



PRODUCT APPLICATION QUESTIONS

AIR CONDITIONERS

AUSTRALIA

Per Greenhouse and Energy Minimum Standards (Air Conditioners up to 65kW) Determination 2019

SEER Multi-Split Air Conditioners Up to, and including, 65kW

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
27 January 2022	1.3	Added "Exemptions" fields. Improved accessibility.
4 June 2020	1.2	Updated "Declaration for Demand Response Capability" and branding.
3 February 2020	1.1	Removed DoEE logo for MoG changes –
20 September 2019	1.0	no change to content. Document finalised.
14 May 2019	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 multi-split registrations, enter the model number of the outdoor unit.

FOR SINGLE MODELS	
Model Number:*	Brand:*
FOR FAMILY OF MODELS	
,	odels covered by this application?*
Note: There is a limit of 10 model numb Standards (Air Conditioners up to 65kW	del covered by this registration, if it is a family of models: per(s) for the determination: Greenhouse and Energy Minimum /) Determination 2019
<u>#1</u>	<u>#2</u>
Model Number:*	
Brand:*	Brand:*
<u>#3</u>	<u>#4</u>
Model Number:*	
Brand:*	Brand:*
<u>#5</u>	<u>#6</u>
Model Number:*	
Brand:*	Brand:*
<u>#7</u>	<u>#8</u>
Model Number:*	Model Number:*
Brand:*	
<u>#9</u>	<u>#10</u>
Model Number:*	Model Number:*
Brand:*	Brand:*

Manufacturing Information Tick if the product is manufactured in-house Please provide the following information on the manufacturer if the product is not manufactured inhouse. 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 If you have ticked No, please complete the postal address fields below: Postal Address:* Suburb/Region:*______Postal Code:* _____ State/Region: _____ 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:* _____ Is the postal address the same as the street address?* Yes

No

If you have ticked No, please complet	e the postal address f	<u>ields below:</u>	
Postal Address:*			
Suburb/Region:*	Postal Code:*	State/Region: _	
Country:*			
<u>Third Manufacturer</u> If applicable, who is the third manufac			
Manufacturer Name:*			
Manufacturer ABN or Company Number	er:*		
Name of Contact Person:*			
Company Phone:*	Company Fax:		
Company Email:*	Company Web	site:	
Street Address:*			
Suburb/Region:*P	ostal Code:*	State/Region:	
Country:*			
Is the postal address the same as the			☐ Yes ☐ No
If you have ticked No, please complet			
Postal Address:*			
Suburb/Region:*	Postal Code:*	State/Region: _	
Country:*			
In what country/countries is this prod	uct manufactured?*		
Sale Information			
In what country/countries will this pro required)	duct be sold?* (please	e tick one or both, if	☐ Australia ☐ New Zealand
When will this product be (or when wa purchase?* (please specify exact date)		ailable for 	

LABS & TEST REPORTS

Is a test report provided?* Yes – a test report is provided (please ensure test report is provided with this form) No – no test report provided, but a summary report is provided
What test standard was used?* (please tick one) Simulation International or Regional Standard AHRI Certification AS/NZS 3823.1.4:2012 Eurovent Certification
If you ticked 'International or Regional Standard' please answer the following question: Please specify the international or regional standard: ————————————————————————————————————
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: *
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.*

APPLICATION DETAILS

Indoor air distribution:* (please tick one)	☐ Ducted	☐ Non-ducted	Both
Does this unit have a rated total cooling heating only unit) of greater than 30 kW?		capacity for a	☐ Yes ☐ No
Multi-split type:* (please tick one)	☐ Multiple split – Fixed	head Multiple	e split – VRF
If you indicated that the unit does not I capacity (for a heating only unit) greate as the type, please answer the following	er than 30kW, and you sele		
Are you seeking an exemption from phy capacity of <30 kW where the Australian year?*			
Yes No			
Power supply:* (please tick one)	☐ Single-phase	☐ Three-p	hase
Outdoor multi-split models			
Model name/number:*			

Indoor multi-split models

Model name/number:*
Mounting Type:* (please tick one)
Quantity:*
Individual rated cooling capacity as part of this combination:*
Model name/number:*
Mounting Type:* (please tick one)
Quantity:*
Individual rated cooling capacity as part of this combination:*
Model name/number:*
Mounting Type:* (please tick one)
Quantity:*
Individual rated cooling capacity as part of this combination:*
Model name/number:*
Mounting Type:* (please tick one)
Quantity:*
Individual rated cooling capacity as part of this combination:*
Model name/number:*
Mounting Type:* (please tick one)
Quantity:*
Individual rated cooling capacity as part of this combination:*
Does this combination of indoor units comply with the Determination?* — Yes — No

