

**Install an Efficient New Reverse Cycle Air Conditioner (Ducted) ; Residential Only**

Activity No.

HC2B

**1. Activity Specific Definitions**

**Reverse cycle air conditioner (ducted)** means a ducted air conditioner with both heating and cooling functions that is registered for energy labelling and MEPS under standard AS/NZS 3823.2.

**ACOP** means the annual coefficient of performance as defined in AS/NZS 3823.2

**AEER** means the annual energy efficiency ratio as defined in AS/NZS 3823.2

**2. Activity Description (Summary)**

Install an efficient new reverse cycle air conditioner (ducted)

**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**

1. The reverse cycle air conditioner (ducted) must achieve a rated heating ACOP and a rated cooling AEER of  $\geq 3.5$  at rated capacity under AS/NZS 3823.2 (2013).
2. Multi-split systems or water source heat pumps are not eligible.

**5. Minimum Installation Requirements**

Any reverse cycle air conditioner (ducted) installed must comply with AS 60335.2.40.

**6. Activity savings**

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

$$\text{Normalised Energy Savings (GJ) (BCA climate 6)} = \left[ 140.6 - \frac{450.6}{MH} - \frac{19.6}{MC} \right]$$

$$\text{Normalised Energy Savings (GJ) (Other places in SA)} = \left[ 91.6 - \frac{197.8}{MH} - \frac{104.0}{MC} \right]$$

MH is the registered value for rated heating ACOP at rated capacity in accordance with AS/NZS 3823.2

MC is the registered value for rated cooling AEER at rated capacity in accordance with AS/NZS 3823.2

**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.

For the ACOP and AEER, refer to the Air Conditioner CSV file available from [http://reg.energyrating.gov.au/comparator/product\\_types/64/search/](http://reg.energyrating.gov.au/comparator/product_types/64/search/). Use the data from the AnnualOutputCOP and AnnualOutputEER columns.