

Product application checklist

Please complete in BLOCK CAPITALS

Air to Air Heat P	umps. Split	. Multi-Sı	olit and	VRF

Manufac	cturer/supplier name:
Applican	t's name:
Telephor	ne number:
Product	information
Product	name:
Model n	umber:
	omplete each section of this form based on your product's characteristics. Incomplete or incorrect data could affect the processing product application.
	duct application should be made on a separate form unless a product's design characteristics are common to all the products. stance a single application can be made for multiple products.
1.	Product testing and certification No Yes
	type testing has been applied to demonstrate product performance please ensure that the information supplied is sufficient constrate the performance of all the products for which applications are being made.
1.1	Does the product have an appropriate Conformity Assessment mark?
1.2	How was the product(s) performance tested? (Please select one).
	 Tested in the manufacturer's in-house laboratory, in accordance with a registered Quality Management System (i.e. 'self-tested').
	b) Tested in a laboratory either in house or on-site, witnessed by an independent body (i.e. 'witnessed testing').
	c) Tested by an independent laboratory (i.e. 'independent testing').
	d) Representative testing
	Please refer to Section 2 of ECA Guidance Note 5 "ECA Testing Programme: Energy Technology List (ETL) Product Testing Framework" for details of the requirements that must be satisfied for each of these product testing options.
1.3	Where product testing has been done in accordance with a registered Quality Management System, what is its registration number?
1.4	Where a representative sample of the test data has been cross-checked and verified by an independent body:
	a) What is the name of the independent laboratory?
	b) What is the laboratory's registration number (where accredited)?

1.	Product testing and certification (continued)	No	Yes			
1.5	Where product testing has been witnessed by an independent body, what was the name of the witness? (Please include contact details).					
1.6	Where products have been tested by an independent laboratory:					
	a) What is the name of the independent laboratory?					
	b) What is the laboratory's registration number (where accredited)?					
1.7	Is the application for: (Please select one).					
	a) A single unique product – in this case go to 2.1					
	b) A range of products, which are variants of the same basic design					
	c) One or more additional models to a range of products already on the ETPL					
	Products will only be considered to be variants of the same basic design, if they:					
	Use the same refrigerant as the representative model.					
	 Have the same compressor type (i.e. manufacturer, method of compression (e.g. reciprocating or scroll) and type of enclosure (e.g. hermetic or semi-hermetic) as the representative model. 					
	 Fit within the same product category and are designed for the same application (i.e. are all low temperature air to water heat pumps designed for space heating only). 					
1.8	If representative testing has been used, what are the 'representative models'?					
	ETL Product ID number Product name and model number					
			•			
	The representative models must be selected by dividing the range of products into groups of models with similar design characteristics, and testing a model in each group. The performance of each model in the group must be predicted using a validated mathematical model. As a minimum, at least one model must be tested in each group of products.					
	A report documenting performed model calculations, showing all significant calculation steps, shall be submitted with the application.					

2. No Yes Product type 2.1 Product Category: (Please select one). a) Single split (non-VRF) heat pumps b) Multi-split (non-VRF) heat pumps c) VRF heat pumps 2.2 What application is your product designed for: a) Space heating only b) Space cooling only c) Space heating and cooling 3. No Yes **Product features** 3.1 Please provide the products rated heating capacity: If the product provides cooling, please provide the rated cooling capacity: 3.2 3.3 Does the product Incorporate an electrically driven refrigeration system that uses a refrigerant which has a Global Warming Potential (GWP) ≤ 750? Does the product consist of an 'outdoor' unit and one or more 'indoor' units that are: 3.4 a) Factory-built sub-assemblies b) Supplied as a matched set of units c) Designed to be connected together during installation Does the product designed, and include fittings for, permanent installation? 3.5 Is the product a heat pump driven air curtain, with multiple indoor units? (i.e. a multi-split heat pump) 3.6 (If no please skip 3.7) 3.7 Can the air curtain: a) Be specifically designed to be fitted above a doorway or similar opening. b) Be designed to use electrical air heaters (where fitted) only during defrosting or heat pump failure. 4. Information requirements No Yes 4.1 Does the product incorporate 'smart features' (Specifically this includes the capability to provide information on whether the products are smart ready without the replacement or addition of any hardware) such as: a) Demand Side Response Ready b) Data Collection Ready

5. Product performance (Only answer if products > 12 kW) No Yes 5.1 Does the product have a rated capacity greater than 12 kW? (If no, please skip to Section 6)

