 | 1.992 | 2.123 | 3.741 | 3.324 | 1.797 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 3.241 | 2.241 | 1.579 | 1.278 | 1.431 | 3.041 | 2.612 | 1.084 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.815 | 2.846 | 2.160 | 1.879 | 2.010 | 3.628 | 3.211 | 1.684 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.750 | 2.780 | 2.094 | 1.813 | 1.945 | 3.563 | 3.145 | 1.618 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.651 | 2.682 | 1.996 | 1.715 | 1.846 | 3.464 | 3.047 | 1.520 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.553 | 2.584 | 1.898 | 1.617 | 1.748 | 3.366 | 2.949 | 1.422 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.700 | 2.723 | 2.039 | 1.759 | 1.889 | 3.506 | 3.090 | 1.562 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.646 | 2.668 | 1.984 | 1.705 | 1.835 | 3.452 | 3.035 | 1.508 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.564 | 2.587 | 1.903 | 1.623 | 1.753 | 3.370 | 2.953 | 1.426 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.482 | 2.505 | 1.821 | 1.541 | 1.671 | 3.288 | 2.872 | 1.344 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 3.815 | 2.846 | 2.160 | 1.879 | 2.010 | 3.628 | 3.211 | 1.684 |

Table 4.1.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – gas heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 2.985 | 2.631 | 1.603 | 1.501 | 1.465 | 2.177 | 1.970 | 1.146 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.457 | 3.124 | 2.083 | 2.001 | 1.954 | 2.677 | 2.467 | 1.629 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.402 | 3.070 | 2.029 | 1.947 | 1.900 | 2.622 | 2.413 | 1.575 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.321 | 2.988 | 1.948 | 1.866 | 1.819 | 2.541 | 2.332 | 1.493 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.240 | 2.907 | 1.866 | 1.784 | 1.737 | 2.460 | 2.250 | 1.412 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 3.363 | 3.024 | 1.988 | 1.902 | 1.857 | 2.577 | 2.366 | 1.526 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.318 | 2.979 | 1.943 | 1.856 | 1.812 | 2.532 | 2.321 | 1.481 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.250 | 2.912 | 1.875 | 1.789 | 1.744 | 2.464 | 2.254 | 1.413 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.183 | 2.844 | 1.808 | 1.721 | 1.677 | 2.397 | 2.186 | 1.346 |
| Gas – ducted < 3 Stars | Other or none specified | 3.457 | 3.124 | 2.083 | 2.001 | 1.954 | 2.677 | 2.467 | 1.629 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 2.904 | 2.550 | 1.522 | 1.420 | 1.384 | 2.096 | 1.889 | 1.065 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.376 | 3.043 | 2.002 | 1.920 | 1.873 | 2.596 | 2.386 | 1.548 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.321 | 2.989 | 1.948 | 1.866 | 1.819 | 2.541 | 2.332 | 1.494 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.240 | 2.907 | 1.867 | 1.785 | 1.738 | 2.460 | 2.251 | 1.412 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.159 | 2.826 | 1.785 | 1.703 | 1.656 | 2.379 | 2.169 | 1.331 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.282 | 2.943 | 1.907 | 1.821 | 1.776 | 2.496 | 2.285 | 1.445 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.237 | 2.898 | 1.862 | 1.776 | 1.731 | 2.451 | 2.240 | 1.400 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.169 | 2.831 | 1.794 | 1.708 | 1.663 | 2.383 | 2.173 | 1.333 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.102 | 2.763 | 1.727 | 1.640 | 1.596 | 2.316 | 2.105 | 1.265 |
| Gas – ducted < 4.5 Stars | Other or none specified | 3.376 | 3.043 | 2.002 | 1.920 | 1.873 | 2.596 | 2.386 | 1.548 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 2.783 | 2.429 | 1.401 | 1.299 | 1.263 | 1.975 | 1.768 | 0.944 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.254 | 2.922 | 1.881 | 1.799 | 1.752 | 2.474 | 2.265 | 1.427 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.200 | 2.867 | 1.826 | 1.744 | 1.697 | 2.420 | 2.211 | 1.372 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.119 | 2.786 | 1.745 | 1.663 | 1.616 | 2.339 | 2.129 | 1.291 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.037 | 2.705 | 1.664 | 1.582 | 1.535 | 2.257 | 2.048 | 1.209 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.161 | 2.822 | 1.786 | 1.699 | 1.654 | 2.375 | 2.164 | 1.324 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.116 | 2.777 | 1.741 | 1.654 | 1.609 | 2.329 | 2.119 | 1.279 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.048 | 2.709 | 1.673 | 1.586 | 1.542 | 2.262 | 2.051 | 1.211 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.980 | 2.642 | 1.605 | 1.519 | 1.474 | 2.194 | 1.984 | 1.143 |
| Gas – ducted < 6 Stars | Other or none specified | 3.254 | 2.922 | 1.881 | 1.799 | 1.752 | 2.474 | 2.265 | 1.427 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 2.661 | 2.307 | 1.279 | 1.177 | 1.141 | 1.853 | 1.647 | 0.823 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.133 | 2.800 | 1.759 | 1.677 | 1.630 | 2.353 | 2.143 | 1.305 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.078 | 2.746 | 1.705 | 1.623 | 1.576 | 2.298 | 2.089 | 1.251 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.997 | 2.665 | 1.624 | 1.542 | 1.495 | 2.217 | 2.008 | 1.169 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.916 | 2.583 | 1.542 | 1.460 | 1.413 | 2.136 | 1.926 | 1.088 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.039 | 2.701 | 1.664 | 1.578 | 1.533 | 2.253 | 2.042 | 1.202 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.994 | 2.655 | 1.619 | 1.533 | 1.488 | 2.208 | 1.997 | 1.157 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.927 | 2.588 | 1.552 | 1.465 | 1.420 | 2.140 | 1.930 | 1.090 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.859 | 2.520 | 1.484 | 1.397 | 1.353 | 2.073 | 1.862 | 1.022 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 3.133 | 2.800 | 1.759 | 1.677 | 1.630 | 2.353 | 2.143 | 1.305 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 2.766 | 2.399 | 1.391 | 1.289 | 1.263 | 1.951 | 1.747 | 0.939 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.241 | 2.892 | 1.875 | 1.784 | 1.742 | 2.449 | 2.240 | 1.418 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.186 | 2.838 | 1.821 | 1.730 | 1.688 | 2.395 | 2.186 | 1.363 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.105 | 2.757 | 1.740 | 1.648 | 1.606 | 2.314 | 2.105 | 1.282 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.024 | 2.675 | 1.658 | 1.567 | 1.525 | 2.232 | 2.023 | 1.201 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.146 | 2.793 | 1.778 | 1.683 | 1.643 | 2.349 | 2.139 | 1.324 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.101 | 2.748 | 1.733 | 1.638 | 1.598 | 2.304 | 2.094 | 1.279 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.034 | 2.680 | 1.666 | 1.570 | 1.530 | 2.236 | 2.026 | 1.212 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.966 | 2.613 | 1.598 | 1.502 | 1.463 | 2.168 | 1.959 | 1.144 |
| Gas - non ducted < 3 Stars | Other or none specified | 3.241 | 2.892 | 1.875 | 1.784 | 1.742 | 2.449 | 2.240 | 1.418 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 2.725 | 2.358 | 1.350 | 1.248 | 1.222 | 1.910 | 1.706 | 0.898 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.200 | 2.851 | 1.834 | 1.743 | 1.701 | 2.408 | 2.199 | 1.377 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.145 | 2.797 | 1.780 | 1.689 | 1.647 | 2.354 | 2.145 | 1.322 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.064 | 2.716 | 1.698 | 1.607 | 1.565 | 2.273 | 2.064 | 1.241 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.982 | 2.634 | 1.617 | 1.526 | 1.484 | 2.191 | 1.982 | 1.160 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.105 | 2.752 | 1.737 | 1.642 | 1.602 | 2.307 | 2.098 | 1.283 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.060 | 2.707 | 1.692 | 1.596 | 1.557 | 2.262 | 2.053 | 1.238 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.993 | 2.639 | 1.625 | 1.529 | 1.489 | 2.195 | 1.985 | 1.171 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.925 | 2.572 | 1.557 | 1.461 | 1.422 | 2.127 | 1.917 | 1.103 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 3.200 | 2.851 | 1.834 | 1.743 | 1.701 | 2.408 | 2.199 | 1.377 |
| Gas - non ducted < 6 Stars | Evaporative | 2.664 | 2.296 | 1.288 | 1.186 | 1.160 | 1.849 | 1.644 | 0.836 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.138 | 2.790 | 1.773 | 1.681 | 1.639 | 2.347 | 2.138 | 1.315 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.084 | 2.735 | 1.718 | 1.627 | 1.585 | 2.293 | 2.083 | 1.261 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.002 | 2.654 | 1.637 | 1.546 | 1.504 | 2.211 | 2.002 | 1.179 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.921 | 2.573 | 1.555 | 1.464 | 1.422 | 2.130 | 1.921 | 1.098 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.044 | 2.690 | 1.676 | 1.580 | 1.540 | 2.246 | 2.036 | 1.222 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.998 | 2.645 | 1.631 | 1.535 | 1.495 | 2.201 | 1.991 | 1.176 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.931 | 2.578 | 1.563 | 1.467 | 1.427 | 2.133 | 1.923 | 1.109 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.863 | 2.510 | 1.496 | 1.400 | 1.360 | 2.066 | 1.856 | 1.041 |
| Gas - non ducted < 6 Stars | Other or none specified | 3.138 | 2.790 | 1.773 | 1.681 | 1.639 | 2.347 | 2.138 | 1.315 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 2.602 | 2.234 | 1.227 | 1.125 | 1.098 | 1.787 | 1.582 | 0.775 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.076 | 2.728 | 1.711 | 1.620 | 1.578 | 2.285 | 2.076 | 1.253 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.022 | 2.674 | 1.657 | 1.565 | 1.523 | 2.231 | 2.022 | 1.199 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 2.941 | 2.592 | 1.575 | 1.484 | 1.442 | 2.150 | 1.940 | 1.118 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.859 | 2.511 | 1.494 | 1.403 | 1.361 | 2.068 | 1.859 | 1.036 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.982 | 2.629 | 1.614 | 1.518 | 1.478 | 2.184 | 1.974 | 1.160 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.937 | 2.584 | 1.569 | 1.473 | 1.433 | 2.139 | 1.929 | 1.115 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 2.869 | 2.516 | 1.502 | 1.406 | 1.366 | 2.072 | 1.862 | 1.047 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.802 | 2.449 | 1.434 | 1.338 | 1.298 | 2.004 | 1.794 | 0.980 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 3.076 | 2.728 | 1.711 | 1.620 | 1.578 | 2.285 | 2.076 | 1.253 |

Table 4.1.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – gas heating – South Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 4.096 | 3.314 | 2.297 | 2.072 | 2.147 | 3.880 | 3.420 | 1.776 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.704 | 3.945 | 2.928 | 2.722 | 2.779 | 4.489 | 4.049 | 2.415 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.634 | 3.876 | 2.859 | 2.653 | 2.709 | 4.420 | 3.980 | 2.345 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.530 | 3.772 | 2.754 | 2.549 | 2.605 | 4.315 | 3.876 | 2.241 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.426 | 3.668 | 2.650 | 2.444 | 2.501 | 4.211 | 3.771 | 2.137 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 4.578 | 3.814 | 2.803 | 2.590 | 2.651 | 4.358 | 3.918 | 2.281 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.521 | 3.756 | 2.745 | 2.533 | 2.594 | 4.301 | 3.861 | 2.224 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.434 | 3.670 | 2.659 | 2.446 | 2.507 | 4.214 | 3.774 | 2.137 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.348 | 3.584 | 2.573 | 2.360 | 2.421 | 4.128 | 3.688 | 2.051 |
| Gas – ducted < 3 Stars | Other or none specified | 4.704 | 3.945 | 2.928 | 2.722 | 2.779 | 4.489 | 4.049 | 2.415 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 3.939 | 3.157 | 2.141 | 1.916 | 1.991 | 3.724 | 3.264 | 1.619 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.547 | 3.789 | 2.772 | 2.566 | 2.622 | 4.333 | 3.893 | 2.258 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.478 | 3.720 | 2.702 | 2.497 | 2.553 | 4.263 | 3.823 | 2.189 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.374 | 3.615 | 2.598 | 2.392 | 2.448 | 4.159 | 3.719 | 2.085 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.269 | 3.511 | 2.494 | 2.288 | 2.344 | 4.055 | 3.615 | 1.980 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.422 | 3.658 | 2.646 | 2.434 | 2.495 | 4.202 | 3.762 | 2.125 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.364 | 3.600 | 2.589 | 2.376 | 2.437 | 4.144 | 3.704 | 2.067 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.278 | 3.514 | 2.503 | 2.290 | 2.351 | 4.058 | 3.618 | 1.981 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.191 | 3.427 | 2.416 | 2.204 | 2.265 | 3.972 | 3.532 | 1.894 |
| Gas – ducted < 4.5 Stars | Other or none specified | 4.547 | 3.789 | 2.772 | 2.566 | 2.622 | 4.333 | 3.893 | 2.258 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 3.705 | 2.923 | 1.906 | 1.681 | 1.756 | 3.489 | 3.029 | 1.385 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.313 | 3.555 | 2.537 | 2.331 | 2.388 | 4.098 | 3.658 | 2.024 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.243 | 3.485 | 2.468 | 2.262 | 2.318 | 4.029 | 3.589 | 1.954 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.139 | 3.381 | 2.363 | 2.158 | 2.214 | 3.924 | 3.485 | 1.850 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.035 | 3.277 | 2.259 | 2.054 | 2.110 | 3.820 | 3.380 | 1.746 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.187 | 3.423 | 2.412 | 2.199 | 2.260 | 3.967 | 3.527 | 1.890 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.130 | 3.365 | 2.354 | 2.142 | 2.203 | 3.910 | 3.470 | 1.833 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.043 | 3.279 | 2.268 | 2.055 | 2.117 | 3.823 | 3.383 | 1.746 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.957 | 3.193 | 2.182 | 1.969 | 2.030 | 3.737 | 3.297 | 1.660 |
| Gas – ducted < 6 Stars | Other or none specified | 4.313 | 3.555 | 2.537 | 2.331 | 2.388 | 4.098 | 3.658 | 2.024 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 3.470 | 2.688 | 1.672 | 1.447 | 1.522 | 3.255 | 2.794 | 1.150 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.078 | 3.320 | 2.303 | 2.097 | 2.153 | 3.864 | 3.424 | 1.789 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.009 | 3.250 | 2.233 | 2.027 | 2.084 | 3.794 | 3.354 | 1.720 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.905 | 3.146 | 2.129 | 1.923 | 1.979 | 3.690 | 3.250 | 1.616 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.800 | 3.042 | 2.025 | 1.819 | 1.875 | 3.586 | 3.146 | 1.511 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.953 | 3.188 | 2.177 | 1.965 | 2.026 | 3.733 | 3.293 | 1.656 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.895 | 3.131 | 2.120 | 1.907 | 1.968 | 3.675 | 3.235 | 1.598 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.809 | 3.045 | 2.033 | 1.821 | 1.882 | 3.589 | 3.149 | 1.512 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.722 | 2.958 | 1.947 | 1.735 | 1.796 | 3.503 | 3.063 | 1.425 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 4.078 | 3.320 | 2.303 | 2.097 | 2.153 | 3.864 | 3.424 | 1.789 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 3.694 | 2.880 | 1.923 | 1.679 | 1.771 | 3.438 | 2.988 | 1.394 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.301 | 3.525 | 2.543 | 2.321 | 2.389 | 4.064 | 3.627 | 2.033 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.232 | 3.455 | 2.474 | 2.252 | 2.319 | 3.995 | 3.558 | 1.964 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.128 | 3.351 | 2.370 | 2.147 | 2.215 | 3.891 | 3.454 | 1.859 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.024 | 3.247 | 2.265 | 2.043 | 2.111 | 3.787 | 3.349 | 1.755 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.177 | 3.394 | 2.415 | 2.189 | 2.258 | 3.934 | 3.496 | 1.904 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.120 | 3.336 | 2.357 | 2.131 | 2.200 | 3.876 | 3.439 | 1.846 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.033 | 3.250 | 2.271 | 2.045 | 2.114 | 3.790 | 3.353 | 1.760 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.947 | 3.164 | 2.184 | 1.958 | 2.028 | 3.703 | 3.266 | 1.674 |
| Gas - non ducted < 3 Stars | Other or none specified | 4.301 | 3.525 | 2.543 | 2.321 | 2.389 | 4.064 | 3.627 | 2.033 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 3.615 | 2.802 | 1.844 | 1.600 | 1.692 | 3.359 | 2.909 | 1.315 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.223 | 3.446 | 2.465 | 2.242 | 2.310 | 3.986 | 3.549 | 1.954 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.153 | 3.377 | 2.395 | 2.173 | 2.240 | 3.916 | 3.479 | 1.885 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.049 | 3.273 | 2.291 | 2.069 | 2.136 | 3.812 | 3.375 | 1.781 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.945 | 3.168 | 2.187 | 1.964 | 2.032 | 3.708 | 3.271 | 1.676 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.099 | 3.315 | 2.336 | 2.110 | 2.179 | 3.855 | 3.418 | 1.825 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.041 | 3.258 | 2.278 | 2.052 | 2.122 | 3.797 | 3.360 | 1.768 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.955 | 3.171 | 2.192 | 1.966 | 2.035 | 3.711 | 3.274 | 1.681 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.868 | 3.085 | 2.106 | 1.880 | 1.949 | 3.625 | 3.187 | 1.595 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 4.223 | 3.446 | 2.465 | 2.242 | 2.310 | 3.986 | 3.549 | 1.954 |
| Gas - non ducted < 6 Stars | Evaporative | 3.497 | 2.683 | 1.726 | 1.482 | 1.574 | 3.241 | 2.791 | 1.197 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.105 | 3.328 | 2.346 | 2.124 | 2.192 | 3.868 | 3.430 | 1.836 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.035 | 3.259 | 2.277 | 2.055 | 2.122 | 3.798 | 3.361 | 1.767 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.931 | 3.154 | 2.173 | 1.951 | 2.018 | 3.694 | 3.257 | 1.662 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.827 | 3.050 | 2.069 | 1.846 | 1.914 | 3.590 | 3.153 | 1.558 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.981 | 3.197 | 2.218 | 1.992 | 2.061 | 3.737 | 3.300 | 1.707 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.923 | 3.140 | 2.160 | 1.934 | 2.003 | 3.679 | 3.242 | 1.649 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.837 | 3.053 | 2.074 | 1.848 | 1.917 | 3.593 | 3.156 | 1.563 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.750 | 2.967 | 1.988 | 1.762 | 1.831 | 3.507 | 3.069 | 1.477 |
| Gas - non ducted < 6 Stars | Other or none specified | 4.105 | 3.328 | 2.346 | 2.124 | 2.192 | 3.868 | 3.430 | 1.836 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 3.379 | 2.565 | 1.608 | 1.364 | 1.456 | 3.123 | 2.673 | 1.079 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.986 | 3.210 | 2.228 | 2.006 | 2.074 | 3.749 | 3.312 | 1.718 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.917 | 3.140 | 2.159 | 1.937 | 2.004 | 3.680 | 3.243 | 1.649 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.813 | 3.036 | 2.055 | 1.832 | 1.900 | 3.576 | 3.139 | 1.544 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.709 | 2.932 | 1.950 | 1.728 | 1.796 | 3.472 | 3.034 | 1.440 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.862 | 3.079 | 2.100 | 1.874 | 1.943 | 3.619 | 3.181 | 1.589 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.805 | 3.021 | 2.042 | 1.816 | 1.885 | 3.561 | 3.124 | 1.531 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.719 | 2.935 | 1.956 | 1.730 | 1.799 | 3.475 | 3.038 | 1.445 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.632 | 2.849 | 1.869 | 1.644 | 1.713 | 3.388 | 2.951 | 1.359 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 3.986 | 3.210 | 2.228 | 2.006 | 2.074 | 3.749 | 3.312 | 1.718 |

Table 4.1.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – gas heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 4.896 | 3.624 | 2.857 | 2.490 | 2.700 | 5.398 | 4.714 | 2.324 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.550 | 4.321 | 3.565 | 3.213 | 3.402 | 5.989 | 5.348 | 3.048 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.474 | 4.244 | 3.488 | 3.137 | 3.325 | 5.912 | 5.271 | 2.971 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.359 | 4.129 | 3.373 | 3.022 | 3.211 | 5.797 | 5.157 | 2.856 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.244 | 4.015 | 3.259 | 2.907 | 3.096 | 5.682 | 5.042 | 2.742 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 5.412 | 4.176 | 3.423 | 3.066 | 3.259 | 5.852 | 5.206 | 2.904 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.348 | 4.112 | 3.359 | 3.001 | 3.194 | 5.788 | 5.142 | 2.839 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.251 | 4.015 | 3.262 | 2.905 | 3.098 | 5.691 | 5.045 | 2.743 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.155 | 3.918 | 3.165 | 2.808 | 3.001 | 5.595 | 4.949 | 2.646 |
| Gas – ducted < 3 Stars | Other or none specified | 5.550 | 4.321 | 3.565 | 3.213 | 3.402 | 5.989 | 5.348 | 3.048 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 4.674 | 3.403 | 2.636 | 2.268 | 2.478 | 5.176 | 4.492 | 2.102 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.329 | 4.099 | 3.344 | 2.992 | 3.181 | 5.767 | 5.127 | 2.826 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.252 | 4.023 | 3.267 | 2.915 | 3.104 | 5.691 | 5.050 | 2.750 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.137 | 3.908 | 3.152 | 2.800 | 2.989 | 5.576 | 4.935 | 2.635 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.022 | 3.793 | 3.037 | 2.685 | 2.874 | 5.461 | 4.820 | 2.520 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.191 | 3.954 | 3.202 | 2.844 | 3.037 | 5.631 | 4.985 | 2.682 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.126 | 3.890 | 3.137 | 2.780 | 2.973 | 5.567 | 4.921 | 2.618 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.030 | 3.794 | 3.041 | 2.683 | 2.876 | 5.470 | 4.824 | 2.521 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.933 | 3.697 | 2.944 | 2.587 | 2.780 | 5.373 | 4.727 | 2.425 |
| Gas – ducted < 4.5 Stars | Other or none specified | 5.329 | 4.099 | 3.344 | 2.992 | 3.181 | 5.767 | 5.127 | 2.826 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 4.342 | 3.071 | 2.304 | 1.936 | 2.146 | 4.844 | 4.160 | 1.770 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.997 | 3.767 | 3.011 | 2.660 | 2.848 | 5.435 | 4.794 | 2.494 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.920 | 3.691 | 2.935 | 2.583 | 2.772 | 5.359 | 4.718 | 2.418 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.805 | 3.576 | 2.820 | 2.468 | 2.657 | 5.244 | 4.603 | 2.303 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.690 | 3.461 | 2.705 | 2.353 | 2.542 | 5.129 | 4.488 | 2.188 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.859 | 3.622 | 2.869 | 2.512 | 2.705 | 5.299 | 4.653 | 2.350 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.794 | 3.558 | 2.805 | 2.448 | 2.641 | 5.234 | 4.588 | 2.286 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.698 | 3.461 | 2.708 | 2.351 | 2.544 | 5.138 | 4.492 | 2.189 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.601 | 3.365 | 2.612 | 2.255 | 2.448 | 5.041 | 4.395 | 2.093 |
| Gas – ducted < 6 Stars | Other or none specified | 4.997 | 3.767 | 3.011 | 2.660 | 2.848 | 5.435 | 4.794 | 2.494 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 4.010 | 2.739 | 1.971 | 1.604 | 1.814 | 4.512 | 3.828 | 1.438 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.665 | 3.435 | 2.679 | 2.327 | 2.516 | 5.103 | 4.462 | 2.162 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.588 | 3.359 | 2.603 | 2.251 | 2.440 | 5.026 | 4.386 | 2.086 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.473 | 3.244 | 2.488 | 2.136 | 2.325 | 4.912 | 4.271 | 1.971 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.358 | 3.129 | 2.373 | 2.021 | 2.210 | 4.797 | 4.156 | 1.856 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.526 | 3.290 | 2.537 | 2.180 | 2.373 | 4.967 | 4.321 | 2.018 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.462 | 3.226 | 2.473 | 2.116 | 2.309 | 4.902 | 4.256 | 1.954 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.366 | 3.129 | 2.376 | 2.019 | 2.212 | 4.806 | 4.160 | 1.857 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.269 | 3.033 | 2.280 | 1.922 | 2.115 | 4.709 | 4.063 | 1.761 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 4.665 | 3.435 | 2.679 | 2.327 | 2.516 | 5.103 | 4.462 | 2.162 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 4.333 | 3.039 | 2.328 | 1.950 | 2.162 | 4.776 | 4.102 | 1.801 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.002 | 3.753 | 3.026 | 2.672 | 2.864 | 5.399 | 4.768 | 2.514 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.925 | 3.677 | 2.950 | 2.595 | 2.787 | 5.323 | 4.691 | 2.438 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.810 | 3.562 | 2.835 | 2.480 | 2.672 | 5.208 | 4.576 | 2.323 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.695 | 3.447 | 2.720 | 2.366 | 2.558 | 5.093 | 4.461 | 2.208 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.863 | 3.606 | 2.886 | 2.525 | 2.724 | 5.259 | 4.624 | 2.365 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.799 | 3.542 | 2.822 | 2.460 | 2.660 | 5.195 | 4.560 | 2.301 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.702 | 3.445 | 2.725 | 2.364 | 2.563 | 5.098 | 4.463 | 2.204 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.606 | 3.349 | 2.629 | 2.267 | 2.467 | 5.002 | 4.366 | 2.108 |
| Gas - non ducted < 3 Stars | Other or none specified | 5.002 | 3.753 | 3.026 | 2.672 | 2.864 | 5.399 | 4.768 | 2.514 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 4.222 | 2.927 | 2.217 | 1.839 | 2.050 | 4.665 | 3.991 | 1.690 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.890 | 3.642 | 2.915 | 2.560 | 2.753 | 5.288 | 4.656 | 2.403 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.814 | 3.565 | 2.838 | 2.484 | 2.676 | 5.211 | 4.580 | 2.326 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.699 | 3.450 | 2.723 | 2.369 | 2.561 | 5.097 | 4.465 | 2.211 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.584 | 3.335 | 2.608 | 2.254 | 2.446 | 4.982 | 4.350 | 2.096 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.752 | 3.495 | 2.775 | 2.413 | 2.613 | 5.148 | 4.513 | 2.254 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.687 | 3.431 | 2.711 | 2.349 | 2.549 | 5.084 | 4.448 | 2.190 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.591 | 3.334 | 2.614 | 2.252 | 2.452 | 4.987 | 4.352 | 2.093 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.494 | 3.237 | 2.517 | 2.156 | 2.355 | 4.890 | 4.255 | 1.996 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 4.890 | 3.642 | 2.915 | 2.560 | 2.753 | 5.288 | 4.656 | 2.403 |
| Gas - non ducted < 6 Stars | Evaporative | 4.055 | 2.760 | 2.049 | 1.672 | 1.883 | 4.498 | 3.824 | 1.523 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.723 | 3.475 | 2.748 | 2.393 | 2.585 | 5.121 | 4.489 | 2.236 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.646 | 3.398 | 2.671 | 2.317 | 2.509 | 5.044 | 4.413 | 2.159 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.532 | 3.283 | 2.556 | 2.202 | 2.394 | 4.929 | 4.298 | 2.044 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.417 | 3.168 | 2.441 | 2.087 | 2.279 | 4.815 | 4.183 | 1.929 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.585 | 3.328 | 2.608 | 2.246 | 2.446 | 4.981 | 4.345 | 2.087 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.520 | 3.263 | 2.543 | 2.182 | 2.381 | 4.916 | 4.281 | 2.023 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.424 | 3.167 | 2.447 | 2.085 | 2.285 | 4.820 | 4.184 | 1.926 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.327 | 3.070 | 2.350 | 1.989 | 2.188 | 4.723 | 4.088 | 1.829 |
| Gas - non ducted < 6 Stars | Other or none specified | 4.723 | 3.475 | 2.748 | 2.393 | 2.585 | 5.121 | 4.489 | 2.236 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 3.888 | 2.593 | 1.882 | 1.505 | 1.716 | 4.331 | 3.657 | 1.355 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.556 | 3.307 | 2.581 | 2.226 | 2.418 | 4.954 | 4.322 | 2.068 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.479 | 3.231 | 2.504 | 2.150 | 2.342 | 4.877 | 4.245 | 1.992 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.364 | 3.116 | 2.389 | 2.035 | 2.227 | 4.762 | 4.131 | 1.877 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.250 | 3.001 | 2.274 | 1.920 | 2.112 | 4.647 | 4.016 | 1.762 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.418 | 3.161 | 2.441 | 2.079 | 2.279 | 4.814 | 4.178 | 1.920 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.353 | 3.096 | 2.376 | 2.015 | 2.214 | 4.749 | 4.114 | 1.855 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 4.257 | 3.000 | 2.280 | 1.918 | 2.118 | 4.653 | 4.017 | 1.759 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.160 | 2.903 | 2.183 | 1.822 | 2.021 | 4.556 | 3.921 | 1.662 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 4.556 | 3.307 | 2.581 | 2.226 | 2.418 | 4.954 | 4.322 | 2.068 |

Table 4.2.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – heat pump heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 2.950 | 1.894 | 1.333 | 1.029 | 1.192 | 2.650 | 2.245 | 0.857 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.510 | 2.497 | 1.897 | 1.597 | 1.748 | 3.252 | 2.848 | 1.422 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.444 | 2.431 | 1.831 | 1.532 | 1.683 | 3.186 | 2.783 | 1.356 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.346 | 2.333 | 1.733 | 1.433 | 1.585 | 3.088 | 2.685 | 1.258 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.248 | 2.235 | 1.635 | 1.335 | 1.487 | 2.990 | 2.586 | 1.160 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 3.398 | 2.373 | 1.782 | 1.476 | 1.629 | 3.130 | 2.727 | 1.313 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.343 | 2.319 | 1.727 | 1.422 | 1.575 | 3.075 | 2.673 | 1.258 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.261 | 2.237 | 1.645 | 1.340 | 1.493 | 2.994 | 2.591 | 1.177 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.180 | 2.155 | 1.564 | 1.258 | 1.412 | 2.912 | 2.510 | 1.095 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.510 | 2.497 | 1.897 | 1.597 | 1.748 | 3.252 | 2.848 | 1.422 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.903 | 1.847 | 1.286 | 0.982 | 1.145 | 2.603 | 2.198 | 0.810 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.463 | 2.450 | 1.850 | 1.550 | 1.701 | 3.205 | 2.801 | 1.375 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.397 | 2.384 | 1.784 | 1.485 | 1.636 | 3.139 | 2.736 | 1.309 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.299 | 2.286 | 1.686 | 1.386 | 1.538 | 3.041 | 2.638 | 1.211 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.201 | 2.188 | 1.588 | 1.288 | 1.440 | 2.943 | 2.539 | 1.113 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.351 | 2.326 | 1.735 | 1.429 | 1.582 | 3.083 | 2.680 | 1.266 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.296 | 2.272 | 1.680 | 1.375 | 1.528 | 3.028 | 2.626 | 1.211 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.214 | 2.190 | 1.598 | 1.293 | 1.446 | 2.947 | 2.544 | 1.130 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.133 | 2.108 | 1.517 | 1.211 | 1.365 | 2.865 | 2.463 | 1.048 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.463 | 2.450 | 1.850 | 1.550 | 1.701 | 3.205 | 2.801 | 1.375 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 2.832 | 1.777 | 1.216 | 0.911 | 1.074 | 2.533 | 2.128 | 0.739 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.392 | 2.379 | 1.779 | 1.480 | 1.631 | 3.134 | 2.731 | 1.304 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.327 | 2.314 | 1.714 | 1.414 | 1.566 | 3.069 | 2.665 | 1.239 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.228 | 2.216 | 1.615 | 1.316 | 1.467 | 2.971 | 2.567 | 1.140 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.130 | 2.117 | 1.517 | 1.218 | 1.369 | 2.872 | 2.469 | 1.042 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.280 | 2.256 | 1.664 | 1.359 | 1.512 | 3.012 | 2.610 | 1.195 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.226 | 2.201 | 1.610 | 1.304 | 1.457 | 2.958 | 2.555 | 1.141 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.144 | 2.120 | 1.528 | 1.223 | 1.376 | 2.876 | 2.474 | 1.059 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.062 | 2.038 | 1.446 | 1.141 | 1.294 | 2.794 | 2.392 | 0.977 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.392 | 2.379 | 1.779 | 1.480 | 1.631 | 3.134 | 2.731 | 1.304 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.762 | 1.707 | 1.145 | 0.841 | 1.004 | 2.462 | 2.057 | 0.669 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.322 | 2.309 | 1.709 | 1.409 | 1.561 | 3.064 | 2.660 | 1.234 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.256 | 2.243 | 1.643 | 1.344 | 1.495 | 2.998 | 2.595 | 1.168 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.158 | 2.145 | 1.545 | 1.246 | 1.397 | 2.900 | 2.497 | 1.070 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.060 | 2.047 | 1.447 | 1.147 | 1.299 | 2.802 | 2.398 | 0.972 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.210 | 2.185 | 1.594 | 1.288 | 1.441 | 2.942 | 2.539 | 1.125 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.155 | 2.131 | 1.539 | 1.234 | 1.387 | 2.887 | 2.485 | 1.070 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.074 | 2.049 | 1.457 | 1.152 | 1.305 | 2.806 | 2.403 | 0.989 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.992 | 1.967 | 1.376 | 1.070 | 1.224 | 2.724 | 2.322 | 0.907 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.322 | 2.309 | 1.709 | 1.409 | 1.561 | 3.064 | 2.660 | 1.234 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 2.862 | 1.804 | 1.260 | 0.948 | 1.115 | 2.555 | 2.150 | 0.777 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.423 | 2.405 | 1.816 | 1.512 | 1.666 | 3.158 | 2.757 | 1.348 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.358 | 2.339 | 1.751 | 1.446 | 1.600 | 3.092 | 2.691 | 1.283 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.260 | 2.241 | 1.653 | 1.348 | 1.502 | 2.994 | 2.593 | 1.185 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.161 | 2.143 | 1.554 | 1.250 | 1.404 | 2.896 | 2.495 | 1.087 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.312 | 2.280 | 1.700 | 1.400 | 1.545 | 3.035 | 2.636 | 1.239 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.258 | 2.226 | 1.646 | 1.345 | 1.491 | 2.981 | 2.581 | 1.184 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.176 | 2.144 | 1.564 | 1.264 | 1.409 | 2.899 | 2.499 | 1.102 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.094 | 2.063 | 1.482 | 1.182 | 1.328 | 2.817 | 2.418 | 1.021 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.423 | 2.405 | 1.816 | 1.512 | 1.666 | 3.158 | 2.757 | 1.348 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.823 | 1.765 | 1.221 | 0.909 | 1.076 | 2.516 | 2.111 | 0.737 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.384 | 2.366 | 1.777 | 1.473 | 1.627 | 3.119 | 2.718 | 1.309 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.319 | 2.300 | 1.712 | 1.407 | 1.561 | 3.053 | 2.652 | 1.244 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.221 | 2.202 | 1.614 | 1.309 | 1.463 | 2.955 | 2.554 | 1.146 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.122 | 2.104 | 1.515 | 1.211 | 1.365 | 2.857 | 2.456 | 1.047 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.273 | 2.241 | 1.661 | 1.361 | 1.506 | 2.996 | 2.596 | 1.200 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.218 | 2.187 | 1.607 | 1.306 | 1.452 | 2.942 | 2.542 | 1.145 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.137 | 2.105 | 1.525 | 1.225 | 1.370 | 2.860 | 2.460 | 1.063 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.055 | 2.023 | 1.443 | 1.143 | 1.288 | 2.778 | 2.379 | 0.982 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.384 | 2.366 | 1.777 | 1.473 | 1.627 | 3.119 | 2.718 | 1.309 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 2.764 | 1.707 | 1.162 | 0.850 | 1.018 | 2.458 | 2.052 | 0.679 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.326 | 2.307 | 1.719 | 1.414 | 1.568 | 3.060 | 2.659 | 1.251 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.260 | 2.242 | 1.653 | 1.349 | 1.502 | 2.994 | 2.593 | 1.185 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.162 | 2.144 | 1.555 | 1.250 | 1.404 | 2.896 | 2.495 | 1.087 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.064 | 2.045 | 1.457 | 1.152 | 1.306 | 2.798 | 2.397 | 0.989 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.214 | 2.183 | 1.603 | 1.302 | 1.448 | 2.938 | 2.538 | 1.141 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.160 | 2.128 | 1.548 | 1.248 | 1.393 | 2.883 | 2.483 | 1.086 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.078 | 2.046 | 1.466 | 1.166 | 1.311 | 2.801 | 2.402 | 1.005 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.996 | 1.965 | 1.385 | 1.084 | 1.230 | 2.720 | 2.320 | 0.923 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.326 | 2.307 | 1.719 | 1.414 | 1.568 | 3.060 | 2.659 | 1.251 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.706 | 1.648 | 1.104 | 0.792 | 0.959 | 2.399 | 1.994 | 0.620 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.267 | 2.249 | 1.660 | 1.355 | 1.509 | 3.001 | 2.600 | 1.192 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.201 | 2.183 | 1.594 | 1.290 | 1.444 | 2.936 | 2.535 | 1.126 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.103 | 2.085 | 1.496 | 1.192 | 1.346 | 2.838 | 2.437 | 1.028 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.005 | 1.987 | 1.398 | 1.093 | 1.247 | 2.739 | 2.338 | 0.930 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.156 | 2.124 | 1.544 | 1.243 | 1.389 | 2.879 | 2.479 | 1.082 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.101 | 2.070 | 1.489 | 1.189 | 1.334 | 2.824 | 2.425 | 1.028 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.019 | 1.988 | 1.408 | 1.107 | 1.253 | 2.743 | 2.343 | 0.946 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.938 | 1.906 | 1.326 | 1.025 | 1.171 | 2.661 | 2.261 | 0.864 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.267 | 2.249 | 1.660 | 1.355 | 1.509 | 3.001 | 2.600 | 1.192 |

Table 4.2.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – heat pump heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 2.559 | 2.156 | 1.204 | 1.086 | 1.070 | 1.723 | 1.521 | 0.739 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.025 | 2.653 | 1.671 | 1.566 | 1.533 | 2.214 | 2.015 | 1.227 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 2.971 | 2.599 | 1.616 | 1.511 | 1.479 | 2.159 | 1.961 | 1.172 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.889 | 2.517 | 1.535 | 1.430 | 1.398 | 2.078 | 1.879 | 1.091 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.808 | 2.436 | 1.454 | 1.349 | 1.316 | 1.997 | 1.798 | 1.010 |
| Heat pump - Ducted < 3 Stars (< 2.25) | HP - Non-ducted < 2.25 stars (< 3) | 2.930 | 2.554 | 1.573 | 1.463 | 1.435 | 2.114 | 1.917 | 1.132 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.885 | 2.509 | 1.527 | 1.418 | 1.390 | 2.069 | 1.872 | 1.087 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.817 | 2.441 | 1.460 | 1.350 | 1.323 | 2.001 | 1.804 | 1.020 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.750 | 2.374 | 1.392 | 1.283 | 1.255 | 1.933 | 1.736 | 0.952 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.025 | 2.653 | 1.671 | 1.566 | 1.533 | 2.214 | 2.015 | 1.227 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.521 | 2.119 | 1.166 | 1.048 | 1.032 | 1.685 | 1.483 | 0.701 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 2.987 | 2.615 | 1.633 | 1.528 | 1.496 | 2.176 | 1.977 | 1.189 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 2.933 | 2.561 | 1.579 | 1.474 | 1.441 | 2.122 | 1.923 | 1.135 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.852 | 2.480 | 1.497 | 1.392 | 1.360 | 2.040 | 1.842 | 1.053 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.770 | 2.398 | 1.416 | 1.311 | 1.278 | 1.959 | 1.760 | 0.972 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.892 | 2.516 | 1.535 | 1.425 | 1.398 | 2.076 | 1.879 | 1.094 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.847 | 2.471 | 1.490 | 1.380 | 1.352 | 2.031 | 1.834 | 1.049 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.780 | 2.404 | 1.422 | 1.313 | 1.285 | 1.963 | 1.766 | 0.982 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.712 | 2.336 | 1.355 | 1.245 | 1.217 | 1.896 | 1.699 | 0.914 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 2.987 | 2.615 | 1.633 | 1.528 | 1.496 | 2.176 | 1.977 | 1.189 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 2.465 | 2.062 | 1.109 | 0.991 | 0.975 | 1.628 | 1.426 | 0.644 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.931 | 2.559 | 1.576 | 1.471 | 1.439 | 2.119 | 1.921 | 1.132 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.876 | 2.504 | 1.522 | 1.417 | 1.385 | 2.065 | 1.866 | 1.078 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.795 | 2.423 | 1.441 | 1.336 | 1.303 | 1.984 | 1.785 | 0.997 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.714 | 2.342 | 1.359 | 1.254 | 1.222 | 1.902 | 1.704 | 0.915 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.836 | 2.459 | 1.478 | 1.368 | 1.341 | 2.019 | 1.822 | 1.038 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.791 | 2.414 | 1.433 | 1.323 | 1.296 | 1.974 | 1.777 | 0.993 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.723 | 2.347 | 1.366 | 1.256 | 1.228 | 1.907 | 1.710 | 0.925 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.655 | 2.279 | 1.298 | 1.188 | 1.161 | 1.839 | 1.642 | 0.858 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 2.931 | 2.559 | 1.576 | 1.471 | 1.439 | 2.119 | 1.921 | 1.132 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.408 | 2.005 | 1.053 | 0.934 | 0.919 | 1.572 | 1.370 | 0.588 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.874 | 2.502 | 1.520 | 1.415 | 1.382 | 2.063 | 1.864 | 1.076 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.820 | 2.448 | 1.465 | 1.360 | 1.328 | 2.008 | 1.810 | 1.021 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.738 | 2.366 | 1.384 | 1.279 | 1.247 | 1.927 | 1.728 | 0.940 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.657 | 2.285 | 1.303 | 1.198 | 1.165 | 1.846 | 1.647 | 0.859 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.779 | 2.403 | 1.421 | 1.312 | 1.284 | 1.963 | 1.766 | 0.981 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.734 | 2.358 | 1.376 | 1.267 | 1.239 | 1.918 | 1.721 | 0.936 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.666 | 2.290 | 1.309 | 1.199 | 1.172 | 1.850 | 1.653 | 0.868 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.599 | 2.223 | 1.241 | 1.132 | 1.104 | 1.782 | 1.585 | 0.801 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.874 | 2.502 | 1.520 | 1.415 | 1.382 | 2.063 | 1.864 | 1.076 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 2.493 | 2.083 | 1.142 | 1.020 | 1.007 | 1.652 | 1.450 | 0.686 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 2.957 | 2.582 | 1.605 | 1.497 | 1.466 | 2.143 | 1.947 | 1.165 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 2.903 | 2.528 | 1.551 | 1.443 | 1.412 | 2.089 | 1.893 | 1.111 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.821 | 2.446 | 1.470 | 1.362 | 1.331 | 2.007 | 1.811 | 1.030 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.740 | 2.365 | 1.388 | 1.280 | 1.249 | 1.926 | 1.730 | 0.948 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.861 | 2.482 | 1.506 | 1.400 | 1.375 | 2.045 | 1.848 | 1.070 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.816 | 2.437 | 1.461 | 1.355 | 1.330 | 2.000 | 1.803 | 1.025 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.749 | 2.370 | 1.394 | 1.288 | 1.263 | 1.932 | 1.735 | 0.958 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.681 | 2.302 | 1.326 | 1.220 | 1.195 | 1.865 | 1.668 | 0.890 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 2.957 | 2.582 | 1.605 | 1.497 | 1.466 | 2.143 | 1.947 | 1.165 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.461 | 2.051 | 1.110 | 0.988 | 0.974 | 1.620 | 1.418 | 0.654 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 2.925 | 2.550 | 1.573 | 1.465 | 1.434 | 2.111 | 1.915 | 1.133 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 2.870 | 2.495 | 1.519 | 1.411 | 1.380 | 2.057 | 1.861 | 1.079 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.789 | 2.414 | 1.437 | 1.329 | 1.299 | 1.975 | 1.779 | 0.997 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.708 | 2.333 | 1.356 | 1.248 | 1.217 | 1.894 | 1.698 | 0.916 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.829 | 2.450 | 1.474 | 1.368 | 1.343 | 2.013 | 1.816 | 1.038 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.784 | 2.405 | 1.429 | 1.323 | 1.298 | 1.968 | 1.771 | 0.993 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.717 | 2.337 | 1.362 | 1.256 | 1.230 | 1.900 | 1.703 | 0.925 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.649 | 2.270 | 1.294 | 1.188 | 1.163 | 1.833 | 1.636 | 0.858 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 2.925 | 2.550 | 1.573 | 1.465 | 1.434 | 2.111 | 1.915 | 1.133 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 2.413 | 2.003 | 1.062 | 0.940 | 0.926 | 1.572 | 1.370 | 0.606 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.877 | 2.502 | 1.525 | 1.417 | 1.386 | 2.063 | 1.867 | 1.085 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.822 | 2.447 | 1.471 | 1.363 | 1.332 | 2.008 | 1.813 | 1.031 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.741 | 2.366 | 1.389 | 1.281 | 1.250 | 1.927 | 1.731 | 0.949 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.660 | 2.285 | 1.308 | 1.200 | 1.169 | 1.846 | 1.650 | 0.868 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.781 | 2.402 | 1.426 | 1.320 | 1.295 | 1.965 | 1.768 | 0.990 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.736 | 2.357 | 1.381 | 1.275 | 1.250 | 1.920 | 1.723 | 0.945 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.669 | 2.289 | 1.314 | 1.207 | 1.182 | 1.852 | 1.655 | 0.877 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.601 | 2.222 | 1.246 | 1.140 | 1.115 | 1.785 | 1.588 | 0.810 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 2.877 | 2.502 | 1.525 | 1.417 | 1.386 | 2.063 | 1.867 | 1.085 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.364 | 1.955 | 1.014 | 0.892 | 0.878 | 1.524 | 1.322 | 0.558 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.828 | 2.453 | 1.477 | 1.369 | 1.338 | 2.015 | 1.819 | 1.037 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.774 | 2.399 | 1.423 | 1.315 | 1.284 | 1.960 | 1.764 | 0.983 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.693 | 2.318 | 1.341 | 1.233 | 1.202 | 1.879 | 1.683 | 0.901 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.611 | 2.236 | 1.260 | 1.152 | 1.121 | 1.798 | 1.602 | 0.820 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.733 | 2.354 | 1.378 | 1.272 | 1.247 | 1.917 | 1.720 | 0.942 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.688 | 2.309 | 1.333 | 1.227 | 1.202 | 1.872 | 1.675 | 0.897 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 2.620 | 2.241 | 1.265 | 1.159 | 1.134 | 1.804 | 1.607 | 0.829 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.553 | 2.174 | 1.198 | 1.092 | 1.067 | 1.736 | 1.539 | 0.762 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.828 | 2.453 | 1.477 | 1.369 | 1.338 | 2.015 | 1.819 | 1.037 |

Table 4.2.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – heat pump heating – South Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 3.095 | 2.206 | 1.377 | 1.123 | 1.233 | 2.732 | 2.311 | 0.877 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.690 | 2.855 | 1.977 | 1.734 | 1.826 | 3.377 | 2.954 | 1.471 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.621 | 2.785 | 1.908 | 1.665 | 1.757 | 3.307 | 2.885 | 1.402 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.517 | 2.681 | 1.803 | 1.561 | 1.653 | 3.203 | 2.781 | 1.298 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.412 | 2.577 | 1.699 | 1.457 | 1.549 | 3.099 | 2.676 | 1.193 |
| Heat pump - Ducted < 3 Stars (< 2.25) | HP - Non-ducted < 2.25 stars (< 3) | 3.568 | 2.724 | 1.856 | 1.602 | 1.701 | 3.246 | 2.825 | 1.355 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.511 | 2.667 | 1.799 | 1.544 | 1.643 | 3.188 | 2.768 | 1.298 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.425 | 2.580 | 1.712 | 1.458 | 1.557 | 3.102 | 2.681 | 1.212 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.338 | 2.494 | 1.626 | 1.371 | 1.470 | 3.016 | 2.595 | 1.125 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.690 | 2.855 | 1.977 | 1.734 | 1.826 | 3.377 | 2.954 | 1.471 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.044 | 2.156 | 1.326 | 1.072 | 1.183 | 2.681 | 2.260 | 0.826 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.640 | 2.804 | 1.926 | 1.684 | 1.776 | 3.326 | 2.904 | 1.420 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.570 | 2.735 | 1.857 | 1.614 | 1.706 | 3.256 | 2.834 | 1.351 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.466 | 2.630 | 1.753 | 1.510 | 1.602 | 3.152 | 2.730 | 1.247 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.362 | 2.526 | 1.648 | 1.406 | 1.498 | 3.048 | 2.626 | 1.143 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.518 | 2.673 | 1.805 | 1.551 | 1.650 | 3.195 | 2.774 | 1.305 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.460 | 2.616 | 1.748 | 1.493 | 1.592 | 3.138 | 2.717 | 1.247 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.374 | 2.530 | 1.661 | 1.407 | 1.506 | 3.051 | 2.630 | 1.161 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.287 | 2.443 | 1.575 | 1.321 | 1.420 | 2.965 | 2.544 | 1.074 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.640 | 2.804 | 1.926 | 1.684 | 1.776 | 3.326 | 2.904 | 1.420 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 2.968 | 2.079 | 1.250 | 0.996 | 1.106 | 2.605 | 2.184 | 0.750 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.563 | 2.728 | 1.850 | 1.607 | 1.699 | 3.250 | 2.827 | 1.344 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.494 | 2.658 | 1.781 | 1.538 | 1.630 | 3.180 | 2.758 | 1.275 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.390 | 2.554 | 1.676 | 1.434 | 1.526 | 3.076 | 2.654 | 1.170 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.285 | 2.450 | 1.572 | 1.330 | 1.422 | 2.972 | 2.549 | 1.066 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.441 | 2.597 | 1.729 | 1.475 | 1.574 | 3.119 | 2.698 | 1.228 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.384 | 2.540 | 1.671 | 1.417 | 1.516 | 3.061 | 2.641 | 1.171 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.298 | 2.453 | 1.585 | 1.331 | 1.430 | 2.975 | 2.554 | 1.085 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.211 | 2.367 | 1.499 | 1.244 | 1.343 | 2.889 | 2.468 | 0.998 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.563 | 2.728 | 1.850 | 1.607 | 1.699 | 3.250 | 2.827 | 1.344 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.891 | 2.003 | 1.173 | 0.920 | 1.030 | 2.529 | 2.108 | 0.674 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.487 | 2.652 | 1.774 | 1.531 | 1.623 | 3.174 | 2.751 | 1.268 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.418 | 2.582 | 1.704 | 1.462 | 1.554 | 3.104 | 2.682 | 1.198 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.313 | 2.478 | 1.600 | 1.358 | 1.450 | 3.000 | 2.577 | 1.094 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.209 | 2.374 | 1.496 | 1.253 | 1.345 | 2.896 | 2.473 | 0.990 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.365 | 2.521 | 1.653 | 1.398 | 1.497 | 3.043 | 2.622 | 1.152 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.308 | 2.463 | 1.595 | 1.341 | 1.440 | 2.985 | 2.564 | 1.095 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.221 | 2.377 | 1.509 | 1.255 | 1.353 | 2.899 | 2.478 | 1.008 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.135 | 2.291 | 1.423 | 1.168 | 1.267 | 2.812 | 2.392 | 0.922 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.487 | 2.652 | 1.774 | 1.531 | 1.623 | 3.174 | 2.751 | 1.268 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 3.001 | 2.105 | 1.301 | 1.038 | 1.154 | 2.630 | 2.208 | 0.792 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.596 | 2.756 | 1.893 | 1.643 | 1.739 | 3.276 | 2.856 | 1.393 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.526 | 2.687 | 1.823 | 1.574 | 1.669 | 3.206 | 2.787 | 1.324 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.422 | 2.582 | 1.719 | 1.470 | 1.565 | 3.102 | 2.682 | 1.220 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.318 | 2.478 | 1.615 | 1.366 | 1.461 | 2.998 | 2.578 | 1.115 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.476 | 2.625 | 1.770 | 1.512 | 1.612 | 3.144 | 2.726 | 1.278 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.418 | 2.568 | 1.713 | 1.454 | 1.554 | 3.087 | 2.668 | 1.220 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.332 | 2.481 | 1.626 | 1.368 | 1.468 | 3.000 | 2.582 | 1.134 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.246 | 2.395 | 1.540 | 1.281 | 1.381 | 2.914 | 2.496 | 1.048 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.596 | 2.756 | 1.893 | 1.643 | 1.739 | 3.276 | 2.856 | 1.393 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.959 | 2.063 | 1.258 | 0.995 | 1.111 | 2.587 | 2.165 | 0.749 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.553 | 2.713 | 1.850 | 1.601 | 1.696 | 3.233 | 2.813 | 1.350 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.484 | 2.644 | 1.780 | 1.531 | 1.627 | 3.163 | 2.744 | 1.281 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.379 | 2.540 | 1.676 | 1.427 | 1.522 | 3.059 | 2.640 | 1.177 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.275 | 2.435 | 1.572 | 1.323 | 1.418 | 2.955 | 2.535 | 1.073 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.433 | 2.583 | 1.728 | 1.469 | 1.569 | 3.101 | 2.683 | 1.235 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.376 | 2.525 | 1.670 | 1.411 | 1.511 | 3.044 | 2.625 | 1.178 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.289 | 2.439 | 1.584 | 1.325 | 1.425 | 2.958 | 2.539 | 1.091 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.203 | 2.352 | 1.497 | 1.239 | 1.339 | 2.871 | 2.453 | 1.005 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.553 | 2.713 | 1.850 | 1.601 | 1.696 | 3.233 | 2.813 | 1.350 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 2.895 | 1.998 | 1.194 | 0.931 | 1.047 | 2.523 | 2.101 | 0.685 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.489 | 2.649 | 1.786 | 1.536 | 1.632 | 3.169 | 2.749 | 1.286 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.419 | 2.580 | 1.716 | 1.467 | 1.562 | 3.099 | 2.680 | 1.217 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.315 | 2.476 | 1.612 | 1.363 | 1.458 | 2.995 | 2.576 | 1.113 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.211 | 2.371 | 1.508 | 1.259 | 1.354 | 2.891 | 2.471 | 1.008 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.369 | 2.518 | 1.663 | 1.405 | 1.505 | 3.037 | 2.619 | 1.171 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.311 | 2.461 | 1.606 | 1.347 | 1.447 | 2.980 | 2.561 | 1.113 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.225 | 2.375 | 1.519 | 1.261 | 1.361 | 2.893 | 2.475 | 1.027 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.139 | 2.288 | 1.433 | 1.174 | 1.274 | 2.807 | 2.389 | 0.941 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.489 | 2.649 | 1.786 | 1.536 | 1.632 | 3.169 | 2.749 | 1.286 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.830 | 1.934 | 1.130 | 0.867 | 0.982 | 2.459 | 2.037 | 0.621 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.425 | 2.585 | 1.721 | 1.472 | 1.568 | 3.104 | 2.685 | 1.222 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.355 | 2.516 | 1.652 | 1.403 | 1.498 | 3.035 | 2.616 | 1.153 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.251 | 2.411 | 1.548 | 1.299 | 1.394 | 2.931 | 2.511 | 1.048 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.147 | 2.307 | 1.444 | 1.194 | 1.290 | 2.827 | 2.407 | 0.944 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.305 | 2.454 | 1.599 | 1.340 | 1.441 | 2.973 | 2.555 | 1.107 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.247 | 2.397 | 1.542 | 1.283 | 1.383 | 2.916 | 2.497 | 1.049 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.161 | 2.310 | 1.455 | 1.197 | 1.297 | 2.829 | 2.411 | 0.963 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.075 | 2.224 | 1.369 | 1.110 | 1.210 | 2.743 | 2.324 | 0.877 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.425 | 2.585 | 1.721 | 1.472 | 1.568 | 3.104 | 2.685 | 1.222 |