APPLIANCE DETAILS

Air conditioner type:* (please tick one)	Cooling only	☐ Reverse cycle	☐ Heating only
Refrigerant:* (please tick one) R152A R114 R502 R124 R22 R143A R3212560 R507 R14312555 R407C Other:	☐ R134 ☐ R407 (A ☐ R404	R32 (or C) R290 R125	☐ R123 ☐ R410A ☐ R404A
Does this product use any form of solar boosting	g as defined ir	n the Determination	?*
Does the air conditioner contain a circumvention an energy test but that is not normally activated		-	during Yes No
Does this air conditioner have variable output ca	apacity as per	AS/NZS 3823.4?*	☐ Yes ☐ No
If you ticked yes to variable output capacity, pl	ease answer t	he following questic	<u>)n:</u>
How is variable output contained? (as per AS/N Two-stage Multi-stage (i.e. varied by 3 or 4 steps) Variable (i.e. varied by 5 or more steps)	NZS 3823.4) (pl	ease tick one)	
If you ticked 'Variable', please answer the follow		<u>:</u>	
Type of variable output compressor: (please tide) Inverter Digital scroll Other:			
Would you like to rate this air conditioner as a fi	xed speed pro	oduct as per AS/NZS	5 3823.4? ☐ Yes ☐ No
If you ticked 'Reverse cycle' or 'Heating only' un have declared that your unit has a rated coolin capacity of greater than 30kW please answer t Are you only providing H1 test results for the h	ig capacity and he following q	d/or rated heating question:	☐ Yes ☐ No
L			

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 t ☐ Enthalpy test room ☐ Calorimeter test (6 hours or 6 complete defrost of the complete defrost o	cycles	
Test type for other test points:* (please tick one) Calorimeter Enthalpy test room	Simulation test	☐ Certification
If you ticked 'Simulation test' or 'Certification', plea	, .	
NOTE: The GEMS Regulator must authorise the use of ar purpose.		
Simulation Test Software / Certification Program n	name:	
Average tested voltage of indoor units:*		V
Average tested voltage of outdoor unit:*		V
Tested frequency of indoor units:*		Hz
Tested frequency of outdoor unit:*		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 total cooling capacity:*			W
Tested total cooling capacity:*			W
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
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 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		
<u> </u>			
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:* V	٧		
Rated total cooling capacity:*	W		
Tested total cooling capacity:*			
Minimum cooling capacity at the Low Temperature test:			
Do you have tested values for minimum capacity at the low temperatur cooling capacity test conditions?	re	Yes	□ No
If you ticked 'Yes' please answer the following questions:			
Rated effective power input:*\	Ν		
Tested effective power input:*	W		
Rated total cooling capacity:*V	V		
Tested total cooling capacity:*\			

Does this air conditioner rely on part load compliance to meet the cooling MEPS?)*	☐ Yes ☐ No
If you ticked 'Yes' to the question above, please answer the following question:		
Will you use the half capacity 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:*		%
Tested cooling power input used to verify MEPS compliance:*		W
Indicate method of obtaining this part load capacity:*		
Does the air-cooled condenser evaporate the condensate?* Indicate fan and any other settings for determination of rated capacity:*		☐ Yes ☐ No
Was the unit tested with an air filter fitted?* (Only required to be completed if you ticked 'ducted' or 'both' for Indoor Air Distribution o Appliance Details page)	n the	☐ Yes ☐ No
Indicate method of obtaining fixed output on air conditioners with variable output required to be completed for models with variable output capacity)	ut capacit	y:* (Only
Average true power factor for the cooling test:*		

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?* Yes No Heating power at standard heating capacity (H1): Rated effective power input:*______ W Tested heating power input:* Heating capacity at standard heating capacity (H1): Rated total heating capacity:*_____ W Tested 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): Do you have tested values for the minimum capacity at the standard Yes 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:* ______ W

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)?	res	
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 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:* W		
Rated total heating capacity:* W		
Tested heating capacity:* W		
Half capacity at low temperature heating capacity test conditions (H2)		
Do you have tested values for half capacity at the low temperature	□Yes	□No
heating capacity test conditions (H2)?	□ тез	
heating capacity test conditions (H2)? If you ticked 'Yes' please answer the following questions:	res	
If you ticked 'Yes' please answer the following questions:		
If you ticked 'Yes' please answer the following questions: Rated effective power input:*		
If you ticked 'Yes' please answer the following questions: Rated effective power input:*		
If you ticked 'Yes' please answer the following questions: Rated effective power input:*		
If you ticked 'Yes' please answer the following questions: Rated effective power input:*		
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If you ticked 'Yes' please answer the following questions: Rated effective power input:*		
If you ticked 'Yes' please answer the following questions: Rated effective power input:*		
If you ticked 'Yes' please answer the following questions: Rated effective power input:*	Yes	

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)?		□ 163	<u> </u>		
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:*					
	•••••				
Full capacity at extra-low temperature heating capacity test condition (H3)	<u>s</u>	-			
Do you have tested values for full capacity at the extra-low temperatue heating capacity test conditions (H3)?	re	∐ Yes	∐ No		
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 temperate heating capacity test conditions (H3)?	ure		NO		
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					
Does this air conditioner rely on part load compliance to meet the heating MEPS?* 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?*	<u>jues</u>	<u>uon.</u> □ Yes	□No		
		res			

If you ticked 'No' to the question above, please answer the following questions: Indicate the percentage of rated capacity used to verify MEPS:* Tested heating power input used to verify MEPS compliance:* Indicate method of obtaining this part load capacity:*	W
Indicate fan and any other settings for determination of rated capacity:*	
Indicate method of obtaining fixed output on air conditioners with variable output capacit required to be completed for models with variable output capacity)	ies: (Only
Average true power factor for the heating test:*	

RESULTS AT RATED CAPACITY Inactive energy use at 5 Degrees Celsius:* ______ W Inactive energy use at 10 Degrees Celsius:* _____ W Inactive energy use at 15 Degrees Celsius:* ______ W Inactive energy use at 20 Degrees Celsius:* _____ W **DECLARATION FOR DEMAND RESPONSE CAPABILITY** Does the model have a demand response capability? Yes 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