- 5.2 Has the performance data for units with cooling capacity > 12 kW, and all non-VRF products been determined in accordance with requirements of Commission Regulation (EU) No 2016/2281 Annex III, and the harmonised standard BS EN 14825:2018?
- 5.3 Is the Seasonal Space Heating Energy Efficiency $(\eta_{s,h})$ of your product equal to or greater than the thresholds displayed for the product category? (as set out in Table 1)
- 5.4 Please state the Seasonal Space Heating Energy Efficiency $(\eta_{s,h})$ of your product (as defined by Ecodesign Commission Regulation (EU) 2016/2281):
- Is the Seasonal Space Cooling Energy Efficiency $(\eta_{s,c})$ of your product equal to or greater than the thresholds displayed for the product category? (as set out in Table 1)
- Please state the Seasonal Space Cooling Energy Efficiency ($\eta_{s,c}$) of your product (as defined by Ecodesign Commission Regulation (EU) 2016/2281):

Table 1 Performance requirements for air to air heat pumps, split, multi-split and VRF > 12 kW

		Rated Cooling Capacity > 12 kW		
		Product Category	Heating mode (η _{s,h})	Cooling mode $(\eta_{s,c})$
	1	Single split (non-VRF) heat pumps	≥ 157%	≥ 230%
	2	Multi-split (non-VRF) heat pumps	≥ 185%	≥ 270%
	3	VRF heat pumps	≥ 161%	≥ 250%

^{&#}x27;≥' means 'greater than or equal to'

For the avoidance of doubt test data should be presented to three significant figures.

Please note that performance data obtained in accordance with the procedures and standard and conditions laid down in BS EN 14825:2016 will be accepted as an alternative to testing in accordance with BS EN 14825: 2018 until further notice.

- 5.7 Please provide the Seasonal Coefficient of Performance (SCOP) of the product (as defined by Ecodesign Commission Regulation (EU) 206/2012):
- 5.8 Please provide the Seasonal Energy Efficiency Ratio (SEER) of the product (as defined by Ecodesign Commission Regulation (EU) 206/2012):
- 5.9 Does the product have an outlet air velocity uniformity (uACU), as defined in Section 5.4.4 of BS ISO 27327-1: 2009, greater than or equal to 70% over the range of doorway/opening heights that they are designed to be fitted above.

(Only answer if the product is an eligible heat pump driven air curtain 'indoor' units for multi-split heat pump)

6.	Product performance (Only answer if products ≤ 12 kW)	No	Yes
6.1	Is the Seasonal Coefficient of Performance (SCOP) of your product equal to or greater than the thresholds displayed for the product category? (as set out in Table 2)		
6.2	Has the performance data for non-VRF products with a cooling capacity ≤ 12 kW, been determined in accordance with requirements of Commission Regulation (EU) No 206/2012 Annex II, and the harmonised standard BS EN 14825:2018?		
6.3	Please provide the Seasonal Coefficient of Performance (SCOP) of the product (as defined by Ecodesign Commerce (BU) 206/2012):	mission	
6.4	Is the Seasonal Energy Efficiency Ratio (SEER) of your product equal to or greater than the thresholds displayed for the product category? (as set out in Table 2)		
6.5	Please provide the Seasonal Energy Efficiency Ratio (SEER) of the product (as defined by Ecodesign Commission (EU) 206/2012):	on	

Table 2 Performance requirements for air to air heat pumps, split, multi-split and VRF ≤ 12 kW

	Rated Cooling Capacity ≤ 12 kW			
	Product Category	Heating mode (SCOP)	Cooling mode (SEER)	
1	Single split (non-VRF) heat pumps	≥ 4.30		
2	Multi-split (non-VRF) heat pumps		≥ 6.60	
3	VRF heat pumps			

^{&#}x27;≥' means 'greater than or equal to'

For the avoidance of doubt test data should be presented to three significant figures.

Please note that performance data obtained in accordance with the procedures and standard and conditions laid down in BS EN 14825:2016 will be accepted as an alternative to testing in accordance with BS EN 14825: 2018 until further notice.

- 5.7 Please state the Seasonal Space Heating Energy Efficiency $(\eta_{s,h})$ of your product (as defined by Ecodesign Commission Regulation (EU) 2016/2281):
- 5.8 Please state the Seasonal Space Cooling Energy Efficiency ($\eta_{s,c}$) of your product (as defined by Ecodesign Commission Regulation (EU) 2016/2281):
- 5.9 Does the product have an outlet air velocity uniformity (u_{ACU}), as defined in Section 5.4.4 of BS ISO 27327-1: 2009, greater than or equal to 70% over the range of doorway/opening heights that they are designed to be fitted above.