Table 4.2.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – heat pump heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 3.354 | 1.990 | 1.455 | 1.077 | 1.304 | 3.590 | 2.961 | 0.960 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.019 | 2.709 | 2.115 | 1.741 | 1.959 | 4.278 | 3.672 | 1.607 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.942 | 2.632 | 2.039 | 1.665 | 1.882 | 4.201 | 3.595 | 1.531 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.827 | 2.517 | 1.924 | 1.550 | 1.767 | 4.086 | 3.480 | 1.416 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.712 | 2.402 | 1.809 | 1.435 | 1.652 | 3.971 | 3.366 | 1.301 |
| Heat pump - Ducted < 3 Stars (< 2.25) | HP - Non-ducted < 2.25 stars (< 3) | 3.885 | 2.563 | 1.984 | 1.595 | 1.823 | 4.133 | 3.527 | 1.475 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.820 | 2.499 | 1.920 | 1.531 | 1.759 | 4.069 | 3.463 | 1.411 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.724 | 2.402 | 1.823 | 1.434 | 1.663 | 3.972 | 3.366 | 1.314 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.627 | 2.306 | 1.727 | 1.337 | 1.566 | 3.875 | 3.270 | 1.217 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 4.019 | 2.709 | 2.115 | 1.741 | 1.959 | 4.278 | 3.672 | 1.607 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.296 | 1.932 | 1.397 | 1.019 | 1.246 | 3.533 | 2.903 | 0.902 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.961 | 2.651 | 2.057 | 1.684 | 1.901 | 4.220 | 3.614 | 1.549 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.884 | 2.574 | 1.981 | 1.607 | 1.824 | 4.143 | 3.538 | 1.473 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.770 | 2.459 | 1.866 | 1.492 | 1.709 | 4.028 | 3.423 | 1.358 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.655 | 2.344 | 1.751 | 1.377 | 1.595 | 3.914 | 3.308 | 1.243 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.827 | 2.505 | 1.927 | 1.537 | 1.766 | 4.075 | 3.469 | 1.417 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.763 | 2.441 | 1.862 | 1.473 | 1.701 | 4.011 | 3.405 | 1.353 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.666 | 2.344 | 1.766 | 1.376 | 1.605 | 3.914 | 3.308 | 1.256 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.569 | 2.248 | 1.669 | 1.280 | 1.508 | 3.818 | 3.212 | 1.160 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.961 | 2.651 | 2.057 | 1.684 | 1.901 | 4.220 | 3.614 | 1.549 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 3.209 | 1.845 | 1.311 | 0.932 | 1.160 | 3.446 | 2.816 | 0.816 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.874 | 2.564 | 1.971 | 1.597 | 1.814 | 4.133 | 3.527 | 1.463 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.798 | 2.487 | 1.894 | 1.520 | 1.738 | 4.057 | 3.451 | 1.386 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.683 | 2.373 | 1.779 | 1.405 | 1.623 | 3.942 | 3.336 | 1.271 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.568 | 2.258 | 1.664 | 1.291 | 1.508 | 3.827 | 3.221 | 1.156 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.740 | 2.419 | 1.840 | 1.450 | 1.679 | 3.988 | 3.383 | 1.330 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.676 | 2.354 | 1.775 | 1.386 | 1.615 | 3.924 | 3.318 | 1.266 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.579 | 2.258 | 1.679 | 1.289 | 1.518 | 3.827 | 3.222 | 1.169 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.483 | 2.161 | 1.582 | 1.193 | 1.421 | 3.731 | 3.125 | 1.073 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.874 | 2.564 | 1.971 | 1.597 | 1.814 | 4.133 | 3.527 | 1.463 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.122 | 1.759 | 1.224 | 0.845 | 1.073 | 3.359 | 2.730 | 0.729 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.788 | 2.477 | 1.884 | 1.510 | 1.727 | 4.046 | 3.441 | 1.376 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.711 | 2.401 | 1.807 | 1.434 | 1.651 | 3.970 | 3.364 | 1.299 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.596 | 2.286 | 1.693 | 1.319 | 1.536 | 3.855 | 3.249 | 1.184 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.481 | 2.171 | 1.578 | 1.204 | 1.421 | 3.740 | 3.134 | 1.070 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.653 | 2.332 | 1.753 | 1.364 | 1.592 | 3.902 | 3.296 | 1.244 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.589 | 2.268 | 1.689 | 1.299 | 1.528 | 3.837 | 3.232 | 1.179 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.492 | 2.171 | 1.592 | 1.203 | 1.431 | 3.741 | 3.135 | 1.083 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.396 | 2.074 | 1.495 | 1.106 | 1.335 | 3.644 | 3.038 | 0.986 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.788 | 2.477 | 1.884 | 1.510 | 1.727 | 4.046 | 3.441 | 1.376 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 3.248 | 1.880 | 1.367 | 0.982 | 1.216 | 3.464 | 2.837 | 0.866 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.910 | 2.596 | 2.019 | 1.638 | 1.861 | 4.158 | 3.555 | 1.514 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.833 | 2.519 | 1.943 | 1.562 | 1.784 | 4.082 | 3.478 | 1.437 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.718 | 2.404 | 1.828 | 1.447 | 1.669 | 3.967 | 3.363 | 1.323 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.604 | 2.290 | 1.713 | 1.332 | 1.554 | 3.852 | 3.249 | 1.208 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.775 | 2.449 | 1.888 | 1.501 | 1.724 | 4.013 | 3.409 | 1.386 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.711 | 2.385 | 1.824 | 1.436 | 1.659 | 3.948 | 3.345 | 1.322 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.614 | 2.288 | 1.727 | 1.340 | 1.563 | 3.852 | 3.248 | 1.225 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.518 | 2.192 | 1.631 | 1.243 | 1.466 | 3.755 | 3.152 | 1.129 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.910 | 2.596 | 2.019 | 1.638 | 1.861 | 4.158 | 3.555 | 1.514 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.201 | 1.833 | 1.319 | 0.935 | 1.169 | 3.416 | 2.790 | 0.818 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.862 | 2.548 | 1.972 | 1.591 | 1.813 | 4.111 | 3.507 | 1.466 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.786 | 2.472 | 1.895 | 1.514 | 1.736 | 4.034 | 3.431 | 1.390 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.671 | 2.357 | 1.780 | 1.399 | 1.622 | 3.919 | 3.316 | 1.275 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.556 | 2.242 | 1.665 | 1.285 | 1.507 | 3.804 | 3.201 | 1.160 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.728 | 2.401 | 1.841 | 1.453 | 1.676 | 3.965 | 3.362 | 1.339 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.663 | 2.337 | 1.776 | 1.389 | 1.612 | 3.901 | 3.298 | 1.274 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.567 | 2.241 | 1.680 | 1.292 | 1.515 | 3.804 | 3.201 | 1.178 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.470 | 2.144 | 1.583 | 1.196 | 1.418 | 3.708 | 3.104 | 1.081 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.862 | 2.548 | 1.972 | 1.591 | 1.813 | 4.111 | 3.507 | 1.466 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 3.129 | 1.761 | 1.248 | 0.863 | 1.097 | 3.345 | 2.718 | 0.747 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.791 | 2.477 | 1.900 | 1.520 | 1.742 | 4.039 | 3.436 | 1.395 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.714 | 2.400 | 1.824 | 1.443 | 1.665 | 3.963 | 3.359 | 1.319 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.600 | 2.286 | 1.709 | 1.328 | 1.550 | 3.848 | 3.245 | 1.204 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.485 | 2.171 | 1.594 | 1.213 | 1.435 | 3.733 | 3.130 | 1.089 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.656 | 2.330 | 1.770 | 1.382 | 1.605 | 3.894 | 3.291 | 1.267 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.592 | 2.266 | 1.705 | 1.318 | 1.540 | 3.829 | 3.226 | 1.203 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.495 | 2.169 | 1.609 | 1.221 | 1.444 | 3.733 | 3.130 | 1.106 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.399 | 2.073 | 1.512 | 1.124 | 1.347 | 3.636 | 3.033 | 1.010 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.791 | 2.477 | 1.900 | 1.520 | 1.742 | 4.039 | 3.436 | 1.395 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.058 | 1.690 | 1.176 | 0.792 | 1.026 | 3.273 | 2.647 | 0.676 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.720 | 2.406 | 1.829 | 1.448 | 1.670 | 3.968 | 3.365 | 1.324 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.643 | 2.329 | 1.753 | 1.372 | 1.594 | 3.891 | 3.288 | 1.247 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.528 | 2.214 | 1.638 | 1.257 | 1.479 | 3.776 | 3.173 | 1.132 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.413 | 2.099 | 1.523 | 1.142 | 1.364 | 3.662 | 3.058 | 1.017 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.585 | 2.259 | 1.698 | 1.311 | 1.533 | 3.823 | 3.219 | 1.196 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.521 | 2.194 | 1.634 | 1.246 | 1.469 | 3.758 | 3.155 | 1.132 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.424 | 2.098 | 1.537 | 1.150 | 1.372 | 3.662 | 3.058 | 1.035 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.328 | 2.001 | 1.441 | 1.053 | 1.276 | 3.565 | 2.962 | 0.938 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.720 | 2.406 | 1.829 | 1.448 | 1.670 | 3.968 | 3.365 | 1.324 |

Table 4.3.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – other heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 4.102 | 3.121 | 2.416 | 2.128 | 2.274 | 3.931 | 3.497 | 1.923 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 4.839 | 3.887 | 3.179 | 2.907 | 3.035 | 4.668 | 4.252 | 2.699 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 4.774 | 3.821 | 3.113 | 2.842 | 2.970 | 4.603 | 4.186 | 2.633 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 4.675 | 3.723 | 3.015 | 2.743 | 2.872 | 4.504 | 4.088 | 2.535 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.577 | 3.625 | 2.917 | 2.645 | 2.773 | 4.406 | 3.990 | 2.437 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.697 | 3.738 | 3.031 | 2.758 | 2.887 | 4.520 | 4.103 | 2.551 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 4.642 | 3.683 | 2.977 | 2.703 | 2.832 | 4.465 | 4.049 | 2.497 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.561 | 3.601 | 2.895 | 2.621 | 2.751 | 4.384 | 3.967 | 2.415 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.479 | 3.520 | 2.813 | 2.540 | 2.669 | 4.302 | 3.885 | 2.334 |
| Electric - Resistance (Panel) | Other or none specified | 4.839 | 3.887 | 3.179 | 2.907 | 3.035 | 4.668 | 4.252 | 2.699 |
| Wood Heater | Evaporative | 3.100 | 2.060 | 1.454 | 1.156 | 1.306 | 2.842 | 2.427 | 0.981 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 3.841 | 2.858 | 2.204 | 1.933 | 2.060 | 3.629 | 3.220 | 1.744 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 3.775 | 2.793 | 2.138 | 1.867 | 1.995 | 3.563 | 3.155 | 1.678 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 3.677 | 2.694 | 2.040 | 1.769 | 1.897 | 3.465 | 3.056 | 1.580 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.579 | 2.596 | 1.942 | 1.671 | 1.798 | 3.367 | 2.958 | 1.482 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.697 | 2.707 | 2.059 | 1.782 | 1.918 | 3.477 | 3.068 | 1.589 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.643 | 2.653 | 2.005 | 1.727 | 1.863 | 3.423 | 3.013 | 1.535 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.561 | 2.571 | 1.923 | 1.645 | 1.782 | 3.341 | 2.932 | 1.453 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.479 | 2.489 | 1.841 | 1.564 | 1.700 | 3.259 | 2.850 | 1.372 |
| Wood Heater | Other or none specified | 3.841 | 2.858 | 2.204 | 1.933 | 2.060 | 3.629 | 3.220 | 1.744 |
| Electric - Resistance (Slab) | Evaporative | 3.602 | 2.609 | 1.926 | 1.636 | 1.782 | 3.415 | 2.985 | 1.431 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 4.351 | 3.400 | 2.696 | 2.429 | 2.550 | 4.184 | 3.767 | 2.220 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 4.286 | 3.335 | 2.630 | 2.363 | 2.485 | 4.119 | 3.702 | 2.154 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 4.188 | 3.236 | 2.532 | 2.265 | 2.387 | 4.021 | 3.604 | 2.056 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.090 | 3.138 | 2.434 | 2.167 | 2.288 | 3.922 | 3.505 | 1.958 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.205 | 3.249 | 2.549 | 2.274 | 2.402 | 4.034 | 3.615 | 2.068 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.151 | 3.194 | 2.494 | 2.220 | 2.347 | 3.979 | 3.561 | 2.013 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.069 | 3.113 | 2.413 | 2.138 | 2.265 | 3.898 | 3.479 | 1.931 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.987 | 3.031 | 2.331 | 2.056 | 2.184 | 3.816 | 3.397 | 1.850 |
| Electric - Resistance (Slab) | Other or none specified | 4.351 | 3.400 | 2.696 | 2.429 | 2.550 | 4.184 | 3.767 | 2.220 |
| Other or none specified | Evaporative | 2.950 | 1.894 | 1.333 | 1.029 | 1.192 | 2.650 | 2.245 | 0.857 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.510 | 2.497 | 1.897 | 1.597 | 1.748 | 3.252 | 2.848 | 1.422 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.444 | 2.431 | 1.831 | 1.532 | 1.683 | 3.186 | 2.783 | 1.356 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 3.346 | 2.333 | 1.733 | 1.433 | 1.585 | 3.088 | 2.685 | 1.258 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.248 | 2.235 | 1.635 | 1.335 | 1.487 | 2.990 | 2.586 | 1.160 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.398 | 2.373 | 1.782 | 1.476 | 1.629 | 3.130 | 2.727 | 1.313 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.343 | 2.319 | 1.727 | 1.422 | 1.575 | 3.075 | 2.673 | 1.258 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.261 | 2.237 | 1.645 | 1.340 | 1.493 | 2.994 | 2.591 | 1.177 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.180 | 2.155 | 1.564 | 1.258 | 1.412 | 2.912 | 2.510 | 1.095 |
| Other or none specified | Other or none specified | 3.510 | 2.497 | 1.897 | 1.597 | 1.748 | 3.252 | 2.848 | 1.422 |

Table 4.3.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – other heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 3.441 | 3.115 | 2.048 | 1.967 | 1.922 | 2.658 | 2.446 | 1.587 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 4.058 | 3.743 | 2.679 | 2.608 | 2.552 | 3.294 | 3.083 | 2.224 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 4.003 | 3.689 | 2.625 | 2.554 | 2.498 | 3.240 | 3.029 | 2.170 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 3.922 | 3.607 | 2.544 | 2.473 | 2.416 | 3.159 | 2.947 | 2.089 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.841 | 3.526 | 2.462 | 2.391 | 2.335 | 3.077 | 2.866 | 2.007 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.941 | 3.621 | 2.560 | 2.487 | 2.432 | 3.173 | 2.961 | 2.100 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 3.896 | 3.576 | 2.515 | 2.442 | 2.387 | 3.128 | 2.916 | 2.055 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.828 | 3.509 | 2.447 | 2.374 | 2.319 | 3.060 | 2.848 | 1.988 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.761 | 3.441 | 2.380 | 2.307 | 2.252 | 2.993 | 2.781 | 1.920 |
| Electric - Resistance (Panel) | Other or none specified | 4.058 | 3.743 | 2.679 | 2.608 | 2.552 | 3.294 | 3.083 | 2.224 |
| Wood Heater | Evaporative | 2.684 | 2.310 | 1.312 | 1.207 | 1.182 | 1.865 | 1.661 | 0.857 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 3.299 | 2.957 | 1.939 | 1.854 | 1.809 | 2.516 | 2.309 | 1.488 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 3.245 | 2.903 | 1.885 | 1.799 | 1.755 | 2.462 | 2.255 | 1.433 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 3.163 | 2.822 | 1.803 | 1.718 | 1.673 | 2.380 | 2.173 | 1.352 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.082 | 2.740 | 1.722 | 1.637 | 1.592 | 2.299 | 2.092 | 1.271 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.183 | 2.833 | 1.820 | 1.729 | 1.687 | 2.392 | 2.183 | 1.365 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.138 | 2.788 | 1.775 | 1.684 | 1.642 | 2.346 | 2.138 | 1.319 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.070 | 2.720 | 1.708 | 1.616 | 1.575 | 2.279 | 2.070 | 1.252 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.003 | 2.653 | 1.640 | 1.549 | 1.507 | 2.211 | 2.003 | 1.184 |
| Wood Heater | Other or none specified | 3.299 | 2.957 | 1.939 | 1.854 | 1.809 | 2.516 | 2.309 | 1.488 |
| Electric - Resistance (Slab) | Evaporative | 3.556 | 3.261 | 2.158 | 2.088 | 2.028 | 2.795 | 2.576 | 1.698 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 4.176 | 3.892 | 2.796 | 2.737 | 2.667 | 3.436 | 3.221 | 2.346 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 4.122 | 3.837 | 2.742 | 2.682 | 2.613 | 3.382 | 3.166 | 2.291 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 4.040 | 3.756 | 2.660 | 2.601 | 2.531 | 3.300 | 3.085 | 2.210 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.959 | 3.675 | 2.579 | 2.520 | 2.450 | 3.219 | 3.004 | 2.129 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.058 | 3.769 | 2.675 | 2.614 | 2.546 | 3.314 | 3.098 | 2.220 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.013 | 3.724 | 2.630 | 2.569 | 2.501 | 3.269 | 3.053 | 2.175 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.946 | 3.657 | 2.563 | 2.502 | 2.434 | 3.201 | 2.985 | 2.108 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.878 | 3.589 | 2.495 | 2.434 | 2.366 | 3.134 | 2.918 | 2.040 |
| Electric - Resistance (Slab) | Other or none specified | 4.176 | 3.892 | 2.796 | 2.737 | 2.667 | 3.436 | 3.221 | 2.346 |
| Other or none specified | Evaporative | 2.559 | 2.156 | 1.204 | 1.086 | 1.070 | 1.723 | 1.521 | 0.739 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.025 | 2.653 | 1.671 | 1.566 | 1.533 | 2.214 | 2.015 | 1.227 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 2.971 | 2.599 | 1.616 | 1.511 | 1.479 | 2.159 | 1.961 | 1.172 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 2.889 | 2.517 | 1.535 | 1.430 | 1.398 | 2.078 | 1.879 | 1.091 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.808 | 2.436 | 1.454 | 1.349 | 1.316 | 1.997 | 1.798 | 1.010 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.930 | 2.554 | 1.573 | 1.463 | 1.435 | 2.114 | 1.917 | 1.132 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.885 | 2.509 | 1.527 | 1.418 | 1.390 | 2.069 | 1.872 | 1.087 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.817 | 2.441 | 1.460 | 1.350 | 1.323 | 2.001 | 1.804 | 1.020 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.750 | 2.374 | 1.392 | 1.283 | 1.255 | 1.933 | 1.736 | 0.952 |
| Other or none specified | Other or none specified | 3.025 | 2.653 | 1.671 | 1.566 | 1.533 | 2.214 | 2.015 | 1.227 |

Table 4.3.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – other heating – South Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 4.355 | 3.573 | 2.549 | 2.327 | 2.405 | 4.138 | 3.681 | 2.019 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 5.135 | 4.377 | 3.365 | 3.160 | 3.219 | 4.916 | 4.481 | 2.849 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 5.066 | 4.308 | 3.295 | 3.090 | 3.149 | 4.847 | 4.412 | 2.780 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 4.962 | 4.203 | 3.191 | 2.986 | 3.045 | 4.742 | 4.308 | 2.675 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.857 | 4.099 | 3.087 | 2.882 | 2.941 | 4.638 | 4.203 | 2.571 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.981 | 4.216 | 3.208 | 2.999 | 3.061 | 4.757 | 4.321 | 2.692 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 4.923 | 4.159 | 3.151 | 2.941 | 3.003 | 4.700 | 4.263 | 2.634 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.837 | 4.072 | 3.065 | 2.855 | 2.917 | 4.613 | 4.177 | 2.548 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.750 | 3.986 | 2.978 | 2.768 | 2.830 | 4.527 | 4.091 | 2.462 |
| Electric - Resistance (Panel) | Other or none specified | 5.135 | 4.377 | 3.365 | 3.160 | 3.219 | 4.916 | 4.481 | 2.849 |
| Wood Heater | Evaporative | 3.092 | 2.221 | 1.361 | 1.111 | 1.216 | 2.753 | 2.326 | 0.862 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 3.880 | 3.076 | 2.153 | 1.934 | 2.007 | 3.601 | 3.177 | 1.664 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 3.811 | 3.006 | 2.083 | 1.864 | 1.937 | 3.532 | 3.108 | 1.594 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 3.706 | 2.902 | 1.979 | 1.760 | 1.833 | 3.428 | 3.004 | 1.490 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.602 | 2.798 | 1.875 | 1.656 | 1.729 | 3.323 | 2.900 | 1.386 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.727 | 2.910 | 2.002 | 1.772 | 1.854 | 3.439 | 3.013 | 1.496 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.670 | 2.852 | 1.945 | 1.714 | 1.796 | 3.381 | 2.955 | 1.439 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.583 | 2.766 | 1.858 | 1.628 | 1.710 | 3.295 | 2.869 | 1.352 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.497 | 2.680 | 1.772 | 1.542 | 1.624 | 3.208 | 2.782 | 1.266 |
| Wood Heater | Other or none specified | 3.880 | 3.076 | 2.153 | 1.934 | 2.007 | 3.601 | 3.177 | 1.664 |
| Electric - Resistance (Slab) | Evaporative | 4.000 | 3.227 | 2.201 | 1.975 | 2.046 | 3.796 | 3.333 | 1.678 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 4.800 | 4.057 | 3.031 | 2.828 | 2.874 | 4.602 | 4.161 | 2.524 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 4.730 | 3.988 | 2.961 | 2.758 | 2.805 | 4.533 | 4.091 | 2.454 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 4.626 | 3.884 | 2.857 | 2.654 | 2.701 | 4.429 | 3.987 | 2.350 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.522 | 3.779 | 2.753 | 2.550 | 2.596 | 4.324 | 3.883 | 2.246 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.645 | 3.895 | 2.868 | 2.666 | 2.717 | 4.440 | 3.998 | 2.359 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.587 | 3.837 | 2.810 | 2.608 | 2.659 | 4.383 | 3.941 | 2.301 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.501 | 3.751 | 2.724 | 2.522 | 2.573 | 4.296 | 3.855 | 2.215 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.414 | 3.665 | 2.637 | 2.436 | 2.486 | 4.210 | 3.768 | 2.129 |
| Electric - Resistance (Slab) | Other or none specified | 4.800 | 4.057 | 3.031 | 2.828 | 2.874 | 4.602 | 4.161 | 2.524 |
| Other or none specified | Evaporative | 3.095 | 2.206 | 1.377 | 1.123 | 1.233 | 2.732 | 2.311 | 0.877 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.690 | 2.855 | 1.977 | 1.734 | 1.826 | 3.377 | 2.954 | 1.471 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.621 | 2.785 | 1.908 | 1.665 | 1.757 | 3.307 | 2.885 | 1.402 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 3.517 | 2.681 | 1.803 | 1.561 | 1.653 | 3.203 | 2.781 | 1.298 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.412 | 2.577 | 1.699 | 1.457 | 1.549 | 3.099 | 2.676 | 1.193 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.568 | 2.724 | 1.856 | 1.602 | 1.701 | 3.246 | 2.825 | 1.355 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.511 | 2.667 | 1.799 | 1.544 | 1.643 | 3.188 | 2.768 | 1.298 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.425 | 2.580 | 1.712 | 1.458 | 1.557 | 3.102 | 2.681 | 1.212 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.338 | 2.494 | 1.626 | 1.371 | 1.470 | 3.016 | 2.595 | 1.125 |
| Other or none specified | Other or none specified | 3.690 | 2.855 | 1.977 | 1.734 | 1.826 | 3.377 | 2.954 | 1.471 |

Table 4.3.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 4 – other heating – Western Australia

| Main type of heater | Main type of cooler | Electric Storage (peak) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 4.830 | 3.543 | 2.799 | 2.430 | 2.646 | 5.285 | 4.613 | 2.271 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 5.679 | 4.441 | 3.708 | 3.355 | 3.551 | 6.075 | 5.449 | 3.195 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 5.603 | 4.364 | 3.632 | 3.278 | 3.474 | 5.999 | 5.373 | 3.119 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 5.488 | 4.249 | 3.517 | 3.163 | 3.360 | 5.884 | 5.258 | 3.004 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.373 | 4.134 | 3.402 | 3.048 | 3.245 | 5.769 | 5.143 | 2.889 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 5.509 | 4.261 | 3.532 | 3.177 | 3.377 | 5.903 | 5.273 | 3.017 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 5.445 | 4.197 | 3.468 | 3.113 | 3.313 | 5.838 | 5.209 | 2.952 |

| Main type of heater | Main type of cooler | Electric Storage (peak) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.348 | 4.100 | 3.371 | 3.016 | 3.216 | 5.742 | 5.112 | 2.856 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.251 | 4.004 | 3.275 | 2.919 | 3.120 | 5.645 | 5.016 | 2.759 |
| Electric - Resistance (Panel) | Other or none specified | 5.679 | 4.441 | 3.708 | 3.355 | 3.551 | 6.075 | 5.449 | 3.195 |
| Wood Heater | Evaporative | 3.518 | 2.177 | 1.592 | 1.201 | 1.419 | 3.836 | 3.187 | 1.081 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 4.404 | 3.133 | 2.477 | 2.114 | 2.310 | 4.734 | 4.119 | 1.977 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 4.327 | 3.056 | 2.400 | 2.038 | 2.234 | 4.657 | 4.042 | 1.900 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 4.212 | 2.941 | 2.285 | 1.923 | 2.119 | 4.543 | 3.928 | 1.785 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.097 | 2.826 | 2.170 | 1.808 | 2.004 | 4.428 | 3.813 | 1.670 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.232 | 2.948 | 2.299 | 1.937 | 2.138 | 4.553 | 3.937 | 1.800 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.168 | 2.884 | 2.235 | 1.873 | 2.073 | 4.488 | 3.873 | 1.736 |

| Main type of heater | Main type of cooler | Electric Storage (peak) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.071 | 2.787 | 2.139 | 1.777 | 1.977 | 4.392 | 3.776 | 1.639 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.975 | 2.690 | 2.042 | 1.680 | 1.880 | 4.295 | 3.679 | 1.543 |
| Wood Heater | Other or none specified | 4.404 | 3.133 | 2.477 | 2.114 | 2.310 | 4.734 | 4.119 | 1.977 |
| Electric - Resistance (Slab) | Evaporative | 3.996 | 2.684 | 2.007 | 1.626 | 1.851 | 4.403 | 3.736 | 1.478 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 4.882 | 3.634 | 2.919 | 2.569 | 2.758 | 5.265 | 4.640 | 2.415 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 4.805 | 3.557 | 2.843 | 2.493 | 2.681 | 5.188 | 4.563 | 2.338 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 4.690 | 3.442 | 2.728 | 2.378 | 2.566 | 5.073 | 4.449 | 2.224 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.575 | 3.327 | 2.613 | 2.263 | 2.452 | 4.958 | 4.334 | 2.109 |

| Main type of heater | Main type of cooler | Electric Storage (peak) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------------|---|-------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.709 | 3.452 | 2.745 | 2.386 | 2.583 | 5.085 | 4.459 | 2.230 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.645 | 3.388 | 2.681 | 2.322 | 2.519 | 5.020 | 4.394 | 2.165 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.548 | 3.291 | 2.584 | 2.225 | 2.422 | 4.924 | 4.298 | 2.069 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.452 | 3.195 | 2.488 | 2.128 | 2.326 | 4.827 | 4.201 | 1.972 |
| Electric - Resistance (Slab) | Other or none specified | 4.882 | 3.634 | 2.919 | 2.569 | 2.758 | 5.265 | 4.640 | 2.415 |
| Other or none specified | Evaporative | 3.354 | 1.990 | 1.455 | 1.077 | 1.304 | 3.590 | 2.961 | 0.960 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 4.019 | 2.709 | 2.115 | 1.741 | 1.959 | 4.278 | 3.672 | 1.607 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.942 | 2.632 | 2.039 | 1.665 | 1.882 | 4.201 | 3.595 | 1.531 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 3.827 | 2.517 | 1.924 | 1.550 | 1.767 | 4.086 | 3.480 | 1.416 |

| Main type of heater | Main type of cooler | Electric Storage (peak) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.712 | 2.402 | 1.809 | 1.435 | 1.652 | 3.971 | 3.366 | 1.301 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.885 | 2.563 | 1.984 | 1.595 | 1.823 | 4.133 | 3.527 | 1.475 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.820 | 2.499 | 1.920 | 1.531 | 1.759 | 4.069 | 3.463 | 1.411 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.724 | 2.402 | 1.823 | 1.434 | 1.663 | 3.972 | 3.366 | 1.314 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.627 | 2.306 | 1.727 | 1.337 | 1.566 | 3.875 | 3.270 | 1.217 |
| Other or none specified | Other or none specified | 4.019 | 2.709 | 2.115 | 1.741 | 1.959 | 4.278 | 3.672 | 1.607 |

2.4.5 Climate zone 5

Table 5.1.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – gas heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 4.040 | 2.927 | 2.138 | 1.812 | 1.963 | 3.860 | 3.355 | 1.575 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.373 | 3.287 | 2.485 | 2.165 | 2.302 | 4.212 | 3.711 | 1.940 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.334 | 3.248 | 2.446 | 2.126 | 2.262 | 4.173 | 3.672 | 1.900 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.275 | 3.189 | 2.387 | 2.068 | 2.204 | 4.114 | 3.613 | 1.842 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.216 | 3.131 | 2.329 | 2.009 | 2.145 | 4.055 | 3.554 | 1.783 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 4.305 | 3.215 | 2.414 | 2.094 | 2.228 | 4.140 | 3.638 | 1.866 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.272 | 3.183 | 2.381 | 2.062 | 2.196 | 4.107 | 3.606 | 1.833 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.223 | 3.134 | 2.332 | 2.013 | 2.147 | 4.058 | 3.557 | 1.784 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.175 | 3.085 | 2.283 | 1.964 | 2.098 | 4.009 | 3.508 | 1.735 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Other or none specified | 4.373 | 3.287 | 2.485 | 2.165 | 2.302 | 4.212 | 3.711 | 1.940 |
| Gas – ducted < 4.5 Stars | Evaporative | 3.908 | 2.795 | 2.005 | 1.680 | 1.831 | 3.727 | 3.223 | 1.443 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.240 | 3.155 | 2.353 | 2.033 | 2.169 | 4.079 | 3.578 | 1.807 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.201 | 3.115 | 2.313 | 1.994 | 2.130 | 4.040 | 3.539 | 1.768 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.142 | 3.057 | 2.255 | 1.935 | 2.071 | 3.981 | 3.480 | 1.709 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.084 | 2.998 | 2.196 | 1.877 | 2.013 | 3.923 | 3.422 | 1.651 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.172 | 3.083 | 2.281 | 1.962 | 2.096 | 4.007 | 3.506 | 1.733 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.140 | 3.050 | 2.249 | 1.929 | 2.063 | 3.975 | 3.473 | 1.701 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.091 | 3.001 | 2.200 | 1.880 | 2.014 | 3.926 | 3.424 | 1.652 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.042 | 2.952 | 2.151 | 1.832 | 1.966 | 3.877 | 3.375 | 1.603 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Other or none specified | 4.240 | 3.155 | 2.353 | 2.033 | 2.169 | 4.079 | 3.578 | 1.807 |
| Gas – ducted < 6 Stars | Evaporative | 3.709 | 2.596 | 1.807 | 1.481 | 1.632 | 3.528 | 3.024 | 1.244 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.041 | 2.956 | 2.154 | 1.834 | 1.970 | 3.880 | 3.379 | 1.608 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.002 | 2.917 | 2.115 | 1.795 | 1.931 | 3.841 | 3.340 | 1.569 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.944 | 2.858 | 2.056 | 1.736 | 1.873 | 3.783 | 3.282 | 1.511 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.885 | 2.799 | 1.997 | 1.678 | 1.814 | 3.724 | 3.223 | 1.452 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.974 | 2.884 | 2.083 | 1.763 | 1.897 | 3.809 | 3.307 | 1.534 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.941 | 2.851 | 2.050 | 1.731 | 1.865 | 3.776 | 3.274 | 1.502 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.892 | 2.802 | 2.001 | 1.682 | 1.816 | 3.727 | 3.225 | 1.453 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.843 | 2.754 | 1.952 | 1.633 | 1.767 | 3.678 | 3.177 | 1.404 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Other or none specified | 4.041 | 2.956 | 2.154 | 1.834 | 1.970 | 3.880 | 3.379 | 1.608 |
| Gas – ducted ≥ 6 Stars | Evaporative | 3.510 | 2.397 | 1.608 | 1.282 | 1.433 | 3.330 | 2.825 | 1.045 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.843 | 2.757 | 1.955 | 1.635 | 1.772 | 3.682 | 3.181 | 1.410 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.803 | 2.718 | 1.916 | 1.596 | 1.732 | 3.642 | 3.142 | 1.370 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.745 | 2.659 | 1.857 | 1.538 | 1.674 | 3.584 | 3.083 | 1.312 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.686 | 2.601 | 1.799 | 1.479 | 1.615 | 3.525 | 3.024 | 1.253 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.775 | 2.685 | 1.884 | 1.564 | 1.698 | 3.610 | 3.108 | 1.336 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.742 | 2.653 | 1.851 | 1.532 | 1.666 | 3.577 | 3.076 | 1.303 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.693 | 2.604 | 1.802 | 1.483 | 1.617 | 3.528 | 3.027 | 1.254 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.645 | 2.555 | 1.753 | 1.434 | 1.568 | 3.479 | 2.978 | 1.205 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Other or none specified | 3.843 | 2.757 | 1.955 | 1.635 | 1.772 | 3.682 | 3.181 | 1.410 |
| Gas - non ducted < 3 Stars | Evaporative | 3.701 | 2.567 | 1.820 | 1.471 | 1.636 | 3.483 | 2.986 | 1.266 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.033 | 2.923 | 2.153 | 1.839 | 1.980 | 3.840 | 3.344 | 1.614 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.994 | 2.884 | 2.114 | 1.800 | 1.941 | 3.801 | 3.305 | 1.575 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.936 | 2.825 | 2.055 | 1.741 | 1.883 | 3.743 | 3.247 | 1.516 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.877 | 2.766 | 1.996 | 1.683 | 1.824 | 3.684 | 3.188 | 1.457 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.967 | 2.850 | 2.086 | 1.764 | 1.911 | 3.768 | 3.273 | 1.536 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.934 | 2.817 | 2.054 | 1.732 | 1.878 | 3.735 | 3.240 | 1.504 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.886 | 2.769 | 2.005 | 1.683 | 1.829 | 3.686 | 3.191 | 1.455 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.837 | 2.720 | 1.956 | 1.634 | 1.780 | 3.638 | 3.142 | 1.406 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Other or none specified | 4.033 | 2.923 | 2.153 | 1.839 | 1.980 | 3.840 | 3.344 | 1.614 |
| Gas - non ducted < 4.5 Stars | Evaporative | 3.633 | 2.500 | 1.753 | 1.403 | 1.568 | 3.415 | 2.919 | 1.198 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.966 | 2.855 | 2.085 | 1.772 | 1.913 | 3.773 | 3.277 | 1.546 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.927 | 2.816 | 2.046 | 1.732 | 1.874 | 3.734 | 3.238 | 1.507 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.868 | 2.757 | 1.987 | 1.674 | 1.815 | 3.675 | 3.179 | 1.448 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.809 | 2.699 | 1.929 | 1.615 | 1.757 | 3.616 | 3.120 | 1.390 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.900 | 2.783 | 2.019 | 1.697 | 1.843 | 3.700 | 3.205 | 1.469 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.867 | 2.750 | 1.986 | 1.664 | 1.811 | 3.668 | 3.173 | 1.436 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.818 | 2.701 | 1.937 | 1.615 | 1.762 | 3.619 | 3.124 | 1.387 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.769 | 2.652 | 1.888 | 1.566 | 1.713 | 3.570 | 3.075 | 1.338 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 3.966 | 2.855 | 2.085 | 1.772 | 1.913 | 3.773 | 3.277 | 1.546 |
| Gas - non ducted < 6 Stars | Evaporative | 3.532 | 2.398 | 1.651 | 1.302 | 1.467 | 3.314 | 2.817 | 1.097 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.864 | 2.754 | 1.984 | 1.670 | 1.812 | 3.671 | 3.176 | 1.445 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.825 | 2.715 | 1.945 | 1.631 | 1.772 | 3.632 | 3.136 | 1.406 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.767 | 2.656 | 1.886 | 1.573 | 1.714 | 3.574 | 3.078 | 1.347 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.708 | 2.598 | 1.827 | 1.514 | 1.655 | 3.515 | 3.019 | 1.289 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.798 | 2.681 | 1.917 | 1.596 | 1.742 | 3.599 | 3.104 | 1.367 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.766 | 2.649 | 1.885 | 1.563 | 1.709 | 3.567 | 3.071 | 1.335 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.717 | 2.600 | 1.836 | 1.514 | 1.661 | 3.518 | 3.022 | 1.286 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.668 | 2.551 | 1.787 | 1.465 | 1.612 | 3.469 | 2.974 | 1.237 |
| Gas - non ducted < 6 Stars | Other or none specified | 3.864 | 2.754 | 1.984 | 1.670 | 1.812 | 3.671 | 3.176 | 1.445 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 3.431 | 2.297 | 1.550 | 1.200 | 1.366 | 3.213 | 2.716 | 0.995 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.763 | 2.653 | 1.883 | 1.569 | 1.710 | 3.570 | 3.074 | 1.344 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.724 | 2.613 | 1.843 | 1.530 | 1.671 | 3.531 | 3.035 | 1.305 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.665 | 2.555 | 1.785 | 1.471 | 1.613 | 3.472 | 2.976 | 1.246 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.607 | 2.496 | 1.726 | 1.413 | 1.554 | 3.414 | 2.918 | 1.187 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.697 | 2.580 | 1.816 | 1.494 | 1.641 | 3.498 | 3.003 | 1.266 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.664 | 2.547 | 1.784 | 1.462 | 1.608 | 3.465 | 2.970 | 1.234 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.615 | 2.498 | 1.735 | 1.413 | 1.559 | 3.416 | 2.921 | 1.185 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.567 | 2.450 | 1.686 | 1.364 | 1.510 | 3.367 | 2.872 | 1.136 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 3.763 | 2.653 | 1.883 | 1.569 | 1.710 | 3.570 | 3.074 | 1.344 |

Table 5.1.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – gas heating – Queensland

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 4.271 | 3.841 | 2.650 | 2.541 | 2.492 | 5.519 | 4.803 | 2.299 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.567 | 4.145 | 2.950 | 2.848 | 2.794 | 5.807 | 5.099 | 2.611 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.533 | 4.111 | 2.915 | 2.813 | 2.760 | 5.772 | 5.064 | 2.576 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.481 | 4.059 | 2.863 | 2.761 | 2.708 | 5.720 | 5.012 | 2.524 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.429 | 4.007 | 2.811 | 2.709 | 2.656 | 5.668 | 4.960 | 2.472 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 4.509 | 4.084 | 2.889 | 2.787 | 2.734 | 5.747 | 5.038 | 2.549 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.479 | 4.055 | 2.860 | 2.758 | 2.705 | 5.718 | 5.009 | 2.519 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.436 | 4.011 | 2.817 | 2.714 | 2.662 | 5.674 | 4.965 | 2.476 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.392 | 3.968 | 2.773 | 2.671 | 2.618 | 5.630 | 4.922 | 2.432 |
| Gas – ducted < 3 Stars | Other or none specified | 4.567 | 4.145 | 2.950 | 2.848 | 2.794 | 5.807 | 5.099 | 2.611 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 4.086 | 3.656 | 2.465 | 2.356 | 2.308 | 5.334 | 4.618 | 2.114 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.382 | 3.961 | 2.765 | 2.663 | 2.609 | 5.622 | 4.914 | 2.426 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.348 | 3.926 | 2.730 | 2.628 | 2.575 | 5.587 | 4.879 | 2.391 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.296 | 3.874 | 2.678 | 2.576 | 2.523 | 5.535 | 4.827 | 2.339 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.244 | 3.822 | 2.626 | 2.524 | 2.471 | 5.483 | 4.775 | 2.287 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.324 | 3.899 | 2.705 | 2.602 | 2.549 | 5.562 | 4.853 | 2.364 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.295 | 3.870 | 2.675 | 2.573 | 2.520 | 5.533 | 4.824 | 2.335 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.251 | 3.826 | 2.632 | 2.529 | 2.477 | 5.489 | 4.780 | 2.291 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.207 | 3.783 | 2.588 | 2.486 | 2.433 | 5.445 | 4.737 | 2.247 |
| Gas – ducted < 4.5 Stars | Other or none specified | 4.382 | 3.961 | 2.765 | 2.663 | 2.609 | 5.622 | 4.914 | 2.426 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 3.809 | 3.379 | 2.188 | 2.078 | 2.030 | 5.056 | 4.341 | 1.837 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.105 | 3.683 | 2.488 | 2.386 | 2.332 | 5.344 | 4.637 | 2.149 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.070 | 3.648 | 2.453 | 2.351 | 2.297 | 5.310 | 4.602 | 2.114 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.018 | 3.596 | 2.401 | 2.299 | 2.245 | 5.258 | 4.550 | 2.062 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.966 | 3.544 | 2.349 | 2.247 | 2.193 | 5.206 | 4.498 | 2.010 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.046 | 3.622 | 2.427 | 2.325 | 2.272 | 5.284 | 4.576 | 2.086 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.017 | 3.593 | 2.398 | 2.296 | 2.243 | 5.255 | 4.547 | 2.057 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.973 | 3.549 | 2.354 | 2.252 | 2.199 | 5.212 | 4.503 | 2.013 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.930 | 3.505 | 2.311 | 2.208 | 2.155 | 5.168 | 4.459 | 1.970 |
| Gas – ducted < 6 Stars | Other or none specified | 4.105 | 3.683 | 2.488 | 2.386 | 2.332 | 5.344 | 4.637 | 2.149 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 3.532 | 3.101 | 1.911 | 1.801 | 1.753 | 4.779 | 4.063 | 1.560 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.828 | 3.406 | 2.210 | 2.108 | 2.054 | 5.067 | 4.359 | 1.871 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.793 | 3.371 | 2.175 | 2.074 | 2.020 | 5.032 | 4.325 | 1.837 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.741 | 3.319 | 2.123 | 2.022 | 1.968 | 4.980 | 4.273 | 1.785 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.689 | 3.267 | 2.071 | 1.970 | 1.916 | 4.928 | 4.221 | 1.733 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.769 | 3.344 | 2.150 | 2.047 | 1.995 | 5.007 | 4.298 | 1.809 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.740 | 3.315 | 2.121 | 2.018 | 1.965 | 4.978 | 4.269 | 1.780 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.696 | 3.272 | 2.077 | 1.975 | 1.922 | 4.934 | 4.225 | 1.736 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.652 | 3.228 | 2.033 | 1.931 | 1.878 | 4.891 | 4.182 | 1.692 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 3.828 | 3.406 | 2.210 | 2.108 | 2.054 | 5.067 | 4.359 | 1.871 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 3.829 | 3.369 | 2.207 | 2.085 | 2.049 | 5.037 | 4.324 | 1.854 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.122 | 3.676 | 2.513 | 2.396 | 2.351 | 5.330 | 4.625 | 2.160 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.088 | 3.641 | 2.478 | 2.362 | 2.317 | 5.295 | 4.590 | 2.126 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.036 | 3.589 | 2.426 | 2.310 | 2.265 | 5.243 | 4.538 | 2.074 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.984 | 3.537 | 2.374 | 2.258 | 2.213 | 5.191 | 4.486 | 2.022 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.065 | 3.614 | 2.451 | 2.333 | 2.289 | 5.269 | 4.564 | 2.099 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.035 | 3.585 | 2.422 | 2.304 | 2.260 | 5.240 | 4.535 | 2.069 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.992 | 3.541 | 2.379 | 2.260 | 2.216 | 5.197 | 4.491 | 2.026 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.948 | 3.498 | 2.335 | 2.217 | 2.173 | 5.153 | 4.447 | 1.982 |
| Gas - non ducted < 3 Stars | Other or none specified | 4.122 | 3.676 | 2.513 | 2.396 | 2.351 | 5.330 | 4.625 | 2.160 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 3.733 | 3.273 | 2.110 | 1.988 | 1.952 | 4.941 | 4.228 | 1.758 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.026 | 3.579 | 2.416 | 2.300 | 2.255 | 5.233 | 4.528 | 2.064 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.991 | 3.545 | 2.381 | 2.265 | 2.220 | 5.199 | 4.494 | 2.029 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.939 | 3.493 | 2.329 | 2.213 | 2.168 | 5.147 | 4.442 | 1.977 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.887 | 3.441 | 2.277 | 2.161 | 2.116 | 5.095 | 4.390 | 1.925 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.968 | 3.518 | 2.355 | 2.236 | 2.192 | 5.173 | 4.467 | 2.002 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.939 | 3.489 | 2.326 | 2.207 | 2.163 | 5.144 | 4.438 | 1.973 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.895 | 3.445 | 2.282 | 2.164 | 2.120 | 5.100 | 4.394 | 1.929 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.852 | 3.401 | 2.239 | 2.120 | 2.076 | 5.056 | 4.351 | 1.886 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 4.026 | 3.579 | 2.416 | 2.300 | 2.255 | 5.233 | 4.528 | 2.064 |
| Gas - non ducted < 6 Stars | Evaporative | 3.588 | 3.128 | 1.966 | 1.843 | 1.807 | 4.796 | 4.083 | 1.613 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.881 | 3.434 | 2.271 | 2.155 | 2.110 | 5.089 | 4.384 | 1.919 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.846 | 3.400 | 2.237 | 2.120 | 2.075 | 5.054 | 4.349 | 1.884 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.794 | 3.348 | 2.185 | 2.068 | 2.023 | 5.002 | 4.297 | 1.832 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.742 | 3.296 | 2.133 | 2.016 | 1.971 | 4.950 | 4.245 | 1.780 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.823 | 3.373 | 2.210 | 2.092 | 2.048 | 5.028 | 4.322 | 1.857 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.794 | 3.344 | 2.181 | 2.062 | 2.019 | 4.999 | 4.293 | 1.828 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.750 | 3.300 | 2.137 | 2.019 | 1.975 | 4.955 | 4.250 | 1.784 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.707 | 3.256 | 2.094 | 1.975 | 1.931 | 4.912 | 4.206 | 1.741 |
| Gas - non ducted < 6 Stars | Other or none specified | 3.881 | 3.434 | 2.271 | 2.155 | 2.110 | 5.089 | 4.384 | 1.919 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 3.443 | 2.983 | 1.821 | 1.699 | 1.662 | 4.651 | 3.938 | 1.468 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.736 | 3.290 | 2.126 | 2.010 | 1.965 | 4.944 | 4.239 | 1.774 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.702 | 3.255 | 2.092 | 1.975 | 1.930 | 4.909 | 4.204 | 1.739 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.650 | 3.203 | 2.040 | 1.923 | 1.878 | 4.857 | 4.152 | 1.688 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.598 | 3.151 | 1.988 | 1.871 | 1.826 | 4.805 | 4.100 | 1.636 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.678 | 3.228 | 2.065 | 1.947 | 1.903 | 4.883 | 4.177 | 1.712 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.649 | 3.199 | 2.036 | 1.918 | 1.874 | 4.854 | 4.148 | 1.683 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.605 | 3.155 | 1.992 | 1.874 | 1.830 | 4.810 | 4.105 | 1.640 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.562 | 3.112 | 1.949 | 1.830 | 1.786 | 4.767 | 4.061 | 1.596 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 3.736 | 3.290 | 2.126 | 2.010 | 1.965 | 4.944 | 4.239 | 1.774 |

