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Australian Government
GEMS Regulator

GREENHOUSE & ENERGY
**MINIMUM
STANDARDS
REGULATOR**

ENERGY RATING PRODUCT REGISTRATION SYSTEM PRODUCT APPLICATION QUESTIONS

CLOSE CONTROL AIR CONDITIONERS

AUSTRALIA

Per Greenhouse and Energy Minimum Standards (Close control air conditioners) Determination 2012

February 2022

This form is designed for applicants' internal use only, not for submitting applications to the Australian or New Zealand Regulator.

All applications for product registration must be submitted to the appropriate Regulator via the Energy Rating Product Registration System located at <https://reg.energyrating.gov.au>.

The Regulators cannot accept any applications in hard copy.

Note that this form may be updated from time to time to reflect changes to the Registration System and it is the applicant's responsibility to ensure they are using the latest version.

Any question with a red asterisk (*) next to it is mandatory.

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VERSION CONTROL

Revision Date	Version	Summary of Changes
31 January 2022	1.2	“Exemption” fields added. Accessibility improved. Branding updated.
3 February 2020	1.1	Removed DoEE logo for MoG changes – no change to content.
23 March 2017	1.0	Document finalised.
28 February 2017	0.1	Initial document created.

MODELS AND MANUFACTURER

Product Model Information

Fill in one of the two boxes below, depending on if the product being registered is a single model or a family of models.

FOR SINGLE MODELS

Model Number:* _____ Brand:* _____

FOR FAMILY OF MODELS

What is the family name of the models covered by this application?*

Please provide details for each model covered by this registration, if it is a family of models:

Note: There is a limit of 4 model number(s) for the determination: Greenhouse and Energy Minimum Standards (Close control air conditioners) Determination 2012.

<p><u>#1</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>	<p><u>#2</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>
<p><u>#3</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>	<p><u>#4</u></p> <p>Model Number:* _____</p> <p>Brand:* _____</p>

Manufacturing Information

Tick if the product is manufactured in-house

Please provide the following information on the manufacturer if the product is not manufactured in-house. Additional fields are included if there are more than one manufacturer for this product.

Manufacturer Name:* _____

Manufacturer ABN or Company Number:* _____

Name of Contact Person:* _____

Company Phone:* _____ Company Fax: _____

Company Email:* _____ Company Website: _____

Street Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

Is the postal address the same as the street address?*

Yes
 No

If you have ticked No, please complete the postal address fields below:

Postal Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

Second Manufacturer

If applicable, who is the second manufacturer?

Manufacturer Name:* _____

Manufacturer ABN or Company Number:* _____

Name of Contact Person:* _____

Company Phone:* _____ Company Fax: _____

Company Email:* _____ Company Website: _____

Street Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

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Is the postal address the same as the street address?*

Yes
 No

If you have ticked No, please complete the postal address fields below:

Postal Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

Third Manufacturer

If applicable, who is the third manufacturer?

Manufacturer Name:* _____

Manufacturer ABN or Company Number:* _____

Name of Contact Person:* _____

Company Phone:* _____ Company Fax: _____

Company Email:* _____ Company Website: _____

Street Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

Is the postal address the same as the street address?*

Yes
 No

If you have ticked No, please complete the postal address fields below:

Postal Address:* _____

Suburb/Region:* _____ Postal Code:* _____ State/Region: _____

Country:* _____

In what country/countries is this product manufactured?*

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How can the date of manufacture be determined from permanent markings on the appliance?* - Please tick accordingly and if required, provide further information

From a date permanently marked on the rating plate in a non-encrypted format

Provide an example of the date format:

From a date permanently marked on the rating plate in an encrypted format

Describe how the date of manufacture can be determined from the markings on the appliance:

From another form of permanent marking on the product

Describe how the date of manufacture can be determined from the markings on the appliance:

No date mark

Sale Information

In what country/countries will this product be sold?* (please tick one or both, if required)

- Australia
- New Zealand

When will this product be (or when was this product) first available for purchase?* (please specify exact date)

LABS & TEST REPORTS

Is a test report provided?*

Yes – a test report is provided (please ensure test report is provided with this form)

If you ticked yes, please answer the questions below:

What test standard was used?* (please tick one)

AS/NZS 4965.1:2008

Manufacturer's computer simulation output report

Which laboratory performed the testing?* - please provide name of laboratory, type of lab (independent or own lab), and street and/or postal address.

Please provide details for each test report, if multiple test reports are provided.

