



PRODUCT APPLICATION QUESTIONS

AIR CONDITIONERS

AUSTRALIA

Per Greenhouse and Energy Minimum Standards (Air Conditioners above 65kW) Determination 2022

SEER Non-Multi Split Air Conditioners Above 65kW

March 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
4 March 2022	2.0	New determination. Added "Exemption" fields.
11 January 2021	1.0	Document created/finalised.

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 multi-split registrations, enter the model number of the outdoor unit.

FOR SINGLE MODELS	
Model Number:*	Brand:*
FOR FAMILY OF MODELS	
What is the family name of the models cov	ered by this application?*
Note: There is a limit of 10 model number(s) for t Standards (Air Conditioners above 65kW) Determ	red by this registration, if it is a family of models: the determination: Greenhouse and Energy Minimum nination 2022.
<u>#1</u>	<u>#2</u>
Model Number:*	Model Number:*
Brand:*	Brand:*
<u>#3</u>	<u>#4</u>
Model Number:*	Model Number:*
Brand:*	Brand:*
<u>#5</u>	<u>#6</u>
Model Number:*	Model Number:*
Brand:*	Brand:*
<u>#7</u>	<u>#8</u>
Model Number:*	Model Number:*
Brand:*	Brand:*
<u>#9</u>	<u>#10</u>
Model Number:*	Model Number:*
Brand:*	Brand:*

Manufacturing Information

☐ Tick if the product is manufac	tured in-house		
Please provide the following info house. Additional fields are inclu			
Manufacturer Name:*			
Manufacturer ABN or Company N	umber:*		
Name of Contact Person:*			
Company Phone:*	Company Fax	•	
Company Email:*	Company We	bsite:	
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 con Postal Address:* Suburb/Region:* Country:*	mplete the postal address Postal Code:*	<u>fields below:</u> State/Region:	
Manufacturer Name:*			
Manufacturer ABN or Company N	umber:*		
Name of Contact Person:*			
Company Phone:*	Company Fax	:	
Company Email:*	Company We	bsite:	
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:*	
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?*	

Sale Information

In what country/countries will this product be sold?* (please tick one or bo required)	th, if	☐ Australia ☐ New Zealand
When will this product be (or when was this product) first available for purchase?* (please specify exact date)		

LABS & TEST REPORTS

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.*

APPLICATION DETAILS

Is this a split system? (please tick one)		☐ Yes	☐ No
Indoor air distribution:* (please tick one)	☐ Ducted	☐ Non-	-ducted
Power supply:* (please tick one)	☐ Single-phase	☐ Thre	e-phase
If this is a split system, please provide details for each model			
Brand name:*			
Model number (system name):*			
Indoor unit model number:*			
Outdoor unit model number:*			
Brand name:*			
Model number (system name):*			
Indoor unit model number:*			
Outdoor unit model number:*			
Brand name:*			
Model number (system name):*			
Indoor unit model number:*			
Outdoor unit model number:*			
Brand name:*			
Model number (system name):*			
Indoor unit model number:*			
Outdoor unit model number:*			
Brand name:*			
Model number (system name):*			
Indoor unit model number:*			
Outdoor unit model number:*			

APPLIANCE DETAILS

Air conditioner type:* (please tick one)	iting only
☐ R124 ☐ R22 ☐ R143A ☐ R407 (A or C) ☐ R290 ☐ F	R123 R410A R404A
Type:* (please tick one) Window/wall	•
If your model is a non-ducted split system, please answer the following question:	
Non-ducted split system indoor unit mounting:	
□ Wall-hung □ Under ceiling □ Floor mounted □ Cassette □ Floor/Ceiling □ Portable split □ Packaged	
Heat source (heating):* (please tick one)	Air
Heat source (cooling):* (please tick one)	Air
Does this product use any form of solar boosting as defined in the Determination?*	☐ Yes ☐ No
Does the air conditioner contain a circumvention device that alters the operation during an energy test but that is not normally activated during normal use?*	☐ Yes ☐ No
Does this air conditioner have variable output capacity as per AS/NZS 3823.4?*	☐ Yes ☐ No
If you ticked yes to variable output capacity, please answer the following question:	
How is variable output contained? (as per AS/NZS 3823.4) (please tick one)	
☐ Two-stage ☐ Multi-stage (i.e. varied by 3 or 4 steps)	
☐ Variable (i.e. varied by 5 or more steps)	
ŗ	
If you ticked 'Variable', please answer the following question:	
Type of variable output compressor: (please tick one)	
☐ Inverter ☐ Digital scroll ☐ Other:	