Table 5.1.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – gas heating – South Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 4.023 | 3.196 | 2.061 | 1.815 | 1.911 | 3.840 | 3.327 | 1.482 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.469 | 3.662 | 2.542 | 2.308 | 2.383 | 4.296 | 3.794 | 1.993 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.415 | 3.608 | 2.488 | 2.255 | 2.329 | 4.243 | 3.741 | 1.939 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.334 | 3.528 | 2.407 | 2.174 | 2.249 | 4.162 | 3.660 | 1.859 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.254 | 3.447 | 2.327 | 2.094 | 2.169 | 4.082 | 3.580 | 1.778 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 4.375 | 3.565 | 2.441 | 2.203 | 2.280 | 4.202 | 3.697 | 1.888 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.331 | 3.521 | 2.396 | 2.159 | 2.236 | 4.158 | 3.653 | 1.844 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.265 | 3.455 | 2.330 | 2.093 | 2.169 | 4.092 | 3.587 | 1.778 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.199 | 3.389 | 2.264 | 2.026 | 2.103 | 4.026 | 3.521 | 1.712 |
| Gas – ducted < 3 Stars | Other or none specified | 4.469 | 3.662 | 2.542 | 2.308 | 2.383 | 4.296 | 3.794 | 1.993 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 3.892 | 3.064 | 1.930 | 1.683 | 1.780 | 3.708 | 3.195 | 1.350 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.337 | 3.530 | 2.410 | 2.177 | 2.251 | 4.164 | 3.663 | 1.861 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.283 | 3.477 | 2.356 | 2.123 | 2.198 | 4.111 | 3.609 | 1.808 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.203 | 3.396 | 2.276 | 2.043 | 2.117 | 4.030 | 3.529 | 1.727 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.122 | 3.316 | 2.195 | 1.962 | 2.037 | 3.950 | 3.448 | 1.647 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.243 | 3.433 | 2.309 | 2.071 | 2.148 | 4.071 | 3.565 | 1.756 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.199 | 3.389 | 2.265 | 2.027 | 2.104 | 4.027 | 3.521 | 1.712 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.133 | 3.323 | 2.199 | 1.961 | 2.038 | 3.960 | 3.455 | 1.646 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.067 | 3.257 | 2.132 | 1.895 | 1.972 | 3.894 | 3.389 | 1.580 |
| Gas – ducted < 4.5 Stars | Other or none specified | 4.337 | 3.530 | 2.410 | 2.177 | 2.251 | 4.164 | 3.663 | 1.861 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 3.694 | 2.866 | 1.732 | 1.486 | 1.582 | 3.511 | 2.997 | 1.153 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.139 | 3.333 | 2.212 | 1.979 | 2.054 | 3.967 | 3.465 | 1.664 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.086 | 3.279 | 2.159 | 1.925 | 2.000 | 3.913 | 3.411 | 1.610 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.005 | 3.199 | 2.078 | 1.845 | 1.920 | 3.833 | 3.331 | 1.530 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.925 | 3.118 | 1.998 | 1.765 | 1.839 | 3.752 | 3.251 | 1.449 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.046 | 3.236 | 2.111 | 1.873 | 1.950 | 3.873 | 3.368 | 1.559 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.002 | 3.192 | 2.067 | 1.829 | 1.906 | 3.829 | 3.323 | 1.515 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.936 | 3.126 | 2.001 | 1.763 | 1.840 | 3.763 | 3.257 | 1.448 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.869 | 3.059 | 1.935 | 1.697 | 1.774 | 3.697 | 3.191 | 1.382 |
| Gas – ducted < 6 Stars | Other or none specified | 4.139 | 3.333 | 2.212 | 1.979 | 2.054 | 3.967 | 3.465 | 1.664 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 3.496 | 2.669 | 1.534 | 1.288 | 1.384 | 3.313 | 2.800 | 0.955 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.942 | 3.135 | 2.015 | 1.781 | 1.856 | 3.769 | 3.267 | 1.466 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.888 | 3.081 | 1.961 | 1.728 | 1.803 | 3.716 | 3.214 | 1.412 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.808 | 3.001 | 1.880 | 1.647 | 1.722 | 3.635 | 3.133 | 1.332 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.727 | 2.920 | 1.800 | 1.567 | 1.642 | 3.555 | 3.053 | 1.251 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.848 | 3.038 | 1.914 | 1.676 | 1.753 | 3.675 | 3.170 | 1.361 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.804 | 2.994 | 1.869 | 1.632 | 1.709 | 3.631 | 3.126 | 1.317 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.738 | 2.928 | 1.803 | 1.566 | 1.642 | 3.565 | 3.060 | 1.251 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.672 | 2.862 | 1.737 | 1.499 | 1.576 | 3.499 | 2.994 | 1.185 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 3.942 | 3.135 | 2.015 | 1.781 | 1.856 | 3.769 | 3.267 | 1.466 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 3.682 | 2.830 | 1.745 | 1.472 | 1.584 | 3.468 | 2.959 | 1.189 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.129 | 3.307 | 2.212 | 1.984 | 2.062 | 3.933 | 3.434 | 1.674 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.075 | 3.253 | 2.159 | 1.931 | 2.008 | 3.880 | 3.381 | 1.620 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.995 | 3.173 | 2.078 | 1.850 | 1.928 | 3.799 | 3.300 | 1.540 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.914 | 3.092 | 1.998 | 1.770 | 1.848 | 3.719 | 3.220 | 1.459 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.037 | 3.208 | 2.115 | 1.880 | 1.965 | 3.837 | 3.336 | 1.564 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.993 | 3.164 | 2.071 | 1.836 | 1.921 | 3.793 | 3.292 | 1.520 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.927 | 3.098 | 2.005 | 1.770 | 1.854 | 3.727 | 3.226 | 1.454 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.861 | 3.032 | 1.939 | 1.704 | 1.788 | 3.661 | 3.160 | 1.388 |
| Gas - non ducted < 3 Stars | Other or none specified | 4.129 | 3.307 | 2.212 | 1.984 | 2.062 | 3.933 | 3.434 | 1.674 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 3.616 | 2.763 | 1.678 | 1.406 | 1.518 | 3.401 | 2.892 | 1.122 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.062 | 3.240 | 2.146 | 1.918 | 1.995 | 3.867 | 3.368 | 1.607 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.008 | 3.187 | 2.092 | 1.864 | 1.942 | 3.813 | 3.314 | 1.554 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.928 | 3.106 | 2.012 | 1.784 | 1.861 | 3.733 | 3.234 | 1.473 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.848 | 3.026 | 1.931 | 1.703 | 1.781 | 3.652 | 3.153 | 1.393 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.971 | 3.142 | 2.048 | 1.814 | 1.898 | 3.771 | 3.270 | 1.497 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.926 | 3.098 | 2.004 | 1.769 | 1.854 | 3.727 | 3.226 | 1.453 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.860 | 3.031 | 1.938 | 1.703 | 1.788 | 3.660 | 3.159 | 1.387 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.794 | 2.965 | 1.872 | 1.637 | 1.722 | 3.594 | 3.093 | 1.321 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 4.062 | 3.240 | 2.146 | 1.918 | 1.995 | 3.867 | 3.368 | 1.607 |
| Gas - non ducted < 6 Stars | Evaporative | 3.516 | 2.663 | 1.578 | 1.306 | 1.418 | 3.301 | 2.792 | 1.022 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.962 | 3.140 | 2.046 | 1.818 | 1.896 | 3.767 | 3.268 | 1.507 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.909 | 3.087 | 1.992 | 1.764 | 1.842 | 3.713 | 3.214 | 1.454 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.828 | 3.006 | 1.912 | 1.684 | 1.762 | 3.633 | 3.134 | 1.373 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.748 | 2.926 | 1.831 | 1.603 | 1.681 | 3.552 | 3.053 | 1.293 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.871 | 3.042 | 1.948 | 1.714 | 1.798 | 3.671 | 3.170 | 1.397 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.827 | 2.998 | 1.904 | 1.670 | 1.754 | 3.627 | 3.126 | 1.353 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.760 | 2.932 | 1.838 | 1.603 | 1.688 | 3.561 | 3.060 | 1.287 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.694 | 2.865 | 1.772 | 1.537 | 1.622 | 3.494 | 2.993 | 1.221 |
| Gas - non ducted < 6 Stars | Other or none specified | 3.962 | 3.140 | 2.046 | 1.818 | 1.896 | 3.767 | 3.268 | 1.507 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 3.416 | 2.564 | 1.479 | 1.206 | 1.318 | 3.202 | 2.692 | 0.922 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.862 | 3.040 | 1.946 | 1.718 | 1.796 | 3.667 | 3.168 | 1.408 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.809 | 2.987 | 1.892 | 1.664 | 1.742 | 3.613 | 3.114 | 1.354 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.728 | 2.906 | 1.812 | 1.584 | 1.662 | 3.533 | 3.034 | 1.274 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.648 | 2.826 | 1.732 | 1.504 | 1.581 | 3.452 | 2.953 | 1.193 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.771 | 2.942 | 1.849 | 1.614 | 1.698 | 3.571 | 3.070 | 1.298 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.727 | 2.898 | 1.804 | 1.570 | 1.654 | 3.527 | 3.026 | 1.254 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.661 | 2.832 | 1.738 | 1.504 | 1.588 | 3.461 | 2.960 | 1.187 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.594 | 2.765 | 1.672 | 1.437 | 1.522 | 3.394 | 2.894 | 1.121 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 3.862 | 3.040 | 1.946 | 1.718 | 1.796 | 3.667 | 3.168 | 1.408 |

Table 5.1.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – gas heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 4.869 | 3.724 | 2.929 | 2.597 | 2.731 | 5.464 | 4.776 | 2.403 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.555 | 4.442 | 3.636 | 3.321 | 3.437 | 6.167 | 5.489 | 3.126 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.479 | 4.366 | 3.560 | 3.245 | 3.361 | 6.091 | 5.413 | 3.049 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.365 | 4.252 | 3.445 | 3.130 | 3.247 | 5.977 | 5.298 | 2.935 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.250 | 4.137 | 3.331 | 3.016 | 3.132 | 5.862 | 5.184 | 2.821 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 5.417 | 4.298 | 3.494 | 3.173 | 3.293 | 6.024 | 5.345 | 2.978 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.354 | 4.235 | 3.431 | 3.110 | 3.230 | 5.961 | 5.282 | 2.914 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.259 | 4.140 | 3.336 | 3.015 | 3.135 | 5.866 | 5.187 | 2.820 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.165 | 4.045 | 3.242 | 2.920 | 3.041 | 5.771 | 5.092 | 2.725 |
| Gas – ducted < 3 Stars | Other or none specified | 5.555 | 4.442 | 3.636 | 3.321 | 3.437 | 6.167 | 5.489 | 3.126 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 4.646 | 3.502 | 2.707 | 2.375 | 2.509 | 5.241 | 4.553 | 2.180 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.332 | 4.220 | 3.413 | 3.098 | 3.215 | 5.945 | 5.266 | 2.903 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.256 | 4.144 | 3.337 | 3.022 | 3.138 | 5.869 | 5.190 | 2.827 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.142 | 4.029 | 3.223 | 2.908 | 3.024 | 5.754 | 5.076 | 2.712 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.028 | 3.915 | 3.108 | 2.793 | 2.910 | 5.640 | 4.961 | 2.598 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.195 | 4.075 | 3.272 | 2.950 | 3.070 | 5.801 | 5.122 | 2.755 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.131 | 4.012 | 3.208 | 2.887 | 3.007 | 5.738 | 5.059 | 2.692 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.037 | 3.917 | 3.114 | 2.792 | 2.913 | 5.644 | 4.964 | 2.597 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.942 | 3.823 | 3.019 | 2.698 | 2.818 | 5.549 | 4.870 | 2.502 |
| Gas – ducted < 4.5 Stars | Other or none specified | 5.332 | 4.220 | 3.413 | 3.098 | 3.215 | 5.945 | 5.266 | 2.903 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 4.312 | 3.168 | 2.373 | 2.041 | 2.175 | 4.907 | 4.219 | 1.846 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.999 | 3.886 | 3.079 | 2.764 | 2.881 | 5.611 | 4.932 | 2.569 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.922 | 3.810 | 3.003 | 2.688 | 2.804 | 5.535 | 4.856 | 2.493 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.808 | 3.695 | 2.889 | 2.574 | 2.690 | 5.420 | 4.742 | 2.379 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.694 | 3.581 | 2.774 | 2.459 | 2.576 | 5.306 | 4.627 | 2.264 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.861 | 3.741 | 2.938 | 2.616 | 2.737 | 5.467 | 4.788 | 2.421 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.797 | 3.678 | 2.874 | 2.553 | 2.673 | 5.404 | 4.725 | 2.358 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.703 | 3.584 | 2.780 | 2.458 | 2.579 | 5.310 | 4.630 | 2.263 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.608 | 3.489 | 2.685 | 2.364 | 2.484 | 5.215 | 4.536 | 2.168 |
| Gas – ducted < 6 Stars | Other or none specified | 4.999 | 3.886 | 3.079 | 2.764 | 2.881 | 5.611 | 4.932 | 2.569 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 3.978 | 2.834 | 2.039 | 1.707 | 1.841 | 4.573 | 3.885 | 1.512 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.665 | 3.552 | 2.746 | 2.430 | 2.547 | 5.277 | 4.598 | 2.235 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.588 | 3.476 | 2.669 | 2.354 | 2.470 | 5.201 | 4.522 | 2.159 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.474 | 3.361 | 2.555 | 2.240 | 2.356 | 5.086 | 4.408 | 2.045 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.360 | 3.247 | 2.441 | 2.125 | 2.242 | 4.972 | 4.293 | 1.930 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.527 | 3.407 | 2.604 | 2.282 | 2.403 | 5.133 | 4.454 | 2.087 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.464 | 3.344 | 2.540 | 2.219 | 2.339 | 5.070 | 4.391 | 2.024 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.369 | 3.250 | 2.446 | 2.124 | 2.245 | 4.976 | 4.297 | 1.929 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.274 | 3.155 | 2.351 | 2.030 | 2.150 | 4.881 | 4.202 | 1.835 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 4.665 | 3.552 | 2.746 | 2.430 | 2.547 | 5.277 | 4.598 | 2.235 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 4.312 | 3.146 | 2.384 | 2.038 | 2.180 | 4.864 | 4.182 | 1.855 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.996 | 3.867 | 3.088 | 2.764 | 2.883 | 5.576 | 4.901 | 2.578 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.919 | 3.791 | 3.011 | 2.688 | 2.807 | 5.500 | 4.825 | 2.502 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.805 | 3.676 | 2.897 | 2.573 | 2.693 | 5.386 | 4.710 | 2.387 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.691 | 3.562 | 2.783 | 2.459 | 2.578 | 5.271 | 4.596 | 2.273 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.859 | 3.720 | 2.941 | 2.617 | 2.743 | 5.432 | 4.757 | 2.429 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.796 | 3.657 | 2.878 | 2.554 | 2.679 | 5.369 | 4.693 | 2.366 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.701 | 3.562 | 2.783 | 2.459 | 2.585 | 5.274 | 4.599 | 2.271 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.607 | 3.468 | 2.689 | 2.365 | 2.490 | 5.180 | 4.504 | 2.176 |
| Gas - non ducted < 3 Stars | Other or none specified | 4.996 | 3.867 | 3.088 | 2.764 | 2.883 | 5.576 | 4.901 | 2.578 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 4.198 | 3.032 | 2.270 | 1.924 | 2.067 | 4.750 | 4.068 | 1.741 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.882 | 3.753 | 2.974 | 2.650 | 2.769 | 5.462 | 4.787 | 2.464 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.805 | 3.677 | 2.898 | 2.574 | 2.693 | 5.386 | 4.711 | 2.388 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.691 | 3.562 | 2.783 | 2.460 | 2.579 | 5.272 | 4.597 | 2.273 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.577 | 3.448 | 2.669 | 2.345 | 2.464 | 5.157 | 4.482 | 2.159 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.745 | 3.606 | 2.827 | 2.503 | 2.629 | 5.318 | 4.643 | 2.315 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.682 | 3.543 | 2.764 | 2.440 | 2.566 | 5.255 | 4.579 | 2.252 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.587 | 3.448 | 2.669 | 2.346 | 2.471 | 5.161 | 4.485 | 2.157 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.493 | 3.354 | 2.575 | 2.251 | 2.376 | 5.066 | 4.390 | 2.062 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 4.882 | 3.753 | 2.974 | 2.650 | 2.769 | 5.462 | 4.787 | 2.464 |
| Gas - non ducted < 6 Stars | Evaporative | 4.028 | 2.861 | 2.099 | 1.753 | 1.896 | 4.579 | 3.897 | 1.570 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.711 | 3.582 | 2.803 | 2.479 | 2.599 | 5.291 | 4.616 | 2.293 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.635 | 3.506 | 2.727 | 2.403 | 2.522 | 5.215 | 4.540 | 2.217 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.520 | 3.392 | 2.612 | 2.289 | 2.408 | 5.101 | 4.426 | 2.102 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.406 | 3.277 | 2.498 | 2.174 | 2.294 | 4.986 | 4.311 | 1.988 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.574 | 3.435 | 2.656 | 2.332 | 2.458 | 5.148 | 4.472 | 2.144 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.511 | 3.372 | 2.593 | 2.269 | 2.395 | 5.084 | 4.409 | 2.081 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.416 | 3.278 | 2.499 | 2.175 | 2.300 | 4.990 | 4.314 | 1.986 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.322 | 3.183 | 2.404 | 2.080 | 2.205 | 4.895 | 4.219 | 1.892 |
| Gas - non ducted < 6 Stars | Other or none specified | 4.711 | 3.582 | 2.803 | 2.479 | 2.599 | 5.291 | 4.616 | 2.293 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 3.857 | 2.690 | 1.928 | 1.582 | 1.725 | 4.408 | 3.726 | 1.399 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.540 | 3.411 | 2.632 | 2.308 | 2.428 | 5.120 | 4.445 | 2.122 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.464 | 3.335 | 2.556 | 2.232 | 2.351 | 5.044 | 4.369 | 2.046 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.349 | 3.221 | 2.441 | 2.118 | 2.237 | 4.930 | 4.255 | 1.932 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.235 | 3.106 | 2.327 | 2.003 | 2.123 | 4.816 | 4.140 | 1.817 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.403 | 3.265 | 2.485 | 2.162 | 2.287 | 4.977 | 4.301 | 1.973 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.340 | 3.201 | 2.422 | 2.098 | 2.224 | 4.914 | 4.238 | 1.910 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 4.246 | 3.107 | 2.328 | 2.004 | 2.129 | 4.819 | 4.143 | 1.815 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.151 | 3.012 | 2.233 | 1.909 | 2.034 | 4.724 | 4.048 | 1.721 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 4.540 | 3.411 | 2.632 | 2.308 | 2.428 | 5.120 | 4.445 | 2.122 |

Table 5.2.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – heat pump heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 3.141 | 1.952 | 1.314 | 0.971 | 1.145 | 2.821 | 2.352 | 0.776 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.464 | 2.305 | 1.649 | 1.315 | 1.461 | 3.179 | 2.705 | 1.134 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.425 | 2.266 | 1.610 | 1.276 | 1.422 | 3.140 | 2.666 | 1.095 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.366 | 2.208 | 1.551 | 1.218 | 1.363 | 3.081 | 2.607 | 1.037 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.307 | 2.149 | 1.492 | 1.159 | 1.304 | 3.022 | 2.548 | 0.978 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 3.400 | 2.231 | 1.577 | 1.248 | 1.395 | 3.107 | 2.634 | 1.065 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.367 | 2.199 | 1.544 | 1.216 | 1.363 | 3.075 | 2.602 | 1.033 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.318 | 2.150 | 1.495 | 1.167 | 1.314 | 3.026 | 2.553 | 0.984 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.269 | 2.101 | 1.446 | 1.118 | 1.265 | 2.977 | 2.504 | 0.935 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.464 | 2.305 | 1.649 | 1.315 | 1.461 | 3.179 | 2.705 | 1.134 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.100 | 1.911 | 1.273 | 0.929 | 1.103 | 2.780 | 2.311 | 0.735 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.423 | 2.264 | 1.608 | 1.274 | 1.419 | 3.137 | 2.664 | 1.093 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.383 | 2.225 | 1.568 | 1.235 | 1.380 | 3.098 | 2.624 | 1.054 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.325 | 2.166 | 1.510 | 1.176 | 1.322 | 3.040 | 2.566 | 0.995 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.266 | 2.108 | 1.451 | 1.118 | 1.263 | 2.981 | 2.507 | 0.937 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.358 | 2.190 | 1.535 | 1.207 | 1.354 | 3.066 | 2.593 | 1.024 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.326 | 2.157 | 1.503 | 1.174 | 1.321 | 3.033 | 2.560 | 0.992 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.277 | 2.108 | 1.454 | 1.126 | 1.272 | 2.984 | 2.511 | 0.943 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.228 | 2.060 | 1.405 | 1.077 | 1.223 | 2.936 | 2.463 | 0.894 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.423 | 2.264 | 1.608 | 1.274 | 1.419 | 3.137 | 2.664 | 1.093 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 3.038 | 1.849 | 1.211 | 0.868 | 1.041 | 2.718 | 2.249 | 0.673 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.361 | 2.202 | 1.546 | 1.212 | 1.358 | 3.075 | 2.602 | 1.031 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.322 | 2.163 | 1.507 | 1.173 | 1.319 | 3.036 | 2.563 | 0.992 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.263 | 2.105 | 1.448 | 1.114 | 1.260 | 2.978 | 2.504 | 0.934 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.204 | 2.046 | 1.389 | 1.056 | 1.201 | 2.919 | 2.445 | 0.875 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.297 | 2.128 | 1.474 | 1.145 | 1.292 | 3.004 | 2.531 | 0.962 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.264 | 2.095 | 1.441 | 1.113 | 1.259 | 2.971 | 2.498 | 0.930 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.215 | 2.047 | 1.392 | 1.064 | 1.210 | 2.923 | 2.450 | 0.881 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.166 | 1.998 | 1.343 | 1.015 | 1.162 | 2.874 | 2.401 | 0.832 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.361 | 2.202 | 1.546 | 1.212 | 1.358 | 3.075 | 2.602 | 1.031 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.976 | 1.787 | 1.149 | 0.806 | 0.980 | 2.656 | 2.187 | 0.611 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.299 | 2.140 | 1.484 | 1.150 | 1.296 | 3.014 | 2.540 | 0.969 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.260 | 2.101 | 1.445 | 1.111 | 1.257 | 2.974 | 2.501 | 0.930 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.201 | 2.043 | 1.386 | 1.053 | 1.198 | 2.916 | 2.442 | 0.872 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.142 | 1.984 | 1.327 | 0.994 | 1.139 | 2.857 | 2.383 | 0.813 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.235 | 2.066 | 1.412 | 1.083 | 1.230 | 2.942 | 2.469 | 0.900 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.202 | 2.034 | 1.379 | 1.051 | 1.197 | 2.910 | 2.437 | 0.868 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.153 | 1.985 | 1.330 | 1.002 | 1.149 | 2.861 | 2.388 | 0.819 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.104 | 1.936 | 1.281 | 0.953 | 1.100 | 2.812 | 2.339 | 0.770 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.299 | 2.140 | 1.484 | 1.150 | 1.296 | 3.014 | 2.540 | 0.969 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 3.065 | 1.872 | 1.252 | 0.901 | 1.079 | 2.737 | 2.268 | 0.712 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.390 | 2.224 | 1.578 | 1.251 | 1.396 | 3.094 | 2.624 | 1.071 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.351 | 2.185 | 1.539 | 1.212 | 1.357 | 3.055 | 2.585 | 1.031 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.292 | 2.126 | 1.481 | 1.154 | 1.298 | 2.996 | 2.526 | 0.973 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.233 | 2.067 | 1.422 | 1.095 | 1.240 | 2.938 | 2.467 | 0.914 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.325 | 2.149 | 1.505 | 1.183 | 1.334 | 3.022 | 2.552 | 1.001 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.292 | 2.116 | 1.473 | 1.151 | 1.301 | 2.990 | 2.520 | 0.968 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.244 | 2.067 | 1.424 | 1.102 | 1.252 | 2.941 | 2.471 | 0.919 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.195 | 2.018 | 1.375 | 1.053 | 1.203 | 2.892 | 2.422 | 0.870 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.390 | 2.224 | 1.578 | 1.251 | 1.396 | 3.094 | 2.624 | 1.071 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.030 | 1.838 | 1.217 | 0.866 | 1.044 | 2.703 | 2.234 | 0.677 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.355 | 2.189 | 1.544 | 1.217 | 1.362 | 3.060 | 2.589 | 1.036 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.316 | 2.150 | 1.505 | 1.178 | 1.323 | 3.020 | 2.550 | 0.997 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.257 | 2.091 | 1.446 | 1.119 | 1.264 | 2.962 | 2.491 | 0.938 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.199 | 2.033 | 1.387 | 1.060 | 1.205 | 2.903 | 2.433 | 0.880 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.291 | 2.114 | 1.471 | 1.149 | 1.299 | 2.988 | 2.518 | 0.966 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.258 | 2.082 | 1.438 | 1.116 | 1.267 | 2.955 | 2.485 | 0.934 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.209 | 2.033 | 1.389 | 1.067 | 1.218 | 2.906 | 2.436 | 0.885 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.160 | 1.984 | 1.340 | 1.019 | 1.169 | 2.858 | 2.387 | 0.836 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.355 | 2.189 | 1.544 | 1.217 | 1.362 | 3.060 | 2.589 | 1.036 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 2.979 | 1.786 | 1.166 | 0.815 | 0.993 | 2.651 | 2.182 | 0.625 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.303 | 2.137 | 1.492 | 1.165 | 1.310 | 3.008 | 2.537 | 0.984 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.264 | 2.098 | 1.453 | 1.126 | 1.271 | 2.969 | 2.498 | 0.945 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.206 | 2.040 | 1.394 | 1.067 | 1.212 | 2.910 | 2.440 | 0.887 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.147 | 1.981 | 1.336 | 1.009 | 1.154 | 2.851 | 2.381 | 0.828 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.239 | 2.063 | 1.419 | 1.097 | 1.248 | 2.936 | 2.466 | 0.915 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.206 | 2.030 | 1.386 | 1.065 | 1.215 | 2.904 | 2.433 | 0.882 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.157 | 1.981 | 1.337 | 1.016 | 1.166 | 2.855 | 2.385 | 0.833 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.108 | 1.932 | 1.289 | 0.967 | 1.117 | 2.806 | 2.336 | 0.784 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.303 | 2.137 | 1.492 | 1.165 | 1.310 | 3.008 | 2.537 | 0.984 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.927 | 1.734 | 1.114 | 0.763 | 0.941 | 2.599 | 2.130 | 0.574 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.252 | 2.086 | 1.440 | 1.113 | 1.258 | 2.956 | 2.486 | 0.933 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.213 | 2.047 | 1.401 | 1.074 | 1.219 | 2.917 | 2.447 | 0.893 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.154 | 1.988 | 1.343 | 1.016 | 1.160 | 2.858 | 2.388 | 0.835 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.095 | 1.929 | 1.284 | 0.957 | 1.102 | 2.800 | 2.329 | 0.776 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.187 | 2.011 | 1.367 | 1.045 | 1.196 | 2.884 | 2.414 | 0.863 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.154 | 1.978 | 1.335 | 1.013 | 1.163 | 2.852 | 2.382 | 0.830 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.106 | 1.929 | 1.286 | 0.964 | 1.114 | 2.803 | 2.333 | 0.781 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.057 | 1.880 | 1.237 | 0.915 | 1.065 | 2.754 | 2.284 | 0.732 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.252 | 2.086 | 1.440 | 1.113 | 1.258 | 2.956 | 2.486 | 0.933 |

Table 5.2.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – heat pump heating – Queensland

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 2.776 | 2.215 | 1.215 | 1.044 | 1.054 | 3.823 | 3.132 | 0.844 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.070 | 2.524 | 1.503 | 1.346 | 1.344 | 4.125 | 3.437 | 1.157 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.035 | 2.489 | 1.468 | 1.312 | 1.309 | 4.090 | 3.402 | 1.122 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.983 | 2.437 | 1.416 | 1.260 | 1.257 | 4.038 | 3.350 | 1.070 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.931 | 2.385 | 1.364 | 1.208 | 1.205 | 3.986 | 3.298 | 1.018 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 3.011 | 2.462 | 1.441 | 1.287 | 1.287 | 4.064 | 3.376 | 1.096 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.982 | 2.433 | 1.412 | 1.258 | 1.258 | 4.035 | 3.347 | 1.067 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.938 | 2.389 | 1.368 | 1.214 | 1.214 | 3.991 | 3.303 | 1.023 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.895 | 2.346 | 1.324 | 1.171 | 1.171 | 3.948 | 3.260 | 0.980 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.070 | 2.524 | 1.503 | 1.346 | 1.344 | 4.125 | 3.437 | 1.157 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.741 | 2.180 | 1.180 | 1.009 | 1.019 | 3.788 | 3.097 | 0.809 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.035 | 2.489 | 1.468 | 1.311 | 1.309 | 4.090 | 3.402 | 1.122 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.000 | 2.454 | 1.433 | 1.277 | 1.274 | 4.055 | 3.367 | 1.087 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.948 | 2.402 | 1.381 | 1.225 | 1.222 | 4.003 | 3.315 | 1.035 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.896 | 2.350 | 1.329 | 1.173 | 1.170 | 3.951 | 3.263 | 0.983 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.976 | 2.427 | 1.406 | 1.252 | 1.252 | 4.029 | 3.341 | 1.061 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.947 | 2.398 | 1.377 | 1.223 | 1.223 | 4.000 | 3.312 | 1.032 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.903 | 2.354 | 1.333 | 1.179 | 1.179 | 3.956 | 3.268 | 0.988 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.860 | 2.311 | 1.289 | 1.136 | 1.136 | 3.913 | 3.225 | 0.945 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.035 | 2.489 | 1.468 | 1.311 | 1.309 | 4.090 | 3.402 | 1.122 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 2.688 | 2.127 | 1.127 | 0.957 | 0.967 | 3.736 | 3.044 | 0.756 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.982 | 2.436 | 1.415 | 1.259 | 1.256 | 4.037 | 3.349 | 1.069 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.947 | 2.402 | 1.381 | 1.224 | 1.222 | 4.003 | 3.315 | 1.035 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.895 | 2.350 | 1.329 | 1.172 | 1.170 | 3.951 | 3.263 | 0.983 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.843 | 2.298 | 1.277 | 1.120 | 1.118 | 3.899 | 3.211 | 0.931 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.923 | 2.374 | 1.353 | 1.199 | 1.200 | 3.976 | 3.289 | 1.008 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.894 | 2.345 | 1.324 | 1.170 | 1.170 | 3.947 | 3.259 | 0.979 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.851 | 2.302 | 1.280 | 1.127 | 1.127 | 3.904 | 3.216 | 0.936 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.807 | 2.258 | 1.237 | 1.083 | 1.083 | 3.860 | 3.172 | 0.892 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 2.982 | 2.436 | 1.415 | 1.259 | 1.256 | 4.037 | 3.349 | 1.069 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.636 | 2.075 | 1.075 | 0.904 | 0.914 | 3.683 | 2.992 | 0.704 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.929 | 2.384 | 1.363 | 1.206 | 1.204 | 3.985 | 3.297 | 1.017 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.895 | 2.349 | 1.328 | 1.171 | 1.169 | 3.950 | 3.262 | 0.982 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.843 | 2.297 | 1.276 | 1.119 | 1.117 | 3.898 | 3.210 | 0.930 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.791 | 2.245 | 1.224 | 1.067 | 1.065 | 3.846 | 3.158 | 0.878 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.871 | 2.322 | 1.301 | 1.147 | 1.147 | 3.924 | 3.236 | 0.956 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.842 | 2.293 | 1.271 | 1.118 | 1.118 | 3.895 | 3.207 | 0.927 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.798 | 2.249 | 1.228 | 1.074 | 1.074 | 3.851 | 3.163 | 0.883 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.754 | 2.205 | 1.184 | 1.030 | 1.030 | 3.807 | 3.120 | 0.839 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.929 | 2.384 | 1.363 | 1.206 | 1.204 | 3.985 | 3.297 | 1.017 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 2.716 | 2.147 | 1.160 | 0.985 | 0.998 | 3.754 | 3.064 | 0.785 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.008 | 2.458 | 1.445 | 1.291 | 1.290 | 4.057 | 3.370 | 1.101 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 2.973 | 2.423 | 1.411 | 1.256 | 1.256 | 4.023 | 3.335 | 1.067 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 2.921 | 2.371 | 1.359 | 1.204 | 1.204 | 3.971 | 3.283 | 1.015 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.869 | 2.319 | 1.307 | 1.152 | 1.152 | 3.919 | 3.231 | 0.963 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.949 | 2.396 | 1.385 | 1.231 | 1.233 | 3.996 | 3.309 | 1.040 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.920 | 2.367 | 1.356 | 1.202 | 1.204 | 3.967 | 3.280 | 1.011 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.876 | 2.323 | 1.312 | 1.158 | 1.160 | 3.923 | 3.236 | 0.967 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.832 | 2.279 | 1.268 | 1.115 | 1.117 | 3.880 | 3.192 | 0.924 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.008 | 2.458 | 1.445 | 1.291 | 1.290 | 4.057 | 3.370 | 1.101 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 2.686 | 2.118 | 1.131 | 0.956 | 0.968 | 3.725 | 3.034 | 0.755 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 2.978 | 2.429 | 1.416 | 1.261 | 1.261 | 4.028 | 3.340 | 1.072 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 2.944 | 2.394 | 1.381 | 1.227 | 1.226 | 3.993 | 3.306 | 1.037 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 2.892 | 2.342 | 1.329 | 1.175 | 1.174 | 3.941 | 3.254 | 0.985 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.840 | 2.290 | 1.277 | 1.123 | 1.122 | 3.889 | 3.202 | 0.933 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.919 | 2.366 | 1.356 | 1.202 | 1.204 | 3.967 | 3.279 | 1.011 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.890 | 2.337 | 1.326 | 1.172 | 1.175 | 3.938 | 3.250 | 0.982 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.846 | 2.293 | 1.283 | 1.129 | 1.131 | 3.894 | 3.207 | 0.938 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.803 | 2.250 | 1.239 | 1.085 | 1.087 | 3.850 | 3.163 | 0.894 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 2.978 | 2.429 | 1.416 | 1.261 | 1.261 | 4.028 | 3.340 | 1.072 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 2.642 | 2.074 | 1.087 | 0.912 | 0.924 | 3.681 | 2.990 | 0.711 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.934 | 2.384 | 1.372 | 1.217 | 1.217 | 3.984 | 3.296 | 1.028 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.899 | 2.350 | 1.337 | 1.183 | 1.182 | 3.949 | 3.261 | 0.993 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.847 | 2.298 | 1.285 | 1.131 | 1.130 | 3.897 | 3.209 | 0.941 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.796 | 2.246 | 1.233 | 1.079 | 1.078 | 3.845 | 3.157 | 0.889 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 2.875 | 2.322 | 1.311 | 1.158 | 1.160 | 3.923 | 3.235 | 0.967 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.846 | 2.293 | 1.282 | 1.128 | 1.131 | 3.894 | 3.206 | 0.937 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.802 | 2.249 | 1.239 | 1.085 | 1.087 | 3.850 | 3.163 | 0.894 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.759 | 2.206 | 1.195 | 1.041 | 1.043 | 3.806 | 3.119 | 0.850 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 2.934 | 2.384 | 1.372 | 1.217 | 1.217 | 3.984 | 3.296 | 1.028 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.598 | 2.030 | 1.043 | 0.868 | 0.880 | 3.637 | 2.946 | 0.667 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 2.890 | 2.340 | 1.328 | 1.173 | 1.173 | 3.940 | 3.252 | 0.984 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 2.855 | 2.306 | 1.293 | 1.139 | 1.138 | 3.905 | 3.217 | 0.949 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 2.803 | 2.254 | 1.241 | 1.087 | 1.086 | 3.853 | 3.165 | 0.897 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.751 | 2.202 | 1.189 | 1.035 | 1.034 | 3.801 | 3.113 | 0.845 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 2.831 | 2.278 | 1.267 | 1.113 | 1.116 | 3.879 | 3.191 | 0.923 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.802 | 2.249 | 1.238 | 1.084 | 1.087 | 3.850 | 3.162 | 0.893 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 2.758 | 2.205 | 1.195 | 1.041 | 1.043 | 3.806 | 3.118 | 0.850 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 2.715 | 2.162 | 1.151 | 0.997 | 0.999 | 3.762 | 3.075 | 0.806 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 2.890 | 2.340 | 1.328 | 1.173 | 1.173 | 3.940 | 3.252 | 0.984 |

Table 5.2.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – heat pump heating – South Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 3.148 | 2.206 | 1.290 | 1.013 | 1.146 | 2.800 | 2.324 | 0.747 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.588 | 2.686 | 1.745 | 1.469 | 1.587 | 3.272 | 2.799 | 1.229 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.535 | 2.632 | 1.691 | 1.415 | 1.533 | 3.218 | 2.746 | 1.175 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.454 | 2.552 | 1.611 | 1.335 | 1.453 | 3.138 | 2.665 | 1.095 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.374 | 2.471 | 1.530 | 1.254 | 1.372 | 3.058 | 2.585 | 1.014 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 3.495 | 2.587 | 1.645 | 1.378 | 1.483 | 3.174 | 2.701 | 1.136 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.451 | 2.542 | 1.601 | 1.334 | 1.439 | 3.130 | 2.657 | 1.092 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.384 | 2.476 | 1.535 | 1.268 | 1.373 | 3.064 | 2.591 | 1.026 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.318 | 2.410 | 1.469 | 1.202 | 1.307 | 2.998 | 2.525 | 0.960 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.588 | 2.686 | 1.745 | 1.469 | 1.587 | 3.272 | 2.799 | 1.229 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.106 | 2.164 | 1.248 | 0.971 | 1.104 | 2.758 | 2.282 | 0.705 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.546 | 2.643 | 1.702 | 1.427 | 1.544 | 3.230 | 2.757 | 1.187 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.492 | 2.590 | 1.649 | 1.373 | 1.491 | 3.176 | 2.703 | 1.133 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.412 | 2.509 | 1.568 | 1.293 | 1.410 | 3.096 | 2.623 | 1.053 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.332 | 2.429 | 1.488 | 1.212 | 1.330 | 3.015 | 2.543 | 0.972 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.453 | 2.544 | 1.603 | 1.336 | 1.441 | 3.132 | 2.659 | 1.094 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.408 | 2.500 | 1.559 | 1.292 | 1.397 | 3.088 | 2.615 | 1.050 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.342 | 2.434 | 1.493 | 1.226 | 1.331 | 3.022 | 2.549 | 0.983 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.276 | 2.368 | 1.427 | 1.160 | 1.265 | 2.956 | 2.483 | 0.917 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.546 | 2.643 | 1.702 | 1.427 | 1.544 | 3.230 | 2.757 | 1.187 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 3.043 | 2.100 | 1.185 | 0.907 | 1.041 | 2.695 | 2.219 | 0.642 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.483 | 2.580 | 1.639 | 1.363 | 1.481 | 3.167 | 2.694 | 1.123 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.429 | 2.527 | 1.585 | 1.310 | 1.428 | 3.113 | 2.640 | 1.070 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.349 | 2.446 | 1.505 | 1.229 | 1.347 | 3.032 | 2.560 | 0.989 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.268 | 2.366 | 1.425 | 1.149 | 1.267 | 2.952 | 2.479 | 0.909 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.389 | 2.481 | 1.540 | 1.273 | 1.378 | 3.069 | 2.596 | 1.030 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.345 | 2.437 | 1.496 | 1.229 | 1.334 | 3.025 | 2.552 | 0.986 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.279 | 2.371 | 1.430 | 1.163 | 1.268 | 2.959 | 2.486 | 0.920 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.213 | 2.305 | 1.364 | 1.097 | 1.202 | 2.893 | 2.419 | 0.854 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.483 | 2.580 | 1.639 | 1.363 | 1.481 | 3.167 | 2.694 | 1.123 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.980 | 2.037 | 1.122 | 0.844 | 0.978 | 2.632 | 2.155 | 0.578 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.419 | 2.517 | 1.576 | 1.300 | 1.418 | 3.103 | 2.630 | 1.060 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.366 | 2.463 | 1.522 | 1.247 | 1.364 | 3.050 | 2.577 | 1.007 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.285 | 2.383 | 1.442 | 1.166 | 1.284 | 2.969 | 2.496 | 0.926 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.205 | 2.302 | 1.361 | 1.086 | 1.203 | 2.889 | 2.416 | 0.846 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.326 | 2.418 | 1.477 | 1.210 | 1.315 | 3.006 | 2.533 | 0.967 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.282 | 2.374 | 1.433 | 1.166 | 1.271 | 2.962 | 2.488 | 0.923 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.216 | 2.308 | 1.366 | 1.099 | 1.205 | 2.895 | 2.422 | 0.857 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.150 | 2.241 | 1.300 | 1.033 | 1.138 | 2.829 | 2.356 | 0.791 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.419 | 2.517 | 1.576 | 1.300 | 1.418 | 3.103 | 2.630 | 1.060 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 3.069 | 2.120 | 1.228 | 0.941 | 1.080 | 2.716 | 2.239 | 0.695 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.509 | 2.606 | 1.673 | 1.405 | 1.512 | 3.190 | 2.720 | 1.165 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.455 | 2.552 | 1.619 | 1.352 | 1.459 | 3.136 | 2.666 | 1.112 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.375 | 2.472 | 1.539 | 1.271 | 1.378 | 3.056 | 2.586 | 1.031 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.294 | 2.392 | 1.458 | 1.191 | 1.298 | 2.976 | 2.505 | 0.951 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.419 | 2.506 | 1.572 | 1.314 | 1.417 | 3.091 | 2.620 | 1.071 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.375 | 2.461 | 1.528 | 1.270 | 1.373 | 3.047 | 2.576 | 1.027 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.309 | 2.395 | 1.462 | 1.204 | 1.307 | 2.981 | 2.510 | 0.961 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.242 | 2.329 | 1.396 | 1.138 | 1.241 | 2.915 | 2.444 | 0.895 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.509 | 2.606 | 1.673 | 1.405 | 1.512 | 3.190 | 2.720 | 1.165 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.034 | 2.085 | 1.193 | 0.906 | 1.044 | 2.681 | 2.203 | 0.660 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.473 | 2.571 | 1.637 | 1.370 | 1.477 | 3.155 | 2.684 | 1.130 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.420 | 2.517 | 1.584 | 1.316 | 1.423 | 3.101 | 2.631 | 1.076 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.339 | 2.437 | 1.503 | 1.236 | 1.343 | 3.021 | 2.550 | 0.996 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.259 | 2.356 | 1.423 | 1.156 | 1.262 | 2.940 | 2.470 | 0.915 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.383 | 2.470 | 1.537 | 1.279 | 1.382 | 3.056 | 2.585 | 1.036 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.339 | 2.426 | 1.493 | 1.235 | 1.338 | 3.012 | 2.541 | 0.992 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.273 | 2.360 | 1.427 | 1.169 | 1.271 | 2.946 | 2.475 | 0.926 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.207 | 2.294 | 1.360 | 1.103 | 1.205 | 2.879 | 2.409 | 0.859 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.473 | 2.571 | 1.637 | 1.370 | 1.477 | 3.155 | 2.684 | 1.130 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 2.981 | 2.032 | 1.140 | 0.853 | 0.991 | 2.627 | 2.150 | 0.607 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.420 | 2.517 | 1.584 | 1.317 | 1.424 | 3.101 | 2.631 | 1.077 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.366 | 2.464 | 1.531 | 1.263 | 1.370 | 3.048 | 2.577 | 1.023 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.286 | 2.383 | 1.450 | 1.183 | 1.290 | 2.967 | 2.497 | 0.943 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.206 | 2.303 | 1.370 | 1.102 | 1.209 | 2.887 | 2.417 | 0.862 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.330 | 2.417 | 1.484 | 1.226 | 1.328 | 3.003 | 2.532 | 0.983 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.286 | 2.373 | 1.440 | 1.182 | 1.284 | 2.959 | 2.488 | 0.939 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.220 | 2.307 | 1.373 | 1.116 | 1.218 | 2.892 | 2.422 | 0.872 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.154 | 2.241 | 1.307 | 1.049 | 1.152 | 2.826 | 2.355 | 0.806 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.420 | 2.517 | 1.584 | 1.317 | 1.424 | 3.101 | 2.631 | 1.077 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.928 | 1.979 | 1.086 | 0.800 | 0.938 | 2.574 | 2.097 | 0.553 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.367 | 2.464 | 1.531 | 1.264 | 1.371 | 3.048 | 2.578 | 1.024 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.313 | 2.411 | 1.478 | 1.210 | 1.317 | 2.995 | 2.524 | 0.970 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.233 | 2.330 | 1.397 | 1.130 | 1.237 | 2.914 | 2.444 | 0.890 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.152 | 2.250 | 1.317 | 1.049 | 1.156 | 2.834 | 2.363 | 0.809 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.277 | 2.364 | 1.431 | 1.173 | 1.275 | 2.950 | 2.479 | 0.930 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.233 | 2.320 | 1.387 | 1.129 | 1.231 | 2.906 | 2.435 | 0.885 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.167 | 2.254 | 1.320 | 1.062 | 1.165 | 2.839 | 2.368 | 0.819 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.101 | 2.188 | 1.254 | 0.996 | 1.099 | 2.773 | 2.302 | 0.753 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.367 | 2.464 | 1.531 | 1.264 | 1.371 | 3.048 | 2.578 | 1.024 |

Table 5.2.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – heat pump heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 3.296 | 2.034 | 1.451 | 1.103 | 1.278 | 3.623 | 2.984 | 0.962 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.957 | 2.741 | 2.109 | 1.761 | 1.922 | 4.336 | 3.696 | 1.598 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.880 | 2.664 | 2.033 | 1.684 | 1.846 | 4.260 | 3.620 | 1.522 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.766 | 2.550 | 1.919 | 1.570 | 1.731 | 4.145 | 3.505 | 1.408 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.652 | 2.436 | 1.804 | 1.456 | 1.617 | 4.031 | 3.391 | 1.294 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 3.822 | 2.597 | 1.979 | 1.617 | 1.787 | 4.192 | 3.553 | 1.464 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.759 | 2.534 | 1.916 | 1.554 | 1.724 | 4.129 | 3.490 | 1.401 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.664 | 2.439 | 1.821 | 1.459 | 1.629 | 4.035 | 3.395 | 1.306 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.569 | 2.344 | 1.726 | 1.365 | 1.534 | 3.940 | 3.300 | 1.211 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.957 | 2.741 | 2.109 | 1.761 | 1.922 | 4.336 | 3.696 | 1.598 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.238 | 1.975 | 1.393 | 1.044 | 1.219 | 3.564 | 2.926 | 0.904 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.898 | 2.682 | 2.051 | 1.702 | 1.863 | 4.278 | 3.638 | 1.540 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.822 | 2.606 | 1.974 | 1.626 | 1.787 | 4.201 | 3.561 | 1.464 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.708 | 2.491 | 1.860 | 1.512 | 1.673 | 4.087 | 3.447 | 1.349 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.593 | 2.377 | 1.746 | 1.397 | 1.558 | 3.973 | 3.333 | 1.235 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.763 | 2.538 | 1.920 | 1.559 | 1.729 | 4.134 | 3.494 | 1.405 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.700 | 2.475 | 1.857 | 1.496 | 1.665 | 4.071 | 3.431 | 1.342 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.606 | 2.381 | 1.762 | 1.401 | 1.571 | 3.976 | 3.337 | 1.248 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.511 | 2.286 | 1.668 | 1.306 | 1.476 | 3.882 | 3.242 | 1.153 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.898 | 2.682 | 2.051 | 1.702 | 1.863 | 4.278 | 3.638 | 1.540 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 3.150 | 1.888 | 1.305 | 0.957 | 1.132 | 3.477 | 2.838 | 0.816 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.811 | 2.594 | 1.963 | 1.615 | 1.776 | 4.190 | 3.550 | 1.452 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.734 | 2.518 | 1.887 | 1.538 | 1.700 | 4.114 | 3.474 | 1.376 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.620 | 2.404 | 1.772 | 1.424 | 1.585 | 3.999 | 3.359 | 1.262 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.506 | 2.289 | 1.658 | 1.310 | 1.471 | 3.885 | 3.245 | 1.147 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.676 | 2.451 | 1.833 | 1.471 | 1.641 | 4.046 | 3.407 | 1.318 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.613 | 2.388 | 1.770 | 1.408 | 1.578 | 3.983 | 3.344 | 1.255 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.518 | 2.293 | 1.675 | 1.313 | 1.483 | 3.889 | 3.249 | 1.160 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.423 | 2.198 | 1.580 | 1.219 | 1.388 | 3.794 | 3.154 | 1.065 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.811 | 2.594 | 1.963 | 1.615 | 1.776 | 4.190 | 3.550 | 1.452 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.063 | 1.800 | 1.218 | 0.869 | 1.044 | 3.389 | 2.751 | 0.728 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.723 | 2.507 | 1.875 | 1.527 | 1.688 | 4.102 | 3.462 | 1.365 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.647 | 2.431 | 1.799 | 1.451 | 1.612 | 4.026 | 3.386 | 1.289 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.532 | 2.316 | 1.685 | 1.336 | 1.498 | 3.912 | 3.272 | 1.174 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.418 | 2.202 | 1.570 | 1.222 | 1.383 | 3.797 | 3.157 | 1.060 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.588 | 2.363 | 1.745 | 1.384 | 1.553 | 3.959 | 3.319 | 1.230 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.525 | 2.300 | 1.682 | 1.320 | 1.490 | 3.896 | 3.256 | 1.167 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.430 | 2.205 | 1.587 | 1.226 | 1.395 | 3.801 | 3.161 | 1.072 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.336 | 2.111 | 1.493 | 1.131 | 1.301 | 3.706 | 3.067 | 0.978 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.723 | 2.507 | 1.875 | 1.527 | 1.688 | 4.102 | 3.462 | 1.365 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 3.188 | 1.920 | 1.359 | 1.003 | 1.185 | 3.504 | 2.865 | 0.862 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.846 | 2.628 | 2.009 | 1.653 | 1.818 | 4.220 | 3.581 | 1.496 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.770 | 2.552 | 1.932 | 1.577 | 1.742 | 4.143 | 3.505 | 1.420 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.655 | 2.438 | 1.818 | 1.462 | 1.627 | 4.029 | 3.390 | 1.306 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.541 | 2.323 | 1.704 | 1.348 | 1.513 | 3.915 | 3.276 | 1.191 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.710 | 2.483 | 1.877 | 1.512 | 1.681 | 4.075 | 3.436 | 1.370 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.647 | 2.420 | 1.814 | 1.449 | 1.618 | 4.012 | 3.373 | 1.307 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.552 | 2.325 | 1.719 | 1.354 | 1.524 | 3.918 | 3.279 | 1.212 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.458 | 2.231 | 1.624 | 1.259 | 1.429 | 3.823 | 3.184 | 1.117 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.846 | 2.628 | 2.009 | 1.653 | 1.818 | 4.220 | 3.581 | 1.496 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.140 | 1.872 | 1.311 | 0.955 | 1.137 | 3.456 | 2.817 | 0.814 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.798 | 2.580 | 1.961 | 1.605 | 1.770 | 4.172 | 3.533 | 1.448 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.722 | 2.504 | 1.884 | 1.529 | 1.694 | 4.096 | 3.457 | 1.372 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.607 | 2.390 | 1.770 | 1.414 | 1.579 | 3.981 | 3.342 | 1.258 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.493 | 2.275 | 1.656 | 1.300 | 1.465 | 3.867 | 3.228 | 1.143 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.662 | 2.435 | 1.829 | 1.464 | 1.633 | 4.027 | 3.389 | 1.322 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.599 | 2.372 | 1.766 | 1.401 | 1.570 | 3.964 | 3.325 | 1.259 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.504 | 2.277 | 1.671 | 1.306 | 1.476 | 3.870 | 3.231 | 1.164 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.410 | 2.183 | 1.576 | 1.211 | 1.381 | 3.775 | 3.136 | 1.069 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.798 | 2.580 | 1.961 | 1.605 | 1.770 | 4.172 | 3.533 | 1.448 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 3.068 | 1.800 | 1.239 | 0.883 | 1.065 | 3.384 | 2.745 | 0.742 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.726 | 2.508 | 1.889 | 1.533 | 1.698 | 4.100 | 3.461 | 1.376 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.650 | 2.432 | 1.812 | 1.457 | 1.622 | 4.024 | 3.385 | 1.300 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.535 | 2.318 | 1.698 | 1.342 | 1.508 | 3.909 | 3.271 | 1.186 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.421 | 2.203 | 1.584 | 1.228 | 1.393 | 3.795 | 3.156 | 1.071 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.590 | 2.363 | 1.757 | 1.392 | 1.561 | 3.955 | 3.317 | 1.250 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.527 | 2.300 | 1.694 | 1.329 | 1.498 | 3.892 | 3.253 | 1.187 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.432 | 2.206 | 1.599 | 1.234 | 1.404 | 3.798 | 3.159 | 1.092 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.338 | 2.111 | 1.504 | 1.139 | 1.309 | 3.703 | 3.064 | 0.997 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.726 | 2.508 | 1.889 | 1.533 | 1.698 | 4.100 | 3.461 | 1.376 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.996 | 1.728 | 1.167 | 0.811 | 0.993 | 3.312 | 2.673 | 0.670 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.654 | 2.436 | 1.817 | 1.461 | 1.626 | 4.028 | 3.389 | 1.304 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.578 | 2.360 | 1.741 | 1.385 | 1.550 | 3.952 | 3.313 | 1.228 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.463 | 2.246 | 1.626 | 1.270 | 1.436 | 3.837 | 3.199 | 1.114 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.349 | 2.131 | 1.512 | 1.156 | 1.321 | 3.723 | 3.084 | 0.999 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.518 | 2.291 | 1.685 | 1.320 | 1.490 | 3.883 | 3.245 | 1.178 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.455 | 2.228 | 1.622 | 1.257 | 1.426 | 3.820 | 3.181 | 1.115 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.360 | 2.134 | 1.527 | 1.162 | 1.332 | 3.726 | 3.087 | 1.020 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.266 | 2.039 | 1.432 | 1.067 | 1.237 | 3.631 | 2.992 | 0.925 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.654 | 2.436 | 1.817 | 1.461 | 1.626 | 4.028 | 3.389 | 1.304 |

