

Product application checklist

Please complete in BLOCK CAPITALS

Heat Pumps: Air source: Split and multi-split (including variable refrigerant flow)

Manufacturer/supplier name: _____

ETL licence number (if applicable): _____

Applicant's name: _____

Telephone number: _____

Product information

Application reference: _____

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 checklist 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 Is the product CE Marked?

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').

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 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
1.5	<p>Where products have been tested by an independent laboratory:</p> <p>a) What is the name of the independent laboratory?</p> <p>.....</p> <p>b) What is the laboratory's registration number (where accredited)?</p> <p>.....</p>		
2. Product type		No	Yes
2.1	<p>What type of heat pump is your product? (tick one).</p> <p>a) Air source: single split (non-VRF) heat pump ≤12 kW cooling capacity. <input type="checkbox"/></p> <p>b) Air source: single split (non-VRF) heat pump >12 kW. <input type="checkbox"/></p> <p>c) Air source: dual split (non-VRF) heat pumps ≤ 12 kW cooling capacity. <input type="checkbox"/></p> <p>d) Air source: dual split (non-VRF) heat pump > 12 kW. <input type="checkbox"/></p> <p>e) Air source: multi-split (non-VRF) heat pump s ≤ 12 kW cooling capacity <input type="checkbox"/></p> <p>f) Air source: multi-split (non-VRF) heat pump > 12 kW. <input type="checkbox"/></p> <p>g) Air source split or multi-split variable refrigerant flow (VRF) heat pump. <input type="checkbox"/></p>		
3. Product features		No	Yes
3.1	Does the product incorporate an electrically driven refrigeration system?	<input type="checkbox"/>	<input type="checkbox"/>
3.2	Does the product consist of an 'outdoor' unit and one or more 'indoor' units that are:		
	a) Factory-built sub-assemblies.	<input type="checkbox"/>	<input type="checkbox"/>
	b) Supplied as a matched set of units.	<input type="checkbox"/>	<input type="checkbox"/>
	c) Designed to be connected together during installation using refrigerant pipework.	<input type="checkbox"/>	<input type="checkbox"/>
3.3	Is the product designed for, and include fittings for, permanent installation?	<input type="checkbox"/>	<input type="checkbox"/>
4. Product performance		No	Yes
4.1	<p>Is the Coefficient of Performance (COP) of your product greater than performance thresholds for product category (as set out in Table 1 below), across the range of connected capacities, including 100% (full) load or is the Seasonal Coefficient of Performance (SCOP) of your product equal to or greater than the performance threshold for the product category (as set out in Table 1 below)</p> <p><i>Products should be tested in accordance with BS EN 14511: 2011 at the rating condition given in EN 14511-2:2011 Table 3 Standard rating Conditions, Outdoor air/recycled air or Table 19 Standard rating conditions as applicable. Except for non-VRF products with cooling capacity ≤ 12 kW cooling capacity (or heating capacity ≤ 12 kW for heating only products) where performance should be determined following the requirements of Commission Regulation (EU) No 206/2012, Annex II. Testing should be carried out in accordance with BS EN 14825:2012 Table 6 Average heating conditions.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
4.2	<p>Is the Energy Efficiency Ratio (EER) of your product greater than performance thresholds for product category (as set out in Table 1 below), across the range of connected capacities, including 100% (full) load or is the Seasonal Energy Efficiency Ratio (SEER) of your product equal to or greater than the performance threshold for the product category (as set out in Table 1 below)</p> <p><i>Products should be tested in accordance with BS EN 14511: 2011 at the rating condition given in EN 14511-2:2011 Table 4 Standard rating Conditions, Comfort Outdoor air/recycled air or Table 20 Standard rating conditions as applicable. Except for non-VRF products with cooling capacity ≤ 12 kW cooling capacity where performance should be determined following the requirements of Commission Regulation (EU) No 206/2012, Annex II. Testing should be carried out in accordance with BS EN 14825:2012 Table 2.</i></p>		