Would you like to rate this air conditioner as a fixed speed product as per AS/N	ZS 3823.4?	☐ Yes ☐ No
If you selected 'unitary double duct – portable' under Type, please answer the following question: Does this air conditioner have a supplementary water tank and use a supplementary water evaporation feature that meets the requirements of AS/NZS 3823.1.5:2015, Appendix B?*	☐ Yes	□No
If you ticked yes to the previous question, please answer the following questions: How long does the water tank last for rating purposes?* Does the air conditioner turn off once the supplementary water tank is empty?*	 Yes	minutes
If you ticked 'Reverse cycle' or 'Heating only' under Air Conditioner Type, please answer the following question: Are you only providing H1 test results for the heating tests (i.e. no HSPF test results)?	☐ Yes	☐ No

TEST RESULTS

Please attach a test plan showing test unit configuration and piping configuration and lengths to this document.*

Test room type for the H2/H3 heating test: (please tide Enthalpy test room Calorimeter test (6 hours or 6 complete defrost cycle Shortened calorimeter room test (3 complete defroe Not applicable	es)	
Test type for other test points:* (please tick one) Calorimeter Enthalpy test room	☐ Simulation test	☐ Certification
If you ticked 'Simulation test' or 'Certification', pleas	se answer the following q	uestion:
NOTE: The GEMS Regulator must authorise the use of any purpose.	/ simulation software prior t	o it being used for this
Simulation Test Software / Certification Program na	ame:	
Please provide the following details about each test	unit:	
Test unit #1		
Serial number (indoor):*		
Serial number (outdoor):*(if relevant)		
Test date:*		
Test unit #2		
Serial number (indoor):*		
Serial number (outdoor):*(if relevant)		
Test date:*		
Test unit #3		
Serial number (indoor):*		
Serial number (outdoor):* (if relevant)		
Test date:*		

Test unit #4	
Serial number (indoor):*	
Serial number (outdoor):*(if relevant)	
Test date:*	
Test unit #5	
Serial number (indoor):*	
Serial number (outdoor):*(if relevant)	
Test date:*	
Average tooted veltage of indeed unit.	,
Average tested voltage of indoor unit:*	
Average tested voltage of outdoor unit:*(only required to be completed if model is a split system)	
Tested frequency of indoor unit:*	H;
Tested frequency of outdoor unit:*(only required to be completed if model is a split system)	Hz

COOLING TEST RESULTS

You only need to complete this section if your air conditioner is 'cooling only' or 'reverse cycle'.

Cooling power at Standard Cooling Capacity (T1):			
Rated effective power input:*			W
Tested cooling power input:*			W
Total cooling capacity at Standard Cooling Capacity (T1):			
Rated sensible cooling capacity:*			W
Rated dehumidifying effect:*			W
Tested total cooling capacity:*			W
You only need to complete this question if the model is a portable do supplementary water tank.	<u>uble d</u>	uct and the	<u>re is a</u>
Cooling power at Standard Cooling Capacity (T1) (With Supplementary	/ Wate	<u>r):</u>	
Rated effective power input:*			W
Tested cooling power input:*			
F			
You only need to complete this question if the model is a portable do supplementary water tank.	uble d	uct and the	<u>re is a</u>
Total cooling capacity at Standard Cooling Capacity (T1) (With Supple)	<u>menta</u> ı	ry Water):	
Rated total cooling capacity:*			W
Tested total cooling capacity:*			
Half capacity at the Standard Cooling Capacity test (T1):			
Do you have tested values for the half capacity test at the standard cooling capacity test conditions (T1)?		Yes	☐ No
16 tished 64-dalana an annua the fall anima annutions			
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*	_ W		
Rated effective power input:*	W		