Table 5.3.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – other heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 4.144 | 3.034 | 2.247 | 1.920 | 2.069 | 3.950 | 3.453 | 1.689 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 4.578 | 3.489 | 2.690 | 2.382 | 2.520 | 4.402 | 3.910 | 2.144 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 4.539 | 3.449 | 2.651 | 2.343 | 2.481 | 4.363 | 3.871 | 2.105 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 4.480 | 3.391 | 2.592 | 2.284 | 2.423 | 4.304 | 3.812 | 2.047 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.422 | 3.332 | 2.534 | 2.226 | 2.364 | 4.246 | 3.754 | 1.988 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.496 | 3.402 | 2.605 | 2.291 | 2.433 | 4.314 | 3.823 | 2.052 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 4.463 | 3.369 | 2.572 | 2.258 | 2.401 | 4.282 | 3.790 | 2.020 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.415 | 3.320 | 2.524 | 2.209 | 2.352 | 4.233 | 3.741 | 1.971 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.366 | 3.271 | 2.475 | 2.160 | 2.303 | 4.184 | 3.692 | 1.922 |
| Electric - Resistance (Panel) | Other or none specified | 4.578 | 3.489 | 2.690 | 2.382 | 2.520 | 4.402 | 3.910 | 2.144 |
| Wood Heater | Evaporative | 3.294 | 2.127 | 1.433 | 1.101 | 1.261 | 3.027 | 2.540 | 0.903 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 3.726 | 2.601 | 1.891 | 1.564 | 1.713 | 3.493 | 3.009 | 1.354 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 3.687 | 2.562 | 1.852 | 1.525 | 1.674 | 3.454 | 2.970 | 1.315 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 3.629 | 2.503 | 1.793 | 1.466 | 1.616 | 3.395 | 2.911 | 1.256 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.570 | 2.445 | 1.735 | 1.408 | 1.557 | 3.337 | 2.853 | 1.198 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.642 | 2.510 | 1.804 | 1.465 | 1.621 | 3.404 | 2.917 | 1.269 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.610 | 2.477 | 1.771 | 1.432 | 1.589 | 3.371 | 2.885 | 1.237 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.561 | 2.428 | 1.722 | 1.383 | 1.540 | 3.323 | 2.836 | 1.188 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.512 | 2.379 | 1.673 | 1.334 | 1.491 | 3.274 | 2.787 | 1.139 |
| Wood Heater | Other or none specified | 3.726 | 2.601 | 1.891 | 1.564 | 1.713 | 3.493 | 3.009 | 1.354 |
| Electric - Resistance (Slab) | Evaporative | 3.754 | 2.631 | 1.864 | 1.525 | 1.684 | 3.556 | 3.055 | 1.301 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 4.186 | 3.102 | 2.315 | 2.000 | 2.131 | 4.021 | 3.521 | 1.779 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 4.147 | 3.063 | 2.276 | 1.961 | 2.091 | 3.982 | 3.482 | 1.740 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 4.088 | 3.004 | 2.217 | 1.902 | 2.033 | 3.923 | 3.424 | 1.681 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.029 | 2.945 | 2.159 | 1.843 | 1.974 | 3.865 | 3.365 | 1.623 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.104 | 3.011 | 2.224 | 1.909 | 2.041 | 3.932 | 3.432 | 1.684 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.071 | 2.978 | 2.191 | 1.876 | 2.009 | 3.899 | 3.399 | 1.652 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.022 | 2.929 | 2.142 | 1.827 | 1.960 | 3.850 | 3.350 | 1.603 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.973 | 2.881 | 2.094 | 1.779 | 1.911 | 3.801 | 3.301 | 1.554 |
| Electric - Resistance (Slab) | Other or none specified | 4.186 | 3.102 | 2.315 | 2.000 | 2.131 | 4.021 | 3.521 | 1.779 |
| Other or none specified | Evaporative | 3.141 | 1.952 | 1.314 | 0.971 | 1.145 | 2.821 | 2.352 | 0.776 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.464 | 2.305 | 1.649 | 1.315 | 1.461 | 3.179 | 2.705 | 1.134 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.425 | 2.266 | 1.610 | 1.276 | 1.422 | 3.140 | 2.666 | 1.095 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 3.366 | 2.208 | 1.551 | 1.218 | 1.363 | 3.081 | 2.607 | 1.037 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.307 | 2.149 | 1.492 | 1.159 | 1.304 | 3.022 | 2.548 | 0.978 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.400 | 2.231 | 1.577 | 1.248 | 1.395 | 3.107 | 2.634 | 1.065 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.367 | 2.199 | 1.544 | 1.216 | 1.363 | 3.075 | 2.602 | 1.033 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.318 | 2.150 | 1.495 | 1.167 | 1.314 | 3.026 | 2.553 | 0.984 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.269 | 2.101 | 1.446 | 1.118 | 1.265 | 2.977 | 2.504 | 0.935 |
| Other or none specified | Other or none specified | 3.464 | 2.305 | 1.649 | 1.315 | 1.461 | 3.179 | 2.705 | 1.134 |

Table 5.3.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – other heating – Queensland

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 3.583 | 3.087 | 1.970 | 1.836 | 1.815 | 4.723 | 4.023 | 1.610 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 3.962 | 3.481 | 2.364 | 2.236 | 2.204 | 5.108 | 4.414 | 2.010 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 3.928 | 3.447 | 2.329 | 2.201 | 2.170 | 5.073 | 4.380 | 1.975 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 3.876 | 3.395 | 2.277 | 2.149 | 2.118 | 5.021 | 4.328 | 1.923 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.824 | 3.343 | 2.225 | 2.097 | 2.066 | 4.969 | 4.276 | 1.871 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.891 | 3.406 | 2.287 | 2.157 | 2.128 | 5.033 | 4.339 | 1.934 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 3.862 | 3.377 | 2.258 | 2.128 | 2.098 | 5.003 | 4.310 | 1.905 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.818 | 3.333 | 2.215 | 2.084 | 2.055 | 4.960 | 4.266 | 1.861 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.775 | 3.290 | 2.171 | 2.041 | 2.011 | 4.916 | 4.223 | 1.817 |
| Electric - Resistance (Panel) | Other or none specified | 3.962 | 3.481 | 2.364 | 2.236 | 2.204 | 5.108 | 4.414 | 2.010 |
| Wood Heater | Evaporative | 2.994 | 2.464 | 1.395 | 1.244 | 1.240 | 4.099 | 3.396 | 1.041 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 3.373 | 2.868 | 1.801 | 1.657 | 1.638 | 4.495 | 3.798 | 1.442 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 3.339 | 2.833 | 1.766 | 1.623 | 1.603 | 4.461 | 3.764 | 1.407 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 3.287 | 2.781 | 1.714 | 1.571 | 1.551 | 4.409 | 3.712 | 1.355 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.235 | 2.729 | 1.662 | 1.519 | 1.499 | 4.357 | 3.660 | 1.303 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.302 | 2.789 | 1.724 | 1.575 | 1.558 | 4.419 | 3.722 | 1.359 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.272 | 2.760 | 1.694 | 1.546 | 1.529 | 4.390 | 3.693 | 1.329 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.229 | 2.717 | 1.651 | 1.502 | 1.485 | 4.347 | 3.649 | 1.286 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.185 | 2.673 | 1.607 | 1.458 | 1.441 | 4.303 | 3.606 | 1.242 |
| Wood Heater | Other or none specified | 3.373 | 2.868 | 1.801 | 1.657 | 1.638 | 4.495 | 3.798 | 1.442 |
| Electric - Resistance (Slab) | Evaporative | 3.643 | 3.177 | 2.022 | 1.898 | 1.865 | 4.841 | 4.129 | 1.668 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 4.025 | 3.577 | 2.423 | 2.307 | 2.262 | 5.229 | 4.525 | 2.073 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 3.990 | 3.543 | 2.389 | 2.272 | 2.227 | 5.194 | 4.490 | 2.039 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 3.938 | 3.491 | 2.337 | 2.220 | 2.175 | 5.142 | 4.438 | 1.987 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.886 | 3.439 | 2.285 | 2.168 | 2.123 | 5.090 | 4.386 | 1.935 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.953 | 3.501 | 2.346 | 2.227 | 2.183 | 5.153 | 4.449 | 1.995 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.924 | 3.472 | 2.317 | 2.197 | 2.154 | 5.124 | 4.420 | 1.965 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.881 | 3.428 | 2.273 | 2.154 | 2.110 | 5.080 | 4.376 | 1.922 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.837 | 3.385 | 2.230 | 2.110 | 2.067 | 5.037 | 4.333 | 1.878 |
| Electric - Resistance (Slab) | Other or none specified | 4.025 | 3.577 | 2.423 | 2.307 | 2.262 | 5.229 | 4.525 | 2.073 |
| Other or none specified | Evaporative | 2.776 | 2.215 | 1.215 | 1.044 | 1.054 | 3.823 | 3.132 | 0.844 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.070 | 2.524 | 1.503 | 1.346 | 1.344 | 4.125 | 3.437 | 1.157 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.035 | 2.489 | 1.468 | 1.312 | 1.309 | 4.090 | 3.402 | 1.122 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 2.983 | 2.437 | 1.416 | 1.260 | 1.257 | 4.038 | 3.350 | 1.070 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 2.931 | 2.385 | 1.364 | 1.208 | 1.205 | 3.986 | 3.298 | 1.018 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.011 | 2.462 | 1.441 | 1.287 | 1.287 | 4.064 | 3.376 | 1.096 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 2.982 | 2.433 | 1.412 | 1.258 | 1.258 | 4.035 | 3.347 | 1.067 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 2.938 | 2.389 | 1.368 | 1.214 | 1.214 | 3.991 | 3.303 | 1.023 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 2.895 | 2.346 | 1.324 | 1.171 | 1.171 | 3.948 | 3.260 | 0.980 |
| Other or none specified | Other or none specified | 3.070 | 2.524 | 1.503 | 1.346 | 1.344 | 4.125 | 3.437 | 1.157 |

Table 5.3.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – other heating – South Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 4.195 | 3.322 | 2.246 | 1.991 | 2.100 | 3.936 | 3.447 | 1.678 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 4.766 | 3.909 | 2.848 | 2.613 | 2.704 | 4.510 | 4.033 | 2.300 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 4.712 | 3.855 | 2.795 | 2.560 | 2.651 | 4.457 | 3.980 | 2.247 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 4.632 | 3.775 | 2.714 | 2.479 | 2.570 | 4.376 | 3.899 | 2.166 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.551 | 3.694 | 2.634 | 2.399 | 2.490 | 4.296 | 3.819 | 2.086 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.654 | 3.792 | 2.728 | 2.490 | 2.585 | 4.396 | 3.917 | 2.173 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 4.610 | 3.748 | 2.684 | 2.446 | 2.541 | 4.352 | 3.873 | 2.128 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.544 | 3.682 | 2.617 | 2.380 | 2.475 | 4.286 | 3.807 | 2.062 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.478 | 3.616 | 2.551 | 2.314 | 2.409 | 4.220 | 3.741 | 1.996 |
| Electric - Resistance (Panel) | Other or none specified | 4.766 | 3.909 | 2.848 | 2.613 | 2.704 | 4.510 | 4.033 | 2.300 |
| Wood Heater | Evaporative | 3.161 | 2.254 | 1.277 | 1.007 | 1.132 | 2.873 | 2.376 | 0.733 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 3.752 | 2.899 | 1.896 | 1.653 | 1.744 | 3.501 | 3.022 | 1.366 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 3.698 | 2.845 | 1.842 | 1.599 | 1.690 | 3.448 | 2.968 | 1.313 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 3.618 | 2.765 | 1.762 | 1.519 | 1.610 | 3.367 | 2.888 | 1.232 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.537 | 2.685 | 1.681 | 1.438 | 1.529 | 3.287 | 2.807 | 1.152 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.633 | 2.768 | 1.773 | 1.515 | 1.615 | 3.377 | 2.891 | 1.249 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.589 | 2.724 | 1.729 | 1.471 | 1.571 | 3.333 | 2.847 | 1.205 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.523 | 2.658 | 1.663 | 1.405 | 1.505 | 3.266 | 2.781 | 1.139 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.457 | 2.592 | 1.597 | 1.338 | 1.439 | 3.200 | 2.715 | 1.073 |
| Wood Heater | Other or none specified | 3.752 | 2.899 | 1.896 | 1.653 | 1.744 | 3.501 | 3.022 | 1.366 |
| Electric - Resistance (Slab) | Evaporative | 3.947 | 3.133 | 1.979 | 1.741 | 1.830 | 3.781 | 3.265 | 1.401 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 4.536 | 3.751 | 2.618 | 2.403 | 2.463 | 4.383 | 3.884 | 2.072 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 4.483 | 3.697 | 2.564 | 2.350 | 2.410 | 4.329 | 3.830 | 2.018 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 4.402 | 3.617 | 2.484 | 2.269 | 2.329 | 4.249 | 3.750 | 1.938 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.322 | 3.536 | 2.404 | 2.189 | 2.249 | 4.169 | 3.669 | 1.857 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.419 | 3.627 | 2.492 | 2.269 | 2.335 | 4.263 | 3.761 | 1.945 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.375 | 3.583 | 2.448 | 2.225 | 2.291 | 4.219 | 3.717 | 1.901 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.309 | 3.517 | 2.382 | 2.159 | 2.225 | 4.153 | 3.651 | 1.835 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.243 | 3.451 | 2.316 | 2.093 | 2.159 | 4.087 | 3.584 | 1.768 |
| Electric - Resistance (Slab) | Other or none specified | 4.536 | 3.751 | 2.618 | 2.403 | 2.463 | 4.383 | 3.884 | 2.072 |
| Other or none specified | Evaporative | 3.148 | 2.206 | 1.290 | 1.013 | 1.146 | 2.800 | 2.324 | 0.747 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.588 | 2.686 | 1.745 | 1.469 | 1.587 | 3.272 | 2.799 | 1.229 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.535 | 2.632 | 1.691 | 1.415 | 1.533 | 3.218 | 2.746 | 1.175 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 3.454 | 2.552 | 1.611 | 1.335 | 1.453 | 3.138 | 2.665 | 1.095 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.374 | 2.471 | 1.530 | 1.254 | 1.372 | 3.058 | 2.585 | 1.014 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.495 | 2.587 | 1.645 | 1.378 | 1.483 | 3.174 | 2.701 | 1.136 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.451 | 2.542 | 1.601 | 1.334 | 1.439 | 3.130 | 2.657 | 1.092 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.384 | 2.476 | 1.535 | 1.268 | 1.373 | 3.064 | 2.591 | 1.026 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.318 | 2.410 | 1.469 | 1.202 | 1.307 | 2.998 | 2.525 | 0.960 |
| Other or none specified | Other or none specified | 3.588 | 2.686 | 1.745 | 1.469 | 1.587 | 3.272 | 2.799 | 1.229 |

Table 5.3.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 5 – other heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 4.757 | 3.564 | 2.856 | 2.511 | 2.670 | 5.208 | 4.559 | 2.336 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 5.622 | 4.462 | 3.737 | 3.405 | 3.547 | 6.098 | 5.455 | 3.229 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 5.546 | 4.386 | 3.661 | 3.329 | 3.471 | 6.021 | 5.378 | 3.153 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 5.431 | 4.271 | 3.546 | 3.215 | 3.357 | 5.907 | 5.264 | 3.039 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.317 | 4.157 | 3.432 | 3.100 | 3.242 | 5.793 | 5.150 | 2.924 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 5.456 | 4.288 | 3.564 | 3.233 | 3.379 | 5.926 | 5.282 | 3.055 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 5.393 | 4.225 | 3.501 | 3.170 | 3.316 | 5.863 | 5.219 | 2.992 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.298 | 4.130 | 3.407 | 3.075 | 3.221 | 5.768 | 5.124 | 2.897 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.204 | 4.036 | 3.312 | 2.980 | 3.127 | 5.673 | 5.030 | 2.803 |
| Electric - Resistance (Panel) | Other or none specified | 5.622 | 4.462 | 3.737 | 3.405 | 3.547 | 6.098 | 5.455 | 3.229 |
| Wood Heater | Evaporative | 3.480 | 2.260 | 1.598 | 1.234 | 1.389 | 3.928 | 3.261 | 1.083 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 4.367 | 3.213 | 2.498 | 2.160 | 2.295 | 4.873 | 4.212 | 1.990 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 4.291 | 3.137 | 2.421 | 2.083 | 2.219 | 4.797 | 4.136 | 1.914 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 4.177 | 3.022 | 2.307 | 1.969 | 2.105 | 4.682 | 4.021 | 1.800 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.062 | 2.908 | 2.193 | 1.855 | 1.990 | 4.568 | 3.907 | 1.685 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.195 | 3.028 | 2.319 | 1.982 | 2.116 | 4.692 | 4.030 | 1.813 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.132 | 2.965 | 2.256 | 1.919 | 2.053 | 4.629 | 3.967 | 1.749 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.037 | 2.870 | 2.161 | 1.825 | 1.958 | 4.534 | 3.872 | 1.655 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.943 | 2.776 | 2.067 | 1.730 | 1.863 | 4.439 | 3.777 | 1.560 |
| Wood Heater | Other or none specified | 4.367 | 3.213 | 2.498 | 2.160 | 2.295 | 4.873 | 4.212 | 1.990 |
| Electric - Resistance (Slab) | Evaporative | 3.972 | 2.789 | 2.045 | 1.701 | 1.852 | 4.498 | 3.819 | 1.517 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 4.864 | 3.739 | 2.972 | 2.653 | 2.769 | 5.435 | 4.765 | 2.469 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 4.788 | 3.663 | 2.896 | 2.577 | 2.693 | 5.359 | 4.689 | 2.393 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 4.674 | 3.548 | 2.782 | 2.462 | 2.578 | 5.244 | 4.574 | 2.279 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.559 | 3.434 | 2.668 | 2.348 | 2.464 | 5.130 | 4.460 | 2.164 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.694 | 3.555 | 2.790 | 2.469 | 2.593 | 5.255 | 4.584 | 2.283 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.631 | 3.492 | 2.727 | 2.406 | 2.529 | 5.192 | 4.521 | 2.220 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.536 | 3.397 | 2.632 | 2.311 | 2.435 | 5.098 | 4.426 | 2.125 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.441 | 3.302 | 2.538 | 2.216 | 2.340 | 5.003 | 4.331 | 2.031 |
| Electric - Resistance (Slab) | Other or none specified | 4.864 | 3.739 | 2.972 | 2.653 | 2.769 | 5.435 | 4.765 | 2.469 |
| Other or none specified | Evaporative | 3.296 | 2.034 | 1.451 | 1.103 | 1.278 | 3.623 | 2.984 | 0.962 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.957 | 2.741 | 2.109 | 1.761 | 1.922 | 4.336 | 3.696 | 1.598 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.880 | 2.664 | 2.033 | 1.684 | 1.846 | 4.260 | 3.620 | 1.522 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 3.766 | 2.550 | 1.919 | 1.570 | 1.731 | 4.145 | 3.505 | 1.408 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.652 | 2.436 | 1.804 | 1.456 | 1.617 | 4.031 | 3.391 | 1.294 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.822 | 2.597 | 1.979 | 1.617 | 1.787 | 4.192 | 3.553 | 1.464 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.759 | 2.534 | 1.916 | 1.554 | 1.724 | 4.129 | 3.490 | 1.401 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.664 | 2.439 | 1.821 | 1.459 | 1.629 | 4.035 | 3.395 | 1.306 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.569 | 2.344 | 1.726 | 1.365 | 1.534 | 3.940 | 3.300 | 1.211 |
| Other or none specified | Other or none specified | 3.957 | 2.741 | 2.109 | 1.761 | 1.922 | 4.336 | 3.696 | 1.598 |

2.4.6 Climate zone 6

Table 6.1.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – gas heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 6.753 | 5.623 | 4.590 | 4.265 | 5.042 | 6.738 | 6.122 | 4.315 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.059 | 5.938 | 4.908 | 4.589 | 5.355 | 7.043 | 6.433 | 4.639 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.023 | 5.902 | 4.872 | 4.553 | 5.319 | 7.007 | 6.397 | 4.603 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.968 | 5.848 | 4.818 | 4.499 | 5.265 | 6.952 | 6.343 | 4.549 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.914 | 5.793 | 4.763 | 4.444 | 5.210 | 6.898 | 6.288 | 4.495 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 6.997 | 5.874 | 4.845 | 4.525 | 5.292 | 6.979 | 6.369 | 4.575 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.967 | 5.843 | 4.814 | 4.494 | 5.262 | 6.948 | 6.338 | 4.544 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.921 | 5.797 | 4.769 | 4.448 | 5.216 | 6.902 | 6.292 | 4.498 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 6.875 | 5.752 | 4.723 | 4.402 | 5.170 | 6.856 | 6.247 | 4.452 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Other or none specified | 7.059 | 5.938 | 4.908 | 4.589 | 5.355 | 7.043 | 6.433 | 4.639 |
| Gas – ducted < 4.5 Stars | Evaporative | 6.387 | 5.257 | 4.223 | 3.899 | 4.676 | 6.372 | 5.755 | 3.949 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.693 | 5.572 | 4.542 | 4.223 | 4.989 | 6.676 | 6.067 | 4.273 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.656 | 5.535 | 4.506 | 4.186 | 4.952 | 6.640 | 6.030 | 4.237 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.602 | 5.481 | 4.451 | 4.132 | 4.898 | 6.586 | 5.976 | 4.182 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.548 | 5.427 | 4.397 | 4.078 | 4.844 | 6.531 | 5.922 | 4.128 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.631 | 5.507 | 4.478 | 4.158 | 4.926 | 6.612 | 6.002 | 4.208 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.600 | 5.477 | 4.448 | 4.127 | 4.895 | 6.582 | 5.972 | 4.178 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.554 | 5.431 | 4.402 | 4.082 | 4.849 | 6.536 | 5.926 | 4.132 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.508 | 5.385 | 4.356 | 4.036 | 4.804 | 6.490 | 5.880 | 4.086 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Other or none specified | 6.693 | 5.572 | 4.542 | 4.223 | 4.989 | 6.676 | 6.067 | 4.273 |
| Gas – ducted < 6 Stars | Evaporative | 5.837 | 4.707 | 3.673 | 3.349 | 4.126 | 5.822 | 5.205 | 3.399 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.143 | 5.022 | 3.992 | 3.673 | 4.439 | 6.126 | 5.517 | 3.723 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.106 | 4.986 | 3.956 | 3.637 | 4.403 | 6.090 | 5.481 | 3.687 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.052 | 4.931 | 3.901 | 3.582 | 4.348 | 6.036 | 5.426 | 3.633 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.998 | 4.877 | 3.847 | 3.528 | 4.294 | 5.982 | 5.372 | 3.578 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.081 | 4.958 | 3.929 | 3.608 | 4.376 | 6.062 | 5.453 | 3.658 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.050 | 4.927 | 3.898 | 3.578 | 4.345 | 6.032 | 5.422 | 3.628 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.005 | 4.881 | 3.852 | 3.532 | 4.300 | 5.986 | 5.376 | 3.582 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.959 | 4.835 | 3.806 | 3.486 | 4.254 | 5.940 | 5.330 | 3.536 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Other or none specified | 6.143 | 5.022 | 3.992 | 3.673 | 4.439 | 6.126 | 5.517 | 3.723 |
| Gas – ducted ≥ 6 Stars | Evaporative | 5.287 | 4.157 | 3.124 | 2.799 | 3.576 | 5.272 | 4.656 | 2.849 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.593 | 4.472 | 3.442 | 3.123 | 3.889 | 5.577 | 4.967 | 3.173 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.557 | 4.436 | 3.406 | 3.087 | 3.853 | 5.540 | 4.931 | 3.137 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.502 | 4.382 | 3.352 | 3.033 | 3.798 | 5.486 | 4.876 | 3.083 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.448 | 4.327 | 3.297 | 2.978 | 3.744 | 5.432 | 4.822 | 3.028 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.531 | 4.408 | 3.379 | 3.058 | 3.826 | 5.513 | 4.903 | 3.109 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.501 | 4.377 | 3.348 | 3.028 | 3.796 | 5.482 | 4.872 | 3.078 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.455 | 4.331 | 3.302 | 2.982 | 3.750 | 5.436 | 4.826 | 3.032 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.409 | 4.285 | 3.257 | 2.936 | 3.704 | 5.390 | 4.780 | 2.986 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Other or none specified | 5.593 | 4.472 | 3.442 | 3.123 | 3.889 | 5.577 | 4.967 | 3.173 |
| Gas - non ducted < 3 Stars | Evaporative | 5.838 | 4.670 | 3.671 | 3.330 | 4.115 | 5.777 | 5.164 | 3.379 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.146 | 4.992 | 3.991 | 3.656 | 4.430 | 6.090 | 5.483 | 3.705 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.110 | 4.955 | 3.955 | 3.620 | 4.393 | 6.054 | 5.447 | 3.669 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.056 | 4.901 | 3.901 | 3.566 | 4.339 | 6.000 | 5.393 | 3.615 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.001 | 4.847 | 3.846 | 3.511 | 4.285 | 5.945 | 5.338 | 3.561 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.085 | 4.927 | 3.927 | 3.590 | 4.367 | 6.026 | 5.419 | 3.639 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.054 | 4.896 | 3.897 | 3.560 | 4.336 | 5.995 | 5.388 | 3.609 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.008 | 4.851 | 3.851 | 3.514 | 4.290 | 5.949 | 5.342 | 3.563 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.963 | 4.805 | 3.805 | 3.468 | 4.244 | 5.903 | 5.296 | 3.517 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Other or none specified | 6.146 | 4.992 | 3.991 | 3.656 | 4.430 | 6.090 | 5.483 | 3.705 |
| Gas - non ducted < 4.5 Stars | Evaporative | 5.649 | 4.481 | 3.482 | 3.141 | 3.926 | 5.587 | 4.975 | 3.190 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.957 | 4.802 | 3.802 | 3.467 | 4.240 | 5.901 | 5.294 | 3.516 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.921 | 4.766 | 3.766 | 3.431 | 4.204 | 5.865 | 5.258 | 3.480 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.866 | 4.712 | 3.712 | 3.376 | 4.150 | 5.811 | 5.203 | 3.426 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.812 | 4.658 | 3.657 | 3.322 | 4.096 | 5.756 | 5.149 | 3.371 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.896 | 4.738 | 3.738 | 3.401 | 4.178 | 5.837 | 5.229 | 3.450 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.865 | 4.707 | 3.708 | 3.370 | 4.147 | 5.806 | 5.199 | 3.420 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.819 | 4.661 | 3.662 | 3.324 | 4.101 | 5.760 | 5.153 | 3.374 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.773 | 4.615 | 3.616 | 3.279 | 4.055 | 5.714 | 5.107 | 3.328 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 5.957 | 4.802 | 3.802 | 3.467 | 4.240 | 5.901 | 5.294 | 3.516 |
| Gas - non ducted < 6 Stars | Evaporative | 5.365 | 4.197 | 3.198 | 2.857 | 3.642 | 5.304 | 4.691 | 2.906 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.673 | 4.519 | 3.518 | 3.183 | 3.957 | 5.617 | 5.010 | 3.232 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.637 | 4.482 | 3.482 | 3.147 | 3.920 | 5.581 | 4.974 | 3.196 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.583 | 4.428 | 3.428 | 3.093 | 3.866 | 5.527 | 4.920 | 3.142 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.528 | 4.374 | 3.373 | 3.038 | 3.812 | 5.472 | 4.865 | 3.088 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 5.612 | 4.454 | 3.454 | 3.117 | 3.894 | 5.553 | 4.946 | 3.166 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.581 | 4.423 | 3.424 | 3.087 | 3.863 | 5.522 | 4.915 | 3.136 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.535 | 4.378 | 3.378 | 3.041 | 3.817 | 5.476 | 4.869 | 3.090 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.490 | 4.332 | 3.332 | 2.995 | 3.772 | 5.430 | 4.823 | 3.044 |
| Gas - non ducted < 6 Stars | Other or none specified | 5.673 | 4.519 | 3.518 | 3.183 | 3.957 | 5.617 | 5.010 | 3.232 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 5.081 | 3.914 | 2.914 | 2.573 | 3.358 | 5.020 | 4.407 | 2.622 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.389 | 4.235 | 3.235 | 2.899 | 3.673 | 5.334 | 4.726 | 2.949 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.353 | 4.199 | 3.198 | 2.863 | 3.637 | 5.297 | 4.690 | 2.912 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.299 | 4.144 | 3.144 | 2.809 | 3.582 | 5.243 | 4.636 | 2.858 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.245 | 4.090 | 3.090 | 2.755 | 3.528 | 5.189 | 4.582 | 2.804 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.328 | 4.170 | 3.171 | 2.833 | 3.610 | 5.269 | 4.662 | 2.883 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.298 | 4.140 | 3.140 | 2.803 | 3.580 | 5.238 | 4.631 | 2.852 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 5.252 | 4.094 | 3.094 | 2.757 | 3.534 | 5.193 | 4.585 | 2.806 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.206 | 4.048 | 3.048 | 2.711 | 3.488 | 5.147 | 4.540 | 2.760 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 5.389 | 4.235 | 3.235 | 2.899 | 3.673 | 5.334 | 4.726 | 2.949 |

Table 6.1.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – gas heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 4.708 | 4.334 | 2.934 | 2.844 | 3.260 | 3.756 | 3.452 | 2.503 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.961 | 4.596 | 3.197 | 3.111 | 3.518 | 4.021 | 3.717 | 2.771 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.932 | 4.566 | 3.167 | 3.081 | 3.488 | 3.991 | 3.687 | 2.741 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.887 | 4.521 | 3.122 | 3.036 | 3.443 | 3.946 | 3.643 | 2.696 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.842 | 4.477 | 3.078 | 2.992 | 3.398 | 3.901 | 3.598 | 2.651 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 4.911 | 4.543 | 3.143 | 3.057 | 3.466 | 3.967 | 3.664 | 2.716 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.886 | 4.519 | 3.119 | 3.032 | 3.441 | 3.943 | 3.639 | 2.692 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.849 | 4.482 | 3.082 | 2.995 | 3.404 | 3.906 | 3.602 | 2.655 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.812 | 4.445 | 3.045 | 2.958 | 3.367 | 3.869 | 3.565 | 2.618 |
| Gas – ducted < 3 Stars | Other or none specified | 4.961 | 4.596 | 3.197 | 3.111 | 3.518 | 4.021 | 3.717 | 2.771 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 4.511 | 4.137 | 2.737 | 2.647 | 3.062 | 3.558 | 3.255 | 2.306 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.764 | 4.398 | 2.999 | 2.913 | 3.320 | 3.823 | 3.520 | 2.573 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.734 | 4.369 | 2.969 | 2.883 | 3.290 | 3.793 | 3.490 | 2.543 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.689 | 4.324 | 2.925 | 2.839 | 3.246 | 3.748 | 3.445 | 2.499 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.645 | 4.279 | 2.880 | 2.794 | 3.201 | 3.704 | 3.400 | 2.454 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.713 | 4.346 | 2.946 | 2.859 | 3.268 | 3.770 | 3.466 | 2.519 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.689 | 4.321 | 2.921 | 2.834 | 3.243 | 3.745 | 3.441 | 2.494 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.652 | 4.284 | 2.884 | 2.797 | 3.207 | 3.708 | 3.405 | 2.457 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.615 | 4.247 | 2.847 | 2.761 | 3.170 | 3.671 | 3.368 | 2.420 |
| Gas – ducted < 4.5 Stars | Other or none specified | 4.764 | 4.398 | 2.999 | 2.913 | 3.320 | 3.823 | 3.520 | 2.573 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 4.214 | 3.840 | 2.440 | 2.350 | 2.766 | 3.262 | 2.959 | 2.009 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.468 | 4.102 | 2.703 | 2.617 | 3.024 | 3.527 | 3.223 | 2.277 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.438 | 4.072 | 2.673 | 2.587 | 2.994 | 3.497 | 3.194 | 2.247 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.393 | 4.028 | 2.628 | 2.542 | 2.949 | 3.452 | 3.149 | 2.202 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.348 | 3.983 | 2.584 | 2.498 | 2.905 | 3.407 | 3.104 | 2.158 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.417 | 4.049 | 2.649 | 2.563 | 2.972 | 3.473 | 3.170 | 2.222 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.392 | 4.025 | 2.625 | 2.538 | 2.947 | 3.449 | 3.145 | 2.198 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.355 | 3.988 | 2.588 | 2.501 | 2.910 | 3.412 | 3.108 | 2.161 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.318 | 3.951 | 2.551 | 2.464 | 2.873 | 3.375 | 3.071 | 2.124 |
| Gas – ducted < 6 Stars | Other or none specified | 4.468 | 4.102 | 2.703 | 2.617 | 3.024 | 3.527 | 3.223 | 2.277 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 3.918 | 3.544 | 2.144 | 2.054 | 2.470 | 2.966 | 2.662 | 1.713 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.171 | 3.806 | 2.407 | 2.321 | 2.727 | 3.230 | 2.927 | 1.980 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.141 | 3.776 | 2.377 | 2.291 | 2.698 | 3.201 | 2.897 | 1.951 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.097 | 3.731 | 2.332 | 2.246 | 2.653 | 3.156 | 2.853 | 1.906 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.052 | 3.686 | 2.287 | 2.201 | 2.608 | 3.111 | 2.808 | 1.861 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.120 | 3.753 | 2.353 | 2.266 | 2.675 | 3.177 | 2.873 | 1.926 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.096 | 3.728 | 2.328 | 2.242 | 2.651 | 3.153 | 2.849 | 1.902 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.059 | 3.692 | 2.292 | 2.205 | 2.614 | 3.116 | 2.812 | 1.865 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.022 | 3.655 | 2.255 | 2.168 | 2.577 | 3.079 | 2.775 | 1.828 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 4.171 | 3.806 | 2.407 | 2.321 | 2.727 | 3.230 | 2.927 | 1.980 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 4.190 | 3.795 | 2.421 | 2.317 | 2.738 | 3.219 | 2.918 | 1.982 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.445 | 4.058 | 2.683 | 2.587 | 2.997 | 3.484 | 3.185 | 2.250 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.416 | 4.028 | 2.653 | 2.557 | 2.968 | 3.454 | 3.156 | 2.220 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.371 | 3.984 | 2.609 | 2.512 | 2.923 | 3.410 | 3.111 | 2.176 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.326 | 3.939 | 2.564 | 2.467 | 2.878 | 3.365 | 3.066 | 2.131 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.394 | 4.005 | 2.630 | 2.532 | 2.944 | 3.431 | 3.131 | 2.195 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.369 | 3.981 | 2.605 | 2.507 | 2.920 | 3.406 | 3.106 | 2.170 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.332 | 3.944 | 2.569 | 2.471 | 2.883 | 3.369 | 3.070 | 2.133 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.296 | 3.907 | 2.532 | 2.434 | 2.846 | 3.332 | 3.033 | 2.097 |
| Gas - non ducted < 3 Stars | Other or none specified | 4.445 | 4.058 | 2.683 | 2.587 | 2.997 | 3.484 | 3.185 | 2.250 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 4.089 | 3.694 | 2.320 | 2.217 | 2.638 | 3.118 | 2.817 | 1.881 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.345 | 3.957 | 2.582 | 2.486 | 2.897 | 3.383 | 3.085 | 2.149 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.315 | 3.928 | 2.553 | 2.456 | 2.867 | 3.353 | 3.055 | 2.120 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.270 | 3.883 | 2.508 | 2.411 | 2.822 | 3.309 | 3.010 | 2.075 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.225 | 3.838 | 2.463 | 2.367 | 2.777 | 3.264 | 2.965 | 2.030 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.293 | 3.905 | 2.529 | 2.431 | 2.844 | 3.330 | 3.030 | 2.094 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.269 | 3.880 | 2.505 | 2.407 | 2.819 | 3.305 | 3.006 | 2.070 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.232 | 3.843 | 2.468 | 2.370 | 2.782 | 3.268 | 2.969 | 2.033 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.195 | 3.806 | 2.431 | 2.333 | 2.745 | 3.231 | 2.932 | 1.996 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 4.345 | 3.957 | 2.582 | 2.486 | 2.897 | 3.383 | 3.085 | 2.149 |
| Gas - non ducted < 6 Stars | Evaporative | 3.938 | 3.543 | 2.169 | 2.066 | 2.487 | 2.967 | 2.666 | 1.730 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.194 | 3.806 | 2.431 | 2.335 | 2.746 | 3.232 | 2.933 | 1.998 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.164 | 3.777 | 2.401 | 2.305 | 2.716 | 3.202 | 2.904 | 1.968 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.119 | 3.732 | 2.357 | 2.260 | 2.671 | 3.158 | 2.859 | 1.924 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.074 | 3.687 | 2.312 | 2.216 | 2.626 | 3.113 | 2.814 | 1.879 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.142 | 3.754 | 2.378 | 2.280 | 2.692 | 3.179 | 2.879 | 1.943 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.117 | 3.729 | 2.354 | 2.256 | 2.668 | 3.154 | 2.855 | 1.918 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.081 | 3.692 | 2.317 | 2.219 | 2.631 | 3.117 | 2.818 | 1.882 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.044 | 3.655 | 2.280 | 2.182 | 2.594 | 3.080 | 2.781 | 1.845 |
| Gas - non ducted < 6 Stars | Other or none specified | 4.194 | 3.806 | 2.431 | 2.335 | 2.746 | 3.232 | 2.933 | 1.998 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 3.787 | 3.392 | 2.018 | 1.914 | 2.335 | 2.816 | 2.514 | 1.579 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.042 | 3.655 | 2.280 | 2.184 | 2.594 | 3.081 | 2.782 | 1.847 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.013 | 3.625 | 2.250 | 2.154 | 2.565 | 3.051 | 2.753 | 1.817 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.968 | 3.581 | 2.206 | 2.109 | 2.520 | 3.006 | 2.708 | 1.773 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.923 | 3.536 | 2.161 | 2.064 | 2.475 | 2.962 | 2.663 | 1.728 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.991 | 3.602 | 2.227 | 2.129 | 2.541 | 3.028 | 2.728 | 1.792 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.966 | 3.578 | 2.202 | 2.104 | 2.517 | 3.003 | 2.703 | 1.767 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.929 | 3.541 | 2.166 | 2.067 | 2.480 | 2.966 | 2.666 | 1.730 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.893 | 3.504 | 2.129 | 2.031 | 2.443 | 2.929 | 2.630 | 1.694 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 4.042 | 3.655 | 2.280 | 2.184 | 2.594 | 3.081 | 2.782 | 1.847 |

Table 6.1.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – gas heating – South Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 7.102 | 6.247 | 4.783 | 4.551 | 5.284 | 7.053 | 6.398 | 4.481 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.426 | 6.579 | 5.125 | 4.899 | 5.619 | 7.376 | 6.730 | 4.829 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.387 | 6.540 | 5.086 | 4.860 | 5.580 | 7.337 | 6.692 | 4.791 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.329 | 6.482 | 5.028 | 4.802 | 5.522 | 7.280 | 6.634 | 4.733 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.271 | 6.425 | 4.970 | 4.744 | 5.464 | 7.222 | 6.576 | 4.675 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 7.360 | 6.510 | 5.057 | 4.829 | 5.551 | 7.307 | 6.661 | 4.759 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.327 | 6.477 | 5.024 | 4.796 | 5.518 | 7.275 | 6.628 | 4.727 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.278 | 6.428 | 4.975 | 4.748 | 5.470 | 7.226 | 6.580 | 4.678 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 7.229 | 6.379 | 4.926 | 4.699 | 5.421 | 7.177 | 6.531 | 4.629 |
| Gas – ducted < 3 Stars | Other or none specified | 7.426 | 6.579 | 5.125 | 4.899 | 5.619 | 7.376 | 6.730 | 4.829 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 6.713 | 5.858 | 4.394 | 4.162 | 4.895 | 6.664 | 6.009 | 4.092 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.037 | 6.190 | 4.735 | 4.510 | 5.230 | 6.987 | 6.341 | 4.440 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.998 | 6.151 | 4.697 | 4.471 | 5.191 | 6.948 | 6.303 | 4.402 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.940 | 6.093 | 4.639 | 4.413 | 5.133 | 6.890 | 6.245 | 4.344 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.882 | 6.035 | 4.581 | 4.355 | 5.075 | 6.833 | 6.187 | 4.286 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.971 | 6.120 | 4.668 | 4.440 | 5.162 | 6.918 | 6.272 | 4.370 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.938 | 6.088 | 4.635 | 4.407 | 5.129 | 6.885 | 6.239 | 4.338 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.889 | 6.039 | 4.586 | 4.358 | 5.080 | 6.837 | 6.190 | 4.289 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.840 | 5.990 | 4.537 | 4.310 | 5.032 | 6.788 | 6.142 | 4.240 |
| Gas – ducted < 4.5 Stars | Other or none specified | 7.037 | 6.190 | 4.735 | 4.510 | 5.230 | 6.987 | 6.341 | 4.440 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 6.129 | 5.274 | 3.810 | 3.578 | 4.312 | 6.080 | 5.425 | 3.508 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.453 | 5.606 | 4.152 | 3.926 | 4.646 | 6.403 | 5.758 | 3.857 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.414 | 5.568 | 4.113 | 3.887 | 4.607 | 6.365 | 5.719 | 3.818 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.357 | 5.510 | 4.055 | 3.830 | 4.550 | 6.307 | 5.661 | 3.760 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.299 | 5.452 | 3.998 | 3.772 | 4.492 | 6.249 | 5.603 | 3.702 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.387 | 5.537 | 4.084 | 3.856 | 4.578 | 6.334 | 5.688 | 3.787 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.354 | 5.504 | 4.051 | 3.824 | 4.546 | 6.302 | 5.656 | 3.754 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.306 | 5.455 | 4.003 | 3.775 | 4.497 | 6.253 | 5.607 | 3.705 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.257 | 5.407 | 3.954 | 3.726 | 4.448 | 6.204 | 5.558 | 3.657 |
| Gas – ducted < 6 Stars | Other or none specified | 6.453 | 5.606 | 4.152 | 3.926 | 4.646 | 6.403 | 5.758 | 3.857 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 5.545 | 4.690 | 3.227 | 2.994 | 3.728 | 5.496 | 4.842 | 2.924 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.869 | 5.022 | 3.568 | 3.342 | 4.062 | 5.820 | 5.174 | 3.273 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.831 | 4.984 | 3.530 | 3.304 | 4.024 | 5.781 | 5.135 | 3.234 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.773 | 4.926 | 3.472 | 3.246 | 3.966 | 5.723 | 5.078 | 3.177 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.715 | 4.868 | 3.414 | 3.188 | 3.908 | 5.665 | 5.020 | 3.119 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.803 | 4.953 | 3.500 | 3.273 | 3.995 | 5.751 | 5.105 | 3.203 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.771 | 4.921 | 3.468 | 3.240 | 3.962 | 5.718 | 5.072 | 3.171 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.722 | 4.872 | 3.419 | 3.191 | 3.913 | 5.669 | 5.023 | 3.122 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.673 | 4.823 | 3.370 | 3.142 | 3.864 | 5.621 | 4.974 | 3.073 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 5.869 | 5.022 | 3.568 | 3.342 | 4.062 | 5.820 | 5.174 | 3.273 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 6.129 | 5.230 | 3.808 | 3.553 | 4.297 | 6.028 | 5.377 | 3.484 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.458 | 5.571 | 4.151 | 3.906 | 4.636 | 6.362 | 5.719 | 3.837 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.419 | 5.533 | 4.112 | 3.867 | 4.597 | 6.324 | 5.680 | 3.798 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.362 | 5.475 | 4.054 | 3.809 | 4.539 | 6.266 | 5.623 | 3.740 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.304 | 5.417 | 3.997 | 3.752 | 4.482 | 6.208 | 5.565 | 3.682 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.392 | 5.502 | 4.083 | 3.835 | 4.568 | 6.293 | 5.649 | 3.765 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.359 | 5.469 | 4.050 | 3.802 | 4.536 | 6.260 | 5.617 | 3.733 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.310 | 5.421 | 4.001 | 3.753 | 4.487 | 6.211 | 5.568 | 3.684 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.262 | 5.372 | 3.952 | 3.705 | 4.438 | 6.162 | 5.519 | 3.635 |
| Gas - non ducted < 3 Stars | Other or none specified | 6.458 | 5.571 | 4.151 | 3.906 | 4.636 | 6.362 | 5.719 | 3.837 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 5.929 | 5.029 | 3.608 | 3.353 | 4.097 | 5.827 | 5.177 | 3.284 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.257 | 5.371 | 3.950 | 3.705 | 4.435 | 6.162 | 5.518 | 3.636 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.219 | 5.332 | 3.912 | 3.667 | 4.397 | 6.123 | 5.480 | 3.597 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.161 | 5.274 | 3.854 | 3.609 | 4.339 | 6.065 | 5.422 | 3.540 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.103 | 5.216 | 3.796 | 3.551 | 4.281 | 6.007 | 5.364 | 3.482 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.191 | 5.301 | 3.882 | 3.634 | 4.368 | 6.092 | 5.449 | 3.565 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.159 | 5.269 | 3.849 | 3.602 | 4.335 | 6.060 | 5.416 | 3.532 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.110 | 5.220 | 3.801 | 3.553 | 4.286 | 6.011 | 5.367 | 3.483 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.061 | 5.171 | 3.752 | 3.504 | 4.237 | 5.962 | 5.318 | 3.435 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 6.257 | 5.371 | 3.950 | 3.705 | 4.435 | 6.162 | 5.518 | 3.636 |
| Gas - non ducted < 6 Stars | Evaporative | 5.628 | 4.729 | 3.307 | 3.052 | 3.796 | 5.526 | 4.876 | 2.983 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.957 | 5.070 | 3.649 | 3.404 | 4.135 | 5.861 | 5.218 | 3.335 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.918 | 5.031 | 3.611 | 3.366 | 4.096 | 5.822 | 5.179 | 3.297 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.860 | 4.973 | 3.553 | 3.308 | 4.038 | 5.765 | 5.121 | 3.239 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.802 | 4.916 | 3.495 | 3.250 | 3.980 | 5.707 | 5.063 | 3.181 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 5.890 | 5.000 | 3.581 | 3.333 | 4.067 | 5.791 | 5.148 | 3.264 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.858 | 4.968 | 3.549 | 3.301 | 4.034 | 5.759 | 5.115 | 3.231 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.809 | 4.919 | 3.500 | 3.252 | 3.985 | 5.710 | 5.066 | 3.183 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.760 | 4.870 | 3.451 | 3.203 | 3.937 | 5.661 | 5.018 | 3.134 |
| Gas - non ducted < 6 Stars | Other or none specified | 5.957 | 5.070 | 3.649 | 3.404 | 4.135 | 5.861 | 5.218 | 3.335 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 5.327 | 4.428 | 3.006 | 2.751 | 3.495 | 5.226 | 4.575 | 2.682 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.656 | 4.769 | 3.349 | 3.104 | 3.834 | 5.560 | 4.917 | 3.034 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.617 | 4.730 | 3.310 | 3.065 | 3.795 | 5.522 | 4.878 | 2.996 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.559 | 4.673 | 3.252 | 3.007 | 3.737 | 5.464 | 4.820 | 2.938 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.501 | 4.615 | 3.194 | 2.949 | 3.679 | 5.406 | 4.762 | 2.880 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.590 | 4.700 | 3.280 | 3.033 | 3.766 | 5.490 | 4.847 | 2.963 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.557 | 4.667 | 3.248 | 3.000 | 3.733 | 5.458 | 4.814 | 2.931 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 5.508 | 4.618 | 3.199 | 2.951 | 3.685 | 5.409 | 4.766 | 2.882 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.459 | 4.569 | 3.150 | 2.902 | 3.636 | 5.360 | 4.717 | 2.833 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 5.656 | 4.769 | 3.349 | 3.104 | 3.834 | 5.560 | 4.917 | 3.034 |

Table 6.1.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – gas heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 8.876 | 7.480 | 6.319 | 5.907 | 6.918 | 9.859 | 8.922 | 6.209 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 9.214 | 7.836 | 6.695 | 6.288 | 7.277 | X | 9.255 | 6.587 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 9.172 | 7.794 | 6.653 | 6.246 | 7.235 | X | 9.213 | 6.544 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 9.109 | 7.731 | 6.589 | 6.183 | 7.172 | X | 9.149 | 6.481 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 9.046 | 7.668 | 6.526 | 6.120 | 7.109 | X | 9.086 | 6.418 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 9.141 | 7.759 | 6.617 | 6.209 | 7.201 | X | 9.179 | 6.508 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 9.106 | 7.723 | 6.582 | 6.174 | 7.166 | X | 9.144 | 6.472 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 9.052 | 7.670 | 6.528 | 6.121 | 7.112 | X | 9.090 | 6.419 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 8.999 | 7.617 | 6.475 | 6.067 | 7.059 | 9.958 | 9.037 | 6.366 |
| Gas – ducted < 3 Stars | Other or none specified | 9.214 | 7.836 | 6.695 | 6.288 | 7.277 | X | 9.255 | 6.587 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 8.324 | 6.929 | 5.767 | 5.356 | 6.366 | 9.307 | 8.371 | 5.658 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 8.663 | 7.284 | 6.143 | 5.736 | 6.726 | 9.623 | 8.703 | 6.035 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 8.621 | 7.242 | 6.101 | 5.694 | 6.684 | 9.580 | 8.661 | 5.993 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 8.557 | 7.179 | 6.038 | 5.631 | 6.620 | 9.517 | 8.598 | 5.930 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.494 | 7.116 | 5.975 | 5.568 | 6.557 | 9.454 | 8.535 | 5.866 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 8.589 | 7.207 | 6.066 | 5.658 | 6.650 | 9.548 | 8.628 | 5.956 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 8.554 | 7.172 | 6.030 | 5.622 | 6.614 | 9.513 | 8.592 | 5.921 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.501 | 7.119 | 5.977 | 5.569 | 6.561 | 9.460 | 8.539 | 5.867 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.448 | 7.065 | 5.924 | 5.516 | 6.508 | 9.406 | 8.486 | 5.814 |
| Gas – ducted < 4.5 Stars | Other or none specified | 8.663 | 7.284 | 6.143 | 5.736 | 6.726 | 9.623 | 8.703 | 6.035 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 7.496 | 6.101 | 4.940 | 4.528 | 5.539 | 8.480 | 7.543 | 4.830 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.835 | 6.457 | 5.316 | 4.909 | 5.898 | 8.795 | 7.876 | 5.207 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.793 | 6.415 | 5.273 | 4.867 | 5.856 | 8.753 | 7.833 | 5.165 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.730 | 6.352 | 5.210 | 4.804 | 5.793 | 8.690 | 7.770 | 5.102 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.667 | 6.289 | 5.147 | 4.740 | 5.730 | 8.627 | 7.707 | 5.039 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.762 | 6.380 | 5.238 | 4.830 | 5.822 | 8.721 | 7.800 | 5.129 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.727 | 6.344 | 5.203 | 4.795 | 5.787 | 8.685 | 7.765 | 5.093 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.673 | 6.291 | 5.149 | 4.742 | 5.733 | 8.632 | 7.711 | 5.040 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.620 | 6.238 | 5.096 | 4.688 | 5.680 | 8.579 | 7.658 | 4.987 |
| Gas – ducted < 6 Stars | Other or none specified | 7.835 | 6.457 | 5.316 | 4.909 | 5.898 | 8.795 | 7.876 | 5.207 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 6.669 | 5.274 | 4.112 | 3.701 | 4.711 | 7.652 | 6.716 | 4.003 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.008 | 5.629 | 4.488 | 4.081 | 5.071 | 7.968 | 7.048 | 4.380 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.966 | 5.587 | 4.446 | 4.039 | 5.029 | 7.926 | 7.006 | 4.338 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.902 | 5.524 | 4.383 | 3.976 | 4.966 | 7.862 | 6.943 | 4.275 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.839 | 5.461 | 4.320 | 3.913 | 4.902 | 7.799 | 6.880 | 4.211 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.935 | 5.552 | 4.411 | 4.003 | 4.995 | 7.893 | 6.973 | 4.301 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.899 | 5.517 | 4.375 | 3.967 | 4.959 | 7.858 | 6.937 | 4.266 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.846 | 5.464 | 4.322 | 3.914 | 4.906 | 7.805 | 6.884 | 4.213 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.793 | 5.410 | 4.269 | 3.861 | 4.853 | 7.751 | 6.831 | 4.159 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 7.008 | 5.629 | 4.488 | 4.081 | 5.071 | 7.968 | 7.048 | 4.380 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 7.560 | 6.080 | 4.958 | 4.523 | 5.548 | 8.456 | 7.519 | 4.819 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.914 | 6.455 | 5.342 | 4.915 | 5.920 | 8.792 | 7.872 | 5.210 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.871 | 6.412 | 5.300 | 4.873 | 5.878 | 8.750 | 7.830 | 5.168 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.808 | 6.349 | 5.237 | 4.810 | 5.814 | 8.687 | 7.766 | 5.104 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.745 | 6.286 | 5.173 | 4.747 | 5.751 | 8.624 | 7.703 | 5.041 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.840 | 6.376 | 5.264 | 4.837 | 5.843 | 8.716 | 7.795 | 5.131 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.804 | 6.340 | 5.229 | 4.801 | 5.808 | 8.680 | 7.759 | 5.095 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.751 | 6.287 | 5.176 | 4.748 | 5.754 | 8.627 | 7.706 | 5.042 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.698 | 6.234 | 5.122 | 4.695 | 5.701 | 8.574 | 7.653 | 4.989 |
| Gas - non ducted < 3 Stars | Other or none specified | 7.914 | 6.455 | 5.342 | 4.915 | 5.920 | 8.792 | 7.872 | 5.210 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 7.274 | 5.794 | 4.672 | 4.237 | 5.262 | 8.170 | 7.233 | 4.533 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.628 | 6.169 | 5.056 | 4.630 | 5.634 | 8.506 | 7.586 | 4.924 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.585 | 6.126 | 5.014 | 4.587 | 5.592 | 8.464 | 7.544 | 4.882 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.522 | 6.063 | 4.951 | 4.524 | 5.528 | 8.401 | 7.481 | 4.818 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.459 | 6.000 | 4.887 | 4.461 | 5.465 | 8.338 | 7.417 | 4.755 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.554 | 6.090 | 4.978 | 4.551 | 5.557 | 8.430 | 7.509 | 4.845 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.518 | 6.054 | 4.943 | 4.515 | 5.522 | 8.394 | 7.473 | 4.809 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.465 | 6.001 | 4.890 | 4.462 | 5.468 | 8.341 | 7.420 | 4.756 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.412 | 5.948 | 4.836 | 4.409 | 5.415 | 8.288 | 7.367 | 4.703 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 7.628 | 6.169 | 5.056 | 4.630 | 5.634 | 8.506 | 7.586 | 4.924 |
| Gas - non ducted < 6 Stars | Evaporative | 6.845 | 5.365 | 4.243 | 3.808 | 4.833 | 7.741 | 6.804 | 4.104 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.199 | 5.740 | 4.627 | 4.201 | 5.205 | 8.077 | 7.157 | 4.495 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.157 | 5.698 | 4.585 | 4.158 | 5.163 | 8.035 | 7.115 | 4.453 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.093 | 5.634 | 4.522 | 4.095 | 5.099 | 7.972 | 7.052 | 4.389 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.030 | 5.571 | 4.458 | 4.032 | 5.036 | 7.909 | 6.988 | 4.326 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 7.125 | 5.661 | 4.549 | 4.122 | 5.128 | 8.001 | 7.080 | 4.416 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.089 | 5.625 | 4.514 | 4.086 | 5.093 | 7.966 | 7.044 | 4.380 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.036 | 5.572 | 4.461 | 4.033 | 5.039 | 7.912 | 6.991 | 4.327 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.983 | 5.519 | 4.408 | 3.980 | 4.986 | 7.859 | 6.938 | 4.274 |
| Gas - non ducted < 6 Stars | Other or none specified | 7.199 | 5.740 | 4.627 | 4.201 | 5.205 | 8.077 | 7.157 | 4.495 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 6.416 | 4.936 | 3.814 | 3.379 | 4.404 | 7.312 | 6.375 | 3.675 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.770 | 5.311 | 4.198 | 3.772 | 4.776 | 7.648 | 6.728 | 4.066 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.728 | 5.269 | 4.156 | 3.730 | 4.734 | 7.606 | 6.686 | 4.024 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.664 | 5.205 | 4.093 | 3.666 | 4.670 | 7.543 | 6.623 | 3.961 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.601 | 5.142 | 4.029 | 3.603 | 4.607 | 7.480 | 6.559 | 3.897 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.696 | 5.232 | 4.121 | 3.693 | 4.699 | 7.572 | 6.651 | 3.987 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.660 | 5.197 | 4.085 | 3.657 | 4.664 | 7.537 | 6.615 | 3.951 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 6.607 | 5.143 | 4.032 | 3.604 | 4.610 | 7.483 | 6.562 | 3.898 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 6.554 | 5.090 | 3.979 | 3.551 | 4.557 | 7.430 | 6.509 | 3.845 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 6.770 | 5.311 | 4.198 | 3.772 | 4.776 | 7.648 | 6.728 | 4.066 |