(Only answer if the product is an eligible heat pump driven air curtain 'indoor' units for multi-split heat pump)

7. Summary of documents to be included

No

Yes

Please send ONE copy of each of the following documents:

If the relevant information in support of the questions above is contained within a larger document, please indicate the location of the relevant information. Note that all documentation submitted must directly refer to the model numbers for which you are making this application. Documentation should be added to your online application at https://etl.beis.gov.uk/engetl/fox/live/ETL_LOGIN/login

- a) A technical sales brochure or leaflet for the product clearly summarising:
 - i) The key features of the product (ideally including photographs of the product's exterior).
 - ii) The product's operation (i.e. in-built functionality) and intended applications (i.e. usage).
 - iii) Any product selection options (including optional extras, alternative configurations etc.).

This documentation should contain sufficient detail to enable the assessor to confirm that the proposed entry on the Energy Technology Product List (ETPL) is correct, and uniquely represents a single product of fixed design (as defined by the rules of the ETL). If the model names contain any 'wildcards' in respect of cosmetic variations please check with ETL Questions that this is permitted before submitting your application

- b) A technical specification for the product, including:
 - i) Details of the model numbers covered (including individual features of each model).
 - ii) The product's design ratings (electrical, mechanical, thermal, flow rates, energy use etc.).
 - iii) A description of how to install the product including connection/wiring diagrams. Where the product must be assembled, configured and/or commissioned on site before use, please include instructions.

This documentation should contain sufficient detail to enable the assessor to confirm that each product entry on the ETL has the design features specified in the eligibility criteria for that category of product. Please indicate on the checklist where information on specific design features is located in the documentation.

- c) Evidence that the products the performance criteria, including:
 - Performance data for units with cooling capacity greater than 12 kW, and all non-VRF products should be obtained in accordance with requirements of Commission Regulation (EU) No 2016/2281 Annex III, and the harmonised standard BS EN 14825:2018.
 - ii) Performance data for non-VRF products with a cooling capacity less than or equal to 12kW should be determined following the requirements of Commission Regulation (EU) No 206/2012 Annex II, and the harmonised standard BS EN 14825:2018.
 - iii) The detailed calculation used to determine the SCOP & SSHEE and SEER & SSCEE for example a copy of the completed MCS 026 SCOP and SSHEE calculator for the product if it is an MCS certified product.
 - iv) A heating mode test report and a cooling mode test report as specified in Table 1.2 or Table 1.3 of the ETL criteria for Air-to-air split, multi-split and VRF heat pump. The testing should be carried out in accordance with the procedures in Commission Regulation (EU) No 2016/2281 for units > 12 kW or Commission Regulation (EU) No 206/2012 for units < 12 kW and the harmonised standard BS EN 14825:2018. Performance data obtained in accordance with the procedures and standard and conditions laid down in BS EN 14825:2016 will be accepted as an alternative to testing in accordance with BS EN 14825: 2018 until further notice.
 - v) Details of the test procedures/standards used to determine product performance.
 - vi) A declaration certifying the accuracy of the test reports and confirming that:
 - The test facilities used comply with the minimum specifications outlined in the test standard, and the required test conditions were applied during testing.
 - All measurement equipment used in testing was calibrated by an accredited laboratory, or its calibration is otherwise traceable back to national standards.
 - Appropriate quality assurance procedures have been used to verify or cross-check the accuracy and repeatability of the test procedures and test results.

Where representative testing has been used, please include details of selection method used and evidence that the products covered by the representative model(s) are variants of the same basic design.

Please note that summary test reports will only be accepted where the accuracy of the test reports has been certified by a recognised independent body, or where one detailed test report has been submitted per product range.

Please refer to ETL Guidance Note 5 "ETL Testing Programme: Energy Technology List (ETL) Product Testing Framework Issue 3 (July 2014)" for further guidance on the submission of test results, and minimum information requirements.

- d) A Declaration of Conformity with UK/EU Directives on product safety, including:
 - i) An appropriate Conformity Assessment mark.
- e) Evidence that a quality assurance system/procedures is/are in place to control the specification, design, manufacturing and testing of the products.
- f) Signed application checklist.

Please note that all product documentation provided must be written in, or translated into, English.

8. Declaration

I confirm that the information given above is correct to the best of my knowledge and that I have read and agree to the terms and conditions governing the management of the Energy Technology List.

A copy of the terms and conditions can be found at www.gov.uk/guidance/energy-technology-list.

Signature:	Date:	
signature.	Date.	

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