

## Product application checklist

Please complete in BLOCK CAPITALS

### Heat Pumps: Dehumidifiers

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 applied to demonstrate product performance please ensure that the information supplied is sufficient to demonstrate the performance of all the products for which applications are being made.

1.1 Is your product CE Marked?

1.2 Has your product been performance tested in accordance with the procedures laid down in BS EN 810:1997?

1.3 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.

1.4 Where product testing has been done in accordance with a registered Quality Management System, what is its registration number?

1.5 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
1.6	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 single unique product – in this case go to 2.1.		
	A range of products, which are variants of the same basic design.		
	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:		
	<ul style="list-style-type: none"><li>• Use the same refrigerant as the representative model.</li><li>• 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.</li><li>• Use the same defrosting method (e.g. hot gas defrost).</li><li>• Consist of the same number of units (e.g. are all single packaged units).</li></ul>		
1.8	If representative testing has been used, what are the "representative models"?		

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### ETL Product ID number

## Product model numbers

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 two models must be tested in each range of products and in each location (i.e. laboratory or factory) used for product testing.

2. Product features		No	Yes
2.1	<b>Is the product (Please select one):</b>		
	a) A single packaged unit?		
	b) Consist of two or more factory built sub-assemblies that are designed to be connected together during installation?		
2.2	<b>Is the product designed</b>		
	a) For, and include fittings for, permanent installation within a building?		
	b) To be connected to compressed air systems?		
	<i>Products that are designed to be connected to compressed air systems are not eligible.</i>		
2.3	<b>Does the product:</b>		
	a) Incorporate an electrically driven refrigeration system that is designed to remove water vapour from the surrounding atmosphere, as the air is recirculated through the product?		
	b) Recover both sensible and latent heat released during dehumidification, and use it to heat the air as it leaves the product and/or for other useful purposes (such as water heating)?		
	c) Incorporate a control system that monitors the relative humidity of the surrounding atmosphere, and automatically switches off dehumidification, or modulates the rate of dehumidification, when the relative humidity falls below a preset value?		
	d) Have a dehumidification capacity greater than or equal to 0.625 litres per hour?		

3. Product performance		No	Yes
3.1	<b>What is the dehumidification capacity of the product (in litres/hour)?</b>		
	<i>Dehumidification capacity must be determined at the appropriate rating test conditions for the type of product (or intended application) as set out in Tables 2, 3 and 4 of BS EN 810:1997.</i>		
3.2	<b>What is the dehumidification efficiency ratio (DER) of the product (in litres/h.kW)?</b>		
	<i>The product's dehumidification efficiency ratio must be determined at an air inlet temperature of 27 degrees Centigrade (dry bulb) and 21 degrees Centigrade (wet bulb) and, where applicable, include the corrections for the power input of fans and water pumps specified in section 4.1 of BS EN 810:1997.</i>		

## 4. 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.decc.gov.uk>.

- 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.
  - iv) 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.

*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.
  - 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 complied 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.
  - iv) 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 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. A Declaration of Conformity with EU Directives on product safety, including:
  - i) CE Marking Directives.
- 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.*

## 5. 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 <https://www.gov.uk/guidance/energy-technology-list>

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

### For more information:

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