Table 6.2.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – heat pump heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 4.355 | 3.045 | 2.231 | 1.835 | 2.640 | 4.072 | 3.498 | 1.878 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.657 | 3.365 | 2.542 | 2.146 | 2.940 | 4.391 | 3.819 | 2.188 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.621 | 3.328 | 2.506 | 2.110 | 2.904 | 4.354 | 3.782 | 2.152 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.566 | 3.274 | 2.451 | 2.056 | 2.849 | 4.300 | 3.728 | 2.097 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.512 | 3.220 | 2.397 | 2.002 | 2.795 | 4.246 | 3.674 | 2.043 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 4.597 | 3.300 | 2.479 | 2.084 | 2.877 | 4.327 | 3.754 | 2.126 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.566 | 3.270 | 2.449 | 2.054 | 2.847 | 4.296 | 3.723 | 2.095 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.521 | 3.224 | 2.403 | 2.008 | 2.801 | 4.250 | 3.678 | 2.049 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.475 | 3.178 | 2.357 | 1.962 | 2.755 | 4.205 | 3.632 | 2.004 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 4.657 | 3.365 | 2.542 | 2.146 | 2.940 | 4.391 | 3.819 | 2.188 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 4.237 | 2.926 | 2.112 | 1.716 | 2.521 | 3.953 | 3.379 | 1.760 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.538 | 3.246 | 2.423 | 2.028 | 2.821 | 4.272 | 3.700 | 2.069 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.502 | 3.210 | 2.387 | 1.992 | 2.785 | 4.236 | 3.664 | 2.033 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.448 | 3.155 | 2.333 | 1.937 | 2.731 | 4.181 | 3.609 | 1.978 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.393 | 3.101 | 2.278 | 1.883 | 2.676 | 4.127 | 3.555 | 1.924 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.478 | 3.181 | 2.361 | 1.965 | 2.758 | 4.208 | 3.635 | 2.007 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.448 | 3.151 | 2.330 | 1.935 | 2.728 | 4.178 | 3.605 | 1.977 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.402 | 3.105 | 2.284 | 1.889 | 2.682 | 4.132 | 3.559 | 1.931 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.356 | 3.059 | 2.238 | 1.843 | 2.636 | 4.086 | 3.513 | 1.885 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.538 | 3.246 | 2.423 | 2.028 | 2.821 | 4.272 | 3.700 | 2.069 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 4.059 | 2.748 | 1.934 | 1.538 | 2.343 | 3.775 | 3.201 | 1.582 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.360 | 3.068 | 2.245 | 1.850 | 2.643 | 4.094 | 3.522 | 1.891 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.324 | 3.032 | 2.209 | 1.814 | 2.607 | 4.058 | 3.486 | 1.855 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.270 | 2.977 | 2.155 | 1.759 | 2.553 | 4.003 | 3.431 | 1.800 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.215 | 2.923 | 2.100 | 1.705 | 2.498 | 3.949 | 3.377 | 1.746 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.300 | 3.003 | 2.183 | 1.787 | 2.580 | 4.030 | 3.457 | 1.829 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.270 | 2.973 | 2.152 | 1.757 | 2.550 | 4.000 | 3.427 | 1.799 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.224 | 2.927 | 2.106 | 1.711 | 2.504 | 3.954 | 3.381 | 1.753 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.178 | 2.881 | 2.060 | 1.665 | 2.458 | 3.908 | 3.335 | 1.707 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 4.360 | 3.068 | 2.245 | 1.850 | 2.643 | 4.094 | 3.522 | 1.891 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.881 | 2.570 | 1.756 | 1.360 | 2.165 | 3.597 | 3.023 | 1.404 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.182 | 2.890 | 2.067 | 1.672 | 2.465 | 3.916 | 3.344 | 1.713 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.146 | 2.854 | 2.031 | 1.635 | 2.429 | 3.880 | 3.308 | 1.677 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.092 | 2.799 | 1.977 | 1.581 | 2.375 | 3.825 | 3.253 | 1.622 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.037 | 2.745 | 1.922 | 1.527 | 2.320 | 3.771 | 3.199 | 1.568 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.122 | 2.825 | 2.005 | 1.609 | 2.402 | 3.852 | 3.279 | 1.651 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.092 | 2.795 | 1.974 | 1.579 | 2.372 | 3.822 | 3.249 | 1.621 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.046 | 2.749 | 1.928 | 1.533 | 2.326 | 3.776 | 3.203 | 1.575 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.000 | 2.703 | 1.882 | 1.487 | 2.280 | 3.730 | 3.157 | 1.529 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.182 | 2.890 | 2.067 | 1.672 | 2.465 | 3.916 | 3.344 | 1.713 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 4.149 | 2.829 | 2.037 | 1.632 | 2.436 | 3.853 | 3.282 | 1.676 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.451 | 3.151 | 2.342 | 1.951 | 2.739 | 4.173 | 3.601 | 1.993 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.415 | 3.115 | 2.306 | 1.915 | 2.702 | 4.137 | 3.565 | 1.957 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.361 | 3.061 | 2.251 | 1.860 | 2.648 | 4.082 | 3.510 | 1.902 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.306 | 3.006 | 2.197 | 1.806 | 2.594 | 4.028 | 3.456 | 1.848 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.390 | 3.086 | 2.279 | 1.887 | 2.678 | 4.109 | 3.537 | 1.929 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.360 | 3.055 | 2.248 | 1.856 | 2.647 | 4.079 | 3.506 | 1.899 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.314 | 3.009 | 2.202 | 1.810 | 2.601 | 4.033 | 3.460 | 1.853 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.268 | 2.963 | 2.156 | 1.765 | 2.555 | 3.987 | 3.414 | 1.807 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 4.451 | 3.151 | 2.342 | 1.951 | 2.739 | 4.173 | 3.601 | 1.993 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 4.050 | 2.730 | 1.938 | 1.533 | 2.338 | 3.754 | 3.183 | 1.577 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.352 | 3.052 | 2.243 | 1.852 | 2.640 | 4.074 | 3.502 | 1.894 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.316 | 3.016 | 2.207 | 1.816 | 2.604 | 4.038 | 3.466 | 1.858 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.262 | 2.962 | 2.153 | 1.761 | 2.549 | 3.983 | 3.412 | 1.803 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.207 | 2.907 | 2.098 | 1.707 | 2.495 | 3.929 | 3.357 | 1.749 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.292 | 2.987 | 2.180 | 1.788 | 2.579 | 4.010 | 3.438 | 1.831 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.261 | 2.956 | 2.149 | 1.757 | 2.548 | 3.980 | 3.407 | 1.800 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.215 | 2.910 | 2.103 | 1.712 | 2.502 | 3.934 | 3.361 | 1.754 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.169 | 2.864 | 2.057 | 1.666 | 2.456 | 3.888 | 3.316 | 1.708 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.352 | 3.052 | 2.243 | 1.852 | 2.640 | 4.074 | 3.502 | 1.894 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 3.902 | 2.581 | 1.790 | 1.384 | 2.189 | 3.606 | 3.035 | 1.429 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.204 | 2.904 | 2.095 | 1.704 | 2.491 | 3.926 | 3.354 | 1.746 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.168 | 2.868 | 2.059 | 1.667 | 2.455 | 3.889 | 3.318 | 1.709 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.113 | 2.813 | 2.004 | 1.613 | 2.401 | 3.835 | 3.263 | 1.655 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.059 | 2.759 | 1.950 | 1.559 | 2.346 | 3.781 | 3.209 | 1.601 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.143 | 2.838 | 2.031 | 1.640 | 2.430 | 3.862 | 3.290 | 1.682 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.113 | 2.808 | 2.001 | 1.609 | 2.400 | 3.831 | 3.259 | 1.652 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.067 | 2.762 | 1.955 | 1.563 | 2.354 | 3.786 | 3.213 | 1.606 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.021 | 2.716 | 1.909 | 1.517 | 2.308 | 3.740 | 3.167 | 1.560 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 4.204 | 2.904 | 2.095 | 1.704 | 2.491 | 3.926 | 3.354 | 1.746 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.754 | 2.433 | 1.642 | 1.236 | 2.041 | 3.458 | 2.887 | 1.280 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.056 | 2.756 | 1.946 | 1.555 | 2.343 | 3.777 | 3.205 | 1.597 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.019 | 2.719 | 1.910 | 1.519 | 2.307 | 3.741 | 3.169 | 1.561 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.965 | 2.665 | 1.856 | 1.465 | 2.252 | 3.687 | 3.115 | 1.507 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.911 | 2.611 | 1.801 | 1.410 | 2.198 | 3.632 | 3.061 | 1.452 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.995 | 2.690 | 1.883 | 1.491 | 2.282 | 3.714 | 3.141 | 1.534 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.964 | 2.659 | 1.852 | 1.461 | 2.252 | 3.683 | 3.111 | 1.503 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.918 | 2.614 | 1.806 | 1.415 | 2.206 | 3.637 | 3.065 | 1.457 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.872 | 2.568 | 1.761 | 1.369 | 2.160 | 3.591 | 3.019 | 1.411 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.056 | 2.756 | 1.946 | 1.555 | 2.343 | 3.777 | 3.205 | 1.597 |

Table 6.2.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – heat pump heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 3.680 | 3.214 | 1.932 | 1.797 | 2.237 | 2.648 | 2.363 | 1.478 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.932 | 3.474 | 2.183 | 2.057 | 2.493 | 2.910 | 2.627 | 1.744 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.902 | 3.444 | 2.154 | 2.027 | 2.463 | 2.880 | 2.597 | 1.714 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.857 | 3.399 | 2.109 | 1.983 | 2.418 | 2.835 | 2.552 | 1.670 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.812 | 3.354 | 2.064 | 1.938 | 2.374 | 2.790 | 2.507 | 1.625 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 3.881 | 3.421 | 2.131 | 2.005 | 2.441 | 2.856 | 2.573 | 1.690 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.856 | 3.397 | 2.106 | 1.980 | 2.416 | 2.831 | 2.549 | 1.666 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.819 | 3.360 | 2.070 | 1.943 | 2.379 | 2.794 | 2.512 | 1.629 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.783 | 3.323 | 2.033 | 1.906 | 2.342 | 2.757 | 2.475 | 1.592 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.932 | 3.474 | 2.183 | 2.057 | 2.493 | 2.910 | 2.627 | 1.744 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.588 | 3.122 | 1.840 | 1.705 | 2.145 | 2.556 | 2.271 | 1.386 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.840 | 3.382 | 2.092 | 1.965 | 2.401 | 2.818 | 2.535 | 1.652 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.810 | 3.352 | 2.062 | 1.936 | 2.371 | 2.788 | 2.505 | 1.623 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.765 | 3.307 | 2.017 | 1.891 | 2.326 | 2.743 | 2.460 | 1.578 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.721 | 3.263 | 1.972 | 1.846 | 2.282 | 2.699 | 2.416 | 1.533 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.789 | 3.329 | 2.039 | 1.913 | 2.349 | 2.764 | 2.481 | 1.598 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.765 | 3.305 | 2.015 | 1.888 | 2.324 | 2.739 | 2.457 | 1.574 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.728 | 3.268 | 1.978 | 1.851 | 2.288 | 2.702 | 2.420 | 1.537 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.691 | 3.231 | 1.941 | 1.815 | 2.251 | 2.665 | 2.383 | 1.500 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.840 | 3.382 | 2.092 | 1.965 | 2.401 | 2.818 | 2.535 | 1.652 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 3.450 | 2.984 | 1.703 | 1.568 | 2.007 | 2.419 | 2.134 | 1.249 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.702 | 3.244 | 1.954 | 1.828 | 2.263 | 2.680 | 2.397 | 1.515 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.672 | 3.214 | 1.924 | 1.798 | 2.233 | 2.650 | 2.367 | 1.485 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.628 | 3.170 | 1.879 | 1.753 | 2.189 | 2.606 | 2.323 | 1.440 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.583 | 3.125 | 1.835 | 1.709 | 2.144 | 2.561 | 2.278 | 1.395 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.651 | 3.192 | 1.902 | 1.775 | 2.211 | 2.626 | 2.344 | 1.461 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.627 | 3.167 | 1.877 | 1.751 | 2.187 | 2.602 | 2.319 | 1.436 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.590 | 3.130 | 1.840 | 1.714 | 2.150 | 2.565 | 2.282 | 1.399 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.553 | 3.093 | 1.803 | 1.677 | 2.113 | 2.528 | 2.245 | 1.362 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.702 | 3.244 | 1.954 | 1.828 | 2.263 | 2.680 | 2.397 | 1.515 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.313 | 2.847 | 1.565 | 1.430 | 1.869 | 2.281 | 1.996 | 1.111 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.564 | 3.106 | 1.816 | 1.690 | 2.126 | 2.542 | 2.259 | 1.377 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.535 | 3.077 | 1.786 | 1.660 | 2.096 | 2.513 | 2.230 | 1.347 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.490 | 3.032 | 1.742 | 1.616 | 2.051 | 2.468 | 2.185 | 1.302 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.445 | 2.987 | 1.697 | 1.571 | 2.006 | 2.423 | 2.140 | 1.258 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.514 | 3.054 | 1.764 | 1.638 | 2.074 | 2.488 | 2.206 | 1.323 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.489 | 3.029 | 1.739 | 1.613 | 2.049 | 2.464 | 2.181 | 1.298 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.452 | 2.992 | 1.702 | 1.576 | 2.012 | 2.427 | 2.144 | 1.262 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.415 | 2.955 | 1.665 | 1.539 | 1.975 | 2.390 | 2.108 | 1.225 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.564 | 3.106 | 1.816 | 1.690 | 2.126 | 2.542 | 2.259 | 1.377 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 3.519 | 3.048 | 1.779 | 1.637 | 2.078 | 2.484 | 2.198 | 1.329 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.773 | 3.309 | 2.031 | 1.901 | 2.334 | 2.746 | 2.464 | 1.587 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.743 | 3.280 | 2.001 | 1.871 | 2.304 | 2.717 | 2.435 | 1.557 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.698 | 3.235 | 1.957 | 1.826 | 2.259 | 2.672 | 2.390 | 1.512 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.653 | 3.190 | 1.912 | 1.782 | 2.215 | 2.627 | 2.345 | 1.467 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.721 | 3.256 | 1.980 | 1.848 | 2.281 | 2.693 | 2.410 | 1.532 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.697 | 3.232 | 1.956 | 1.823 | 2.257 | 2.669 | 2.386 | 1.507 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.660 | 3.195 | 1.919 | 1.786 | 2.220 | 2.632 | 2.349 | 1.470 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.623 | 3.158 | 1.882 | 1.749 | 2.183 | 2.595 | 2.312 | 1.433 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.773 | 3.309 | 2.031 | 1.901 | 2.334 | 2.746 | 2.464 | 1.587 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.441 | 2.970 | 1.701 | 1.559 | 2.001 | 2.406 | 2.121 | 1.252 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.695 | 3.232 | 1.954 | 1.824 | 2.256 | 2.669 | 2.387 | 1.509 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.665 | 3.202 | 1.924 | 1.794 | 2.227 | 2.639 | 2.357 | 1.479 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.621 | 3.158 | 1.879 | 1.749 | 2.182 | 2.595 | 2.313 | 1.435 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.576 | 3.113 | 1.835 | 1.704 | 2.137 | 2.550 | 2.268 | 1.390 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.644 | 3.179 | 1.903 | 1.770 | 2.204 | 2.616 | 2.333 | 1.454 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.620 | 3.154 | 1.878 | 1.746 | 2.179 | 2.591 | 2.308 | 1.430 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.583 | 3.118 | 1.842 | 1.709 | 2.143 | 2.554 | 2.271 | 1.393 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.546 | 3.081 | 1.805 | 1.672 | 2.106 | 2.517 | 2.235 | 1.356 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.695 | 3.232 | 1.954 | 1.824 | 2.256 | 2.669 | 2.387 | 1.509 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 3.326 | 2.854 | 1.586 | 1.443 | 1.885 | 2.290 | 2.005 | 1.136 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.579 | 3.116 | 1.838 | 1.708 | 2.141 | 2.553 | 2.271 | 1.393 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.549 | 3.086 | 1.808 | 1.678 | 2.111 | 2.523 | 2.241 | 1.364 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.505 | 3.042 | 1.763 | 1.633 | 2.066 | 2.479 | 2.197 | 1.319 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.460 | 2.997 | 1.719 | 1.588 | 2.021 | 2.434 | 2.152 | 1.274 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.528 | 3.063 | 1.787 | 1.654 | 2.088 | 2.500 | 2.217 | 1.339 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.504 | 3.038 | 1.763 | 1.630 | 2.064 | 2.475 | 2.192 | 1.314 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.467 | 3.002 | 1.726 | 1.593 | 2.027 | 2.438 | 2.156 | 1.277 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.430 | 2.965 | 1.689 | 1.556 | 1.990 | 2.401 | 2.119 | 1.240 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.579 | 3.116 | 1.838 | 1.708 | 2.141 | 2.553 | 2.271 | 1.393 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.210 | 2.738 | 1.470 | 1.327 | 1.769 | 2.174 | 1.889 | 1.020 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.463 | 3.000 | 1.722 | 1.592 | 2.025 | 2.437 | 2.155 | 1.277 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.434 | 2.970 | 1.692 | 1.562 | 1.995 | 2.407 | 2.125 | 1.248 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.389 | 2.926 | 1.647 | 1.517 | 1.950 | 2.363 | 2.081 | 1.203 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.344 | 2.881 | 1.603 | 1.473 | 1.905 | 2.318 | 2.036 | 1.158 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.412 | 2.947 | 1.671 | 1.538 | 1.972 | 2.384 | 2.101 | 1.223 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.388 | 2.923 | 1.647 | 1.514 | 1.948 | 2.359 | 2.076 | 1.198 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.351 | 2.886 | 1.610 | 1.477 | 1.911 | 2.322 | 2.040 | 1.161 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.314 | 2.849 | 1.573 | 1.440 | 1.874 | 2.285 | 2.003 | 1.124 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.463 | 3.000 | 1.722 | 1.592 | 2.025 | 2.437 | 2.155 | 1.277 |

Table 6.2.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – heat pump heating – South Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 4.613 | 3.534 | 2.346 | 2.016 | 2.789 | 4.262 | 3.657 | 1.956 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.931 | 3.877 | 2.675 | 2.352 | 3.114 | 4.606 | 4.001 | 2.287 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.893 | 3.839 | 2.636 | 2.314 | 3.076 | 4.567 | 3.963 | 2.249 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.835 | 3.781 | 2.578 | 2.256 | 3.018 | 4.509 | 3.905 | 2.191 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.777 | 3.723 | 2.520 | 2.198 | 2.960 | 4.451 | 3.847 | 2.133 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 4.868 | 3.808 | 2.609 | 2.281 | 3.047 | 4.537 | 3.933 | 2.217 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.836 | 3.776 | 2.576 | 2.249 | 3.015 | 4.504 | 3.900 | 2.184 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.787 | 3.727 | 2.527 | 2.200 | 2.966 | 4.456 | 3.851 | 2.136 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.738 | 3.678 | 2.478 | 2.151 | 2.917 | 4.407 | 3.802 | 2.087 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 4.931 | 3.877 | 2.675 | 2.352 | 3.114 | 4.606 | 4.001 | 2.287 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 4.484 | 3.405 | 2.217 | 1.887 | 2.659 | 4.133 | 3.527 | 1.826 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.802 | 3.748 | 2.545 | 2.223 | 2.985 | 4.476 | 3.872 | 2.158 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.763 | 3.709 | 2.506 | 2.184 | 2.946 | 4.437 | 3.833 | 2.119 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.705 | 3.651 | 2.449 | 2.126 | 2.888 | 4.380 | 3.775 | 2.061 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.648 | 3.593 | 2.391 | 2.068 | 2.831 | 4.322 | 3.718 | 2.004 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.739 | 3.679 | 2.479 | 2.152 | 2.918 | 4.407 | 3.803 | 2.087 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.706 | 3.646 | 2.447 | 2.119 | 2.885 | 4.375 | 3.770 | 2.055 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.657 | 3.597 | 2.398 | 2.070 | 2.836 | 4.326 | 3.722 | 2.006 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.609 | 3.549 | 2.349 | 2.022 | 2.788 | 4.277 | 3.673 | 1.957 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.802 | 3.748 | 2.545 | 2.223 | 2.985 | 4.476 | 3.872 | 2.158 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 4.289 | 3.210 | 2.022 | 1.692 | 2.465 | 3.938 | 3.333 | 1.632 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.608 | 3.553 | 2.351 | 2.028 | 2.791 | 4.282 | 3.678 | 1.964 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.569 | 3.515 | 2.312 | 1.990 | 2.752 | 4.243 | 3.639 | 1.925 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.511 | 3.457 | 2.254 | 1.932 | 2.694 | 4.185 | 3.581 | 1.867 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.453 | 3.399 | 2.196 | 1.874 | 2.636 | 4.127 | 3.523 | 1.809 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.544 | 3.484 | 2.285 | 1.957 | 2.723 | 4.213 | 3.609 | 1.893 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.512 | 3.452 | 2.252 | 1.925 | 2.691 | 4.181 | 3.576 | 1.860 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.463 | 3.403 | 2.203 | 1.876 | 2.642 | 4.132 | 3.527 | 1.812 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.414 | 3.354 | 2.155 | 1.827 | 2.593 | 4.083 | 3.479 | 1.763 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 4.608 | 3.553 | 2.351 | 2.028 | 2.791 | 4.282 | 3.678 | 1.964 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 4.095 | 3.016 | 1.828 | 1.498 | 2.271 | 3.744 | 3.139 | 1.437 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.413 | 3.359 | 2.156 | 1.834 | 2.596 | 4.087 | 3.483 | 1.769 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.375 | 3.321 | 2.118 | 1.795 | 2.558 | 4.049 | 3.445 | 1.731 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.317 | 3.263 | 2.060 | 1.738 | 2.500 | 3.991 | 3.387 | 1.673 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.259 | 3.205 | 2.002 | 1.680 | 2.442 | 3.933 | 3.329 | 1.615 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.350 | 3.290 | 2.090 | 1.763 | 2.529 | 4.019 | 3.414 | 1.699 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.318 | 3.258 | 2.058 | 1.731 | 2.497 | 3.986 | 3.382 | 1.666 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.269 | 3.209 | 2.009 | 1.682 | 2.448 | 3.937 | 3.333 | 1.617 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.220 | 3.160 | 1.960 | 1.633 | 2.399 | 3.889 | 3.284 | 1.568 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.413 | 3.359 | 2.156 | 1.834 | 2.596 | 4.087 | 3.483 | 1.769 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 4.389 | 3.300 | 2.130 | 1.800 | 2.571 | 4.024 | 3.421 | 1.739 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.711 | 3.641 | 2.461 | 2.133 | 2.889 | 4.367 | 3.765 | 2.074 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.672 | 3.603 | 2.422 | 2.095 | 2.850 | 4.329 | 3.727 | 2.036 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.614 | 3.545 | 2.365 | 2.037 | 2.793 | 4.271 | 3.669 | 1.978 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.556 | 3.487 | 2.307 | 1.979 | 2.735 | 4.213 | 3.611 | 1.920 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.647 | 3.572 | 2.394 | 2.067 | 2.825 | 4.298 | 3.695 | 2.007 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.614 | 3.540 | 2.361 | 2.034 | 2.792 | 4.266 | 3.663 | 1.974 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.565 | 3.491 | 2.313 | 1.985 | 2.743 | 4.217 | 3.614 | 1.926 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.517 | 3.442 | 2.264 | 1.936 | 2.695 | 4.168 | 3.565 | 1.877 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 4.711 | 3.641 | 2.461 | 2.133 | 2.889 | 4.367 | 3.765 | 2.074 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 4.281 | 3.192 | 2.022 | 1.691 | 2.463 | 3.915 | 3.312 | 1.630 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.602 | 3.533 | 2.353 | 2.025 | 2.781 | 4.259 | 3.657 | 1.966 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.564 | 3.494 | 2.314 | 1.987 | 2.742 | 4.220 | 3.619 | 1.927 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.506 | 3.437 | 2.256 | 1.929 | 2.684 | 4.162 | 3.561 | 1.869 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.448 | 3.379 | 2.198 | 1.871 | 2.626 | 4.105 | 3.503 | 1.811 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.538 | 3.464 | 2.286 | 1.958 | 2.716 | 4.190 | 3.587 | 1.899 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.506 | 3.432 | 2.253 | 1.926 | 2.684 | 4.158 | 3.555 | 1.866 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.457 | 3.383 | 2.204 | 1.877 | 2.635 | 4.109 | 3.506 | 1.817 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.408 | 3.334 | 2.155 | 1.828 | 2.586 | 4.060 | 3.457 | 1.768 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.602 | 3.533 | 2.353 | 2.025 | 2.781 | 4.259 | 3.657 | 1.966 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 4.118 | 3.030 | 1.860 | 1.529 | 2.300 | 3.753 | 3.150 | 1.468 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.440 | 3.370 | 2.190 | 1.863 | 2.618 | 4.096 | 3.495 | 1.803 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.401 | 3.332 | 2.152 | 1.824 | 2.580 | 4.058 | 3.456 | 1.765 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.343 | 3.274 | 2.094 | 1.766 | 2.522 | 4.000 | 3.398 | 1.707 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.286 | 3.216 | 2.036 | 1.708 | 2.464 | 3.942 | 3.340 | 1.649 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.376 | 3.302 | 2.123 | 1.796 | 2.554 | 4.027 | 3.425 | 1.736 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.343 | 3.269 | 2.090 | 1.763 | 2.521 | 3.995 | 3.392 | 1.703 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.294 | 3.220 | 2.042 | 1.714 | 2.472 | 3.946 | 3.343 | 1.655 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.246 | 3.171 | 1.993 | 1.666 | 2.424 | 3.897 | 3.294 | 1.606 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 4.440 | 3.370 | 2.190 | 1.863 | 2.618 | 4.096 | 3.495 | 1.803 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.956 | 2.867 | 1.697 | 1.366 | 2.138 | 3.590 | 2.987 | 1.305 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.277 | 3.208 | 2.028 | 1.700 | 2.456 | 3.934 | 3.332 | 1.641 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.239 | 3.169 | 1.989 | 1.661 | 2.417 | 3.895 | 3.293 | 1.602 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.181 | 3.111 | 1.931 | 1.604 | 2.359 | 3.837 | 3.236 | 1.544 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.123 | 3.054 | 1.873 | 1.546 | 2.301 | 3.780 | 3.178 | 1.486 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.213 | 3.139 | 1.960 | 1.633 | 2.391 | 3.865 | 3.262 | 1.573 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.181 | 3.106 | 1.928 | 1.601 | 2.359 | 3.832 | 3.230 | 1.541 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 4.132 | 3.058 | 1.879 | 1.552 | 2.310 | 3.784 | 3.181 | 1.492 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.083 | 3.009 | 1.830 | 1.503 | 2.261 | 3.735 | 3.132 | 1.443 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.277 | 3.208 | 2.028 | 1.700 | 2.456 | 3.934 | 3.332 | 1.641 |

Table 6.2.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – heat pump heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 5.083 | 3.369 | 2.552 | 2.026 | 3.064 | 5.557 | 4.674 | 2.260 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 5.440 | 3.750 | 2.907 | 2.397 | 3.424 | 5.931 | 5.055 | 2.643 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 5.398 | 3.708 | 2.865 | 2.355 | 3.382 | 5.889 | 5.013 | 2.601 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 5.335 | 3.645 | 2.802 | 2.292 | 3.319 | 5.826 | 4.950 | 2.538 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.272 | 3.581 | 2.738 | 2.229 | 3.256 | 5.763 | 4.886 | 2.475 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 5.369 | 3.672 | 2.835 | 2.318 | 3.352 | 5.854 | 4.978 | 2.565 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.334 | 3.637 | 2.800 | 2.282 | 3.316 | 5.818 | 4.943 | 2.530 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.281 | 3.583 | 2.746 | 2.229 | 3.263 | 5.765 | 4.889 | 2.477 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.227 | 3.530 | 2.693 | 2.176 | 3.210 | 5.712 | 4.836 | 2.423 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 5.440 | 3.750 | 2.907 | 2.397 | 3.424 | 5.931 | 5.055 | 2.643 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 4.934 | 3.220 | 2.403 | 1.877 | 2.916 | 5.408 | 4.525 | 2.111 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 5.292 | 3.601 | 2.758 | 2.248 | 3.276 | 5.782 | 4.906 | 2.494 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 5.250 | 3.559 | 2.716 | 2.206 | 3.234 | 5.740 | 4.864 | 2.452 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 5.186 | 3.496 | 2.653 | 2.143 | 3.170 | 5.677 | 4.801 | 2.389 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.123 | 3.433 | 2.590 | 2.080 | 3.107 | 5.614 | 4.738 | 2.326 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.221 | 3.523 | 2.686 | 2.169 | 3.203 | 5.705 | 4.829 | 2.417 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.185 | 3.488 | 2.651 | 2.134 | 3.167 | 5.670 | 4.794 | 2.381 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.132 | 3.435 | 2.598 | 2.080 | 3.114 | 5.616 | 4.741 | 2.328 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.079 | 3.381 | 2.544 | 2.027 | 3.061 | 5.563 | 4.687 | 2.275 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 5.292 | 3.601 | 2.758 | 2.248 | 3.276 | 5.782 | 4.906 | 2.494 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 4.711 | 2.997 | 2.180 | 1.654 | 2.692 | 5.185 | 4.302 | 1.888 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 5.068 | 3.378 | 2.535 | 2.025 | 3.052 | 5.559 | 4.683 | 2.271 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 5.026 | 3.336 | 2.493 | 1.983 | 3.010 | 5.517 | 4.641 | 2.229 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.963 | 3.273 | 2.430 | 1.920 | 2.947 | 5.454 | 4.578 | 2.166 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.900 | 3.209 | 2.366 | 1.857 | 2.884 | 5.391 | 4.514 | 2.103 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.997 | 3.300 | 2.463 | 1.946 | 2.980 | 5.482 | 4.606 | 2.193 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.962 | 3.265 | 2.428 | 1.910 | 2.944 | 5.446 | 4.571 | 2.158 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.909 | 3.211 | 2.374 | 1.857 | 2.891 | 5.393 | 4.517 | 2.105 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.856 | 3.158 | 2.321 | 1.804 | 2.838 | 5.340 | 4.464 | 2.051 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 5.068 | 3.378 | 2.535 | 2.025 | 3.052 | 5.559 | 4.683 | 2.271 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 4.488 | 2.774 | 1.957 | 1.431 | 2.469 | 4.962 | 4.079 | 1.665 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.845 | 3.155 | 2.312 | 1.802 | 2.829 | 5.336 | 4.460 | 2.048 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.803 | 3.113 | 2.270 | 1.760 | 2.787 | 5.294 | 4.418 | 2.006 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.740 | 3.049 | 2.206 | 1.696 | 2.724 | 5.231 | 4.354 | 1.943 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.677 | 2.986 | 2.143 | 1.633 | 2.661 | 5.168 | 4.291 | 1.879 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.774 | 3.077 | 2.240 | 1.723 | 2.756 | 5.259 | 4.383 | 1.970 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.739 | 3.041 | 2.204 | 1.687 | 2.721 | 5.223 | 4.348 | 1.935 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.686 | 2.988 | 2.151 | 1.634 | 2.668 | 5.170 | 4.294 | 1.882 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.632 | 2.935 | 2.098 | 1.581 | 2.615 | 5.117 | 4.241 | 1.828 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.845 | 3.155 | 2.312 | 1.802 | 2.829 | 5.336 | 4.460 | 2.048 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 4.825 | 3.099 | 2.305 | 1.781 | 2.808 | 5.277 | 4.395 | 2.014 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 5.182 | 3.482 | 2.668 | 2.149 | 3.170 | 5.655 | 4.780 | 2.387 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 5.140 | 3.440 | 2.626 | 2.107 | 3.128 | 5.612 | 4.738 | 2.345 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 5.077 | 3.377 | 2.563 | 2.044 | 3.064 | 5.549 | 4.675 | 2.282 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.013 | 3.314 | 2.499 | 1.981 | 3.001 | 5.486 | 4.612 | 2.219 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.110 | 3.405 | 2.595 | 2.076 | 3.095 | 5.577 | 4.703 | 2.308 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.075 | 3.369 | 2.559 | 2.040 | 3.060 | 5.542 | 4.667 | 2.272 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.021 | 3.316 | 2.506 | 1.987 | 3.006 | 5.488 | 4.614 | 2.219 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.968 | 3.263 | 2.453 | 1.934 | 2.953 | 5.435 | 4.561 | 2.166 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 5.182 | 3.482 | 2.668 | 2.149 | 3.170 | 5.655 | 4.780 | 2.387 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 4.701 | 2.975 | 2.181 | 1.657 | 2.684 | 5.153 | 4.271 | 1.889 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 5.058 | 3.358 | 2.544 | 2.025 | 3.046 | 5.530 | 4.656 | 2.263 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 5.016 | 3.316 | 2.502 | 1.983 | 3.003 | 5.488 | 4.614 | 2.221 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.953 | 3.253 | 2.438 | 1.920 | 2.940 | 5.425 | 4.551 | 2.158 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.889 | 3.189 | 2.375 | 1.857 | 2.877 | 5.362 | 4.487 | 2.095 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.986 | 3.280 | 2.471 | 1.952 | 2.971 | 5.453 | 4.579 | 2.184 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.951 | 3.245 | 2.435 | 1.916 | 2.935 | 5.418 | 4.543 | 2.148 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.897 | 3.192 | 2.382 | 1.863 | 2.882 | 5.364 | 4.490 | 2.095 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.844 | 3.138 | 2.329 | 1.810 | 2.829 | 5.311 | 4.437 | 2.042 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 5.058 | 3.358 | 2.544 | 2.025 | 3.046 | 5.530 | 4.656 | 2.263 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 4.515 | 2.789 | 1.994 | 1.471 | 2.498 | 4.966 | 4.085 | 1.703 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.872 | 3.172 | 2.357 | 1.839 | 2.859 | 5.344 | 4.470 | 2.077 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.829 | 3.130 | 2.315 | 1.797 | 2.817 | 5.302 | 4.428 | 2.035 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.766 | 3.066 | 2.252 | 1.734 | 2.754 | 5.239 | 4.364 | 1.972 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.703 | 3.003 | 2.189 | 1.671 | 2.691 | 5.176 | 4.301 | 1.909 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.800 | 3.094 | 2.284 | 1.765 | 2.785 | 5.267 | 4.393 | 1.998 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.764 | 3.059 | 2.249 | 1.730 | 2.749 | 5.231 | 4.357 | 1.962 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.711 | 3.005 | 2.196 | 1.677 | 2.696 | 5.178 | 4.304 | 1.909 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.658 | 2.952 | 2.142 | 1.623 | 2.643 | 5.125 | 4.251 | 1.856 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 4.872 | 3.172 | 2.357 | 1.839 | 2.859 | 5.344 | 4.470 | 2.077 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 4.328 | 2.602 | 1.808 | 1.285 | 2.311 | 4.780 | 3.899 | 1.517 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.685 | 2.985 | 2.171 | 1.653 | 2.673 | 5.158 | 4.283 | 1.891 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.643 | 2.943 | 2.129 | 1.611 | 2.631 | 5.116 | 4.241 | 1.849 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.580 | 2.880 | 2.066 | 1.548 | 2.568 | 5.053 | 4.178 | 1.786 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.517 | 2.817 | 2.003 | 1.484 | 2.505 | 4.990 | 4.115 | 1.722 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.614 | 2.908 | 2.098 | 1.579 | 2.599 | 5.081 | 4.206 | 1.811 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.578 | 2.873 | 2.063 | 1.544 | 2.563 | 5.045 | 4.171 | 1.776 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 4.525 | 2.819 | 2.010 | 1.490 | 2.510 | 4.992 | 4.118 | 1.723 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.472 | 2.766 | 1.956 | 1.437 | 2.457 | 4.939 | 4.064 | 1.669 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.685 | 2.985 | 2.171 | 1.653 | 2.673 | 5.158 | 4.283 | 1.891 |

Table 6.3.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – other heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 7.054 | 5.863 | 4.908 | 4.560 | 5.366 | 6.923 | 6.336 | 4.609 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 7.433 | 6.254 | 5.303 | 4.959 | 5.755 | 7.304 | 6.725 | 5.008 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 7.397 | 6.218 | 5.267 | 4.923 | 5.719 | 7.268 | 6.688 | 4.972 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 7.342 | 6.163 | 5.213 | 4.868 | 5.665 | 7.213 | 6.634 | 4.917 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.288 | 6.109 | 5.159 | 4.814 | 5.610 | 7.159 | 6.580 | 4.863 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 7.361 | 6.178 | 5.228 | 4.882 | 5.680 | 7.228 | 6.648 | 4.932 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 7.330 | 6.147 | 5.198 | 4.852 | 5.650 | 7.197 | 6.618 | 4.901 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.284 | 6.101 | 5.152 | 4.806 | 5.604 | 7.151 | 6.572 | 4.855 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.238 | 6.055 | 5.106 | 4.760 | 5.558 | 7.106 | 6.526 | 4.809 |
| Electric - Resistance (Panel) | Other or none specified | 7.433 | 6.254 | 5.303 | 4.959 | 5.755 | 7.304 | 6.725 | 5.008 |
| Wood Heater | Evaporative | 4.737 | 3.501 | 2.580 | 2.204 | 3.004 | 4.586 | 3.984 | 2.251 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 5.140 | 3.930 | 2.999 | 2.639 | 3.415 | 5.008 | 4.410 | 2.684 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 5.104 | 3.894 | 2.962 | 2.602 | 3.378 | 4.972 | 4.374 | 2.648 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 5.050 | 3.840 | 2.908 | 2.548 | 3.324 | 4.917 | 4.319 | 2.593 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.995 | 3.785 | 2.854 | 2.494 | 3.270 | 4.863 | 4.265 | 2.539 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.063 | 3.848 | 2.917 | 2.555 | 3.336 | 4.927 | 4.328 | 2.601 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.033 | 3.818 | 2.886 | 2.525 | 3.305 | 4.897 | 4.298 | 2.570 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.987 | 3.772 | 2.840 | 2.479 | 3.259 | 4.851 | 4.252 | 2.525 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.941 | 3.726 | 2.795 | 2.433 | 3.213 | 4.805 | 4.206 | 2.479 |
| Wood Heater | Other or none specified | 5.140 | 3.930 | 2.999 | 2.639 | 3.415 | 5.008 | 4.410 | 2.684 |
| Electric - Resistance (Slab) | Evaporative | 5.975 | 4.832 | 3.811 | 3.481 | 4.257 | 5.946 | 5.330 | 3.530 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 6.377 | 5.251 | 4.230 | 3.909 | 4.669 | 6.354 | 5.745 | 3.958 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 6.341 | 5.215 | 4.193 | 3.873 | 4.632 | 6.318 | 5.709 | 3.922 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 6.287 | 5.160 | 4.139 | 3.819 | 4.578 | 6.263 | 5.655 | 3.868 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.232 | 5.106 | 4.085 | 3.764 | 4.524 | 6.209 | 5.600 | 3.813 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.301 | 5.171 | 4.149 | 3.827 | 4.591 | 6.274 | 5.665 | 3.876 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.270 | 5.140 | 4.119 | 3.796 | 4.560 | 6.244 | 5.634 | 3.846 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.225 | 5.094 | 4.073 | 3.751 | 4.514 | 6.198 | 5.589 | 3.800 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.179 | 5.048 | 4.027 | 3.705 | 4.468 | 6.152 | 5.543 | 3.754 |
| Electric - Resistance (Slab) | Other or none specified | 6.377 | 5.251 | 4.230 | 3.909 | 4.669 | 6.354 | 5.745 | 3.958 |
| Other or none specified | Evaporative | 4.355 | 3.045 | 2.231 | 1.835 | 2.640 | 4.072 | 3.498 | 1.878 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 4.657 | 3.365 | 2.542 | 2.146 | 2.940 | 4.391 | 3.819 | 2.188 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 4.621 | 3.328 | 2.506 | 2.110 | 2.904 | 4.354 | 3.782 | 2.152 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 4.566 | 3.274 | 2.451 | 2.056 | 2.849 | 4.300 | 3.728 | 2.097 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.512 | 3.220 | 2.397 | 2.002 | 2.795 | 4.246 | 3.674 | 2.043 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.597 | 3.300 | 2.479 | 2.084 | 2.877 | 4.327 | 3.754 | 2.126 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.566 | 3.270 | 2.449 | 2.054 | 2.847 | 4.296 | 3.723 | 2.095 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.521 | 3.224 | 2.403 | 2.008 | 2.801 | 4.250 | 3.678 | 2.049 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.475 | 3.178 | 2.357 | 1.962 | 2.755 | 4.205 | 3.632 | 2.004 |
| Other or none specified | Other or none specified | 4.657 | 3.365 | 2.542 | 2.146 | 2.940 | 4.391 | 3.819 | 2.188 |

Table 6.3.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – other heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 5.755 | 5.372 | 3.992 | 3.906 | 4.331 | 4.800 | 4.504 | 3.568 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 6.077 | 5.697 | 4.321 | 4.236 | 4.655 | 5.129 | 4.833 | 3.899 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 6.047 | 5.667 | 4.291 | 4.206 | 4.625 | 5.099 | 4.803 | 3.869 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 6.002 | 5.623 | 4.247 | 4.161 | 4.581 | 5.055 | 4.758 | 3.824 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.958 | 5.578 | 4.202 | 4.117 | 4.536 | 5.010 | 4.714 | 3.780 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 6.016 | 5.634 | 4.258 | 4.172 | 4.593 | 5.066 | 4.770 | 3.835 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 5.991 | 5.610 | 4.234 | 4.148 | 4.569 | 5.042 | 4.745 | 3.811 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.954 | 5.573 | 4.197 | 4.111 | 4.532 | 5.005 | 4.708 | 3.774 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.917 | 5.536 | 4.160 | 4.074 | 4.495 | 4.968 | 4.671 | 3.737 |
| Electric - Resistance (Panel) | Other or none specified | 6.077 | 5.697 | 4.321 | 4.236 | 4.655 | 5.129 | 4.833 | 3.899 |
| Wood Heater | Evaporative | 3.988 | 3.584 | 2.218 | 2.110 | 2.536 | 3.009 | 2.708 | 1.779 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 4.320 | 3.929 | 2.563 | 2.465 | 2.874 | 3.357 | 3.060 | 2.130 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 4.290 | 3.899 | 2.533 | 2.435 | 2.845 | 3.327 | 3.030 | 2.101 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 4.246 | 3.854 | 2.488 | 2.390 | 2.800 | 3.283 | 2.985 | 2.056 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.201 | 3.810 | 2.443 | 2.346 | 2.755 | 3.238 | 2.941 | 2.011 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.256 | 3.863 | 2.497 | 2.397 | 2.808 | 3.290 | 2.992 | 2.062 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.231 | 3.838 | 2.472 | 2.372 | 2.784 | 3.265 | 2.967 | 2.037 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.194 | 3.801 | 2.435 | 2.335 | 2.747 | 3.228 | 2.930 | 2.000 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.158 | 3.764 | 2.398 | 2.298 | 2.710 | 3.192 | 2.894 | 1.963 |
| Wood Heater | Other or none specified | 4.320 | 3.929 | 2.563 | 2.465 | 2.874 | 3.357 | 3.060 | 2.130 |
| Electric - Resistance (Slab) | Evaporative | 6.069 | 5.786 | 4.310 | 4.264 | 4.645 | 5.206 | 4.892 | 3.910 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 6.400 | 6.118 | 4.649 | 4.606 | 4.979 | 5.542 | 5.231 | 4.254 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 6.370 | 6.088 | 4.620 | 4.576 | 4.950 | 5.513 | 5.201 | 4.224 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 6.325 | 6.043 | 4.575 | 4.531 | 4.905 | 5.468 | 5.157 | 4.179 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.280 | 5.999 | 4.530 | 4.486 | 4.860 | 5.423 | 5.112 | 4.135 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.337 | 6.053 | 4.585 | 4.541 | 4.915 | 5.478 | 5.166 | 4.188 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.312 | 6.029 | 4.560 | 4.516 | 4.891 | 5.453 | 5.142 | 4.163 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.275 | 5.992 | 4.523 | 4.479 | 4.854 | 5.416 | 5.105 | 4.126 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.238 | 5.955 | 4.486 | 4.442 | 4.817 | 5.379 | 5.068 | 4.089 |
| Electric - Resistance (Slab) | Other or none specified | 6.400 | 6.118 | 4.649 | 4.606 | 4.979 | 5.542 | 5.231 | 4.254 |
| Other or none specified | Evaporative | 3.680 | 3.214 | 1.932 | 1.797 | 2.237 | 2.648 | 2.363 | 1.478 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.932 | 3.474 | 2.183 | 2.057 | 2.493 | 2.910 | 2.627 | 1.744 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.902 | 3.444 | 2.154 | 2.027 | 2.463 | 2.880 | 2.597 | 1.714 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 3.857 | 3.399 | 2.109 | 1.983 | 2.418 | 2.835 | 2.552 | 1.670 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.812 | 3.354 | 2.064 | 1.938 | 2.374 | 2.790 | 2.507 | 1.625 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.881 | 3.421 | 2.131 | 2.005 | 2.441 | 2.856 | 2.573 | 1.690 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.856 | 3.397 | 2.106 | 1.980 | 2.416 | 2.831 | 2.549 | 1.666 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.819 | 3.360 | 2.070 | 1.943 | 2.379 | 2.794 | 2.512 | 1.629 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.783 | 3.323 | 2.033 | 1.906 | 2.342 | 2.757 | 2.475 | 1.592 |
| Other or none specified | Other or none specified | 3.932 | 3.474 | 2.183 | 2.057 | 2.493 | 2.910 | 2.627 | 1.744 |

Table 6.3.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – other heating – South Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 7.550 | 6.628 | 5.263 | 5.003 | 5.771 | 7.381 | 6.764 | 4.935 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 7.947 | 7.037 | 5.685 | 5.427 | 6.183 | 7.781 | 7.173 | 5.361 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 7.909 | 6.999 | 5.646 | 5.389 | 6.144 | 7.743 | 7.134 | 5.323 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 7.851 | 6.941 | 5.588 | 5.331 | 6.087 | 7.685 | 7.076 | 5.265 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.793 | 6.883 | 5.530 | 5.273 | 6.029 | 7.627 | 7.019 | 5.207 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 7.871 | 6.956 | 5.604 | 5.346 | 6.103 | 7.700 | 7.091 | 5.280 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 7.838 | 6.923 | 5.571 | 5.313 | 6.070 | 7.668 | 7.059 | 5.247 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.789 | 6.875 | 5.522 | 5.265 | 6.021 | 7.619 | 7.010 | 5.198 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.741 | 6.826 | 5.473 | 5.216 | 5.972 | 7.570 | 6.961 | 5.149 |
| Electric - Resistance (Panel) | Other or none specified | 7.947 | 7.037 | 5.685 | 5.427 | 6.183 | 7.781 | 7.173 | 5.361 |
| Wood Heater | Evaporative | 4.633 | 3.619 | 2.337 | 2.021 | 2.787 | 4.387 | 3.755 | 1.957 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 5.061 | 4.079 | 2.779 | 2.492 | 3.231 | 4.843 | 4.215 | 2.426 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 5.023 | 4.040 | 2.740 | 2.453 | 3.193 | 4.804 | 4.176 | 2.387 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 4.965 | 3.982 | 2.682 | 2.395 | 3.135 | 4.746 | 4.118 | 2.329 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.907 | 3.924 | 2.625 | 2.337 | 3.077 | 4.689 | 4.061 | 2.271 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.979 | 3.991 | 2.694 | 2.401 | 3.146 | 4.756 | 4.126 | 2.334 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.946 | 3.958 | 2.661 | 2.368 | 3.113 | 4.723 | 4.093 | 2.302 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.897 | 3.909 | 2.612 | 2.320 | 3.064 | 4.675 | 4.045 | 2.253 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.849 | 3.861 | 2.564 | 2.271 | 3.016 | 4.626 | 3.996 | 2.204 |
| Wood Heater | Other or none specified | 5.061 | 4.079 | 2.779 | 2.492 | 3.231 | 4.843 | 4.215 | 2.426 |
| Electric - Resistance (Slab) | Evaporative | 6.874 | 6.045 | 4.561 | 4.341 | 5.060 | 6.855 | 6.198 | 4.270 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 7.298 | 6.481 | 5.010 | 4.797 | 5.498 | 7.282 | 6.635 | 4.726 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 7.259 | 6.443 | 4.971 | 4.758 | 5.460 | 7.243 | 6.597 | 4.688 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 7.201 | 6.385 | 4.913 | 4.700 | 5.402 | 7.185 | 6.539 | 4.630 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.144 | 6.327 | 4.855 | 4.642 | 5.344 | 7.127 | 6.481 | 4.572 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.217 | 6.395 | 4.924 | 4.710 | 5.414 | 7.196 | 6.549 | 4.640 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.184 | 6.363 | 4.892 | 4.677 | 5.381 | 7.164 | 6.517 | 4.607 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.135 | 6.314 | 4.843 | 4.628 | 5.333 | 7.115 | 6.468 | 4.558 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.087 | 6.265 | 4.794 | 4.579 | 5.284 | 7.066 | 6.419 | 4.509 |
| Electric - Resistance (Slab) | Other or none specified | 7.298 | 6.481 | 5.010 | 4.797 | 5.498 | 7.282 | 6.635 | 4.726 |
| Other or none specified | Evaporative | 4.613 | 3.534 | 2.346 | 2.016 | 2.789 | 4.262 | 3.657 | 1.956 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 4.931 | 3.877 | 2.675 | 2.352 | 3.114 | 4.606 | 4.001 | 2.287 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 4.893 | 3.839 | 2.636 | 2.314 | 3.076 | 4.567 | 3.963 | 2.249 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 4.835 | 3.781 | 2.578 | 2.256 | 3.018 | 4.509 | 3.905 | 2.191 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.777 | 3.723 | 2.520 | 2.198 | 2.960 | 4.451 | 3.847 | 2.133 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.868 | 3.808 | 2.609 | 2.281 | 3.047 | 4.537 | 3.933 | 2.217 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.836 | 3.776 | 2.576 | 2.249 | 3.015 | 4.504 | 3.900 | 2.184 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.787 | 3.727 | 2.527 | 2.200 | 2.966 | 4.456 | 3.851 | 2.136 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.738 | 3.678 | 2.478 | 2.151 | 2.917 | 4.407 | 3.802 | 2.087 |
| Other or none specified | Other or none specified | 4.931 | 3.877 | 2.675 | 2.352 | 3.114 | 4.606 | 4.001 | 2.287 |