Minimum capacity at the Standard Cooling Capacity test (T1):			
Do you have tested values for the minimum capacity at the standard cooling capacity test conditions (T1)?		Yes	☐ No
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*	_ W		
Tested effective power input:*	W		
Rated total cooling capacity:*	_ W		
Tested total cooling capacity:*	W		
Full capacity at the low temperature test:			·····
Do you have tested values for full capacity at the low temperature cooling capacity test conditions?		Yes	☐ No
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*	_ W		
Tested effective power input:*	W		
Rated total cooling capacity:*	_ W		
Tested total cooling capacity:*	W		
Half capacity at the low temperature test:			
Do you have tested values for half capacity at the low temperature cooling capacity test conditions?		Yes	☐ No
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*	_ W		
Tested effective power input:*	W		
Rated total cooling capacity:*	_ W		
Tested total cooling capacity:*	W		
*			
Minimum cooling capacity at the Low Temperature test:			
Do you have tested values for minimum capacity at the low temperate cooling capacity test conditions?	ture	Yes	☐ No
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*	_ W		
Tested effective power input:*	W		
Rated total cooling capacity:*	_ W		
Tested total cooling capacity:*	W		
Does this air conditioner rely on part load compliance to meet the co	oling	MEPS?*	∐ Yes

IC and the different and the second and the contract of the co	
If you ticked 'Yes' to the question above, please answer the following question:	
Will you use the half capacity test to meet MEPS?*	es 🗌
witt you use the nati capacity test to meet MLF3:	
If you ticked 'No' to the question above, please answer the following questions:	
Indicate the percentage of rated capacity used to verify MEPS:*	
Tested cooling power input used to verify MEPS compliance:*	
Indicate method of obtaining this part load capacity:*	
Does the air-cooled condenser evaporate the condensate?*	☐ Ye
Indicate fan and any other settings for determination of rated capacity:*	
Air flow rate:*	n
Air flow rate:*(only required to be completed if it is a 'ducted' model)	n
(only required to be completed if it is a 'ducted' model)	
	n
(only required to be completed if it is a 'ducted' model) Was the unit tested with an air filter fitted?* Only required to be completed if you ticked 'ducted' or 'both' for Indoor Air Distribution on the	Y
(only required to be completed if it is a 'ducted' model) Was the unit tested with an air filter fitted?* Only required to be completed if you ticked 'ducted' or 'both' for Indoor Air Distribution on the Appliance Details page)	Y
(only required to be completed if it is a 'ducted' model) Nas the unit tested with an air filter fitted?* Only required to be completed if you ticked 'ducted' or 'both' for Indoor Air Distribution on the Appliance Details page) Static pressure:*	Y
(only required to be completed if it is a 'ducted' model) Was the unit tested with an air filter fitted?* (Only required to be completed if you ticked 'ducted' or 'both' for Indoor Air Distribution on the Appliance Details page) Static pressure:* (only required to be completed if it is a 'ducted' model) Indicate method of obtaining fixed output on air conditioners with variable output cap	Y
(only required to be completed if it is a 'ducted' model) Was the unit tested with an air filter fitted?* (Only required to be completed if you ticked 'ducted' or 'both' for Indoor Air Distribution on the Appliance Details page) Static pressure:* (only required to be completed if it is a 'ducted' model) Indicate method of obtaining fixed output on air conditioners with variable output cap	Y

HEATING TEST RESULTS

You only need to complete this section if your air conditioner is 'heating only' or 'reverse cycle'. Does this model incorporate electric resistance heating?* Heating power at standard heating capacity (H1): Rated effective power input:*______ Tested heating power input:*_____ Heating capacity at standard heating capacity (H1): Rated total heating capacity:*______ W Half capacity at standard heating capacity test conditions (H1): Rated effective power input:*_____ W Tested heating power input:*______ W Rated total heating capacity:*______ W Tested heating capacity:* _____ W Minimum capacity at the standard heating capacity test conditions (H1): Yes Do you have tested values for the minimum capacity at the standard No heating capacity test conditions (H1)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*_____ W Tested heating power input:*_____ W Rated total heating capacity:*_____ W Tested total heating capacity:* _____