Test Report Number:* _____

Report Signatory:* _____

Test Date:* _____

Test Unit Serial Number:* _____

No - no test report available but registration details containing test relevant to this product provided

If you ticked 'no test report available, but registration details provided', please answer the question below:

Registration number of the unit whose test forms the basis of this application:*

Comments regarding the product, the test procedure or test results that should be taken into account when assessing the product for compliance:

EXEMPTION

Has an exemption from MEPS performance for this model been granted by the GEMS Regulator? (please tick one) Yes No

If you ticked yes, please answer the question below:

Did your exemption approval letter exempt your registration from payment? (please tick one) Yes No

*Please attach the approval letter to this form so it can be uploaded into the system.**

APPLIANCE DETAILS

Appliance Dimensions: Width: _____ mm Height: _____ mm Depth: _____ mm

Power supply:* (please tick one) Single-phase Three-phase

Refrigerant:* (please tick one)

- | | | | | | |
|---------------------------------------|------------------------------------|--------------------------------|--------------------------------|--------------------------------|----------------------------------|
| <input type="checkbox"/> R114 | <input type="checkbox"/> R22 | <input type="checkbox"/> R502 | <input type="checkbox"/> R134 | <input type="checkbox"/> R32 | <input type="checkbox"/> R123 |
| <input type="checkbox"/> R124 | <input type="checkbox"/> R143A | <input type="checkbox"/> R152A | <input type="checkbox"/> R290 | <input type="checkbox"/> R410A | <input type="checkbox"/> R312560 |
| <input type="checkbox"/> R507 | <input type="checkbox"/> R14312555 | <input type="checkbox"/> R404 | <input type="checkbox"/> R407C | | |
| <input type="checkbox"/> Other: _____ | | | | | |

A/C configuration:* (please tick one) Room Floor Ceiling

Does this air conditioner have a variable output compressor?* Yes No

TEST REPORT DETAILS

Modelling software used:* (please tick one)

- Oakridge software
 Nil – no modelling software
 Other: _____

If you ticked 'Oakridge software', please answer the following question:

Oakridge software version:*

- MK III
 MK IV
 MK V

Test room – indoor type used:* (please tick one)

- Calorimeter – Balanced Ambient
 Calorimeter – Calibrated
 Enthalpy test room

Test room – outdoor type used:* (please tick one)

- Calorimeter – Balanced Ambient
 Calorimeter – Calibrated
 Enthalpy test room
 Water loop

TEST RESULTS

Rated voltage of tested unit/s
Rated voltage range from:* _____ V to* _____ V

Rated frequency:* _____ Hz

Tested voltage and frequency of tested unit/s
Tested voltage:* _____ V Test frequency:* _____ Hz

Average current
Phase 1: _____ A Phase 2: _____ A Phase 3: _____ A

Stabilisation period (current): _____ minutes

Test period: _____ minutes

Reading frequency: _____ minutes

Indoor conditions
Mean dry bulb: _____ °C
Maximum variation dry bulb; _____ °C
Mean wet bulb: _____ °C
Maximum variation wet bulb: _____ °C

Stabilisation period (indoor): _____

Airflow rate:* _____ m³/s

External static pressure:* _____ Pa

Saturated condensing temperature: _____ °C

Temperature of refrigerant entering the TX device: _____ °C

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Cooling capacity

Rated net sensible cooling capacity:* _____ kW

Tested net sensible cooling capacity:* _____ kW

Measured net sensible cooling capacity: _____ kW

Measured net latent cooling capacity: _____ kW

Measured total net cooling capacity: _____ kW

Measured net effective power input: _____ kW

Measured EERS cooling: _____ W/W

Cooling Power

Rated effective power input:* _____ kW

Tested cooling power input:* _____ kW

Discharge

Pressure: _____ kPa

Equivalent temperature: _____ °C

Line temperature: _____ °C

Superheat: _____ K

Liquid/suction line lengths: _____ m

Liquid line temperature: _____ m+

Suction

Pressure: _____ kPa

Equivalent temperature: _____ °C

Line temperature: _____ °C

Power consumption – evaporator fan motor: _____ W

Average power factor for the cooling test:* _____

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Does this model have a crankcase heater?*

Yes No

Off mode power consumption:* _____ W

Off mode power consumption at 20°C: _____ W
(only needs to be answered if you have ticked that this model has a crankcase heater)

Passive standby power consumption:* _____ W

Passive standby power mode description: _____

Indicate fan and any other settings for determination of rated capacity:*

Indicate method of obtaining fixed output on air conditioners with variable output capacity*
(only required if the model has variable output capacity)