Table 6.3.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 6 – other heating – Western Australia

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 8.463 | 6.955 | 5.935 | 5.472 | 6.536 | 9.166 | 8.295 | 5.754 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 8.888 | 7.405 | 6.401 | 5.944 | 6.986 | 9.579 | 8.723 | 6.222 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 8.846 | 7.363 | 6.359 | 5.902 | 6.944 | 9.537 | 8.681 | 6.180 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 8.783 | 7.300 | 6.296 | 5.838 | 6.881 | 9.474 | 8.618 | 6.117 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.720 | 7.237 | 6.233 | 5.775 | 6.818 | 9.410 | 8.555 | 6.054 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 8.805 | 7.314 | 6.310 | 5.852 | 6.896 | 9.490 | 8.633 | 6.130 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 8.769 | 7.279 | 6.275 | 5.816 | 6.861 | 9.454 | 8.598 | 6.095 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.716 | 7.225 | 6.221 | 5.763 | 6.808 | 9.401 | 8.545 | 6.042 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.663 | 7.172 | 6.168 | 5.710 | 6.754 | 9.348 | 8.491 | 5.988 |
| Electric - Resistance (Panel) | Other or none specified | 8.888 | 7.405 | 6.401 | 5.944 | 6.986 | 9.579 | 8.723 | 6.222 |
| Wood Heater | Evaporative | 5.544 | 3.925 | 2.951 | 2.454 | 3.497 | 6.247 | 5.319 | 2.721 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 6.023 | 4.442 | 3.447 | 2.976 | 3.994 | 6.739 | 5.825 | 3.247 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 5.981 | 4.400 | 3.405 | 2.934 | 3.952 | 6.697 | 5.783 | 3.205 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 5.918 | 4.337 | 3.342 | 2.870 | 3.889 | 6.634 | 5.719 | 3.141 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.855 | 4.273 | 3.279 | 2.807 | 3.825 | 6.571 | 5.656 | 3.078 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.933 | 4.342 | 3.352 | 2.872 | 3.898 | 6.641 | 5.726 | 3.145 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.897 | 4.307 | 3.316 | 2.837 | 3.863 | 6.606 | 5.691 | 3.110 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.844 | 4.254 | 3.263 | 2.783 | 3.810 | 6.553 | 5.638 | 3.056 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.791 | 4.200 | 3.210 | 2.730 | 3.756 | 6.500 | 5.584 | 3.003 |
| Wood Heater | Other or none specified | 6.023 | 4.442 | 3.447 | 2.976 | 3.994 | 6.739 | 5.825 | 3.247 |
| Electric - Resistance (Slab) | Evaporative | 6.732 | 5.210 | 4.119 | 3.669 | 4.699 | 7.578 | 6.641 | 3.959 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 7.205 | 5.714 | 4.624 | 4.188 | 5.193 | 8.044 | 7.126 | 4.477 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 7.163 | 5.672 | 4.582 | 4.146 | 5.151 | 8.002 | 7.083 | 4.435 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 7.100 | 5.609 | 4.519 | 4.083 | 5.088 | 7.939 | 7.020 | 4.372 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.036 | 5.546 | 4.456 | 4.020 | 5.025 | 7.876 | 6.957 | 4.309 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.114 | 5.616 | 4.528 | 4.088 | 5.098 | 7.948 | 7.028 | 4.378 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.079 | 5.581 | 4.492 | 4.052 | 5.063 | 7.913 | 6.993 | 4.342 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.025 | 5.528 | 4.439 | 3.999 | 5.009 | 7.859 | 6.940 | 4.289 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.972 | 5.474 | 4.386 | 3.946 | 4.956 | 7.806 | 6.887 | 4.236 |
| Electric - Resistance (Slab) | Other or none specified | 7.205 | 5.714 | 4.624 | 4.188 | 5.193 | 8.044 | 7.126 | 4.477 |
| Other or none specified | Evaporative | 5.083 | 3.369 | 2.552 | 2.026 | 3.064 | 5.557 | 4.674 | 2.260 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 5.440 | 3.750 | 2.907 | 2.397 | 3.424 | 5.931 | 5.055 | 2.643 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 5.398 | 3.708 | 2.865 | 2.355 | 3.382 | 5.889 | 5.013 | 2.601 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 5.335 | 3.645 | 2.802 | 2.292 | 3.319 | 5.826 | 4.950 | 2.538 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.272 | 3.581 | 2.738 | 2.229 | 3.256 | 5.763 | 4.886 | 2.475 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.369 | 3.672 | 2.835 | 2.318 | 3.352 | 5.854 | 4.978 | 2.565 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.334 | 3.637 | 2.800 | 2.282 | 3.316 | 5.818 | 4.943 | 2.530 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.281 | 3.583 | 2.746 | 2.229 | 3.263 | 5.765 | 4.889 | 2.477 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.227 | 3.530 | 2.693 | 2.176 | 3.210 | 5.712 | 4.836 | 2.423 |
| Other or none specified | Other or none specified | 5.440 | 3.750 | 2.907 | 2.397 | 3.424 | 5.931 | 5.055 | 2.643 |

2.4.7 Climate zone 7

Table 7.1.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – gas heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 6.878 | 5.956 | 4.935 | 4.691 | 4.828 | 6.988 | 6.428 | 4.446 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.226 | 6.308 | 5.292 | 5.051 | 5.183 | 7.337 | 6.780 | 4.808 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.182 | 6.264 | 5.249 | 5.008 | 5.139 | 7.293 | 6.736 | 4.765 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.117 | 6.199 | 5.183 | 4.942 | 5.073 | 7.227 | 6.670 | 4.699 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.051 | 6.133 | 5.117 | 4.876 | 5.007 | 7.161 | 6.604 | 4.633 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 7.157 | 6.238 | 5.221 | 4.979 | 5.112 | 7.267 | 6.709 | 4.735 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.121 | 6.201 | 5.185 | 4.943 | 5.075 | 7.230 | 6.673 | 4.699 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.066 | 6.146 | 5.129 | 4.888 | 5.020 | 7.175 | 6.618 | 4.644 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 7.010 | 6.091 | 5.074 | 4.833 | 4.965 | 7.120 | 6.563 | 4.589 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Other or none specified | 7.226 | 6.308 | 5.292 | 5.051 | 5.183 | 7.337 | 6.780 | 4.808 |
| Gas – ducted < 4.5 Stars | Evaporative | 6.466 | 5.544 | 4.523 | 4.279 | 4.416 | 6.576 | 6.016 | 4.034 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.814 | 5.896 | 4.881 | 4.639 | 4.771 | 6.925 | 6.368 | 4.396 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.770 | 5.852 | 4.837 | 4.596 | 4.727 | 6.881 | 6.324 | 4.353 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.705 | 5.787 | 4.771 | 4.530 | 4.661 | 6.815 | 6.258 | 4.287 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.639 | 5.721 | 4.705 | 4.464 | 4.595 | 6.749 | 6.192 | 4.221 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.745 | 5.826 | 4.809 | 4.567 | 4.700 | 6.855 | 6.297 | 4.323 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.709 | 5.789 | 4.773 | 4.531 | 4.663 | 6.818 | 6.261 | 4.287 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.654 | 5.734 | 4.717 | 4.476 | 4.608 | 6.763 | 6.206 | 4.232 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.598 | 5.679 | 4.662 | 4.421 | 4.553 | 6.708 | 6.151 | 4.177 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Other or none specified | 6.814 | 5.896 | 4.881 | 4.639 | 4.771 | 6.925 | 6.368 | 4.396 |
| Gas – ducted < 6 Stars | Evaporative | 5.848 | 4.926 | 3.905 | 3.661 | 3.798 | 5.958 | 5.398 | 3.416 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.196 | 5.278 | 4.263 | 4.021 | 4.153 | 6.307 | 5.750 | 3.778 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.152 | 5.234 | 4.219 | 3.978 | 4.109 | 6.263 | 5.706 | 3.735 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.087 | 5.169 | 4.153 | 3.912 | 4.043 | 6.197 | 5.640 | 3.669 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.021 | 5.103 | 4.087 | 3.846 | 3.977 | 6.131 | 5.574 | 3.603 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.127 | 5.208 | 4.191 | 3.949 | 4.082 | 6.237 | 5.679 | 3.705 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.091 | 5.171 | 4.155 | 3.913 | 4.046 | 6.200 | 5.643 | 3.669 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.036 | 5.116 | 4.099 | 3.858 | 3.990 | 6.145 | 5.588 | 3.614 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.980 | 5.061 | 4.044 | 3.803 | 3.935 | 6.090 | 5.533 | 3.559 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Other or none specified | 6.196 | 5.278 | 4.263 | 4.021 | 4.153 | 6.307 | 5.750 | 3.778 |
| Gas – ducted ≥ 6 Stars | Evaporative | 5.230 | 4.308 | 3.287 | 3.043 | 3.180 | 5.340 | 4.780 | 2.798 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.578 | 4.660 | 3.645 | 3.403 | 3.535 | 5.689 | 5.132 | 3.160 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.535 | 4.616 | 3.601 | 3.360 | 3.491 | 5.645 | 5.088 | 3.117 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.469 | 4.551 | 3.535 | 3.294 | 3.425 | 5.579 | 5.022 | 3.051 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.403 | 4.485 | 3.469 | 3.228 | 3.359 | 5.513 | 4.956 | 2.985 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.509 | 4.590 | 3.573 | 3.331 | 3.464 | 5.619 | 5.061 | 3.087 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.473 | 4.553 | 3.537 | 3.295 | 3.428 | 5.582 | 5.025 | 3.051 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.418 | 4.498 | 3.481 | 3.240 | 3.372 | 5.527 | 4.970 | 2.996 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.363 | 4.443 | 3.426 | 3.185 | 3.317 | 5.472 | 4.915 | 2.941 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Other or none specified | 5.578 | 4.660 | 3.645 | 3.403 | 3.535 | 5.689 | 5.132 | 3.160 |
| Gas - non ducted < 3 Stars | Evaporative | 5.851 | 4.905 | 3.899 | 3.644 | 3.789 | 5.931 | 5.372 | 3.401 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.202 | 5.262 | 4.264 | 4.014 | 4.150 | 6.285 | 5.729 | 3.773 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.158 | 5.218 | 4.220 | 3.970 | 4.106 | 6.241 | 5.685 | 3.729 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.092 | 5.152 | 4.154 | 3.904 | 4.040 | 6.175 | 5.619 | 3.664 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.026 | 5.086 | 4.089 | 3.839 | 3.975 | 6.109 | 5.553 | 3.598 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.132 | 5.191 | 4.189 | 3.938 | 4.077 | 6.214 | 5.658 | 3.696 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.095 | 5.154 | 4.153 | 3.902 | 4.040 | 6.178 | 5.621 | 3.659 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.040 | 5.099 | 4.098 | 3.847 | 3.985 | 6.123 | 5.566 | 3.604 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.985 | 5.044 | 4.043 | 3.792 | 3.930 | 6.067 | 5.511 | 3.549 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Other or none specified | 6.202 | 5.262 | 4.264 | 4.014 | 4.150 | 6.285 | 5.729 | 3.773 |
| Gas - non ducted < 4.5 Stars | Evaporative | 5.636 | 4.691 | 3.684 | 3.430 | 3.575 | 5.717 | 5.158 | 3.187 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.987 | 5.048 | 4.050 | 3.800 | 3.936 | 6.071 | 5.515 | 3.559 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.943 | 5.004 | 4.006 | 3.756 | 3.892 | 6.027 | 5.471 | 3.515 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.878 | 4.938 | 3.940 | 3.690 | 3.826 | 5.961 | 5.405 | 3.449 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.812 | 4.872 | 3.874 | 3.624 | 3.760 | 5.895 | 5.339 | 3.383 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.918 | 4.977 | 3.975 | 3.724 | 3.862 | 6.000 | 5.444 | 3.482 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.881 | 4.940 | 3.938 | 3.687 | 3.826 | 5.963 | 5.407 | 3.445 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.826 | 4.885 | 3.883 | 3.632 | 3.771 | 5.908 | 5.352 | 3.390 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.771 | 4.830 | 3.828 | 3.577 | 3.716 | 5.853 | 5.297 | 3.335 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 5.987 | 5.048 | 4.050 | 3.800 | 3.936 | 6.071 | 5.515 | 3.559 |
| Gas - non ducted < 6 Stars | Evaporative | 5.315 | 4.369 | 3.363 | 3.108 | 3.253 | 5.396 | 4.837 | 2.866 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.666 | 4.726 | 3.729 | 3.479 | 3.615 | 5.749 | 5.193 | 3.238 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.622 | 4.682 | 3.685 | 3.435 | 3.571 | 5.705 | 5.149 | 3.194 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.556 | 4.617 | 3.619 | 3.369 | 3.505 | 5.640 | 5.084 | 3.128 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.490 | 4.551 | 3.553 | 3.303 | 3.439 | 5.574 | 5.018 | 3.062 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 5.596 | 4.655 | 3.654 | 3.403 | 3.541 | 5.679 | 5.122 | 3.160 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.560 | 4.619 | 3.617 | 3.366 | 3.504 | 5.642 | 5.086 | 3.123 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.505 | 4.563 | 3.562 | 3.311 | 3.449 | 5.587 | 5.031 | 3.068 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.450 | 4.508 | 3.507 | 3.256 | 3.394 | 5.532 | 4.975 | 3.013 |
| Gas - non ducted < 6 Stars | Other or none specified | 5.666 | 4.726 | 3.729 | 3.479 | 3.615 | 5.749 | 5.193 | 3.238 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 4.994 | 4.048 | 3.042 | 2.787 | 2.932 | 5.074 | 4.515 | 2.544 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.345 | 4.405 | 3.407 | 3.157 | 3.293 | 5.428 | 4.872 | 2.916 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.301 | 4.361 | 3.363 | 3.113 | 3.249 | 5.384 | 4.828 | 2.873 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.235 | 4.295 | 3.297 | 3.047 | 3.183 | 5.318 | 4.762 | 2.807 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.169 | 4.229 | 3.232 | 2.982 | 3.118 | 5.252 | 4.696 | 2.741 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.275 | 4.334 | 3.332 | 3.081 | 3.220 | 5.357 | 4.801 | 2.839 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.238 | 4.297 | 3.296 | 3.045 | 3.183 | 5.321 | 4.764 | 2.802 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 5.183 | 4.242 | 3.241 | 2.990 | 3.128 | 5.266 | 4.709 | 2.747 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.128 | 4.187 | 3.186 | 2.935 | 3.073 | 5.210 | 4.654 | 2.692 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 5.345 | 4.405 | 3.407 | 3.157 | 3.293 | 5.428 | 4.872 | 2.916 |

Table 7.1.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – gas heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 4.669 | 4.389 | 3.057 | 3.002 | 2.952 | 3.884 | 3.604 | 2.556 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.981 | 4.701 | 3.384 | 3.328 | 3.275 | 4.201 | 3.924 | 2.887 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.943 | 4.663 | 3.346 | 3.290 | 3.237 | 4.163 | 3.886 | 2.849 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.885 | 4.605 | 3.288 | 3.232 | 3.179 | 4.105 | 3.828 | 2.792 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.828 | 4.548 | 3.231 | 3.175 | 3.122 | 4.048 | 3.771 | 2.734 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 4.918 | 4.639 | 3.318 | 3.262 | 3.210 | 4.137 | 3.859 | 2.821 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.886 | 4.607 | 3.286 | 3.230 | 3.177 | 4.105 | 3.827 | 2.788 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.838 | 4.559 | 3.238 | 3.181 | 3.129 | 4.057 | 3.779 | 2.740 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.789 | 4.510 | 3.189 | 3.133 | 3.081 | 4.009 | 3.730 | 2.692 |
| Gas – ducted < 3 Stars | Other or none specified | 4.981 | 4.701 | 3.384 | 3.328 | 3.275 | 4.201 | 3.924 | 2.887 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 4.447 | 4.167 | 2.835 | 2.780 | 2.730 | 3.662 | 3.382 | 2.334 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.759 | 4.479 | 3.162 | 3.106 | 3.053 | 3.979 | 3.702 | 2.665 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.720 | 4.441 | 3.123 | 3.068 | 3.015 | 3.941 | 3.664 | 2.627 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.663 | 4.383 | 3.066 | 3.010 | 2.957 | 3.883 | 3.606 | 2.569 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.605 | 4.326 | 3.008 | 2.953 | 2.900 | 3.826 | 3.549 | 2.512 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.696 | 4.417 | 3.096 | 3.040 | 2.987 | 3.915 | 3.637 | 2.598 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.664 | 4.385 | 3.064 | 3.007 | 2.955 | 3.883 | 3.605 | 2.566 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.615 | 4.336 | 3.015 | 2.959 | 2.907 | 3.835 | 3.556 | 2.518 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.567 | 4.288 | 2.967 | 2.911 | 2.858 | 3.786 | 3.508 | 2.469 |
| Gas – ducted < 4.5 Stars | Other or none specified | 4.759 | 4.479 | 3.162 | 3.106 | 3.053 | 3.979 | 3.702 | 2.665 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 4.113 | 3.834 | 2.502 | 2.446 | 2.397 | 3.328 | 3.048 | 2.000 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.425 | 4.146 | 2.828 | 2.773 | 2.720 | 3.645 | 3.368 | 2.332 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.387 | 4.107 | 2.790 | 2.734 | 2.681 | 3.607 | 3.330 | 2.294 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.329 | 4.050 | 2.733 | 2.677 | 2.624 | 3.550 | 3.273 | 2.236 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.272 | 3.992 | 2.675 | 2.619 | 2.566 | 3.492 | 3.215 | 2.179 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.362 | 4.083 | 2.762 | 2.706 | 2.654 | 3.582 | 3.304 | 2.265 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.330 | 4.051 | 2.730 | 2.674 | 2.622 | 3.550 | 3.271 | 2.233 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.282 | 4.003 | 2.682 | 2.626 | 2.573 | 3.501 | 3.223 | 2.184 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.234 | 3.955 | 2.634 | 2.577 | 2.525 | 3.453 | 3.175 | 2.136 |
| Gas – ducted < 6 Stars | Other or none specified | 4.425 | 4.146 | 2.828 | 2.773 | 2.720 | 3.645 | 3.368 | 2.332 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 3.780 | 3.500 | 2.168 | 2.113 | 2.063 | 2.995 | 2.715 | 1.667 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.092 | 3.812 | 2.495 | 2.439 | 2.386 | 3.312 | 3.035 | 1.998 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.053 | 3.774 | 2.457 | 2.401 | 2.348 | 3.274 | 2.997 | 1.960 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.996 | 3.716 | 2.399 | 2.343 | 2.290 | 3.216 | 2.939 | 1.903 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.939 | 3.659 | 2.342 | 2.286 | 2.233 | 3.159 | 2.882 | 1.845 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.029 | 3.750 | 2.429 | 2.373 | 2.321 | 3.248 | 2.970 | 1.931 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.997 | 3.718 | 2.397 | 2.341 | 2.288 | 3.216 | 2.938 | 1.899 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.949 | 3.670 | 2.349 | 2.292 | 2.240 | 3.168 | 2.890 | 1.851 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.900 | 3.621 | 2.300 | 2.244 | 2.192 | 3.120 | 2.841 | 1.803 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 4.092 | 3.812 | 2.495 | 2.439 | 2.386 | 3.312 | 3.035 | 1.998 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 4.089 | 3.795 | 2.478 | 2.413 | 2.370 | 3.288 | 3.009 | 1.972 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.405 | 4.110 | 2.807 | 2.746 | 2.698 | 3.610 | 3.336 | 2.310 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.366 | 4.072 | 2.769 | 2.708 | 2.660 | 3.571 | 3.298 | 2.272 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.309 | 4.015 | 2.712 | 2.650 | 2.602 | 3.514 | 3.240 | 2.214 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.252 | 3.957 | 2.654 | 2.593 | 2.545 | 3.457 | 3.183 | 2.157 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.341 | 4.047 | 2.741 | 2.679 | 2.632 | 3.544 | 3.270 | 2.240 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.308 | 4.015 | 2.709 | 2.647 | 2.600 | 3.512 | 3.237 | 2.208 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.260 | 3.967 | 2.661 | 2.598 | 2.551 | 3.464 | 3.189 | 2.160 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.212 | 3.918 | 2.612 | 2.550 | 2.503 | 3.415 | 3.141 | 2.111 |
| Gas - non ducted < 3 Stars | Other or none specified | 4.405 | 4.110 | 2.807 | 2.746 | 2.698 | 3.610 | 3.336 | 2.310 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 3.975 | 3.681 | 2.363 | 2.299 | 2.256 | 3.174 | 2.895 | 1.858 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.291 | 3.996 | 2.693 | 2.632 | 2.584 | 3.496 | 3.222 | 2.196 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.252 | 3.958 | 2.655 | 2.594 | 2.546 | 3.457 | 3.183 | 2.158 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.195 | 3.901 | 2.598 | 2.536 | 2.488 | 3.400 | 3.126 | 2.100 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.138 | 3.843 | 2.540 | 2.479 | 2.431 | 3.343 | 3.069 | 2.043 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.227 | 3.933 | 2.627 | 2.565 | 2.518 | 3.430 | 3.155 | 2.126 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.194 | 3.901 | 2.595 | 2.533 | 2.486 | 3.398 | 3.123 | 2.094 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.146 | 3.853 | 2.547 | 2.484 | 2.437 | 3.350 | 3.075 | 2.046 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.098 | 3.804 | 2.498 | 2.436 | 2.389 | 3.301 | 3.027 | 1.997 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 4.291 | 3.996 | 2.693 | 2.632 | 2.584 | 3.496 | 3.222 | 2.196 |
| Gas - non ducted < 6 Stars | Evaporative | 3.804 | 3.510 | 2.192 | 2.128 | 2.085 | 3.003 | 2.724 | 1.687 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 4.120 | 3.825 | 2.522 | 2.461 | 2.413 | 3.325 | 3.051 | 2.025 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 4.081 | 3.787 | 2.484 | 2.423 | 2.374 | 3.286 | 3.012 | 1.987 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 4.024 | 3.730 | 2.426 | 2.365 | 2.317 | 3.229 | 2.955 | 1.929 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.967 | 3.672 | 2.369 | 2.308 | 2.260 | 3.172 | 2.898 | 1.872 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.055 | 3.762 | 2.456 | 2.394 | 2.347 | 3.259 | 2.984 | 1.955 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.023 | 3.730 | 2.424 | 2.361 | 2.314 | 3.227 | 2.952 | 1.923 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.975 | 3.682 | 2.376 | 2.313 | 2.266 | 3.179 | 2.904 | 1.875 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.927 | 3.633 | 2.327 | 2.265 | 2.218 | 3.130 | 2.856 | 1.826 |
| Gas - non ducted < 6 Stars | Other or none specified | 4.120 | 3.825 | 2.522 | 2.461 | 2.413 | 3.325 | 3.051 | 2.025 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 3.633 | 3.339 | 2.021 | 1.957 | 1.914 | 2.832 | 2.553 | 1.515 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 3.949 | 3.654 | 2.351 | 2.290 | 2.242 | 3.154 | 2.880 | 1.854 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 3.910 | 3.616 | 2.313 | 2.251 | 2.203 | 3.115 | 2.841 | 1.816 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 3.853 | 3.559 | 2.255 | 2.194 | 2.146 | 3.058 | 2.784 | 1.758 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.795 | 3.501 | 2.198 | 2.137 | 2.089 | 3.000 | 2.726 | 1.701 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.884 | 3.591 | 2.285 | 2.223 | 2.176 | 3.088 | 2.813 | 1.784 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.852 | 3.559 | 2.253 | 2.190 | 2.143 | 3.056 | 2.781 | 1.752 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.804 | 3.511 | 2.205 | 2.142 | 2.095 | 3.007 | 2.733 | 1.704 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.756 | 3.462 | 2.156 | 2.094 | 2.047 | 2.959 | 2.685 | 1.655 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 3.949 | 3.654 | 2.351 | 2.290 | 2.242 | 3.154 | 2.880 | 1.854 |

Table 7.1.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – gas heating – Tasmania

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 9.438 | 8.780 | 7.357 | 7.188 | 7.851 | X | 9.753 | 7.389 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 9.455 | 8.797 | 7.376 | 7.207 | 7.869 | X | 9.770 | 7.408 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 9.453 | 8.795 | 7.374 | 7.205 | 7.866 | X | 9.767 | 7.405 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 9.449 | 8.791 | 7.370 | 7.201 | 7.862 | X | 9.764 | 7.401 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 9.445 | 8.787 | 7.366 | 7.197 | 7.859 | X | 9.760 | 7.397 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 9.451 | 8.794 | 7.372 | 7.204 | 7.865 | X | 9.767 | 7.404 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 9.449 | 8.792 | 7.370 | 7.201 | 7.863 | X | 9.765 | 7.402 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 9.446 | 8.789 | 7.367 | 7.198 | 7.860 | X | 9.762 | 7.399 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 9.443 | 8.786 | 7.364 | 7.195 | 7.857 | X | 9.759 | 7.395 |
| Gas – ducted < 3 Stars | Other or none specified | 9.455 | 8.797 | 7.376 | 7.207 | 7.869 | X | 9.770 | 7.408 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 8.990 | 8.332 | 6.909 | 6.741 | 7.403 | X | 9.305 | 6.941 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 9.007 | 8.350 | 6.928 | 6.760 | 7.421 | X | 9.322 | 6.960 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 9.005 | 8.347 | 6.926 | 6.757 | 7.418 | X | 9.320 | 6.957 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 9.001 | 8.343 | 6.922 | 6.753 | 7.415 | X | 9.316 | 6.953 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.997 | 8.339 | 6.918 | 6.749 | 7.411 | X | 9.312 | 6.950 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 9.003 | 8.346 | 6.924 | 6.756 | 7.418 | X | 9.319 | 6.956 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 9.001 | 8.344 | 6.922 | 6.754 | 7.415 | X | 9.317 | 6.954 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.998 | 8.341 | 6.919 | 6.750 | 7.412 | X | 9.314 | 6.951 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.995 | 8.338 | 6.916 | 6.747 | 7.409 | X | 9.311 | 6.948 |
| Gas – ducted < 4.5 Stars | Other or none specified | 9.007 | 8.350 | 6.928 | 6.760 | 7.421 | X | 9.322 | 6.960 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 8.318 | 7.660 | 6.237 | 6.069 | 6.731 | 9.420 | 8.633 | 6.269 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 8.336 | 7.678 | 6.257 | 6.088 | 6.749 | 9.437 | 8.650 | 6.288 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 8.333 | 7.675 | 6.254 | 6.085 | 6.747 | 9.434 | 8.648 | 6.286 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 8.329 | 7.671 | 6.250 | 6.081 | 6.743 | 9.430 | 8.644 | 6.282 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.325 | 7.667 | 6.246 | 6.077 | 6.739 | 9.426 | 8.640 | 6.278 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 8.331 | 7.674 | 6.253 | 6.084 | 6.746 | 9.434 | 8.647 | 6.284 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 8.329 | 7.672 | 6.250 | 6.082 | 6.744 | 9.432 | 8.645 | 6.282 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.326 | 7.669 | 6.247 | 6.078 | 6.740 | 9.429 | 8.642 | 6.279 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.323 | 7.666 | 6.244 | 6.075 | 6.737 | 9.425 | 8.639 | 6.276 |
| Gas – ducted < 6 Stars | Other or none specified | 8.336 | 7.678 | 6.257 | 6.088 | 6.749 | 9.437 | 8.650 | 6.288 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 7.646 | 6.988 | 5.566 | 5.397 | 6.059 | 8.748 | 7.961 | 5.597 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.664 | 7.006 | 5.585 | 5.416 | 6.077 | 8.765 | 7.978 | 5.616 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.661 | 7.003 | 5.582 | 5.413 | 6.075 | 8.762 | 7.976 | 5.614 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.657 | 6.999 | 5.578 | 5.409 | 6.071 | 8.758 | 7.972 | 5.610 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.653 | 6.995 | 5.574 | 5.405 | 6.067 | 8.754 | 7.968 | 5.606 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.660 | 7.003 | 5.581 | 5.412 | 6.074 | 8.762 | 7.976 | 5.612 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.657 | 7.000 | 5.579 | 5.410 | 6.072 | 8.760 | 7.973 | 5.610 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.654 | 6.997 | 5.575 | 5.407 | 6.068 | 8.757 | 7.970 | 5.607 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.651 | 6.994 | 5.572 | 5.403 | 6.065 | 8.754 | 7.967 | 5.604 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 7.664 | 7.006 | 5.585 | 5.416 | 6.077 | 8.765 | 7.978 | 5.616 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 8.083 | 7.378 | 5.966 | 5.787 | 6.459 | 9.138 | 8.351 | 5.986 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 8.102 | 7.397 | 5.987 | 5.807 | 6.479 | 9.156 | 8.369 | 6.006 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 8.100 | 7.395 | 5.984 | 5.805 | 6.476 | 9.153 | 8.367 | 6.004 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 8.096 | 7.391 | 5.980 | 5.801 | 6.472 | 9.149 | 8.363 | 6.000 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.092 | 7.387 | 5.976 | 5.797 | 6.468 | 9.146 | 8.359 | 5.996 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 8.098 | 7.393 | 5.982 | 5.803 | 6.475 | 9.153 | 8.366 | 6.002 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 8.096 | 7.391 | 5.980 | 5.801 | 6.473 | 9.151 | 8.364 | 6.000 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.093 | 7.388 | 5.977 | 5.797 | 6.469 | 9.147 | 8.361 | 5.997 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.089 | 7.385 | 5.974 | 5.794 | 6.466 | 9.144 | 8.357 | 5.993 |
| Gas - non ducted < 3 Stars | Other or none specified | 8.102 | 7.397 | 5.987 | 5.807 | 6.479 | 9.156 | 8.369 | 6.006 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 7.749 | 7.044 | 5.632 | 5.453 | 6.125 | 8.804 | 8.017 | 5.652 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.768 | 7.063 | 5.652 | 5.473 | 6.144 | 8.822 | 8.035 | 5.672 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.765 | 7.060 | 5.650 | 5.470 | 6.142 | 8.819 | 8.032 | 5.669 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.761 | 7.056 | 5.646 | 5.466 | 6.138 | 8.815 | 8.029 | 5.665 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.757 | 7.052 | 5.642 | 5.462 | 6.134 | 8.811 | 8.025 | 5.662 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.764 | 7.059 | 5.648 | 5.468 | 6.140 | 8.818 | 8.032 | 5.668 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.761 | 7.057 | 5.646 | 5.466 | 6.138 | 8.816 | 8.030 | 5.666 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.758 | 7.054 | 5.642 | 5.463 | 6.135 | 8.813 | 8.026 | 5.662 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.755 | 7.050 | 5.639 | 5.460 | 6.132 | 8.810 | 8.023 | 5.659 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 7.768 | 7.063 | 5.652 | 5.473 | 6.144 | 8.822 | 8.035 | 5.672 |
| Gas - non ducted < 6 Stars | Evaporative | 7.247 | 6.542 | 5.130 | 4.951 | 5.623 | 8.302 | 7.515 | 5.150 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.266 | 6.561 | 5.151 | 4.971 | 5.643 | 8.320 | 7.533 | 5.170 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.264 | 6.558 | 5.148 | 4.969 | 5.640 | 8.317 | 7.531 | 5.168 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.260 | 6.555 | 5.144 | 4.965 | 5.636 | 8.313 | 7.527 | 5.164 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.256 | 6.551 | 5.140 | 4.961 | 5.632 | 8.310 | 7.523 | 5.160 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 7.262 | 6.557 | 5.146 | 4.967 | 5.639 | 8.317 | 7.530 | 5.166 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.260 | 6.555 | 5.144 | 4.965 | 5.637 | 8.315 | 7.528 | 5.164 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.257 | 6.552 | 5.141 | 4.961 | 5.633 | 8.311 | 7.525 | 5.161 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.253 | 6.549 | 5.138 | 4.958 | 5.630 | 8.308 | 7.521 | 5.157 |
| Gas - non ducted < 6 Stars | Other or none specified | 7.266 | 6.561 | 5.151 | 4.971 | 5.643 | 8.320 | 7.533 | 5.170 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 6.746 | 6.041 | 4.629 | 4.449 | 5.122 | 7.801 | 7.014 | 4.649 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.765 | 6.059 | 4.649 | 4.470 | 5.141 | 7.818 | 7.032 | 4.669 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.762 | 6.057 | 4.646 | 4.467 | 5.139 | 7.816 | 7.029 | 4.666 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.758 | 6.053 | 4.642 | 4.463 | 5.135 | 7.812 | 7.025 | 4.662 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.754 | 6.049 | 4.639 | 4.459 | 5.131 | 7.808 | 7.021 | 4.658 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.760 | 6.056 | 4.645 | 4.465 | 5.137 | 7.815 | 7.029 | 4.664 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.758 | 6.054 | 4.642 | 4.463 | 5.135 | 7.813 | 7.026 | 4.662 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 6.755 | 6.050 | 4.639 | 4.460 | 5.132 | 7.810 | 7.023 | 4.659 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 6.752 | 6.047 | 4.636 | 4.457 | 5.128 | 7.807 | 7.020 | 4.656 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 6.765 | 6.059 | 4.649 | 4.470 | 5.141 | 7.818 | 7.032 | 4.669 |

Table 7.1.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – gas heating – Australian Capital Territory

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 7.498 | 7.008 | 5.665 | 5.558 | 5.559 | 8.243 | 7.581 | 5.272 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.833 | 7.345 | 6.010 | 5.902 | 5.901 | 8.574 | 7.916 | 5.619 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.790 | 7.302 | 5.967 | 5.860 | 5.859 | 8.532 | 7.873 | 5.576 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.726 | 7.238 | 5.903 | 5.796 | 5.795 | 8.468 | 7.809 | 5.512 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.662 | 7.174 | 5.839 | 5.732 | 5.730 | 8.403 | 7.745 | 5.448 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 7.766 | 7.276 | 5.941 | 5.833 | 5.833 | 8.506 | 7.848 | 5.549 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.730 | 7.241 | 5.906 | 5.798 | 5.798 | 8.471 | 7.813 | 5.514 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.678 | 7.189 | 5.853 | 5.745 | 5.745 | 8.418 | 7.760 | 5.461 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 7.625 | 7.136 | 5.800 | 5.693 | 5.692 | 8.366 | 7.707 | 5.409 |
| Gas – ducted < 3 Stars | Other or none specified | 7.833 | 7.345 | 6.010 | 5.902 | 5.901 | 8.574 | 7.916 | 5.619 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 7.018 | 6.529 | 5.186 | 5.078 | 5.080 | 7.763 | 7.101 | 4.793 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.353 | 6.865 | 5.531 | 5.423 | 5.422 | 8.095 | 7.437 | 5.139 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.311 | 6.823 | 5.488 | 5.380 | 5.379 | 8.052 | 7.394 | 5.097 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.247 | 6.759 | 5.424 | 5.316 | 5.315 | 7.988 | 7.330 | 5.033 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.183 | 6.694 | 5.360 | 5.252 | 5.251 | 7.924 | 7.266 | 4.969 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.286 | 6.797 | 5.462 | 5.354 | 5.353 | 8.027 | 7.368 | 5.070 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.251 | 6.762 | 5.426 | 5.319 | 5.318 | 7.992 | 7.333 | 5.035 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.198 | 6.709 | 5.374 | 5.266 | 5.265 | 7.939 | 7.281 | 4.982 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.146 | 6.657 | 5.321 | 5.213 | 5.213 | 7.886 | 7.228 | 4.929 |
| Gas – ducted < 4.5 Stars | Other or none specified | 7.353 | 6.865 | 5.531 | 5.423 | 5.422 | 8.095 | 7.437 | 5.139 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 6.299 | 5.810 | 4.467 | 4.359 | 4.361 | 7.044 | 6.382 | 4.074 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.634 | 6.146 | 4.812 | 4.704 | 4.703 | 7.376 | 6.718 | 4.420 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.592 | 6.104 | 4.769 | 4.661 | 4.660 | 7.333 | 6.675 | 4.378 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.528 | 6.039 | 4.705 | 4.597 | 4.596 | 7.269 | 6.611 | 4.313 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.464 | 5.975 | 4.641 | 4.533 | 4.532 | 7.205 | 6.547 | 4.249 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.567 | 6.078 | 4.743 | 4.635 | 4.634 | 7.308 | 6.649 | 4.351 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.532 | 6.043 | 4.707 | 4.600 | 4.599 | 7.273 | 6.614 | 4.316 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.479 | 5.990 | 4.655 | 4.547 | 4.546 | 7.220 | 6.562 | 4.263 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.427 | 5.937 | 4.602 | 4.494 | 4.494 | 7.167 | 6.509 | 4.210 |
| Gas – ducted < 6 Stars | Other or none specified | 6.634 | 6.146 | 4.812 | 4.704 | 4.703 | 7.376 | 6.718 | 4.420 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 5.580 | 5.091 | 3.748 | 3.640 | 3.642 | 6.325 | 5.663 | 3.354 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.915 | 5.427 | 4.092 | 3.985 | 3.984 | 6.657 | 5.999 | 3.701 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.873 | 5.384 | 4.050 | 3.942 | 3.941 | 6.614 | 5.956 | 3.658 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.809 | 5.320 | 3.986 | 3.878 | 3.877 | 6.550 | 5.892 | 3.594 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.745 | 5.256 | 3.922 | 3.814 | 3.813 | 6.486 | 5.828 | 3.530 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.848 | 5.359 | 4.023 | 3.916 | 3.915 | 6.589 | 5.930 | 3.632 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.813 | 5.324 | 3.988 | 3.881 | 3.880 | 6.554 | 5.895 | 3.597 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.760 | 5.271 | 3.936 | 3.828 | 3.827 | 6.501 | 5.842 | 3.544 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.708 | 5.218 | 3.883 | 3.775 | 3.775 | 6.448 | 5.790 | 3.491 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 5.915 | 5.427 | 4.092 | 3.985 | 3.984 | 6.657 | 5.999 | 3.701 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 6.324 | 5.812 | 4.478 | 4.363 | 4.370 | 7.042 | 6.380 | 4.079 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.665 | 6.154 | 4.829 | 4.714 | 4.717 | 7.380 | 6.721 | 4.431 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.622 | 6.111 | 4.786 | 4.671 | 4.674 | 7.337 | 6.678 | 4.388 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.558 | 6.047 | 4.722 | 4.607 | 4.610 | 7.273 | 6.614 | 4.324 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.494 | 5.983 | 4.658 | 4.543 | 4.546 | 7.209 | 6.550 | 4.260 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.597 | 6.085 | 4.758 | 4.643 | 4.647 | 7.311 | 6.652 | 4.359 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.562 | 6.050 | 4.723 | 4.608 | 4.612 | 7.276 | 6.617 | 4.324 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.509 | 5.997 | 4.670 | 4.555 | 4.559 | 7.223 | 6.564 | 4.271 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.456 | 5.944 | 4.617 | 4.502 | 4.506 | 7.171 | 6.512 | 4.219 |
| Gas - non ducted < 3 Stars | Other or none specified | 6.665 | 6.154 | 4.829 | 4.714 | 4.717 | 7.380 | 6.721 | 4.431 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 6.074 | 5.562 | 4.228 | 4.113 | 4.119 | 6.792 | 6.130 | 3.828 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.414 | 5.903 | 4.578 | 4.463 | 4.467 | 7.129 | 6.471 | 4.180 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.372 | 5.860 | 4.536 | 4.421 | 4.424 | 7.086 | 6.428 | 4.138 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.307 | 5.796 | 4.472 | 4.357 | 4.360 | 7.022 | 6.364 | 4.074 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.243 | 5.732 | 4.408 | 4.293 | 4.296 | 6.958 | 6.300 | 4.010 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.346 | 5.834 | 4.507 | 4.392 | 4.396 | 7.061 | 6.402 | 4.109 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.311 | 5.799 | 4.472 | 4.357 | 4.361 | 7.025 | 6.367 | 4.074 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.258 | 5.747 | 4.420 | 4.305 | 4.308 | 6.973 | 6.314 | 4.021 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.206 | 5.694 | 4.367 | 4.252 | 4.256 | 6.920 | 6.261 | 3.968 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 6.414 | 5.903 | 4.578 | 4.463 | 4.467 | 7.129 | 6.471 | 4.180 |
| Gas - non ducted < 6 Stars | Evaporative | 5.698 | 5.186 | 3.852 | 3.737 | 3.743 | 6.416 | 5.754 | 3.453 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.039 | 5.527 | 4.203 | 4.088 | 4.091 | 6.753 | 6.095 | 3.805 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.996 | 5.485 | 4.160 | 4.045 | 4.048 | 6.711 | 6.052 | 3.762 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.932 | 5.421 | 4.096 | 3.981 | 3.984 | 6.647 | 5.988 | 3.698 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.868 | 5.357 | 4.032 | 3.917 | 3.920 | 6.583 | 5.924 | 3.634 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 5.970 | 5.459 | 4.132 | 4.017 | 4.021 | 6.685 | 6.026 | 3.733 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.935 | 5.424 | 4.097 | 3.982 | 3.985 | 6.650 | 5.991 | 3.698 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.883 | 5.371 | 4.044 | 3.929 | 3.933 | 6.597 | 5.938 | 3.645 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.830 | 5.318 | 3.991 | 3.876 | 3.880 | 6.544 | 5.886 | 3.592 |
| Gas - non ducted < 6 Stars | Other or none specified | 6.039 | 5.527 | 4.203 | 4.088 | 4.091 | 6.753 | 6.095 | 3.805 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 5.323 | 4.810 | 3.477 | 3.361 | 3.368 | 6.041 | 5.378 | 3.077 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 5.663 | 5.152 | 3.827 | 3.712 | 3.715 | 6.378 | 5.719 | 3.429 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 5.620 | 5.109 | 3.784 | 3.669 | 3.673 | 6.335 | 5.676 | 3.386 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 5.556 | 5.045 | 3.720 | 3.605 | 3.609 | 6.271 | 5.612 | 3.322 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.492 | 4.981 | 3.656 | 3.541 | 3.545 | 6.207 | 5.548 | 3.258 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.595 | 5.083 | 3.756 | 3.641 | 3.645 | 6.309 | 5.650 | 3.357 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.560 | 5.048 | 3.721 | 3.606 | 3.610 | 6.274 | 5.615 | 3.322 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 5.507 | 4.995 | 3.668 | 3.553 | 3.557 | 6.221 | 5.563 | 3.269 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.454 | 4.943 | 3.616 | 3.501 | 3.504 | 6.169 | 5.510 | 3.217 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 5.663 | 5.152 | 3.827 | 3.712 | 3.715 | 6.378 | 5.719 | 3.429 |

Table 7.2.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – heat pump heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 4.113 | 2.982 | 2.184 | 1.863 | 2.087 | 3.915 | 3.397 | 1.658 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.458 | 3.342 | 2.553 | 2.226 | 2.446 | 4.266 | 3.753 | 2.033 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.414 | 3.298 | 2.509 | 2.182 | 2.402 | 4.222 | 3.709 | 1.989 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.348 | 3.232 | 2.443 | 2.116 | 2.337 | 4.156 | 3.643 | 1.924 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.282 | 3.166 | 2.377 | 2.050 | 2.271 | 4.090 | 3.577 | 1.858 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 4.387 | 3.268 | 2.478 | 2.153 | 2.371 | 4.195 | 3.679 | 1.957 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.350 | 3.231 | 2.441 | 2.116 | 2.335 | 4.158 | 3.642 | 1.920 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.295 | 3.176 | 2.386 | 2.061 | 2.279 | 4.103 | 3.587 | 1.865 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.240 | 3.121 | 2.331 | 2.006 | 2.224 | 4.048 | 3.532 | 1.810 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 4.458 | 3.342 | 2.553 | 2.226 | 2.446 | 4.266 | 3.753 | 2.033 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.985 | 2.854 | 2.056 | 1.736 | 1.959 | 3.787 | 3.269 | 1.531 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.330 | 3.214 | 2.425 | 2.098 | 2.319 | 4.138 | 3.625 | 1.906 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.286 | 3.170 | 2.381 | 2.054 | 2.275 | 4.095 | 3.581 | 1.862 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.221 | 3.104 | 2.315 | 1.989 | 2.209 | 4.029 | 3.516 | 1.796 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.155 | 3.038 | 2.250 | 1.923 | 2.143 | 3.963 | 3.450 | 1.730 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.259 | 3.140 | 2.351 | 2.025 | 2.244 | 4.068 | 3.551 | 1.830 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.222 | 3.103 | 2.314 | 1.988 | 2.207 | 4.031 | 3.514 | 1.793 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.167 | 3.048 | 2.259 | 1.933 | 2.152 | 3.976 | 3.459 | 1.738 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.112 | 2.993 | 2.204 | 1.878 | 2.097 | 3.921 | 3.404 | 1.683 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.330 | 3.214 | 2.425 | 2.098 | 2.319 | 4.138 | 3.625 | 1.906 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 3.794 | 2.663 | 1.865 | 1.544 | 1.768 | 3.596 | 3.078 | 1.339 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.139 | 3.023 | 2.234 | 1.907 | 2.127 | 3.947 | 3.434 | 1.714 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.095 | 2.979 | 2.190 | 1.863 | 2.084 | 3.903 | 3.390 | 1.670 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.029 | 2.913 | 2.124 | 1.797 | 2.018 | 3.837 | 3.324 | 1.605 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.963 | 2.847 | 2.058 | 1.731 | 1.952 | 3.771 | 3.258 | 1.539 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.068 | 2.949 | 2.159 | 1.834 | 2.052 | 3.876 | 3.360 | 1.638 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.031 | 2.912 | 2.123 | 1.797 | 2.016 | 3.840 | 3.323 | 1.601 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.976 | 2.857 | 2.067 | 1.742 | 1.961 | 3.784 | 3.268 | 1.546 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.921 | 2.802 | 2.012 | 1.687 | 1.905 | 3.729 | 3.213 | 1.491 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 4.139 | 3.023 | 2.234 | 1.907 | 2.127 | 3.947 | 3.434 | 1.714 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.603 | 2.471 | 1.674 | 1.353 | 1.576 | 3.404 | 2.886 | 1.148 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.948 | 2.831 | 2.042 | 1.716 | 1.936 | 3.756 | 3.243 | 1.523 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.904 | 2.787 | 1.999 | 1.672 | 1.892 | 3.712 | 3.199 | 1.479 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.838 | 2.722 | 1.933 | 1.606 | 1.826 | 3.646 | 3.133 | 1.413 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.772 | 2.656 | 1.867 | 1.540 | 1.760 | 3.580 | 3.067 | 1.347 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.876 | 2.757 | 1.968 | 1.642 | 1.861 | 3.685 | 3.168 | 1.447 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.840 | 2.721 | 1.931 | 1.606 | 1.824 | 3.648 | 3.132 | 1.410 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.784 | 2.666 | 1.876 | 1.551 | 1.769 | 3.593 | 3.076 | 1.355 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.729 | 2.610 | 1.821 | 1.496 | 1.714 | 3.538 | 3.021 | 1.300 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.948 | 2.831 | 2.042 | 1.716 | 1.936 | 3.756 | 3.243 | 1.523 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 3.892 | 2.752 | 1.976 | 1.642 | 1.873 | 3.683 | 3.166 | 1.441 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.236 | 3.117 | 2.337 | 2.020 | 2.226 | 4.040 | 3.526 | 1.825 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.192 | 3.073 | 2.293 | 1.976 | 2.182 | 3.996 | 3.482 | 1.781 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.126 | 3.007 | 2.227 | 1.910 | 2.116 | 3.930 | 3.416 | 1.715 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.060 | 2.941 | 2.161 | 1.844 | 2.050 | 3.864 | 3.350 | 1.649 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.166 | 3.041 | 2.260 | 1.943 | 2.153 | 3.967 | 3.452 | 1.745 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.130 | 3.004 | 2.223 | 1.906 | 2.116 | 3.931 | 3.415 | 1.708 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.075 | 2.949 | 2.168 | 1.851 | 2.061 | 3.876 | 3.360 | 1.653 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.020 | 2.894 | 2.113 | 1.796 | 2.006 | 3.821 | 3.305 | 1.598 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 4.236 | 3.117 | 2.337 | 2.020 | 2.226 | 4.040 | 3.526 | 1.825 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.785 | 2.645 | 1.869 | 1.535 | 1.765 | 3.576 | 3.059 | 1.334 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.129 | 3.009 | 2.229 | 1.912 | 2.118 | 3.932 | 3.418 | 1.717 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.085 | 2.966 | 2.185 | 1.868 | 2.074 | 3.889 | 3.374 | 1.673 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.019 | 2.900 | 2.119 | 1.803 | 2.008 | 3.823 | 3.309 | 1.608 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.953 | 2.834 | 2.053 | 1.737 | 1.942 | 3.757 | 3.243 | 1.542 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.059 | 2.934 | 2.152 | 1.836 | 2.046 | 3.860 | 3.344 | 1.637 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.022 | 2.897 | 2.116 | 1.799 | 2.009 | 3.823 | 3.308 | 1.601 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.967 | 2.842 | 2.060 | 1.744 | 1.954 | 3.768 | 3.253 | 1.546 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.912 | 2.787 | 2.005 | 1.689 | 1.899 | 3.713 | 3.198 | 1.491 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.129 | 3.009 | 2.229 | 1.912 | 2.118 | 3.932 | 3.418 | 1.717 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 3.623 | 2.484 | 1.708 | 1.373 | 1.604 | 3.415 | 2.897 | 1.173 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.968 | 2.848 | 2.068 | 1.751 | 1.957 | 3.771 | 3.257 | 1.556 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.924 | 2.804 | 2.024 | 1.707 | 1.913 | 3.727 | 3.213 | 1.512 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.858 | 2.738 | 1.958 | 1.641 | 1.847 | 3.662 | 3.147 | 1.446 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.792 | 2.673 | 1.892 | 1.576 | 1.781 | 3.596 | 3.081 | 1.381 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.898 | 2.772 | 1.991 | 1.674 | 1.884 | 3.699 | 3.183 | 1.476 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.861 | 2.736 | 1.954 | 1.638 | 1.848 | 3.662 | 3.146 | 1.440 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.806 | 2.681 | 1.899 | 1.583 | 1.793 | 3.607 | 3.091 | 1.385 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.751 | 2.626 | 1.844 | 1.528 | 1.738 | 3.552 | 3.036 | 1.329 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.968 | 2.848 | 2.068 | 1.751 | 1.957 | 3.771 | 3.257 | 1.556 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.462 | 2.322 | 1.547 | 1.212 | 1.443 | 3.253 | 2.736 | 1.012 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.806 | 2.687 | 1.907 | 1.590 | 1.796 | 3.610 | 3.096 | 1.395 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.762 | 2.643 | 1.863 | 1.546 | 1.752 | 3.566 | 3.052 | 1.351 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.697 | 2.577 | 1.797 | 1.480 | 1.686 | 3.500 | 2.986 | 1.285 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.631 | 2.511 | 1.731 | 1.414 | 1.620 | 3.435 | 2.920 | 1.219 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.737 | 2.611 | 1.830 | 1.513 | 1.723 | 3.538 | 3.022 | 1.315 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.700 | 2.574 | 1.793 | 1.477 | 1.687 | 3.501 | 2.985 | 1.278 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.645 | 2.519 | 1.738 | 1.422 | 1.632 | 3.446 | 2.930 | 1.223 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.590 | 2.464 | 1.683 | 1.366 | 1.576 | 3.391 | 2.875 | 1.168 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.806 | 2.687 | 1.907 | 1.590 | 1.796 | 3.610 | 3.096 | 1.395 |