Extended capacity at low temperature heating capacity test conditions (H2)		☐ Yes	□No
Is this air conditioner capable of heating at extended-load operation for the low temperature heating capacity test (H2)?	or		
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*\	W		
Tested heating power input:*\	Ν		
Rated total heating capacity:*	W		
Tested heating capacity:* W			
Full capacity at low temperature heating capacity test conditions (H2)			
Do you have tested values for full capacity at the low temperature heating capacity test conditions (H2)?		Yes	☐ No
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*\	W		
Tested heating power input:*\	Ν		
Rated total heating capacity:*	W		
Tested heating capacity:* W			
Half capacity at low temperature heating capacity test conditions (H2)			
Half capacity at low temperature heating capacity test conditions (H2) Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)?		Yes	□No
Do you have tested values for half capacity at the low temperature		Yes	□ No
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions:	W	Yes	□ No
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*		Yes	□ No
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	W	Yes	□ No
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	W N W		
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	W N W		
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	W N W		
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	W W W		
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	W W W		
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	W W W		
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	W W W		
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	w w w rre		
Do you have tested values for half capacity at the low temperature heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions: Rated effective power input:*	w w w rre	Yes	□ No

Extended capacity at extra-low temperature heating capacity test conditions (H3)		□Yes	□No
Do you have tested values for extended capacity at the extra-low temperature heating capacity test conditions (H3)?			
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*	W		
Tested heating power input:*	W		
Rated total heating capacity:*	W		
Tested heating capacity:* W	/		
Full capacity at extra-low temperature heating capacity test condition			
(H3)		Yes	□No
Do you have tested values for full capacity at the extra-low temperatheating capacity test conditions (H3)?	ture	_	_
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*	W		
Tested heating power input:*	_ W		
Rated total heating capacity:*	W		
Tested heating capacity:* W	/	•	
Half capacity at extra-low temperature heating capacity test condition			
(H3)		Yes	□No
Do you have tested values for half capacity at the extra-low tempera heating capacity test conditions (H3)?	iture		
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*	W		
Tested heating power input:*	W		
Rated total heating capacity:*	W		
Tested heating capacity:* W	I		
	••••••		
Does this air conditioner rely on part load compliance to meet the he	ating	MEPS?*	☐ Yes ☐ No

If you ticked 'Yes' to the question above, please answer the following question:		
Will you use the half capacity H1 test to meet MEPS?*	☐ Yes	☐ No
If you ticked 'No' to the question above, please answer the following questions:		
Indicate the percentage of rated capacity used to verify MEPS:*		0/
Tested heating power input used to verify MEPS compliance:*		
Indicate method of obtaining this part load capacity:*		
Indicate fan and any other cettings for determination of rated canacitys*		
Indicate fan and any other settings for determination of rated capacity:*		
Air flow rate:*(only required to be completed if it is a 'ducted' model)		m³/:
(only required to be completed if it is a 'ducted' model)		
Static pressure:*(only required to be completed if it is a 'ducted' model)		Pa
(only required to be completed if it is a 'ducted' model)		
Indicate method of obtaining fixed output on air conditioners with variable output required to be completed for models with variable output capacity)	·	
Average true power factor for the heating test:*		

RESULTS AT RATED CAPACITY

Inactive energy use at 5 Degrees Celsius:*	V
Inactive energy use at 10 Degrees Celsius:*	W
Inactive energy use at 15 Degrees Celsius:*	W
Inactive energy use at 20 Degrees Celsius:*	V
DECLARATION FOR DEMAND RESPONSE CAPABILITY Does the model have a demand response capability?	☐ Yes ☐ No
If you ticked yes to demand response capability, please answer the following question: Which standard does the equipment meet? Unknown AS/NZS 4755.3.1:2012 AS/NZS 4755.3.1:2014	
MEPS COMPLIANCE Does this product meet all of the required minimum performance standards?*	☐ Yes