4. Product performance (continued)**No****Yes****Table 1 Performance thresholds for Air source: split and multi-split heat pumps.**

Rated cooling capacity Product category	>12kW		<=12kW	
	Heating mode (COP)	Cooling mode (EER)	Heating mode (SCOP)	Cooling mode (SEER)
Air source: single split (non VRF) heat pumps	>3.70	>3.20	≥4.00	≥6.10
Air source: dual split (non VRF) heat pumps	>3.70	>3.20	≥4.00	≥6.10
Air source: multi-split (non VRF) heat pumps	>3.70	>3.20	≥4.00	≥6.10
Air source: split or multi-split, variable refrigerant flow (VRF) heat pumps	>3.80	>3.40	N/A	N/A

Please note that performance data obtained in accordance with the corresponding procedures and standard rating conditions laid down in BS EN 14511: 2004 or BS EN 14511: 2007 will be accepted as an alternative to testing in accordance with BS EN 14511: 2011 until further notice.

Withdrawn

5. 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 <http://etl.decc.gov.uk/etl>

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 ECA Scheme). If the model names contain any 'wildcards' in respect of cosmetic variations please check with ECA 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 Energy Technology Product List (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

Or for non-VRF products ≤ 12 kW capacity, a copy of the detailed technical documentation for the product as specified in Commission Regulation (EU) No 206/2012 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for air conditioners and comfort fans.. Where this includes calculated results, details of such calculations and/or extrapolations, and of tests undertaken to verify the accuracy of the calculations (including details of the mathematical model for calculating performance and of measurements taken to verify this model) must be included.

- 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 where 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 two detailed test reports have been submitted per product range and per laboratory used.

Please refer to Section 4 of ECA Guidance Note 5 "ECA Testing Programme: Energy Technology List (ETL) Product Testing Framework" for further guidance on the submission of test results, and minimum information requirements.

d. i) For non-VRF air source split and multi-split products less than or equal to 12 kW, applications should be accompanied by technical data for the product as specified in Commission Regulation (EU) No 206/2012 Annex I, Section 3, Table 1 (measured/calculated in accordance with Annex II). This should be in the tabular format given in Annex I. The manufacturer should state whether this information is based on testing or calculation.

- ii) If the data is based on testing, the manufacturer should ensure Sections 1 and 3 of this application checklist (above) are completed. A full test report should be provided for at least one of the products being applied for, to confirm the accuracy of the data provided in tabular form.

5. Summary of documents to be included (continued)	No	Yes
iii) If the data in the table is based on calculation/extrapolation, details of such calculations and/or extrapolations, and of tests undertaken to verify the accuracy of the calculations undertaken (including details of the mathematical model for calculating performance) and of measurements taken to verify this model should be supplied. In this case, one or more full test reports should be submitted to verify the test data used to confirm the quality of the calculations and extrapolations (In this case, the test reports do necessarily need to be for products being applied for).		<input type="checkbox"/>
e. A Declaration of Conformity with EU Directives on product safety, including:		<input type="checkbox"/>
i) CE Marking Directives.		<input type="checkbox"/>
f. Evidence that a quality assurance system/procedures is/are in place to:		<input type="checkbox"/>
i) Control the specification, design, manufacturing and testing of the products.		<input type="checkbox"/>
g. Signed application checklist.		<input type="checkbox"/>
<i>Please note that all product documentation provided must be written in, or translated into, English.</i>		

6. 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 Enhanced Capital Allowance Energy Technology List (ETL).

A copy of the terms and conditions can be found at <http://etl.decc.gov.uk/etl>

Signature: _____ Date: _____

For more information:

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An independent expert company originally established by the Government to help the UK meet its climate change obligations through business-focused solutions to carbon reduction, the Carbon Trust receives funds from the Department of Energy and Climate Change (DECC), the Scottish Government and the Welsh Government.

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