Table 7.2.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – heat pump heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 3.497 | 3.097 | 1.906 | 1.795 | 1.804 | 2.601 | 2.342 | 1.395 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.809 | 3.409 | 2.221 | 2.118 | 2.120 | 2.918 | 2.665 | 1.724 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.771 | 3.371 | 2.182 | 2.079 | 2.082 | 2.880 | 2.627 | 1.686 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.713 | 3.313 | 2.125 | 2.022 | 2.024 | 2.822 | 2.569 | 1.628 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.656 | 3.256 | 2.067 | 1.964 | 1.967 | 2.765 | 2.512 | 1.571 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 3.747 | 3.345 | 2.157 | 2.053 | 2.057 | 2.853 | 2.600 | 1.655 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.714 | 3.313 | 2.124 | 2.021 | 2.025 | 2.821 | 2.568 | 1.623 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.666 | 3.265 | 2.076 | 1.972 | 1.976 | 2.773 | 2.519 | 1.575 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.618 | 3.217 | 2.028 | 1.924 | 1.928 | 2.724 | 2.471 | 1.527 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 3.809 | 3.409 | 2.221 | 2.118 | 2.120 | 2.918 | 2.665 | 1.724 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.396 | 2.995 | 1.804 | 1.694 | 1.703 | 2.499 | 2.241 | 1.293 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.708 | 3.307 | 2.119 | 2.016 | 2.019 | 2.817 | 2.564 | 1.623 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.669 | 3.269 | 2.081 | 1.978 | 1.980 | 2.778 | 2.525 | 1.584 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.612 | 3.212 | 2.023 | 1.920 | 1.923 | 2.721 | 2.468 | 1.527 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.555 | 3.154 | 1.966 | 1.863 | 1.865 | 2.664 | 2.410 | 1.469 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.645 | 3.244 | 2.055 | 1.951 | 1.955 | 2.752 | 2.498 | 1.554 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.613 | 3.212 | 2.023 | 1.919 | 1.923 | 2.719 | 2.466 | 1.522 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.565 | 3.163 | 1.975 | 1.871 | 1.875 | 2.671 | 2.418 | 1.473 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.516 | 3.115 | 1.926 | 1.823 | 1.826 | 2.623 | 2.370 | 1.425 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.708 | 3.307 | 2.119 | 2.016 | 2.019 | 2.817 | 2.564 | 1.623 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 3.243 | 2.843 | 1.652 | 1.541 | 1.551 | 2.347 | 2.089 | 1.141 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.556 | 3.155 | 1.967 | 1.864 | 1.866 | 2.664 | 2.411 | 1.470 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.517 | 3.117 | 1.929 | 1.826 | 1.828 | 2.626 | 2.373 | 1.432 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.460 | 3.059 | 1.871 | 1.768 | 1.771 | 2.569 | 2.316 | 1.375 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.402 | 3.002 | 1.814 | 1.711 | 1.713 | 2.511 | 2.258 | 1.317 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.493 | 3.092 | 1.903 | 1.799 | 1.803 | 2.599 | 2.346 | 1.402 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.461 | 3.060 | 1.871 | 1.767 | 1.771 | 2.567 | 2.314 | 1.369 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.412 | 3.011 | 1.822 | 1.719 | 1.723 | 2.519 | 2.266 | 1.321 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.364 | 2.963 | 1.774 | 1.670 | 1.674 | 2.471 | 2.217 | 1.273 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.556 | 3.155 | 1.967 | 1.864 | 1.866 | 2.664 | 2.411 | 1.470 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.091 | 2.691 | 1.500 | 1.389 | 1.398 | 2.195 | 1.936 | 0.989 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.403 | 3.003 | 1.815 | 1.712 | 1.714 | 2.512 | 2.259 | 1.318 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.365 | 2.965 | 1.776 | 1.673 | 1.676 | 2.474 | 2.221 | 1.280 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.308 | 2.907 | 1.719 | 1.616 | 1.618 | 2.417 | 2.163 | 1.222 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.250 | 2.850 | 1.662 | 1.559 | 1.561 | 2.359 | 2.106 | 1.165 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.341 | 2.940 | 1.751 | 1.647 | 1.651 | 2.447 | 2.194 | 1.249 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.309 | 2.907 | 1.718 | 1.615 | 1.619 | 2.415 | 2.162 | 1.217 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.260 | 2.859 | 1.670 | 1.566 | 1.570 | 2.367 | 2.113 | 1.169 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.212 | 2.811 | 1.622 | 1.518 | 1.522 | 2.318 | 2.065 | 1.121 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.403 | 3.003 | 1.815 | 1.712 | 1.714 | 2.512 | 2.259 | 1.318 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 3.323 | 2.916 | 1.734 | 1.618 | 1.629 | 2.420 | 2.160 | 1.231 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 3.633 | 3.232 | 2.054 | 1.948 | 1.952 | 2.742 | 2.489 | 1.551 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 3.595 | 3.194 | 2.016 | 1.910 | 1.913 | 2.704 | 2.450 | 1.513 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.538 | 3.137 | 1.958 | 1.852 | 1.856 | 2.646 | 2.393 | 1.456 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.480 | 3.079 | 1.901 | 1.795 | 1.798 | 2.589 | 2.335 | 1.398 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.570 | 3.168 | 1.990 | 1.881 | 1.887 | 2.677 | 2.422 | 1.482 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.538 | 3.136 | 1.958 | 1.849 | 1.854 | 2.645 | 2.390 | 1.449 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.490 | 3.088 | 1.910 | 1.801 | 1.806 | 2.596 | 2.342 | 1.401 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.441 | 3.039 | 1.861 | 1.753 | 1.758 | 2.548 | 2.293 | 1.353 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 3.633 | 3.232 | 2.054 | 1.948 | 1.952 | 2.742 | 2.489 | 1.551 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.238 | 2.831 | 1.649 | 1.533 | 1.544 | 2.335 | 2.075 | 1.146 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.548 | 3.147 | 1.969 | 1.863 | 1.867 | 2.657 | 2.404 | 1.466 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.510 | 3.109 | 1.931 | 1.825 | 1.828 | 2.619 | 2.365 | 1.428 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.453 | 3.052 | 1.873 | 1.767 | 1.771 | 2.561 | 2.308 | 1.371 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.395 | 2.994 | 1.816 | 1.710 | 1.714 | 2.504 | 2.251 | 1.313 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.485 | 3.083 | 1.905 | 1.797 | 1.802 | 2.592 | 2.337 | 1.397 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.453 | 3.051 | 1.873 | 1.764 | 1.770 | 2.560 | 2.305 | 1.364 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.405 | 3.003 | 1.825 | 1.716 | 1.721 | 2.511 | 2.257 | 1.316 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.356 | 2.954 | 1.776 | 1.668 | 1.673 | 2.463 | 2.209 | 1.268 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.548 | 3.147 | 1.969 | 1.863 | 1.867 | 2.657 | 2.404 | 1.466 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 3.111 | 2.703 | 1.522 | 1.405 | 1.417 | 2.208 | 1.948 | 1.018 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.421 | 3.020 | 1.842 | 1.736 | 1.739 | 2.530 | 2.276 | 1.339 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.383 | 2.982 | 1.803 | 1.698 | 1.701 | 2.491 | 2.238 | 1.301 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.325 | 2.924 | 1.746 | 1.640 | 1.644 | 2.434 | 2.181 | 1.243 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.268 | 2.867 | 1.689 | 1.583 | 1.586 | 2.376 | 2.123 | 1.186 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.358 | 2.956 | 1.778 | 1.669 | 1.674 | 2.465 | 2.210 | 1.269 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.326 | 2.924 | 1.746 | 1.637 | 1.642 | 2.432 | 2.178 | 1.237 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.277 | 2.875 | 1.697 | 1.589 | 1.594 | 2.384 | 2.130 | 1.189 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.229 | 2.827 | 1.649 | 1.540 | 1.546 | 2.336 | 2.081 | 1.140 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.421 | 3.020 | 1.842 | 1.736 | 1.739 | 2.530 | 2.276 | 1.339 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 2.984 | 2.576 | 1.394 | 1.278 | 1.289 | 2.080 | 1.820 | 0.891 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.294 | 2.893 | 1.714 | 1.608 | 1.612 | 2.402 | 2.149 | 1.212 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.255 | 2.855 | 1.676 | 1.570 | 1.574 | 2.364 | 2.111 | 1.173 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.198 | 2.797 | 1.619 | 1.513 | 1.516 | 2.307 | 2.053 | 1.116 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.141 | 2.740 | 1.561 | 1.455 | 1.459 | 2.249 | 1.996 | 1.059 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.230 | 2.828 | 1.650 | 1.542 | 1.547 | 2.337 | 2.083 | 1.142 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.198 | 2.796 | 1.618 | 1.510 | 1.515 | 2.305 | 2.051 | 1.110 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.150 | 2.748 | 1.570 | 1.461 | 1.467 | 2.257 | 2.002 | 1.061 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.102 | 2.700 | 1.522 | 1.413 | 1.418 | 2.208 | 1.954 | 1.013 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.294 | 2.893 | 1.714 | 1.608 | 1.612 | 2.402 | 2.149 | 1.212 |

Table 7.2.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – heat pump heating – Tasmania

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 4.750 | 3.850 | 2.624 | 2.358 | 3.075 | 5.543 | 4.779 | 2.538 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.770 | 3.871 | 2.645 | 2.380 | 3.096 | 5.563 | 4.799 | 2.560 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.768 | 3.868 | 2.642 | 2.377 | 3.093 | 5.560 | 4.797 | 2.557 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.764 | 3.864 | 2.638 | 2.373 | 3.089 | 5.556 | 4.793 | 2.553 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.760 | 3.860 | 2.634 | 2.369 | 3.085 | 5.552 | 4.789 | 2.549 |
| Heat pump - Ducted < 3 Stars (< 2.25) | HP - Non-ducted < 2.25 stars (< 3) | 4.766 | 3.867 | 2.641 | 2.375 | 3.091 | 5.559 | 4.795 | 2.556 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.764 | 3.864 | 2.638 | 2.373 | 3.089 | 5.556 | 4.793 | 2.553 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.761 | 3.861 | 2.635 | 2.370 | 3.086 | 5.553 | 4.789 | 2.550 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.758 | 3.858 | 2.632 | 2.367 | 3.083 | 5.550 | 4.786 | 2.547 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 4.770 | 3.871 | 2.645 | 2.380 | 3.096 | 5.563 | 4.799 | 2.560 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 4.595 | 3.695 | 2.469 | 2.203 | 2.920 | 5.388 | 4.624 | 2.384 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.616 | 3.716 | 2.490 | 2.225 | 2.941 | 5.408 | 4.645 | 2.405 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.613 | 3.714 | 2.488 | 2.222 | 2.938 | 5.406 | 4.642 | 2.403 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.609 | 3.710 | 2.484 | 2.218 | 2.934 | 5.402 | 4.638 | 2.399 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.605 | 3.706 | 2.480 | 2.215 | 2.931 | 5.398 | 4.634 | 2.395 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.612 | 3.712 | 2.486 | 2.221 | 2.937 | 5.404 | 4.640 | 2.401 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.610 | 3.710 | 2.484 | 2.218 | 2.935 | 5.402 | 4.638 | 2.399 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.606 | 3.706 | 2.481 | 2.215 | 2.931 | 5.399 | 4.635 | 2.396 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.603 | 3.703 | 2.477 | 2.212 | 2.928 | 5.395 | 4.632 | 2.392 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.616 | 3.716 | 2.490 | 2.225 | 2.941 | 5.408 | 4.645 | 2.405 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 4.363 | 3.463 | 2.238 | 1.971 | 2.688 | 5.156 | 4.392 | 2.152 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.384 | 3.484 | 2.258 | 1.993 | 2.709 | 5.176 | 4.413 | 2.173 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.381 | 3.482 | 2.256 | 1.990 | 2.706 | 5.174 | 4.410 | 2.171 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.377 | 3.478 | 2.252 | 1.987 | 2.703 | 5.170 | 4.406 | 2.167 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.374 | 3.474 | 2.248 | 1.983 | 2.699 | 5.166 | 4.402 | 2.163 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.380 | 3.480 | 2.254 | 1.989 | 2.705 | 5.172 | 4.408 | 2.169 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.378 | 3.478 | 2.252 | 1.986 | 2.703 | 5.170 | 4.406 | 2.167 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.374 | 3.475 | 2.249 | 1.983 | 2.699 | 5.167 | 4.403 | 2.164 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.371 | 3.471 | 2.245 | 1.980 | 2.696 | 5.163 | 4.400 | 2.160 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 4.384 | 3.484 | 2.258 | 1.993 | 2.709 | 5.176 | 4.413 | 2.173 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 4.132 | 3.231 | 2.006 | 1.739 | 2.456 | 4.925 | 4.160 | 1.920 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.152 | 3.252 | 2.026 | 1.761 | 2.477 | 4.944 | 4.181 | 1.941 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.149 | 3.250 | 2.024 | 1.759 | 2.475 | 4.942 | 4.178 | 1.939 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.145 | 3.246 | 2.020 | 1.755 | 2.471 | 4.938 | 4.174 | 1.935 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.142 | 3.242 | 2.016 | 1.751 | 2.467 | 4.934 | 4.170 | 1.931 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.148 | 3.248 | 2.022 | 1.757 | 2.473 | 4.940 | 4.176 | 1.937 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.146 | 3.246 | 2.020 | 1.755 | 2.471 | 4.938 | 4.174 | 1.935 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.142 | 3.243 | 2.017 | 1.751 | 2.467 | 4.935 | 4.171 | 1.932 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.139 | 3.239 | 2.014 | 1.748 | 2.464 | 4.931 | 4.168 | 1.928 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.152 | 3.252 | 2.026 | 1.761 | 2.477 | 4.944 | 4.181 | 1.941 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 4.486 | 3.572 | 2.365 | 2.092 | 2.808 | 5.265 | 4.501 | 2.268 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.506 | 3.594 | 2.386 | 2.113 | 2.828 | 5.285 | 4.522 | 2.290 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.504 | 3.591 | 2.383 | 2.111 | 2.826 | 5.283 | 4.519 | 2.288 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.500 | 3.587 | 2.379 | 2.107 | 2.822 | 5.279 | 4.515 | 2.284 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.496 | 3.583 | 2.376 | 2.103 | 2.818 | 5.275 | 4.511 | 2.280 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.502 | 3.589 | 2.382 | 2.109 | 2.824 | 5.281 | 4.517 | 2.286 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.500 | 3.587 | 2.379 | 2.107 | 2.822 | 5.279 | 4.515 | 2.284 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.497 | 3.584 | 2.376 | 2.104 | 2.819 | 5.276 | 4.512 | 2.280 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.494 | 3.581 | 2.373 | 2.101 | 2.816 | 5.272 | 4.509 | 2.277 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 4.506 | 3.594 | 2.386 | 2.113 | 2.828 | 5.285 | 4.522 | 2.290 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 4.356 | 3.442 | 2.235 | 1.963 | 2.678 | 5.135 | 4.371 | 2.139 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.377 | 3.464 | 2.256 | 1.984 | 2.699 | 5.156 | 4.392 | 2.160 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.374 | 3.461 | 2.254 | 1.981 | 2.696 | 5.153 | 4.389 | 2.158 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.370 | 3.458 | 2.250 | 1.977 | 2.692 | 5.149 | 4.386 | 2.154 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.366 | 3.454 | 2.246 | 1.973 | 2.688 | 5.145 | 4.382 | 2.150 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.372 | 3.460 | 2.252 | 1.979 | 2.694 | 5.151 | 4.388 | 2.156 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.370 | 3.458 | 2.250 | 1.977 | 2.692 | 5.149 | 4.385 | 2.154 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.367 | 3.454 | 2.246 | 1.974 | 2.689 | 5.146 | 4.382 | 2.151 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.364 | 3.451 | 2.243 | 1.971 | 2.686 | 5.143 | 4.379 | 2.147 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.377 | 3.464 | 2.256 | 1.984 | 2.699 | 5.156 | 4.392 | 2.160 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 4.161 | 3.248 | 2.040 | 1.768 | 2.483 | 4.941 | 4.176 | 1.944 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.182 | 3.269 | 2.061 | 1.789 | 2.504 | 4.961 | 4.197 | 1.966 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.179 | 3.267 | 2.059 | 1.786 | 2.501 | 4.958 | 4.195 | 1.963 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.175 | 3.263 | 2.055 | 1.783 | 2.497 | 4.954 | 4.191 | 1.959 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.172 | 3.259 | 2.051 | 1.779 | 2.494 | 4.951 | 4.187 | 1.955 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.178 | 3.265 | 2.057 | 1.785 | 2.500 | 4.957 | 4.193 | 1.961 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.176 | 3.263 | 2.055 | 1.783 | 2.498 | 4.954 | 4.191 | 1.959 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.172 | 3.260 | 2.052 | 1.779 | 2.494 | 4.951 | 4.188 | 1.956 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.169 | 3.256 | 2.049 | 1.776 | 2.491 | 4.948 | 4.184 | 1.953 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 4.182 | 3.269 | 2.061 | 1.789 | 2.504 | 4.961 | 4.197 | 1.966 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.967 | 3.053 | 1.846 | 1.573 | 2.289 | 4.746 | 3.982 | 1.749 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.987 | 3.075 | 1.867 | 1.594 | 2.309 | 4.766 | 4.003 | 1.771 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.985 | 3.072 | 1.864 | 1.592 | 2.307 | 4.764 | 4.000 | 1.769 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.981 | 3.068 | 1.860 | 1.588 | 2.303 | 4.760 | 3.996 | 1.765 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.977 | 3.064 | 1.856 | 1.584 | 2.299 | 4.756 | 3.992 | 1.761 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.983 | 3.070 | 1.863 | 1.590 | 2.305 | 4.762 | 3.998 | 1.767 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.981 | 3.068 | 1.860 | 1.588 | 2.303 | 4.760 | 3.996 | 1.765 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.978 | 3.065 | 1.857 | 1.585 | 2.300 | 4.756 | 3.993 | 1.761 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.974 | 3.062 | 1.854 | 1.581 | 2.296 | 4.753 | 3.990 | 1.758 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.987 | 3.075 | 1.867 | 1.594 | 2.309 | 4.766 | 4.003 | 1.771 |

Table 7.2.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – heat pump heating – Australian Capital Territory

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 3.950 | 3.219 | 2.113 | 1.906 | 2.014 | 4.345 | 3.722 | 1.661 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.284 | 3.562 | 2.468 | 2.259 | 2.362 | 4.686 | 4.066 | 2.025 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.241 | 3.519 | 2.425 | 2.216 | 2.319 | 4.643 | 4.023 | 1.982 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 4.177 | 3.455 | 2.361 | 2.152 | 2.255 | 4.579 | 3.959 | 1.918 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.113 | 3.391 | 2.297 | 2.088 | 2.191 | 4.515 | 3.895 | 1.854 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 4.215 | 3.491 | 2.394 | 2.185 | 2.288 | 4.617 | 3.995 | 1.950 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.180 | 3.456 | 2.359 | 2.150 | 2.252 | 4.582 | 3.960 | 1.915 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.128 | 3.403 | 2.307 | 2.097 | 2.200 | 4.529 | 3.907 | 1.862 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.075 | 3.351 | 2.254 | 2.044 | 2.147 | 4.477 | 3.855 | 1.810 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 4.284 | 3.562 | 2.468 | 2.259 | 2.362 | 4.686 | 4.066 | 2.025 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.829 | 3.099 | 1.992 | 1.785 | 1.893 | 4.224 | 3.601 | 1.540 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 4.163 | 3.441 | 2.347 | 2.138 | 2.241 | 4.565 | 3.945 | 1.904 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 4.120 | 3.398 | 2.304 | 2.096 | 2.198 | 4.522 | 3.902 | 1.861 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 4.056 | 3.334 | 2.240 | 2.031 | 2.134 | 4.458 | 3.838 | 1.797 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.992 | 3.270 | 2.176 | 1.967 | 2.070 | 4.394 | 3.774 | 1.733 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.095 | 3.370 | 2.274 | 2.064 | 2.167 | 4.496 | 3.874 | 1.829 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.059 | 3.335 | 2.238 | 2.029 | 2.132 | 4.461 | 3.839 | 1.794 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.007 | 3.282 | 2.186 | 1.976 | 2.079 | 4.409 | 3.787 | 1.741 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.954 | 3.230 | 2.133 | 1.923 | 2.026 | 4.356 | 3.734 | 1.689 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 4.163 | 3.441 | 2.347 | 2.138 | 2.241 | 4.565 | 3.945 | 1.904 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 3.648 | 2.917 | 1.811 | 1.603 | 1.712 | 4.043 | 3.419 | 1.358 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.981 | 3.260 | 2.166 | 1.957 | 2.059 | 4.384 | 3.764 | 1.722 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.939 | 3.217 | 2.123 | 1.914 | 2.017 | 4.341 | 3.721 | 1.680 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.875 | 3.153 | 2.059 | 1.850 | 1.953 | 4.277 | 3.657 | 1.616 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.811 | 3.089 | 1.995 | 1.786 | 1.888 | 4.213 | 3.593 | 1.552 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.913 | 3.189 | 2.092 | 1.883 | 1.985 | 4.315 | 3.693 | 1.648 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.878 | 3.154 | 2.057 | 1.847 | 1.950 | 4.280 | 3.658 | 1.613 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.825 | 3.101 | 2.004 | 1.795 | 1.898 | 4.227 | 3.605 | 1.560 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.773 | 3.048 | 1.952 | 1.742 | 1.845 | 4.174 | 3.553 | 1.507 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 3.981 | 3.260 | 2.166 | 1.957 | 2.059 | 4.384 | 3.764 | 1.722 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.467 | 2.736 | 1.629 | 1.422 | 1.531 | 3.862 | 3.238 | 1.177 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.800 | 3.078 | 1.984 | 1.775 | 1.878 | 4.202 | 3.582 | 1.541 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.757 | 3.036 | 1.942 | 1.733 | 1.835 | 4.160 | 3.539 | 1.498 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.693 | 2.971 | 1.878 | 1.669 | 1.771 | 4.096 | 3.475 | 1.434 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.629 | 2.907 | 1.814 | 1.605 | 1.707 | 4.032 | 3.411 | 1.370 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.732 | 3.007 | 1.911 | 1.701 | 1.804 | 4.134 | 3.512 | 1.467 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.697 | 2.972 | 1.876 | 1.666 | 1.769 | 4.098 | 3.477 | 1.431 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.644 | 2.920 | 1.823 | 1.613 | 1.716 | 4.046 | 3.424 | 1.379 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.591 | 2.867 | 1.770 | 1.561 | 1.663 | 3.993 | 3.371 | 1.326 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.800 | 3.078 | 1.984 | 1.775 | 1.878 | 4.202 | 3.582 | 1.541 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 3.740 | 3.002 | 1.914 | 1.697 | 1.810 | 4.129 | 3.503 | 1.452 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 4.079 | 3.352 | 2.262 | 2.060 | 2.156 | 4.471 | 3.852 | 1.826 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 4.036 | 3.310 | 2.219 | 2.017 | 2.113 | 4.428 | 3.809 | 1.783 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 3.972 | 3.246 | 2.155 | 1.953 | 2.049 | 4.364 | 3.745 | 1.719 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.908 | 3.182 | 2.091 | 1.889 | 1.985 | 4.300 | 3.681 | 1.655 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.010 | 3.280 | 2.187 | 1.986 | 2.086 | 4.401 | 3.780 | 1.748 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.975 | 3.245 | 2.152 | 1.951 | 2.050 | 4.366 | 3.745 | 1.713 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.922 | 3.192 | 2.099 | 1.898 | 1.998 | 4.314 | 3.692 | 1.660 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.870 | 3.139 | 2.047 | 1.845 | 1.945 | 4.261 | 3.639 | 1.608 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 4.079 | 3.352 | 2.262 | 2.060 | 2.156 | 4.471 | 3.852 | 1.826 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 3.638 | 2.901 | 1.813 | 1.595 | 1.709 | 4.027 | 3.402 | 1.351 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 3.978 | 3.251 | 2.161 | 1.958 | 2.054 | 4.370 | 3.751 | 1.724 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 3.935 | 3.208 | 2.118 | 1.916 | 2.012 | 4.327 | 3.708 | 1.682 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 3.871 | 3.144 | 2.054 | 1.852 | 1.948 | 4.263 | 3.644 | 1.618 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.807 | 3.080 | 1.990 | 1.788 | 1.884 | 4.199 | 3.580 | 1.554 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.909 | 3.179 | 2.086 | 1.884 | 1.984 | 4.300 | 3.679 | 1.647 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.873 | 3.143 | 2.051 | 1.849 | 1.949 | 4.265 | 3.643 | 1.612 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.821 | 3.091 | 1.998 | 1.797 | 1.896 | 4.212 | 3.591 | 1.559 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.768 | 3.038 | 1.945 | 1.744 | 1.844 | 4.160 | 3.538 | 1.506 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 3.978 | 3.251 | 2.161 | 1.958 | 2.054 | 4.370 | 3.751 | 1.724 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 3.486 | 2.749 | 1.661 | 1.443 | 1.557 | 3.875 | 3.250 | 1.198 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.826 | 3.099 | 2.008 | 1.806 | 1.902 | 4.218 | 3.599 | 1.572 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.783 | 3.056 | 1.966 | 1.764 | 1.860 | 4.175 | 3.556 | 1.530 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.719 | 2.992 | 1.902 | 1.700 | 1.796 | 4.111 | 3.492 | 1.465 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.655 | 2.928 | 1.838 | 1.636 | 1.732 | 4.047 | 3.428 | 1.401 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 3.757 | 3.027 | 1.934 | 1.732 | 1.832 | 4.148 | 3.527 | 1.495 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.721 | 2.991 | 1.898 | 1.697 | 1.797 | 4.113 | 3.491 | 1.460 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.669 | 2.939 | 1.846 | 1.644 | 1.744 | 4.060 | 3.439 | 1.407 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.616 | 2.886 | 1.793 | 1.592 | 1.692 | 4.008 | 3.386 | 1.354 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 3.826 | 3.099 | 2.008 | 1.806 | 1.902 | 4.218 | 3.599 | 1.572 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 3.334 | 2.597 | 1.509 | 1.291 | 1.404 | 3.723 | 3.098 | 1.046 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 3.674 | 2.947 | 1.856 | 1.654 | 1.750 | 4.066 | 3.446 | 1.420 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 3.631 | 2.904 | 1.814 | 1.612 | 1.708 | 4.023 | 3.404 | 1.377 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 3.567 | 2.840 | 1.750 | 1.548 | 1.644 | 3.959 | 3.340 | 1.313 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.503 | 2.776 | 1.686 | 1.484 | 1.580 | 3.895 | 3.276 | 1.249 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.604 | 2.874 | 1.781 | 1.580 | 1.680 | 3.996 | 3.374 | 1.343 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.569 | 2.839 | 1.746 | 1.545 | 1.645 | 3.961 | 3.339 | 1.307 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 3.517 | 2.787 | 1.694 | 1.492 | 1.592 | 3.908 | 3.287 | 1.255 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 3.464 | 2.734 | 1.641 | 1.440 | 1.540 | 3.855 | 3.234 | 1.202 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 3.674 | 2.947 | 1.856 | 1.654 | 1.750 | 4.066 | 3.446 | 1.420 |

Table 7.3.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – other heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 7.028 | 5.968 | 5.100 | 4.801 | 5.019 | 6.913 | 6.399 | 4.584 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 7.444 | 6.394 | 5.525 | 5.231 | 5.441 | 7.335 | 6.825 | 5.012 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 7.400 | 6.350 | 5.481 | 5.187 | 5.397 | 7.292 | 6.781 | 4.968 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 7.334 | 6.284 | 5.415 | 5.121 | 5.331 | 7.226 | 6.715 | 4.902 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.268 | 6.218 | 5.349 | 5.055 | 5.265 | 7.160 | 6.649 | 4.836 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 7.367 | 6.312 | 5.444 | 5.149 | 5.361 | 7.255 | 6.744 | 4.929 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 7.330 | 6.275 | 5.407 | 5.112 | 5.324 | 7.218 | 6.707 | 4.892 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.275 | 6.220 | 5.352 | 5.057 | 5.269 | 7.163 | 6.652 | 4.837 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.220 | 6.165 | 5.297 | 5.002 | 5.214 | 7.108 | 6.597 | 4.782 |
| Electric - Resistance (Panel) | Other or none specified | 7.444 | 6.394 | 5.525 | 5.231 | 5.441 | 7.335 | 6.825 | 5.012 |
| Wood Heater | Evaporative | 4.597 | 3.588 | 2.634 | 2.351 | 2.523 | 4.595 | 4.041 | 2.111 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 5.062 | 4.069 | 3.134 | 2.859 | 3.015 | 5.065 | 4.519 | 2.632 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 5.018 | 4.025 | 3.090 | 2.816 | 2.972 | 5.021 | 4.475 | 2.588 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 4.953 | 3.959 | 3.024 | 2.750 | 2.906 | 4.955 | 4.410 | 2.522 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.887 | 3.893 | 2.958 | 2.684 | 2.840 | 4.889 | 4.344 | 2.456 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.971 | 3.974 | 3.036 | 2.759 | 2.917 | 4.975 | 4.426 | 2.531 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.934 | 3.938 | 2.999 | 2.722 | 2.881 | 4.938 | 4.389 | 2.495 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.879 | 3.883 | 2.944 | 2.667 | 2.826 | 4.883 | 4.334 | 2.440 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.824 | 3.828 | 2.889 | 2.612 | 2.771 | 4.828 | 4.279 | 2.385 |
| Wood Heater | Other or none specified | 5.062 | 4.069 | 3.134 | 2.859 | 3.015 | 5.065 | 4.519 | 2.632 |
| Electric - Resistance (Slab) | Evaporative | 6.014 | 5.091 | 4.069 | 3.827 | 3.958 | 6.121 | 5.561 | 3.580 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 6.471 | 5.553 | 4.548 | 4.307 | 4.430 | 6.580 | 6.023 | 4.065 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 6.427 | 5.509 | 4.504 | 4.263 | 4.386 | 6.536 | 5.979 | 4.021 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 6.361 | 5.443 | 4.438 | 4.197 | 4.320 | 6.470 | 5.914 | 3.956 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.295 | 5.378 | 4.372 | 4.131 | 4.254 | 6.404 | 5.848 | 3.890 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.384 | 5.466 | 4.454 | 4.212 | 4.337 | 6.493 | 5.936 | 3.970 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.347 | 5.429 | 4.417 | 4.175 | 4.301 | 6.456 | 5.899 | 3.934 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.292 | 5.374 | 4.362 | 4.120 | 4.245 | 6.401 | 5.844 | 3.879 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.237 | 5.319 | 4.307 | 4.065 | 4.190 | 6.346 | 5.789 | 3.824 |
| Electric - Resistance (Slab) | Other or none specified | 6.471 | 5.553 | 4.548 | 4.307 | 4.430 | 6.580 | 6.023 | 4.065 |
| Other or none specified | Evaporative | 4.113 | 2.982 | 2.184 | 1.863 | 2.087 | 3.915 | 3.397 | 1.658 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 4.458 | 3.342 | 2.553 | 2.226 | 2.446 | 4.266 | 3.753 | 2.033 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 4.414 | 3.298 | 2.509 | 2.182 | 2.402 | 4.222 | 3.709 | 1.989 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 4.348 | 3.232 | 2.443 | 2.116 | 2.337 | 4.156 | 3.643 | 1.924 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.282 | 3.166 | 2.377 | 2.050 | 2.271 | 4.090 | 3.577 | 1.858 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.387 | 3.268 | 2.478 | 2.153 | 2.371 | 4.195 | 3.679 | 1.957 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.350 | 3.231 | 2.441 | 2.116 | 2.335 | 4.158 | 3.642 | 1.920 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.295 | 3.176 | 2.386 | 2.061 | 2.279 | 4.103 | 3.587 | 1.865 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.240 | 3.121 | 2.331 | 2.006 | 2.224 | 4.048 | 3.532 | 1.810 |
| Other or none specified | Other or none specified | 4.458 | 3.342 | 2.553 | 2.226 | 2.446 | 4.266 | 3.753 | 2.033 |

Table 7.3.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – other heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 5.774 | 5.413 | 4.177 | 4.095 | 4.090 | 4.930 | 4.667 | 3.674 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 6.155 | 5.795 | 4.565 | 4.482 | 4.474 | 5.314 | 5.052 | 4.062 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 6.117 | 5.756 | 4.526 | 4.443 | 4.436 | 5.275 | 5.014 | 4.024 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 6.059 | 5.699 | 4.469 | 4.386 | 4.379 | 5.218 | 4.956 | 3.967 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.002 | 5.642 | 4.412 | 4.328 | 4.321 | 5.161 | 4.899 | 3.909 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 6.083 | 5.723 | 4.490 | 4.407 | 4.401 | 5.241 | 4.979 | 3.987 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 6.051 | 5.691 | 4.458 | 4.375 | 4.368 | 5.209 | 4.946 | 3.955 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.002 | 5.642 | 4.409 | 4.327 | 4.320 | 5.161 | 4.898 | 3.907 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.954 | 5.594 | 4.361 | 4.278 | 4.272 | 5.112 | 4.850 | 3.859 |
| Electric - Resistance (Panel) | Other or none specified | 6.155 | 5.795 | 4.565 | 4.482 | 4.474 | 5.314 | 5.052 | 4.062 |
| Wood Heater | Evaporative | 3.860 | 3.557 | 2.246 | 2.178 | 2.139 | 3.050 | 2.771 | 1.740 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 4.273 | 3.972 | 2.681 | 2.618 | 2.571 | 3.474 | 3.203 | 2.186 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 4.234 | 3.934 | 2.643 | 2.580 | 2.533 | 3.436 | 3.164 | 2.148 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 4.177 | 3.877 | 2.585 | 2.522 | 2.476 | 3.379 | 3.107 | 2.091 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.120 | 3.819 | 2.528 | 2.465 | 2.418 | 3.321 | 3.050 | 2.033 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.193 | 3.892 | 2.598 | 2.533 | 2.488 | 3.392 | 3.119 | 2.098 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.160 | 3.860 | 2.566 | 2.501 | 2.456 | 3.360 | 3.087 | 2.066 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.112 | 3.812 | 2.518 | 2.453 | 2.408 | 3.312 | 3.039 | 2.018 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.064 | 3.763 | 2.469 | 2.405 | 2.360 | 3.263 | 2.991 | 1.970 |
| Wood Heater | Other or none specified | 4.273 | 3.972 | 2.681 | 2.618 | 2.571 | 3.474 | 3.203 | 2.186 |
| Electric - Resistance (Slab) | Evaporative | 6.215 | 6.012 | 4.633 | 4.612 | 4.527 | 5.514 | 5.229 | 4.155 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 6.616 | 6.410 | 5.042 | 5.019 | 4.931 | 5.916 | 5.632 | 4.566 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 6.577 | 6.371 | 5.003 | 4.981 | 4.893 | 5.877 | 5.594 | 4.528 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 6.520 | 6.314 | 4.946 | 4.923 | 4.836 | 5.820 | 5.536 | 4.470 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.463 | 6.257 | 4.889 | 4.866 | 4.778 | 5.763 | 5.479 | 4.413 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.540 | 6.335 | 4.963 | 4.942 | 4.854 | 5.840 | 5.556 | 4.487 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.508 | 6.302 | 4.931 | 4.909 | 4.822 | 5.808 | 5.524 | 4.455 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.460 | 6.254 | 4.883 | 4.861 | 4.773 | 5.760 | 5.475 | 4.407 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.412 | 6.206 | 4.834 | 4.813 | 4.725 | 5.711 | 5.427 | 4.358 |
| Electric - Resistance (Slab) | Other or none specified | 6.616 | 6.410 | 5.042 | 5.019 | 4.931 | 5.916 | 5.632 | 4.566 |
| Other or none specified | Evaporative | 3.497 | 3.097 | 1.906 | 1.795 | 1.804 | 2.601 | 2.342 | 1.395 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 3.809 | 3.409 | 2.221 | 2.118 | 2.120 | 2.918 | 2.665 | 1.724 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 3.771 | 3.371 | 2.182 | 2.079 | 2.082 | 2.880 | 2.627 | 1.686 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 3.713 | 3.313 | 2.125 | 2.022 | 2.024 | 2.822 | 2.569 | 1.628 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 3.656 | 3.256 | 2.067 | 1.964 | 1.967 | 2.765 | 2.512 | 1.571 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 3.747 | 3.345 | 2.157 | 2.053 | 2.057 | 2.853 | 2.600 | 1.655 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 3.714 | 3.313 | 2.124 | 2.021 | 2.025 | 2.821 | 2.568 | 1.623 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 3.666 | 3.265 | 2.076 | 1.972 | 1.976 | 2.773 | 2.519 | 1.575 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 3.618 | 3.217 | 2.028 | 1.924 | 1.928 | 2.724 | 2.471 | 1.527 |
| Other or none specified | Other or none specified | 3.809 | 3.409 | 2.221 | 2.118 | 2.120 | 2.918 | 2.665 | 1.724 |

Table 7.3.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – other heating – Tasmania

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 8.192 | 7.406 | 6.081 | 5.868 | 6.572 | 9.090 | 8.336 | 6.058 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 8.216 | 7.429 | 6.107 | 5.893 | 6.596 | 9.112 | 8.359 | 6.083 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 8.213 | 7.427 | 6.104 | 5.890 | 6.594 | 9.109 | 8.356 | 6.081 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 8.209 | 7.423 | 6.100 | 5.886 | 6.590 | 9.105 | 8.352 | 6.077 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.205 | 7.419 | 6.096 | 5.883 | 6.586 | 9.101 | 8.348 | 6.073 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 8.211 | 7.424 | 6.101 | 5.888 | 6.591 | 9.107 | 8.354 | 6.078 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 8.209 | 7.422 | 6.099 | 5.886 | 6.589 | 9.105 | 8.352 | 6.076 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.206 | 7.419 | 6.096 | 5.882 | 6.586 | 9.102 | 8.348 | 6.073 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.202 | 7.416 | 6.093 | 5.879 | 6.583 | 9.098 | 8.345 | 6.069 |
| Electric - Resistance (Panel) | Other or none specified | 8.216 | 7.429 | 6.107 | 5.893 | 6.596 | 9.112 | 8.359 | 6.083 |
| Wood Heater | Evaporative | 5.853 | 5.070 | 3.707 | 3.497 | 4.188 | 6.819 | 6.034 | 3.691 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 5.880 | 5.097 | 3.735 | 3.525 | 4.215 | 6.844 | 6.060 | 3.719 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 5.877 | 5.094 | 3.732 | 3.523 | 4.213 | 6.841 | 6.057 | 3.717 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 5.873 | 5.090 | 3.729 | 3.519 | 4.209 | 6.837 | 6.053 | 3.713 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.870 | 5.086 | 3.725 | 3.515 | 4.205 | 6.834 | 6.050 | 3.709 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.875 | 5.091 | 3.730 | 3.520 | 4.210 | 6.839 | 6.055 | 3.714 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.873 | 5.089 | 3.727 | 3.518 | 4.208 | 6.837 | 6.052 | 3.712 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.869 | 5.086 | 3.724 | 3.514 | 4.204 | 6.833 | 6.049 | 3.708 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.866 | 5.083 | 3.721 | 3.511 | 4.201 | 6.830 | 6.046 | 3.705 |
| Wood Heater | Other or none specified | 5.880 | 5.097 | 3.735 | 3.525 | 4.215 | 6.844 | 6.060 | 3.719 |
| Electric - Resistance (Slab) | Evaporative | 7.709 | 7.004 | 5.592 | 5.413 | 6.084 | 8.765 | 7.978 | 5.612 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 7.734 | 7.029 | 5.619 | 5.439 | 6.110 | 8.788 | 8.002 | 5.639 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 7.731 | 7.027 | 5.616 | 5.437 | 6.107 | 8.785 | 7.999 | 5.636 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 7.727 | 7.023 | 5.612 | 5.433 | 6.104 | 8.781 | 7.995 | 5.632 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.723 | 7.019 | 5.608 | 5.429 | 6.100 | 8.777 | 7.991 | 5.628 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.729 | 7.024 | 5.613 | 5.434 | 6.105 | 8.783 | 7.997 | 5.633 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.727 | 7.022 | 5.611 | 5.432 | 6.103 | 8.781 | 7.994 | 5.631 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.723 | 7.019 | 5.608 | 5.429 | 6.099 | 8.777 | 7.991 | 5.628 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.720 | 7.015 | 5.605 | 5.425 | 6.096 | 8.774 | 7.988 | 5.624 |
| Electric - Resistance (Slab) | Other or none specified | 7.734 | 7.029 | 5.619 | 5.439 | 6.110 | 8.788 | 8.002 | 5.639 |
| Other or none specified | Evaporative | 4.750 | 3.850 | 2.624 | 2.358 | 3.075 | 5.543 | 4.779 | 2.538 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 4.770 | 3.871 | 2.645 | 2.380 | 3.096 | 5.563 | 4.799 | 2.560 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 4.768 | 3.868 | 2.642 | 2.377 | 3.093 | 5.560 | 4.797 | 2.557 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 4.764 | 3.864 | 2.638 | 2.373 | 3.089 | 5.556 | 4.793 | 2.553 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.760 | 3.860 | 2.634 | 2.369 | 3.085 | 5.552 | 4.789 | 2.549 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.766 | 3.867 | 2.641 | 2.375 | 3.091 | 5.559 | 4.795 | 2.556 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.764 | 3.864 | 2.638 | 2.373 | 3.089 | 5.556 | 4.793 | 2.553 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.761 | 3.861 | 2.635 | 2.370 | 3.086 | 5.553 | 4.789 | 2.550 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.758 | 3.858 | 2.632 | 2.367 | 3.083 | 5.550 | 4.786 | 2.547 |
| Other or none specified | Other or none specified | 4.770 | 3.871 | 2.645 | 2.380 | 3.096 | 5.563 | 4.799 | 2.560 |

Table 7.3.4 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 7 – other heating – Australian Capital Territory

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|----------------|-----------|
| Electric - Resistance (Panel) | Evaporative | 6.687 | 6.016 | 4.846 | 4.671 | 4.764 | 7.148 | 6.535 | 4.414 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | 7.097 | 6.430 | 5.265 | 5.089 | 5.179 | 7.559 | 6.950 | 4.830 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | 7.054 | 6.388 | 5.222 | 5.046 | 5.136 | 7.516 | 6.907 | 4.788 |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | 6.990 | 6.324 | 5.158 | 4.982 | 5.072 | 7.452 | 6.843 | 4.724 |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.926 | 6.260 | 5.094 | 4.918 | 5.008 | 7.388 | 6.779 | 4.659 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 7.020 | 6.351 | 5.184 | 5.008 | 5.099 | 7.480 | 6.871 | 4.750 |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | 6.985 | 6.316 | 5.149 | 4.972 | 5.064 | 7.445 | 6.835 | 4.714 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.932 | 6.263 | 5.096 | 4.920 | 5.011 | 7.392 | 6.783 | 4.662 |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.879 | 6.210 | 5.043 | 4.867 | 4.958 | 7.339 | 6.730 | 4.609 |
| Electric - Resistance (Panel) | Other or none specified | 7.097 | 6.430 | 5.265 | 5.089 | 5.179 | 7.559 | 6.950 | 4.830 |
| Wood Heater | Evaporative | 4.719 | 4.140 | 2.853 | 2.705 | 2.742 | 5.348 | 4.690 | 2.427 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 5.171 | 4.596 | 3.333 | 3.190 | 3.218 | 5.796 | 5.144 | 2.918 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 5.129 | 4.553 | 3.290 | 3.148 | 3.176 | 5.754 | 5.101 | 2.875 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 5.065 | 4.489 | 3.226 | 3.084 | 3.112 | 5.689 | 5.037 | 2.811 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.001 | 4.425 | 3.162 | 3.020 | 3.047 | 5.625 | 4.973 | 2.747 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.083 | 4.507 | 3.239 | 3.095 | 3.125 | 5.711 | 5.056 | 2.820 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.048 | 4.471 | 3.204 | 3.060 | 3.090 | 5.676 | 5.021 | 2.785 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.995 | 4.419 | 3.152 | 3.007 | 3.037 | 5.623 | 4.969 | 2.732 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.942 | 4.366 | 3.099 | 2.954 | 2.984 | 5.570 | 4.916 | 2.679 |
| Wood Heater | Other or none specified | 5.171 | 4.596 | 3.333 | 3.190 | 3.218 | 5.796 | 5.144 | 2.918 |
| Electric - Resistance (Slab) | Evaporative | 6.516 | 6.025 | 4.678 | 4.573 | 4.569 | 7.256 | 6.594 | 4.286 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | 6.956 | 6.466 | 5.134 | 5.027 | 5.019 | 7.692 | 7.034 | 4.744 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | 6.913 | 6.423 | 5.091 | 4.984 | 4.976 | 7.649 | 6.992 | 4.701 |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | 6.849 | 6.359 | 5.027 | 4.920 | 4.912 | 7.585 | 6.928 | 4.637 |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.785 | 6.295 | 4.963 | 4.856 | 4.848 | 7.521 | 6.864 | 4.573 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.872 | 6.382 | 5.045 | 4.939 | 4.931 | 7.609 | 6.950 | 4.655 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.837 | 6.347 | 5.010 | 4.904 | 4.896 | 7.573 | 6.915 | 4.620 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.785 | 6.294 | 4.957 | 4.851 | 4.844 | 7.521 | 6.862 | 4.567 |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.732 | 6.241 | 4.905 | 4.798 | 4.791 | 7.468 | 6.810 | 4.515 |
| Electric - Resistance (Slab) | Other or none specified | 6.956 | 6.466 | 5.134 | 5.027 | 5.019 | 7.692 | 7.034 | 4.744 |
| Other or none specified | Evaporative | 3.950 | 3.219 | 2.113 | 1.906 | 2.014 | 4.345 | 3.722 | 1.661 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 4.284 | 3.562 | 2.468 | 2.259 | 2.362 | 4.686 | 4.066 | 2.025 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 4.241 | 3.519 | 2.425 | 2.216 | 2.319 | 4.643 | 4.023 | 1.982 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 4.177 | 3.455 | 2.361 | 2.152 | 2.255 | 4.579 | 3.959 | 1.918 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.113 | 3.391 | 2.297 | 2.088 | 2.191 | 4.515 | 3.895 | 1.854 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.215 | 3.491 | 2.394 | 2.185 | 2.288 | 4.617 | 3.995 | 1.950 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.180 | 3.456 | 2.359 | 2.150 | 2.252 | 4.582 | 3.960 | 1.915 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.128 | 3.403 | 2.307 | 2.097 | 2.200 | 4.529 | 3.907 | 1.862 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.075 | 3.351 | 2.254 | 2.044 | 2.147 | 4.477 | 3.855 | 1.810 |
| Other or none specified | Other or none specified | 4.284 | 3.562 | 2.468 | 2.259 | 2.362 | 4.686 | 4.066 | 2.025 |

2.4.8 Climate zone 8

Table 8.1.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 8 – gas heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane ous | Solar gas |
|----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|--------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Other or none specified | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Evaporative | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Other or none specified | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Evaporative | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Other or none specified | X | X | X | X | X | X | X | X |
| Gas – ducted ≥ 6 Stars | Evaporative | X | 9.750 | 8.539 | 8.315 | 8.987 | X | X | 8.414 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | 9.757 | 8.545 | 8.322 | 8.994 | X | X | 8.421 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | 9.755 | 8.544 | 8.321 | 8.992 | X | X | 8.420 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | 9.753 | 8.542 | 8.319 | 8.990 | X | X | 8.417 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | 9.751 | 8.540 | 8.316 | 8.988 | X | X | 8.415 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | 9.756 | 8.545 | 8.321 | 8.993 | X | X | 8.420 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | 9.755 | 8.543 | 8.320 | 8.992 | X | X | 8.419 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | 9.753 | 8.542 | 8.318 | 8.990 | X | X | 8.417 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | 9.752 | 8.540 | 8.317 | 8.989 | X | X | 8.415 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Other or none specified | X | 9.757 | 8.545 | 8.322 | 8.994 | X | X | 8.421 |
| Gas - non ducted < 3 Stars | Evaporative | X | X | X | 9.972 | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | 9.980 | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | 9.979 | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | 9.977 | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | 9.974 | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | 9.979 | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | 9.978 | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | 9.976 | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | 9.974 | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Other or none specified | X | X | X | 9.980 | X | X | X | X |
| Gas - non ducted < 4.5 Stars | Evaporative | X | X | 9.617 | 9.368 | X | X | X | 9.466 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | 9.625 | 9.376 | X | X | X | 9.475 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | 9.623 | 9.375 | X | X | X | 9.473 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | 9.621 | 9.373 | X | X | X | 9.471 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | 9.619 | 9.371 | X | X | X | 9.469 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | 9.623 | 9.375 | X | X | X | 9.473 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | 9.622 | 9.374 | X | X | X | 9.472 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | 9.620 | 9.372 | X | X | X | 9.470 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | 9.618 | 9.370 | X | X | X | 9.468 |
| Gas - non ducted < 4.5 Stars | Other or none specified | X | X | 9.625 | 9.376 | X | X | X | 9.475 |
| Gas - non ducted < 6 Stars | Evaporative | X | 9.909 | 8.711 | 8.462 | 9.176 | X | X | 8.560 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | 9.917 | 8.719 | 8.470 | 9.184 | X | X | 8.569 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | 9.916 | 8.717 | 8.469 | 9.183 | X | X | 8.567 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | 9.914 | 8.715 | 8.467 | 9.181 | X | X | 8.565 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | 9.912 | 8.713 | 8.465 | 9.178 | X | X | 8.563 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | X | 9.916 | 8.717 | 8.469 | 9.183 | X | X | 8.567 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | 9.915 | 8.716 | 8.468 | 9.182 | X | X | 8.566 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | 9.913 | 8.714 | 8.466 | 9.180 | X | X | 8.564 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | 9.912 | 8.713 | 8.464 | 9.178 | X | X | 8.563 |
| Gas - non ducted < 6 Stars | Other or none specified | X | 9.917 | 8.719 | 8.470 | 9.184 | X | X | 8.569 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 9.866 | 9.004 | 7.805 | 7.556 | 8.270 | X | 9.533 | 7.654 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 9.872 | 9.011 | 7.813 | 7.565 | 8.278 | X | 9.541 | 7.663 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 9.871 | 9.010 | 7.811 | 7.563 | 8.277 | X | 9.540 | 7.661 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 9.869 | 9.008 | 7.809 | 7.561 | 8.275 | X | 9.537 | 7.659 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 9.866 | 9.006 | 7.807 | 7.559 | 8.273 | X | 9.535 | 7.657 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 9.870 | 9.010 | 7.811 | 7.563 | 8.277 | X | 9.540 | 7.661 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 9.869 | 9.009 | 7.810 | 7.562 | 8.276 | X | 9.539 | 7.660 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 9.867 | 9.007 | 7.809 | 7.560 | 8.274 | X | 9.537 | 7.659 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 9.865 | 9.006 | 7.807 | 7.558 | 8.272 | X | 9.535 | 7.657 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 9.872 | 9.011 | 7.813 | 7.565 | 8.278 | X | 9.541 | 7.663 |

