



Energy Technology List

Product application checklist

Please complete in BLOCK CAPITALS

Water to Air Heat Pumps, Multi-split VRF

Manufacturer/supplier name:

ETL licence number (if applicable):

Applicant's name:

Telephone number:

Product information

Product name:

Model number:

Please complete each section of this form based on your product's characteristics. Incomplete or incorrect data could affect the processing of your product application.

Each product application should be made on a separate form unless a product's design characteristics are common to all the products. In this instance a single application can be made for multiple products.

1. Product testing and certification

No Yes

Where type testing has been used to demonstrate product performance please ensure that the information supplied is sufficient to demonstrate the performance of all 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)

- a) 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 ETL Guidance Note 5 "ETL 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 product testing has been witnessed by an independent body, what was the name of the witness? (Please include contact details).

1. Product testing and certification (continued)	No	Yes
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1.5 Where products have been tested by an independent laboratory:

a) What is the name of the independent laboratory?

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b) What is the laboratory's registration number (where accredited)?

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1.6 If representative testing has been used, what are the 'representative models'?

ETL Product ID number

Product name and model number

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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 range of products and in each group.

A report documenting performed model calculations, showing all significant calculation steps, shall be submitted with the application.

2. Product type	No	Yes
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2.1 What type of heat pump is your product?

a) Multi-split VRF heat pumps.

3. Product features	No	Yes
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3.1 Is the product designed to use an internal water loop as a heat source?

3.2 Does the product consist of an 'outdoor' unit and one or more 'indoor' units that are

a) Factory-built sub-assemblies.

b) Supplied as a matched set of units

c) Designed to be connected together during installation using refrigerant pipework

3.3 Does the product incorporate an electrically driven refrigeration system that uses a refrigerant which has a Global Warming Potential (GWP) ≤ 750?

3.4 Is the product designed for, and include fittings for, permanent installation?

3.5 Rated heating capacity of the product (kW):

.....

3.6 Rated cooling capacity of the product (kW) (if the product provides cooling):

.....

4. Information requirements		No	Yes
4.1	<p>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:</p> <ul style="list-style-type: none"> a) Demand Side Response Ready b) Data Collection Ready 		
4.2	Please provide the Seasonal Coefficient of Performance (SCOP) of the product:		
4.3	Please provide the Seasonal Energy Efficiency Ratio (SEER) of the product (only answer if product provides cooling):		

5. Product performance		No	Yes						
5.1	<p>Is the Seasonal Space Heating Energy Efficiency ($\eta_{s,h}$) of your product greater than performance thresholds for the product category (as set out in Table 1 below), across the range of connected capacities, including 100% (full) load?</p> <p><i>Products should be tested in accordance with Ecodesign Commission Regulation (EU) 2016/2281, consistent with BS EN 14825:2022</i></p>								
5.2	Please state your product’s Seasonal Space Heating Energy Efficiency ($\eta_{s,h}$):								
5.3	Is the product designed to provide cooling?								
5.4	<p>Is the Seasonal Space Cooling Energy Efficiency ($\eta_{s,c}$) of your product greater than performance thresholds for product category (as set out in Table 1 below)? (only answer if product provides cooling)</p> <p><i>Products should be tested in accordance with Ecodesign Commission Regulation (EU) 2016/2281, consistent with BS EN 14825:2022</i></p>								
5.5	<p>Table 1 Performance thresholds for air-cooled condensing units at the UK rating points</p> <table border="1"> <thead> <tr> <th>Product category</th> <th>Heating mode ($\eta_{s,h}$)</th> <th>Cooling mode ($\eta_{s,c}$)</th> </tr> </thead> <tbody> <tr> <td>Multi-split VRF heat pumps</td> <td>$\geq 210\%$</td> <td>$\geq 225\%$</td> </tr> </tbody> </table> <p>‘\geq’ means ‘greater than or equal to’</p> <p><i>Please note that performance data obtained in accordance with the procedures and conditions laid down in BS EN 14825:2016 and BS EN 14825:2018 will be accepted as an alternative to testing in accordance with BS EN 14825:2022 until further notice.</i></p>	Product category	Heating mode ($\eta_{s,h}$)	Cooling mode ($\eta_{s,c}$)	Multi-split VRF heat pumps	$\geq 210\%$	$\geq 225\%$		
Product category	Heating mode ($\eta_{s,h}$)	Cooling mode ($\eta_{s,c}$)							
Multi-split VRF heat pumps	$\geq 210\%$	$\geq 225\%$							
5.6	Please state your product’s Seasonal Space Cooling Energy Efficiency ($\eta_{s,c}$):								
5.7	Are seasonal energy efficiency metrics measured for the ‘Average’ heating season, as defined by Ecodesign Commission Regulation (EU) 813/2013 and the harmonised standard BS EN 14825:2022?								

6. 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 ETPL 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 product meets the performance criteria, including:
- i) Test reports showing product performance at the standard rating/test conditions.
 - ii) Details of the test procedures/standards used to determine product performance.
 - iii) 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.

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 and per laboratory used. Please see the "Energy Technology List (ETL) Product Testing Framework" 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:
- i) 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.

7. 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:

For more information:

Web:
<https://etl.beis.gov.uk/>

Phone:
+44 20 3096 4800

Email:
info@etl.beis.gov.uk

Post:
Energy Technology List Coordinator
ICF
Riverscape
3rd Floor 10 Queens Street Place
London
EC4R 1BE

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