

Install an Efficient New Flued Gas Space Heater (Non-Ducted) ; Residential Only

Activity No.

HC1

1. Activity Specific Definitions

Gas Space Heater means a flued gas heating appliance that runs on natural gas or LPG and that is certified and listed in the Directory of Australian Gas Association Certified Products.

2. Activity Description (Summary)

Install an efficient new (non-ducted) flued gas space heater

3. Activity Eligibility Requirements

Any residential household in South Australia where the installed product requirements and minimum installation requirements can be met. This can include new or replacement systems.

4. Installed Product Requirements

- Gas space heaters shall be rated at not less than 4.0 stars in accordance with AS 4553 and be certified and listed in the Directory of AGA Certified Products.
- The gas heater must be of non-ducted flued type (unflued heaters are not eligible).

5. Minimum Installation Requirements

Any gas space heater (non-ducted) installed must comply with AS 60335.2.102.

6. Activity energy savings

The normalised energy saved per appliance from undertaking this activity is equal to:

$$\text{Normalised Energy Savings (GJ)} = \left[(H / 0.75) - \frac{H}{([SRI - 5] \times 0.06 + 0.85)} \right] \times 2.7 \times Ng$$

Where

SRI is the star rating to 1 decimal place in the Directory of AGA Certified Products

Where H is 71.52 GJ/year for BCA climate zone 6

Where H is 31.40 GJ/year for all other places in South Australia

Where Ng is 0.369 - the normalisation factor for natural gas.

The following table shows the Normalised energy Savings for star ratings from 4.0 to 6.0.

Star Rating Index (SRI)	Normalised Energy Savings (GJ) – BCA Climate 6	Normalised Energy Savings (GJ) – BCA others
4	4.81049	2.11199
4.1	5.49036	2.41048
4.2	6.16007	2.70450
4.3	6.81982	2.99416
4.4	7.46985	3.27955
4.5	8.11037	3.56076
4.6	8.74158	3.83789
4.7	9.36369	4.11101
4.8	9.97689	4.38023
4.9	10.58137	4.64562
5	11.17731	4.90486
5.1	11.76491	5.16301
5.2	12.34432	5.42116

5.3	12.91572	5.67931
5.4	13.47928	5.90059
5.5	14.03515	6.15874
5.6	14.58349	6.41689
5.7	15.12446	6.63816
5.8	15.65820	6.85943
5.9	16.18485	7.11758
6	16.70456	7.33885

7. Guidance Notes (Informative only – not mandatory)

Persons installing heating/cooling systems should have regard to the "Air Conditioning Residential Best Practice Guideline" (2003) published by the Australian Institute of Refrigeration, Air Conditioning and Heating (AIRAH). All reasonable endeavours should be used to recycle removed systems. Main gas, LPG and other gas systems are permitted under this specification. Directory of Australian Gas Association Certified Products can be found at http://www.aga.asn.au/complete_product_directory Equivalent table to the formula is provided above.