Table 8.1.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 8 – gas heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | 9.194 | 8.962 | 7.393 | 7.360 | 7.766 | 8.403 | 8.038 | 7.025 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 9.202 | 8.970 | 7.403 | 7.369 | 7.775 | 8.412 | 8.047 | 7.034 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 9.201 | 8.969 | 7.401 | 7.367 | 7.773 | 8.411 | 8.046 | 7.032 |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 9.199 | 8.967 | 7.399 | 7.365 | 7.771 | 8.409 | 8.044 | 7.031 |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 9.197 | 8.965 | 7.397 | 7.363 | 7.769 | 8.407 | 8.042 | 7.029 |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | 9.200 | 8.968 | 7.401 | 7.367 | 7.773 | 8.410 | 8.045 | 7.032 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 9.199 | 8.967 | 7.400 | 7.366 | 7.772 | 8.409 | 8.044 | 7.031 |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 9.197 | 8.966 | 7.398 | 7.364 | 7.770 | 8.407 | 8.043 | 7.029 |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 9.196 | 8.964 | 7.396 | 7.362 | 7.769 | 8.406 | 8.041 | 7.028 |
| Gas – ducted < 3 Stars | Other or none specified | 9.202 | 8.970 | 7.403 | 7.369 | 7.775 | 8.412 | 8.047 | 7.034 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | 8.749 | 8.517 | 6.949 | 6.915 | 7.322 | 7.959 | 7.594 | 6.580 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 8.758 | 8.526 | 6.958 | 6.924 | 7.330 | 7.967 | 7.603 | 6.589 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 8.756 | 8.524 | 6.957 | 6.923 | 7.329 | 7.966 | 7.601 | 6.588 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 8.754 | 8.522 | 6.955 | 6.921 | 7.327 | 7.964 | 7.599 | 6.586 |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.752 | 8.520 | 6.953 | 6.919 | 7.325 | 7.962 | 7.597 | 6.584 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 8.756 | 8.524 | 6.956 | 6.922 | 7.329 | 7.966 | 7.601 | 6.588 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 8.755 | 8.523 | 6.955 | 6.921 | 7.328 | 7.965 | 7.600 | 6.586 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.753 | 8.521 | 6.954 | 6.920 | 7.326 | 7.963 | 7.598 | 6.585 |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.751 | 8.520 | 6.952 | 6.918 | 7.324 | 7.961 | 7.597 | 6.583 |
| Gas – ducted < 4.5 Stars | Other or none specified | 8.758 | 8.526 | 6.958 | 6.924 | 7.330 | 7.967 | 7.603 | 6.589 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | 8.083 | 7.851 | 6.282 | 6.249 | 6.655 | 7.292 | 6.927 | 5.914 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 8.091 | 7.859 | 6.292 | 6.258 | 6.664 | 7.301 | 6.936 | 5.923 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 8.090 | 7.858 | 6.290 | 6.256 | 6.662 | 7.300 | 6.935 | 5.921 |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 8.088 | 7.856 | 6.288 | 6.254 | 6.660 | 7.298 | 6.933 | 5.920 |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.086 | 7.854 | 6.286 | 6.252 | 6.659 | 7.296 | 6.931 | 5.918 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 8.089 | 7.857 | 6.290 | 6.256 | 6.662 | 7.299 | 6.934 | 5.921 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 8.088 | 7.856 | 6.289 | 6.255 | 6.661 | 7.298 | 6.933 | 5.920 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.086 | 7.855 | 6.287 | 6.253 | 6.659 | 7.296 | 6.932 | 5.918 |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.085 | 7.853 | 6.285 | 6.251 | 6.658 | 7.295 | 6.930 | 5.917 |
| Gas – ducted < 6 Stars | Other or none specified | 8.091 | 7.859 | 6.292 | 6.258 | 6.664 | 7.301 | 6.936 | 5.923 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | 7.416 | 7.184 | 5.616 | 5.582 | 5.988 | 6.626 | 6.261 | 5.247 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.424 | 7.192 | 5.625 | 5.591 | 5.997 | 6.634 | 6.269 | 5.256 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.423 | 7.191 | 5.624 | 5.590 | 5.996 | 6.633 | 6.268 | 5.255 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.421 | 7.189 | 5.622 | 5.588 | 5.994 | 6.631 | 6.266 | 5.253 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.419 | 7.187 | 5.620 | 5.586 | 5.992 | 6.629 | 6.264 | 5.251 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.423 | 7.191 | 5.623 | 5.589 | 5.995 | 6.633 | 6.268 | 5.254 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.421 | 7.190 | 5.622 | 5.588 | 5.994 | 6.632 | 6.267 | 5.253 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.420 | 7.188 | 5.620 | 5.586 | 5.993 | 6.630 | 6.265 | 5.252 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.418 | 7.187 | 5.619 | 5.585 | 5.991 | 6.628 | 6.263 | 5.250 |
| Gas – ducted ≥ 6 Stars | Other or none specified | 7.424 | 7.192 | 5.625 | 5.591 | 5.997 | 6.634 | 6.269 | 5.256 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | 7.731 | 7.471 | 5.901 | 5.863 | 6.278 | 6.907 | 6.542 | 5.528 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.740 | 7.479 | 5.911 | 5.873 | 6.287 | 6.916 | 6.551 | 5.537 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.739 | 7.478 | 5.910 | 5.871 | 6.286 | 6.915 | 6.550 | 5.536 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.737 | 7.476 | 5.908 | 5.869 | 6.284 | 6.913 | 6.548 | 5.534 |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.735 | 7.474 | 5.906 | 5.867 | 6.282 | 6.911 | 6.546 | 5.532 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.738 | 7.478 | 5.909 | 5.871 | 6.285 | 6.914 | 6.549 | 5.535 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.737 | 7.477 | 5.908 | 5.870 | 6.284 | 6.913 | 6.548 | 5.534 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.736 | 7.475 | 5.906 | 5.868 | 6.282 | 6.912 | 6.546 | 5.533 |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.734 | 7.473 | 5.905 | 5.866 | 6.281 | 6.910 | 6.545 | 5.531 |
| Gas - non ducted < 3 Stars | Other or none specified | 7.740 | 7.479 | 5.911 | 5.873 | 6.287 | 6.916 | 6.551 | 5.537 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | 7.401 | 7.141 | 5.571 | 5.533 | 5.948 | 6.577 | 6.212 | 5.198 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 7.410 | 7.149 | 5.581 | 5.543 | 5.957 | 6.586 | 6.221 | 5.207 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 7.409 | 7.148 | 5.580 | 5.541 | 5.956 | 6.585 | 6.220 | 5.206 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 7.407 | 7.146 | 5.578 | 5.539 | 5.954 | 6.583 | 6.218 | 5.204 |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.405 | 7.144 | 5.576 | 5.537 | 5.952 | 6.581 | 6.216 | 5.202 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.408 | 7.148 | 5.579 | 5.541 | 5.955 | 6.584 | 6.219 | 5.205 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.407 | 7.147 | 5.578 | 5.539 | 5.954 | 6.583 | 6.218 | 5.204 |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.406 | 7.145 | 5.576 | 5.538 | 5.952 | 6.582 | 6.216 | 5.203 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.404 | 7.143 | 5.575 | 5.536 | 5.951 | 6.580 | 6.215 | 5.201 |
| Gas - non ducted < 4.5 Stars | Other or none specified | 7.410 | 7.149 | 5.581 | 5.543 | 5.957 | 6.586 | 6.221 | 5.207 |
| Gas - non ducted < 6 Stars | Evaporative | 6.906 | 6.646 | 5.076 | 5.038 | 5.453 | 6.082 | 5.717 | 4.703 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.915 | 6.654 | 5.086 | 5.048 | 5.462 | 6.091 | 5.726 | 4.712 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.914 | 6.653 | 5.085 | 5.046 | 5.461 | 6.090 | 5.725 | 4.711 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.912 | 6.651 | 5.083 | 5.044 | 5.459 | 6.088 | 5.723 | 4.709 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.910 | 6.649 | 5.081 | 5.042 | 5.457 | 6.086 | 5.721 | 4.707 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | 6.913 | 6.653 | 5.084 | 5.046 | 5.460 | 6.089 | 5.724 | 4.710 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.912 | 6.652 | 5.083 | 5.044 | 5.459 | 6.088 | 5.723 | 4.709 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.911 | 6.650 | 5.081 | 5.043 | 5.457 | 6.087 | 5.721 | 4.708 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.909 | 6.648 | 5.080 | 5.041 | 5.456 | 6.085 | 5.720 | 4.706 |
| Gas - non ducted < 6 Stars | Other or none specified | 6.915 | 6.654 | 5.086 | 5.048 | 5.462 | 6.091 | 5.726 | 4.712 |
| Gas - non ducted ≥ 6 Stars | Evaporative | 6.411 | 6.151 | 4.581 | 4.543 | 4.958 | 5.587 | 5.222 | 4.208 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | 6.420 | 6.159 | 4.591 | 4.553 | 4.967 | 5.596 | 5.231 | 4.217 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | 6.419 | 6.158 | 4.590 | 4.551 | 4.966 | 5.595 | 5.230 | 4.216 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | 6.417 | 6.156 | 4.588 | 4.549 | 4.964 | 5.593 | 5.228 | 4.214 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.415 | 6.154 | 4.586 | 4.547 | 4.962 | 5.591 | 5.226 | 4.212 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.418 | 6.158 | 4.589 | 4.551 | 4.965 | 5.594 | 5.229 | 4.215 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.417 | 6.157 | 4.588 | 4.549 | 4.964 | 5.593 | 5.228 | 4.214 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | 6.416 | 6.155 | 4.586 | 4.548 | 4.962 | 5.592 | 5.226 | 4.213 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 6.414 | 6.153 | 4.585 | 4.546 | 4.961 | 5.590 | 5.225 | 4.211 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | 6.420 | 6.159 | 4.591 | 4.553 | 4.967 | 5.596 | 5.231 | 4.217 |

Table 8.1.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 8 – gas heating –Tasmania

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantane | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|----------------|-----------|
| Gas – ducted < 3 Stars | Evaporative | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | HP - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 3 Stars | Other or none specified | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 4.5 Stars | Evaporative | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 4.5 Stars | Other or none specified | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted < 6 Stars | Evaporative | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas – ducted < 6 Stars | Other or none specified | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas – ducted ≥ 6 Stars | Evaporative | X | X | 9.627 | 9.546 | 9.971 | X | X | 9.739 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | 9.633 | 9.553 | 9.977 | X | X | 9.745 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | 9.631 | 9.552 | 9.976 | X | X | 9.744 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | 9.629 | 9.550 | 9.974 | X | X | 9.742 |
| Gas – ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | 9.627 | 9.548 | 9.972 | X | X | 9.740 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | 9.632 | 9.552 | 9.977 | X | X | 9.745 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | 9.631 | 9.551 | 9.976 | X | X | 9.744 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | 9.629 | 9.549 | 9.974 | X | X | 9.742 |
| Gas – ducted ≥ 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | 9.628 | 9.548 | 9.972 | X | X | 9.740 |
| Gas – ducted ≥ 6 Stars | Other or none specified | X | X | 9.633 | 9.553 | 9.977 | X | X | 9.745 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|----------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 3 Stars | Evaporative | X | X | X | X | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 3 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 3 Stars | Other or none specified | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Evaporative | X | X | X | X | X | X | X | X |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 4.5 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 4.5 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Gas - non ducted < 4.5 Stars | Other or none specified | X | X | X | X | X | X | X | X |
| Gas - non ducted < 6 Stars | Evaporative | X | X | 9.891 | 9.792 | X | X | X | 9.984 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | 9.899 | 9.799 | X | X | X | 9.991 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | 9.897 | 9.798 | X | X | X | 9.990 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | 9.895 | 9.796 | X | X | X | 9.988 |
| Gas - non ducted < 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | 9.893 | 9.794 | X | X | X | 9.986 |
| Gas - non ducted < 6 Stars | Heat pump - Non-Ducted < 2.25 stars (< 3) | X | X | 9.898 | 9.798 | X | X | X | 9.990 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | 9.896 | 9.797 | X | X | X | 9.989 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | 9.895 | 9.795 | X | X | X | 9.988 |
| Gas - non ducted < 6 Stars | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | 9.893 | 9.794 | X | X | X | 9.986 |
| Gas - non ducted < 6 Stars | Other or none specified | X | X | 9.899 | 9.799 | X | X | X | 9.991 |
| Gas - non ducted ≥ 6 Stars | Evaporative | X | X | 8.867 | 8.767 | 9.223 | X | X | 8.959 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 2.25 stars (< 3) | X | X | 8.874 | 8.774 | 9.231 | X | X | 8.966 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3 stars (< 4.5) | X | X | 8.873 | 8.773 | 9.229 | X | X | 8.965 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted < 3.75 stars (< 6) | X | X | 8.871 | 8.771 | 9.227 | X | X | 8.963 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | 8.869 | 8.769 | 9.225 | X | X | 8.961 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | 8.873 | 8.773 | 9.230 | X | X | 8.965 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | 8.872 | 8.772 | 9.229 | X | X | 8.964 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-----------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted < 3.75 stars (< 6) | X | X | 8.870 | 8.771 | 9.227 | X | X | 8.963 |
| Gas - non ducted ≥ 6 Stars | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | X | X | 8.868 | 8.769 | 9.225 | X | X | 8.961 |
| Gas - non ducted ≥ 6 Stars | Other or none specified | X | X | 8.874 | 8.774 | 9.231 | X | X | 8.966 |

Table 8.2.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 8 – heat pump heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 7.484 | 6.225 | 5.231 | 4.866 | 5.751 | 7.345 | 6.683 | 4.948 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 7.494 | 6.235 | 5.242 | 4.876 | 5.761 | 7.355 | 6.692 | 4.958 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 7.492 | 6.233 | 5.241 | 4.875 | 5.760 | 7.353 | 6.691 | 4.957 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 7.490 | 6.231 | 5.238 | 4.872 | 5.757 | 7.351 | 6.689 | 4.955 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.488 | 6.229 | 5.236 | 4.870 | 5.755 | 7.349 | 6.687 | 4.953 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 7.491 | 6.232 | 5.240 | 4.874 | 5.759 | 7.353 | 6.690 | 4.956 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.490 | 6.231 | 5.239 | 4.873 | 5.758 | 7.351 | 6.689 | 4.955 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.489 | 6.230 | 5.237 | 4.871 | 5.756 | 7.350 | 6.687 | 4.953 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 7.487 | 6.228 | 5.235 | 4.869 | 5.754 | 7.348 | 6.686 | 4.952 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 7.494 | 6.235 | 5.242 | 4.876 | 5.761 | 7.355 | 6.692 | 4.958 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 7.090 | 5.831 | 4.838 | 4.472 | 5.357 | 6.952 | 6.289 | 4.554 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 7.100 | 5.841 | 4.848 | 4.482 | 5.367 | 6.961 | 6.298 | 4.565 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 7.098 | 5.839 | 4.847 | 4.481 | 5.366 | 6.959 | 6.297 | 4.563 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 7.096 | 5.837 | 4.845 | 4.479 | 5.364 | 6.957 | 6.295 | 4.561 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.094 | 5.835 | 4.842 | 4.476 | 5.361 | 6.955 | 6.293 | 4.559 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.098 | 5.839 | 4.846 | 4.480 | 5.365 | 6.959 | 6.296 | 4.562 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.096 | 5.837 | 4.845 | 4.479 | 5.364 | 6.958 | 6.295 | 4.561 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.095 | 5.836 | 4.843 | 4.477 | 5.362 | 6.956 | 6.293 | 4.559 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.093 | 5.834 | 4.841 | 4.475 | 5.360 | 6.954 | 6.292 | 4.558 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 7.100 | 5.841 | 4.848 | 4.482 | 5.367 | 6.961 | 6.298 | 4.565 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 6.499 | 5.240 | 4.247 | 3.881 | 4.767 | 6.361 | 5.698 | 3.963 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 6.509 | 5.250 | 4.257 | 3.891 | 4.776 | 6.370 | 5.707 | 3.974 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 6.507 | 5.248 | 4.256 | 3.890 | 4.775 | 6.368 | 5.706 | 3.972 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 6.505 | 5.246 | 4.254 | 3.888 | 4.773 | 6.366 | 5.704 | 3.970 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.503 | 5.244 | 4.252 | 3.885 | 4.771 | 6.364 | 5.702 | 3.968 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.507 | 5.248 | 4.255 | 3.889 | 4.774 | 6.368 | 5.705 | 3.971 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.506 | 5.247 | 4.254 | 3.888 | 4.773 | 6.367 | 5.704 | 3.970 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.504 | 5.245 | 4.252 | 3.886 | 4.771 | 6.365 | 5.702 | 3.969 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.502 | 5.243 | 4.250 | 3.884 | 4.769 | 6.363 | 5.701 | 3.967 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 6.509 | 5.250 | 4.257 | 3.891 | 4.776 | 6.370 | 5.707 | 3.974 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 5.908 | 4.649 | 3.656 | 3.290 | 4.176 | 5.770 | 5.107 | 3.372 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 5.918 | 4.659 | 3.666 | 3.300 | 4.185 | 5.779 | 5.117 | 3.383 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 5.917 | 4.658 | 3.665 | 3.299 | 4.184 | 5.777 | 5.115 | 3.381 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 5.914 | 4.655 | 3.663 | 3.297 | 4.182 | 5.775 | 5.113 | 3.379 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.912 | 4.653 | 3.661 | 3.295 | 4.180 | 5.773 | 5.111 | 3.377 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.916 | 4.657 | 3.664 | 3.298 | 4.183 | 5.777 | 5.115 | 3.381 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.915 | 4.656 | 3.663 | 3.297 | 4.182 | 5.776 | 5.113 | 3.379 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.913 | 4.654 | 3.661 | 3.295 | 4.180 | 5.774 | 5.112 | 3.378 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.911 | 4.652 | 3.659 | 3.293 | 4.178 | 5.772 | 5.110 | 3.376 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 5.918 | 4.659 | 3.666 | 3.300 | 4.185 | 5.779 | 5.117 | 3.383 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 6.813 | 5.539 | 4.555 | 4.184 | 5.073 | 6.657 | 5.995 | 4.265 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 6.823 | 5.549 | 4.566 | 4.195 | 5.083 | 6.667 | 6.004 | 4.276 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 6.822 | 5.547 | 4.565 | 4.193 | 5.081 | 6.665 | 6.003 | 4.274 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 6.819 | 5.545 | 4.563 | 4.191 | 5.079 | 6.663 | 6.001 | 4.272 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.817 | 5.543 | 4.561 | 4.189 | 5.077 | 6.661 | 5.999 | 4.270 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.821 | 5.546 | 4.564 | 4.192 | 5.080 | 6.665 | 6.002 | 4.274 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.820 | 5.545 | 4.563 | 4.191 | 5.079 | 6.664 | 6.001 | 4.272 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.818 | 5.543 | 4.561 | 4.189 | 5.078 | 6.662 | 5.999 | 4.271 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.816 | 5.542 | 4.559 | 4.188 | 5.076 | 6.660 | 5.997 | 4.269 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 6.823 | 5.549 | 4.566 | 4.195 | 5.083 | 6.667 | 6.004 | 4.276 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 6.479 | 5.205 | 4.222 | 3.850 | 4.739 | 6.324 | 5.661 | 3.932 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 6.489 | 5.215 | 4.233 | 3.861 | 4.749 | 6.333 | 5.671 | 3.942 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 6.488 | 5.214 | 4.231 | 3.860 | 4.748 | 6.332 | 5.669 | 3.941 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 6.486 | 5.211 | 4.229 | 3.857 | 4.746 | 6.330 | 5.667 | 3.939 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.484 | 5.209 | 4.227 | 3.855 | 4.743 | 6.328 | 5.665 | 3.937 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.487 | 5.213 | 4.231 | 3.859 | 4.747 | 6.331 | 5.669 | 3.940 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.486 | 5.212 | 4.229 | 3.858 | 4.746 | 6.330 | 5.667 | 3.939 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.484 | 5.210 | 4.228 | 3.856 | 4.744 | 6.328 | 5.666 | 3.937 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.483 | 5.208 | 4.226 | 3.854 | 4.742 | 6.327 | 5.664 | 3.935 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 6.489 | 5.215 | 4.233 | 3.861 | 4.749 | 6.333 | 5.671 | 3.942 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 5.979 | 4.705 | 3.722 | 3.350 | 4.239 | 5.824 | 5.161 | 3.431 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 5.989 | 4.715 | 3.733 | 3.361 | 4.249 | 5.833 | 5.171 | 3.442 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 5.988 | 4.713 | 3.731 | 3.359 | 4.247 | 5.832 | 5.169 | 3.441 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 5.986 | 4.711 | 3.729 | 3.357 | 4.245 | 5.830 | 5.167 | 3.438 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.983 | 4.709 | 3.727 | 3.355 | 4.243 | 5.827 | 5.165 | 3.436 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 5.987 | 4.713 | 3.730 | 3.359 | 4.247 | 5.831 | 5.168 | 3.440 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.986 | 4.711 | 3.729 | 3.357 | 4.246 | 5.830 | 5.167 | 3.439 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.984 | 4.710 | 3.727 | 3.356 | 4.244 | 5.828 | 5.165 | 3.437 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.982 | 4.708 | 3.726 | 3.354 | 4.242 | 5.826 | 5.164 | 3.435 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 5.989 | 4.715 | 3.733 | 3.361 | 4.249 | 5.833 | 5.171 | 3.442 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 5.479 | 4.204 | 3.221 | 2.850 | 3.738 | 5.323 | 4.660 | 2.931 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 5.489 | 4.215 | 3.232 | 2.860 | 3.749 | 5.333 | 4.670 | 2.942 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 5.487 | 4.213 | 3.231 | 2.859 | 3.747 | 5.331 | 4.669 | 2.940 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 5.485 | 4.211 | 3.229 | 2.857 | 3.745 | 5.329 | 4.667 | 2.938 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.483 | 4.209 | 3.227 | 2.855 | 3.743 | 5.327 | 4.665 | 2.936 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.487 | 4.212 | 3.230 | 2.858 | 3.746 | 5.331 | 4.668 | 2.940 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.486 | 4.211 | 3.229 | 2.857 | 3.745 | 5.330 | 4.667 | 2.938 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 5.484 | 4.209 | 3.227 | 2.855 | 3.743 | 5.328 | 4.665 | 2.937 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.482 | 4.208 | 3.225 | 2.854 | 3.742 | 5.326 | 4.663 | 2.935 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 5.489 | 4.215 | 3.232 | 2.860 | 3.749 | 5.333 | 4.670 | 2.942 |

Table 8.2.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 8 – heat pump heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 6.106 | 5.681 | 4.251 | 4.147 | 4.638 | 5.116 | 4.776 | 3.829 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 6.116 | 5.690 | 4.260 | 4.157 | 4.648 | 5.125 | 4.786 | 3.839 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 6.114 | 5.689 | 4.259 | 4.155 | 4.646 | 5.124 | 4.785 | 3.838 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 6.112 | 5.687 | 4.257 | 4.153 | 4.644 | 5.122 | 4.783 | 3.836 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.110 | 5.685 | 4.255 | 4.151 | 4.642 | 5.120 | 4.781 | 3.834 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-ducted < 2.25 stars (< 3) | 6.114 | 5.688 | 4.259 | 4.155 | 4.646 | 5.123 | 4.784 | 3.837 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.113 | 5.687 | 4.257 | 4.154 | 4.645 | 5.122 | 4.783 | 3.836 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.111 | 5.685 | 4.256 | 4.152 | 4.643 | 5.120 | 4.781 | 3.834 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 6.109 | 5.684 | 4.254 | 4.150 | 4.641 | 5.119 | 4.780 | 3.833 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 6.116 | 5.690 | 4.260 | 4.157 | 4.648 | 5.125 | 4.786 | 3.839 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 5.801 | 5.377 | 3.946 | 3.842 | 4.334 | 4.811 | 4.472 | 3.525 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 5.811 | 5.386 | 3.956 | 3.852 | 4.343 | 4.821 | 4.481 | 3.535 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 5.810 | 5.384 | 3.955 | 3.851 | 4.342 | 4.819 | 4.480 | 3.533 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 5.808 | 5.382 | 3.953 | 3.849 | 4.340 | 4.817 | 4.478 | 3.531 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.806 | 5.380 | 3.951 | 3.847 | 4.338 | 4.815 | 4.476 | 3.529 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.809 | 5.384 | 3.954 | 3.850 | 4.341 | 4.819 | 4.479 | 3.533 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.808 | 5.383 | 3.953 | 3.849 | 4.340 | 4.818 | 4.478 | 3.532 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.806 | 5.381 | 3.951 | 3.847 | 4.339 | 4.816 | 4.477 | 3.530 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.805 | 5.379 | 3.950 | 3.846 | 4.337 | 4.814 | 4.475 | 3.528 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 5.811 | 5.386 | 3.956 | 3.852 | 4.343 | 4.821 | 4.481 | 3.535 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 5.345 | 4.920 | 3.490 | 3.386 | 3.877 | 4.355 | 4.015 | 3.068 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 5.354 | 4.929 | 3.499 | 3.395 | 3.887 | 4.364 | 4.025 | 3.078 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 5.353 | 4.928 | 3.498 | 3.394 | 3.885 | 4.363 | 4.023 | 3.077 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 5.351 | 4.926 | 3.496 | 3.392 | 3.883 | 4.361 | 4.021 | 3.075 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.349 | 4.924 | 3.494 | 3.390 | 3.881 | 4.359 | 4.020 | 3.073 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.353 | 4.927 | 3.497 | 3.394 | 3.885 | 4.362 | 4.023 | 3.076 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.351 | 4.926 | 3.496 | 3.392 | 3.884 | 4.361 | 4.022 | 3.075 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.350 | 4.924 | 3.495 | 3.391 | 3.882 | 4.359 | 4.020 | 3.073 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.348 | 4.923 | 3.493 | 3.389 | 3.880 | 4.358 | 4.018 | 3.072 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 5.354 | 4.929 | 3.499 | 3.395 | 3.887 | 4.364 | 4.025 | 3.078 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 4.888 | 4.463 | 3.033 | 2.929 | 3.420 | 3.898 | 3.559 | 2.612 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.898 | 4.472 | 3.043 | 2.939 | 3.430 | 3.907 | 3.568 | 2.621 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.896 | 4.471 | 3.041 | 2.938 | 3.429 | 3.906 | 3.567 | 2.620 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.895 | 4.469 | 3.039 | 2.936 | 3.427 | 3.904 | 3.565 | 2.618 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.893 | 4.467 | 3.037 | 2.934 | 3.425 | 3.902 | 3.563 | 2.616 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.896 | 4.470 | 3.041 | 2.937 | 3.428 | 3.905 | 3.566 | 2.619 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.895 | 4.469 | 3.040 | 2.936 | 3.427 | 3.904 | 3.565 | 2.618 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.893 | 4.468 | 3.038 | 2.934 | 3.425 | 3.903 | 3.563 | 2.617 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.892 | 4.466 | 3.036 | 2.933 | 3.424 | 3.901 | 3.562 | 2.615 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.898 | 4.472 | 3.043 | 2.939 | 3.430 | 3.907 | 3.568 | 2.621 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 5.583 | 5.152 | 3.727 | 3.618 | 4.114 | 4.586 | 4.246 | 3.303 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 2.25 stars (< 3) | 5.593 | 5.161 | 3.737 | 3.628 | 4.123 | 4.595 | 4.255 | 3.313 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3 stars (< 4.5) | 5.591 | 5.160 | 3.735 | 3.627 | 4.122 | 4.594 | 4.254 | 3.312 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted < 3.75 stars (< 6) | 5.590 | 5.158 | 3.733 | 3.625 | 4.120 | 4.592 | 4.252 | 3.310 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.588 | 5.156 | 3.731 | 3.623 | 4.118 | 4.590 | 4.250 | 3.308 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.591 | 5.159 | 3.735 | 3.626 | 4.121 | 4.593 | 4.253 | 3.311 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.590 | 5.158 | 3.733 | 3.625 | 4.120 | 4.592 | 4.252 | 3.310 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.588 | 5.156 | 3.732 | 3.623 | 4.119 | 4.590 | 4.251 | 3.308 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.587 | 5.155 | 3.730 | 3.622 | 4.117 | 4.589 | 4.249 | 3.307 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 5.593 | 5.161 | 3.737 | 3.628 | 4.123 | 4.595 | 4.255 | 3.313 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 5.325 | 4.894 | 3.469 | 3.360 | 3.856 | 4.328 | 3.988 | 3.045 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 2.25 stars (< 3) | 5.335 | 4.903 | 3.479 | 3.370 | 3.865 | 4.337 | 3.998 | 3.055 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3 stars (< 4.5) | 5.334 | 4.902 | 3.478 | 3.369 | 3.864 | 4.336 | 3.996 | 3.054 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted < 3.75 stars (< 6) | 5.332 | 4.900 | 3.476 | 3.367 | 3.862 | 4.334 | 3.994 | 3.052 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 5.330 | 4.898 | 3.474 | 3.365 | 3.860 | 4.332 | 3.992 | 3.050 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 2.25 stars (< 3) | 5.333 | 4.902 | 3.477 | 3.368 | 3.864 | 4.335 | 3.996 | 3.053 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3 stars (< 4.5) | 5.332 | 4.900 | 3.476 | 3.367 | 3.862 | 4.334 | 3.995 | 3.052 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted < 3.75 stars (< 6) | 5.330 | 4.899 | 3.474 | 3.366 | 3.861 | 4.333 | 3.993 | 3.051 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 5.329 | 4.897 | 3.472 | 3.364 | 3.859 | 4.331 | 3.991 | 3.049 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 5.335 | 4.903 | 3.479 | 3.370 | 3.865 | 4.337 | 3.998 | 3.055 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 4.939 | 4.508 | 3.082 | 2.974 | 3.469 | 3.941 | 3.601 | 2.659 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.949 | 4.517 | 3.092 | 2.984 | 3.479 | 3.951 | 3.611 | 2.669 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.947 | 4.516 | 3.091 | 2.982 | 3.478 | 3.950 | 3.610 | 2.668 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.945 | 4.514 | 3.089 | 2.980 | 3.476 | 3.948 | 3.608 | 2.666 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.943 | 4.512 | 3.087 | 2.978 | 3.474 | 3.946 | 3.606 | 2.664 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-Ducted < 2.25 stars (< 3) | 4.947 | 4.515 | 3.090 | 2.982 | 3.477 | 3.949 | 3.609 | 2.667 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.946 | 4.514 | 3.089 | 2.981 | 3.476 | 3.948 | 3.608 | 2.666 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted < 3.75 stars (< 6) | 4.944 | 4.512 | 3.088 | 2.979 | 3.474 | 3.946 | 3.606 | 2.664 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 4.942 | 4.511 | 3.086 | 2.977 | 3.473 | 3.945 | 3.605 | 2.662 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 4.949 | 4.517 | 3.092 | 2.984 | 3.479 | 3.951 | 3.611 | 2.669 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 4.552 | 4.121 | 2.696 | 2.587 | 3.083 | 3.555 | 3.215 | 2.272 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 2.25 stars (< 3) | 4.562 | 4.130 | 2.706 | 2.597 | 3.092 | 3.564 | 3.224 | 2.282 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3 stars (< 4.5) | 4.561 | 4.129 | 2.704 | 2.596 | 3.091 | 3.563 | 3.223 | 2.281 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted < 3.75 stars (< 6) | 4.559 | 4.127 | 2.703 | 2.594 | 3.089 | 3.561 | 3.221 | 2.279 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 4.557 | 4.125 | 2.701 | 2.592 | 3.087 | 3.559 | 3.219 | 2.277 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 2.25 stars (< 3) | 4.560 | 4.128 | 2.704 | 2.595 | 3.090 | 3.562 | 3.223 | 2.280 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-ducted < 3 stars (< 4.5) | 4.559 | 4.127 | 2.703 | 2.594 | 3.089 | 3.561 | 3.221 | 2.279 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted < 3.75 stars (< 6) | 4.557 | 4.126 | 2.701 | 2.592 | 3.088 | 3.560 | 3.220 | 2.278 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Heat pump - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.556 | 4.124 | 2.699 | 2.591 | 3.086 | 3.558 | 3.218 | 2.276 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.562 | 4.130 | 2.706 | 2.597 | 3.092 | 3.564 | 3.224 | 2.282 |

Table 8.2.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 8 – heat pump heating – Tasmania

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | Evaporative | 6.346 | 5.592 | 4.422 | 4.213 | 4.833 | 7.176 | 6.390 | 4.383 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Ducted < 2.25 stars (< 3) | 6.356 | 5.601 | 4.432 | 4.223 | 4.842 | 7.184 | 6.399 | 4.393 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Ducted < 3 stars (< 4.5) | 6.355 | 5.600 | 4.430 | 4.222 | 4.841 | 7.183 | 6.398 | 4.391 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Ducted < 3.75 stars (< 6) | 6.353 | 5.598 | 4.428 | 4.220 | 4.839 | 7.181 | 6.396 | 4.389 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Ducted ≥ 3.75 stars (≥ 6) | 6.351 | 5.596 | 4.426 | 4.218 | 4.837 | 7.179 | 6.394 | 4.387 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-Ducted < 2.25 stars (< 3) | 6.354 | 5.599 | 4.430 | 4.221 | 4.840 | 7.182 | 6.397 | 4.391 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-Ducted < 3 stars (< 4.5) | 6.353 | 5.598 | 4.429 | 4.220 | 4.839 | 7.181 | 6.396 | 4.390 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-Ducted < 3.75 stars (< 6) | 6.351 | 5.597 | 4.427 | 4.218 | 4.838 | 7.180 | 6.395 | 4.388 |
| Heat pump - Ducted < 2.25 Stars (< 3) | HP - Non-Ducted ≥ 3.75 stars (≥ 6) | 6.350 | 5.595 | 4.425 | 4.217 | 4.836 | 7.178 | 6.393 | 4.386 |
| Heat pump - Ducted < 2.25 Stars (< 3) | Other or none specified | 6.356 | 5.601 | 4.432 | 4.223 | 4.842 | 7.184 | 6.399 | 4.393 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Evaporative | 6.026 | 5.272 | 4.102 | 3.894 | 4.513 | 6.856 | 6.071 | 4.063 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | HP - Ducted < 2.25 stars (< 3) | 6.036 | 5.282 | 4.112 | 3.903 | 4.522 | 6.864 | 6.080 | 4.073 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | HP - Ducted < 3 stars (< 4.5) | 6.035 | 5.280 | 4.111 | 3.902 | 4.521 | 6.863 | 6.078 | 4.071 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | HP - Ducted < 3.75 stars (< 6) | 6.033 | 5.278 | 4.109 | 3.900 | 4.519 | 6.861 | 6.076 | 4.069 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | HP - Ducted ≥ 3.75 stars (≥ 6) | 6.031 | 5.276 | 4.107 | 3.898 | 4.517 | 6.859 | 6.074 | 4.067 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.0 Stars (< 4.5) | HP - Non-Ducted < 2.25 stars (< 3) | 6.034 | 5.280 | 4.110 | 3.901 | 4.521 | 6.863 | 6.078 | 4.071 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | HP - Non-Ducted < 3 stars (< 4.5) | 6.033 | 5.278 | 4.109 | 3.900 | 4.519 | 6.862 | 6.076 | 4.070 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | HP - Non-Ducted < 3.75 stars (< 6) | 6.031 | 5.277 | 4.107 | 3.899 | 4.518 | 6.860 | 6.075 | 4.068 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | HP - Non-Ducted ≥ 3.75 stars (≥ 6) | 6.030 | 5.275 | 4.106 | 3.897 | 4.516 | 6.858 | 6.073 | 4.066 |
| Heat pump - Ducted < 3.0 Stars (< 4.5) | Other or none specified | 6.036 | 5.282 | 4.112 | 3.903 | 4.522 | 6.864 | 6.080 | 4.073 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Evaporative | 5.547 | 4.793 | 3.622 | 3.414 | 4.033 | 6.376 | 5.591 | 3.583 |
| Heat pump - Ducted < 3.75 Stars (< 6) | HP - Ducted < 2.25 stars (< 3) | 5.556 | 4.802 | 3.632 | 3.424 | 4.043 | 6.385 | 5.600 | 3.593 |
| Heat pump - Ducted < 3.75 Stars (< 6) | HP - Ducted < 3 stars (< 4.5) | 5.555 | 4.800 | 3.631 | 3.422 | 4.041 | 6.383 | 5.598 | 3.592 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---------------------------------------|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted < 3.75 Stars (< 6) | HP - Ducted < 3.75 stars (< 6) | 5.553 | 4.798 | 3.629 | 3.420 | 4.039 | 6.381 | 5.596 | 3.590 |
| Heat pump - Ducted < 3.75 Stars (< 6) | HP - Ducted ≥ 3.75 stars (≥ 6) | 5.551 | 4.797 | 3.627 | 3.418 | 4.037 | 6.379 | 5.594 | 3.588 |
| Heat pump - Ducted < 3.75 Stars (< 6) | HP - Non-Ducted < 2.25 stars (< 3) | 5.554 | 4.800 | 3.630 | 3.422 | 4.041 | 6.383 | 5.598 | 3.591 |
| Heat pump - Ducted < 3.75 Stars (< 6) | HP - Non-Ducted < 3 stars (< 4.5) | 5.553 | 4.799 | 3.629 | 3.421 | 4.040 | 6.382 | 5.597 | 3.590 |
| Heat pump - Ducted < 3.75 Stars (< 6) | HP - Non-Ducted < 3.75 stars (< 6) | 5.552 | 4.797 | 3.627 | 3.419 | 4.038 | 6.380 | 5.595 | 3.588 |
| Heat pump - Ducted < 3.75 Stars (< 6) | HP - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.550 | 4.795 | 3.626 | 3.417 | 4.036 | 6.378 | 5.593 | 3.587 |
| Heat pump - Ducted < 3.75 Stars (< 6) | Other or none specified | 5.556 | 4.802 | 3.632 | 3.424 | 4.043 | 6.385 | 5.600 | 3.593 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 5.067 | 4.313 | 3.142 | 2.934 | 3.553 | 5.896 | 5.111 | 3.103 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | HP - Ducted < 2.25 stars (< 3) | 5.077 | 4.322 | 3.152 | 2.944 | 3.563 | 5.905 | 5.120 | 3.113 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | HP - Ducted < 3 stars (< 4.5) | 5.075 | 4.321 | 3.151 | 2.943 | 3.562 | 5.904 | 5.119 | 3.112 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | HP - Ducted < 3.75 stars (< 6) | 5.073 | 4.319 | 3.149 | 2.941 | 3.560 | 5.902 | 5.117 | 3.110 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | HP - Ducted ≥ 3.75 stars (≥ 6) | 5.071 | 4.317 | 3.147 | 2.939 | 3.558 | 5.900 | 5.115 | 3.108 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | HP - Non-Ducted < 2.25 stars (< 3) | 5.075 | 4.320 | 3.150 | 2.942 | 3.561 | 5.903 | 5.118 | 3.111 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | HP - Non-Ducted < 3 stars (< 4.5) | 5.074 | 4.319 | 3.149 | 2.941 | 3.560 | 5.902 | 5.117 | 3.110 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | HP - Non-Ducted < 3.75 stars (< 6) | 5.072 | 4.317 | 3.148 | 2.939 | 3.558 | 5.900 | 5.115 | 3.109 |
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | HP - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.070 | 4.316 | 3.146 | 2.937 | 3.557 | 5.899 | 5.114 | 3.107 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 5.077 | 4.322 | 3.152 | 2.944 | 3.563 | 5.905 | 5.120 | 3.113 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Evaporative | 5.797 | 5.035 | 3.873 | 3.658 | 4.281 | 6.619 | 5.832 | 3.828 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | HP - Ducted < 2.25 stars (< 3) | 5.807 | 5.045 | 3.883 | 3.668 | 4.291 | 6.628 | 5.842 | 3.838 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | HP - Ducted < 3 stars (< 4.5) | 5.806 | 5.044 | 3.882 | 3.667 | 4.290 | 6.626 | 5.840 | 3.837 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | HP - Ducted < 3.75 stars (< 6) | 5.804 | 5.042 | 3.880 | 3.665 | 4.288 | 6.624 | 5.838 | 3.835 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | HP - Ducted ≥ 3.75 stars (≥ 6) | 5.802 | 5.040 | 3.878 | 3.663 | 4.286 | 6.622 | 5.836 | 3.833 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | HP - Non-Ducted < 2.25 stars (< 3) | 5.805 | 5.043 | 3.881 | 3.666 | 4.289 | 6.626 | 5.840 | 3.836 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | HP - Non-Ducted < 3 stars (< 4.5) | 5.804 | 5.042 | 3.880 | 3.665 | 4.288 | 6.625 | 5.839 | 3.835 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 2.25 Stars (< 3) | HP - Non-Ducted < 3.75 stars (< 6) | 5.803 | 5.040 | 3.878 | 3.664 | 4.286 | 6.623 | 5.837 | 3.834 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | HP - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.801 | 5.038 | 3.876 | 3.662 | 4.285 | 6.621 | 5.835 | 3.832 |
| Heat pump - Non Ducted < 2.25 Stars (< 3) | Other or none specified | 5.807 | 5.045 | 3.883 | 3.668 | 4.291 | 6.628 | 5.842 | 3.838 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Evaporative | 5.526 | 4.764 | 3.602 | 3.387 | 4.010 | 6.348 | 5.561 | 3.557 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | HP - Ducted < 2.25 stars (< 3) | 5.536 | 4.774 | 3.612 | 3.397 | 4.020 | 6.357 | 5.571 | 3.567 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | HP - Ducted < 3 stars (< 4.5) | 5.535 | 4.773 | 3.611 | 3.396 | 4.019 | 6.355 | 5.569 | 3.566 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | HP - Ducted < 3.75 stars (< 6) | 5.533 | 4.771 | 3.609 | 3.394 | 4.017 | 6.353 | 5.567 | 3.564 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | HP - Ducted ≥ 3.75 stars (≥ 6) | 5.531 | 4.769 | 3.607 | 3.392 | 4.015 | 6.351 | 5.566 | 3.562 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | HP - Non-Ducted < 2.25 stars (< 3) | 5.534 | 4.772 | 3.610 | 3.395 | 4.018 | 6.355 | 5.569 | 3.565 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | HP - Non-Ducted < 3 stars (< 4.5) | 5.533 | 4.771 | 3.609 | 3.394 | 4.017 | 6.354 | 5.568 | 3.564 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | HP - Non-Ducted < 3.75 stars (< 6) | 5.532 | 4.769 | 3.607 | 3.393 | 4.015 | 6.352 | 5.566 | 3.563 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | HP - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.530 | 4.768 | 3.606 | 3.391 | 4.014 | 6.350 | 5.564 | 3.561 |
| Heat pump - Non Ducted < 3.0 Stars (< 4.5) | Other or none specified | 5.536 | 4.774 | 3.612 | 3.397 | 4.020 | 6.357 | 5.571 | 3.567 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Evaporative | 5.120 | 4.358 | 3.195 | 2.981 | 3.604 | 5.941 | 5.155 | 3.151 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | HP - Ducted < 2.25 stars (< 3) | 5.130 | 4.367 | 3.206 | 2.991 | 3.613 | 5.950 | 5.164 | 3.161 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | HP - Ducted < 3 stars (< 4.5) | 5.129 | 4.366 | 3.204 | 2.990 | 3.612 | 5.949 | 5.163 | 3.160 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|---|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted < 3.75 Stars (< 6) | HP - Ducted < 3.75 stars (< 6) | 5.127 | 4.364 | 3.202 | 2.988 | 3.610 | 5.947 | 5.161 | 3.158 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | HP - Ducted ≥ 3.75 stars (≥ 6) | 5.125 | 4.362 | 3.200 | 2.986 | 3.608 | 5.945 | 5.159 | 3.156 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | HP - Non-Ducted < 2.25 stars (< 3) | 5.128 | 4.365 | 3.203 | 2.989 | 3.612 | 5.948 | 5.162 | 3.159 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | HP - Non-Ducted < 3 stars (< 4.5) | 5.127 | 4.364 | 3.202 | 2.988 | 3.610 | 5.947 | 5.161 | 3.158 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | HP - Non-Ducted < 3.75 stars (< 6) | 5.125 | 4.363 | 3.201 | 2.986 | 3.609 | 5.946 | 5.160 | 3.156 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | HP - Non-Ducted ≥ 3.75 stars (≥ 6) | 5.124 | 4.361 | 3.199 | 2.985 | 3.607 | 5.944 | 5.158 | 3.155 |
| Heat pump - Non Ducted < 3.75 Stars (< 6) | Other or none specified | 5.130 | 4.367 | 3.206 | 2.991 | 3.613 | 5.950 | 5.164 | 3.161 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Evaporative | 4.714 | 3.952 | 2.789 | 2.575 | 3.197 | 5.535 | 4.749 | 2.745 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | HP - Ducted < 2.25 stars (< 3) | 4.723 | 3.961 | 2.799 | 2.585 | 3.207 | 5.544 | 4.758 | 2.755 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | HP - Ducted < 3 stars (< 4.5) | 4.722 | 3.960 | 2.798 | 2.583 | 3.206 | 5.543 | 4.757 | 2.753 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | HP - Ducted < 3.75 stars (< 6) | 4.720 | 3.958 | 2.796 | 2.581 | 3.204 | 5.541 | 4.755 | 2.751 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | HP - Ducted ≥ 3.75 stars (≥ 6) | 4.718 | 3.956 | 2.794 | 2.579 | 3.202 | 5.539 | 4.753 | 2.749 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | HP - Non-Ducted < 2.25 stars (< 3) | 4.721 | 3.959 | 2.797 | 2.583 | 3.205 | 5.542 | 4.756 | 2.753 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | HP - Non-Ducted < 3 stars (< 4.5) | 4.720 | 3.958 | 2.796 | 2.581 | 3.204 | 5.541 | 4.755 | 2.751 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | HP - Non-Ducted < 3.75 stars (< 6) | 4.719 | 3.956 | 2.794 | 2.580 | 3.202 | 5.539 | 4.753 | 2.750 |
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | HP - Non-Ducted ≥ 3.75 stars (≥ 6) | 4.717 | 3.955 | 2.793 | 2.578 | 3.201 | 5.538 | 4.752 | 2.748 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|--|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Heat pump - Non Ducted ≥ 3.75 Stars (≥ 6) | Other or none specified | 4.723 | 3.961 | 2.799 | 2.585 | 3.207 | 5.544 | 4.758 | 2.755 |

Table 8.3.1 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 8 – other heating – New South Wales

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Other or none specified | X | X | X | X | X | X | X | X |
| Wood Heater | Evaporative | 8.749 | 7.722 | 6.552 | 6.266 | 7.054 | 8.951 | 8.239 | 6.361 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 8.761 | 7.735 | 6.566 | 6.280 | 7.067 | 8.963 | 8.251 | 6.374 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 8.760 | 7.733 | 6.564 | 6.278 | 7.065 | 8.961 | 8.250 | 6.373 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 8.758 | 7.731 | 6.562 | 6.276 | 7.063 | 8.959 | 8.248 | 6.371 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.756 | 7.729 | 6.560 | 6.274 | 7.061 | 8.957 | 8.245 | 6.369 |
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 8.759 | 7.732 | 6.563 | 6.277 | 7.064 | 8.960 | 8.249 | 6.372 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 8.757 | 7.731 | 6.562 | 6.276 | 7.063 | 8.959 | 8.248 | 6.370 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.756 | 7.729 | 6.560 | 6.274 | 7.061 | 8.957 | 8.246 | 6.369 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.754 | 7.727 | 6.558 | 6.272 | 7.059 | 8.956 | 8.244 | 6.367 |
| Wood Heater | Other or none specified | 8.761 | 7.735 | 6.566 | 6.280 | 7.067 | 8.963 | 8.251 | 6.374 |
| Electric - Resistance (Slab) | Evaporative | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Other or none specified | X | X | X | X | X | X | X | X |
| Other or none specified | Evaporative | 7.484 | 6.225 | 5.231 | 4.866 | 5.751 | 7.345 | 6.683 | 4.948 |
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 7.494 | 6.235 | 5.242 | 4.876 | 5.761 | 7.355 | 6.692 | 4.958 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 7.492 | 6.233 | 5.241 | 4.875 | 5.760 | 7.353 | 6.691 | 4.957 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 7.490 | 6.231 | 5.238 | 4.872 | 5.757 | 7.351 | 6.689 | 4.955 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.488 | 6.229 | 5.236 | 4.870 | 5.755 | 7.349 | 6.687 | 4.953 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.491 | 6.232 | 5.240 | 4.874 | 5.759 | 7.353 | 6.690 | 4.956 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.490 | 6.231 | 5.239 | 4.873 | 5.758 | 7.351 | 6.689 | 4.955 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.489 | 6.230 | 5.237 | 4.871 | 5.756 | 7.350 | 6.687 | 4.953 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.487 | 6.228 | 5.235 | 4.869 | 5.754 | 7.348 | 6.686 | 4.952 |
| Other or none specified | Other or none specified | 7.494 | 6.235 | 5.242 | 4.876 | 5.761 | 7.355 | 6.692 | 4.958 |

Table 8.3.2 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 8 – other heating – Victoria

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|-------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Other or none specified | X | X | X | X | X | X | X | X |
| Wood Heater | Evaporative | 7.067 | 6.794 | 5.229 | 5.187 | 5.608 | 6.229 | 5.864 | 4.852 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 7.079 | 6.806 | 5.242 | 5.199 | 5.621 | 6.241 | 5.876 | 4.865 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 7.078 | 6.805 | 5.240 | 5.198 | 5.619 | 6.240 | 5.875 | 4.863 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 7.076 | 6.803 | 5.238 | 5.196 | 5.617 | 6.238 | 5.873 | 4.861 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 7.074 | 6.801 | 5.236 | 5.194 | 5.615 | 6.236 | 5.871 | 4.859 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 7.077 | 6.804 | 5.239 | 5.197 | 5.618 | 6.239 | 5.874 | 4.862 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 7.076 | 6.802 | 5.238 | 5.196 | 5.617 | 6.237 | 5.872 | 4.861 |
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 7.074 | 6.801 | 5.237 | 5.194 | 5.616 | 6.236 | 5.871 | 4.859 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 7.072 | 6.799 | 5.235 | 5.192 | 5.614 | 6.234 | 5.869 | 4.858 |
| Wood Heater | Other or none specified | 7.079 | 6.806 | 5.242 | 5.199 | 5.621 | 6.241 | 5.876 | 4.865 |
| Electric - Resistance (Slab) | Evaporative | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Other or none specified | X | X | X | X | X | X | X | X |
| Other or none specified | Evaporative | 6.106 | 5.681 | 4.251 | 4.147 | 4.638 | 5.116 | 4.776 | 3.829 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 6.116 | 5.690 | 4.260 | 4.157 | 4.648 | 5.125 | 4.786 | 3.839 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 6.114 | 5.689 | 4.259 | 4.155 | 4.646 | 5.124 | 4.785 | 3.838 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 6.112 | 5.687 | 4.257 | 4.153 | 4.644 | 5.122 | 4.783 | 3.836 |
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.110 | 5.685 | 4.255 | 4.151 | 4.642 | 5.120 | 4.781 | 3.834 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.114 | 5.688 | 4.259 | 4.155 | 4.646 | 5.123 | 4.784 | 3.837 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.113 | 5.687 | 4.257 | 4.154 | 4.645 | 5.122 | 4.783 | 3.836 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.111 | 5.685 | 4.256 | 4.152 | 4.643 | 5.120 | 4.781 | 3.834 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.109 | 5.684 | 4.254 | 4.150 | 4.641 | 5.119 | 4.780 | 3.833 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric | Gas storage (standard) | Gas instantaneous | Solar gas |
|-------------------------|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|----------------|------------------------|-------------------|-----------|
| Other or none specified | Other or none specified | 6.116 | 5.690 | 4.260 | 4.157 | 4.648 | 5.125 | 4.786 | 3.839 |

Table 8.3.3 Whole-of-home efficiency factors E_E (kW/100m²) – climate zone 8 – other heating – Tasmania

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Evaporative | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Non-Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|--------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Panel) | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Panel) | Other or none specified | X | X | X | X | X | X | X | X |
| Wood Heater | Evaporative | 8.748 | 8.206 | 6.885 | 6.753 | 7.276 | 9.894 | 9.069 | 6.941 |
| Wood Heater | Heat pump - Ducted < 2.25 stars (< 3) | 8.760 | 8.217 | 6.897 | 6.765 | 7.288 | 9.904 | 9.080 | 6.953 |
| Wood Heater | Heat pump - Ducted < 3 stars (< 4.5) | 8.759 | 8.216 | 6.896 | 6.764 | 7.286 | 9.903 | 9.079 | 6.952 |
| Wood Heater | Heat pump - Ducted < 3.75 stars (< 6) | 8.757 | 8.214 | 6.894 | 6.762 | 7.284 | 9.901 | 9.077 | 6.950 |
| Wood Heater | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 8.755 | 8.212 | 6.892 | 6.760 | 7.282 | 9.899 | 9.075 | 6.948 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Wood Heater | Heat pump - Non-ducted < 2.25 stars (< 3) | 8.757 | 8.215 | 6.895 | 6.762 | 7.285 | 9.902 | 9.078 | 6.951 |
| Wood Heater | Heat pump - Non-ducted < 3 stars (< 4.5) | 8.756 | 8.214 | 6.894 | 6.761 | 7.284 | 9.901 | 9.077 | 6.950 |
| Wood Heater | Heat pump - Non-ducted < 3.75 stars (< 6) | 8.755 | 8.212 | 6.892 | 6.760 | 7.283 | 9.899 | 9.075 | 6.948 |
| Wood Heater | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 8.753 | 8.211 | 6.891 | 6.758 | 7.281 | 9.898 | 9.074 | 6.947 |
| Wood Heater | Other or none specified | 8.760 | 8.217 | 6.897 | 6.765 | 7.288 | 9.904 | 9.080 | 6.953 |
| Electric - Resistance (Slab) | Evaporative | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Electric - Resistance (Slab) | Heat pump - Ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 2.25 stars (< 3) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3 stars (< 4.5) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted < 3.75 stars (< 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | X | X | X | X | X | X | X | X |
| Electric - Resistance (Slab) | Other or none specified | X | X | X | X | X | X | X | X |
| Other or none specified | Evaporative | 6.346 | 5.592 | 4.422 | 4.213 | 4.833 | 7.176 | 6.390 | 4.383 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric (standard) | Gas storage | Gas Instantaneous | Solar gas |
|-------------------------|---|-----------------------------|-----------------------------|----------------------|----------------------|---------------------------|-------------|-------------------|-----------|
| Other or none specified | Heat pump - Ducted < 2.25 stars (< 3) | 6.356 | 5.601 | 4.432 | 4.223 | 4.842 | 7.184 | 6.399 | 4.393 |
| Other or none specified | Heat pump - Ducted < 3 stars (< 4.5) | 6.355 | 5.600 | 4.430 | 4.222 | 4.841 | 7.183 | 6.398 | 4.391 |
| Other or none specified | Heat pump - Ducted < 3.75 stars (< 6) | 6.353 | 5.598 | 4.428 | 4.220 | 4.839 | 7.181 | 6.396 | 4.389 |
| Other or none specified | Heat pump - Ducted ≥ 3.75 stars (≥ 6) | 6.351 | 5.596 | 4.426 | 4.218 | 4.837 | 7.179 | 6.394 | 4.387 |
| Other or none specified | Heat pump - Non-ducted < 2.25 stars (< 3) | 6.354 | 5.599 | 4.430 | 4.221 | 4.840 | 7.182 | 6.397 | 4.391 |
| Other or none specified | Heat pump - Non-ducted < 3 stars (< 4.5) | 6.353 | 5.598 | 4.429 | 4.220 | 4.839 | 7.181 | 6.396 | 4.390 |
| Other or none specified | Heat pump - Non-ducted < 3.75 stars (< 6) | 6.351 | 5.597 | 4.427 | 4.218 | 4.838 | 7.180 | 6.395 | 4.388 |
| Other or none specified | Heat pump - Non-ducted ≥ 3.75 stars (≥ 6) | 6.350 | 5.595 | 4.425 | 4.217 | 4.836 | 7.178 | 6.393 | 4.386 |

| Main type of heater | Main type of cooler | Electric storage (standard) | Electric storage (off peak) | Heat pump (standard) | Heat pump (off-peak) | Solar electric | Gas storage (standard) | Gas instantaneous | Solar gas |
|-------------------------|-------------------------|-----------------------------|-----------------------------|----------------------|----------------------|----------------|------------------------|-------------------|-----------|
| Other or none specified | Other or none specified | 6.356 | 5.601 | 4.432 | 4.223 | 4.842 | 7.184 | 6.399 | 4.393 |

Part 3 References

Energy Efficiency Strategies, 2022, NCC 2022 Update Whole-of-Home Component, abcb.gov.au.



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