Energy Technology List
ECA SCHEME

CARBON TRUST

Product application checklist

Please complete in BLOCK CAPITALS

Heat Pumps: Water or Brine to Water Heat Pumps

Manufacturer/supplier name: .....

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	**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').		☐
	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 product testing has been witnessed by an independent body, what was the name of the witness?** *(Please include contact details).*		

1.5 **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 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 features	No	Yes
2.1	**Does the product consist of a single factory built unit?**	☐	☐
2.2	**Does the product incorporate an electrically driven refrigeration system?**	☐	☐
2.3	**Is the product designed to use an indirect, closed-loop ground heat exchanger; an indirect, closed-loop surface water heat exchanger; or a direct, open-loop ground or surface water heat source?**	☐	☐
2.4	**Is the product designed for and includes fittings for permanent installation?**	☐	☐

3.	Product performance	No	Yes
3.1	**Is the Seasonal Space Heating Energy Efficiency (*ηs,h*) greater than the performance thresholds (as set out in Table 1)?** *Products should be tested in accordance with the requirements of the Commission Regulation (EU) No 813:2013.*	☐	☐
3.2	**Is the product designed to provide cooling?** *If no, proceed to Section 4*	☐	☐
3.3	**Is the Seasonal Energy Efficiency Ratio (SEER) for average climate conditions greater than the performance thresholds (as set out in Table 1)?** *Products should be tested in accordance with the requirements of the Commission Regulation (EU) No 813:2013.*	☐	☐

Table 1: Performance thresholds for water or brine to water heat pumps

	Product Category	Heating mode (*ηs,h)*	Cooling mode (SEER)
1	Brine to water heat pumps	≥175%	≥5.00
2	Water to water heat pumps	≥185%	≥5.00

"≥" means "greater than or equal to"

Please note that performance data, for heating mode COP only, obtained in accordance with the corresponding procedure laid down in BS EN 14825:2016 and standard rating conditions laid down in Table 12 BS EN 14825:2013 will be accepted as an alternative to testing in accordance with Table 24 BS EN 14825:2016, until further notice.

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.beis.gov.uk/engetl/fox/live/ETL_PUBLIC_PRODUCT_SEARCH.

a. A technical sales brochure or leaflet for the product clearly summarising:

vi) 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 'wild cards' 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 specific design feature information 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.

Please refer to 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: .....

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