



# Energy Technology List

## Product application checklist

Please complete in BLOCK CAPITALS

### Close Control Air Conditioning

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
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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 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 the manufacturer's in-house laboratory, in accordance with a registered Quality Management System and a representative sample of the test data has been cross-checked and verified by an independent body (i.e. 'self-tested and verified or cross-checked by an independent body')
- c) Tested in a laboratory either in house or on-site, witnessed by an independent body (i.e. 'witnessed testing')
- d) Tested by an independent laboratory (i.e. 'independent testing')
- e) Representative model/s used

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. Product testing and certification (continued)		No	Yes																				
1.4	<p><b>Where a representative sample of the test data has been cross-checked and verified by an independent body:</b></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>																						
1.5	<p><b>Where product testing has been witnessed by an independent body, what was the name of the witness?</b> (Please include contact details).</p> <p>.....</p>																						
1.6	<p><b>Where products have been tested by an independent laboratory:</b></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>																						
1.7	<p><b>If representative testing has been used, what are the 'representative models'?</b></p> <table border="1"> <thead> <tr> <th>ETL Product ID number</th> <th>Product name and model number</th> </tr> </thead> <tbody> <tr><td>.....</td><td>.....</td></tr> <tr><td>.....</td><td>.....</td></tr> <tr><td>.....</td><td>.....</td></tr> <tr><td>.....</td><td>.....</td></tr> <tr><td>.....</td><td>.....</td></tr> <tr><td>.....</td><td>.....</td></tr> <tr><td>.....</td><td>.....</td></tr> <tr><td>.....</td><td>.....</td></tr> <tr><td>.....</td><td>.....</td></tr> </tbody> </table> <p><i>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.</i></p>	ETL Product ID number	Product name and model number	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
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2. Product type and features		No	Yes																				
2.1	<p><b>What type of close control air conditioning equipment is your product?</b></p> <p>a) DX air cooled (without free cooling)</p> <p>b) DX air cooled with integral water-based free cooling coil(s)</p> <p>c) DX water cooled (without free cooling)</p> <p>d) DX water cooled with integral water-based free cooling coil(s)</p> <p>e) Chilled water (CHW)</p> <p>f) Dual mode: DX air cooled and chilled water cooling (without free cooling)</p> <p>g) Dual mode: DX water cooled and chilled water cooled (without free cooling)</p>																						
2.2	<p><b>Does the product have a ratio of sensible cooling capacity to the total cooling capacity (i.e. sensible heat ratio) that is greater than or equal to (<math>\geq</math>) 0.9 at the standard rating condition?</b></p>																						
2.3	<p><b>Does the product incorporate an electrically powered compressor (or compressors) and / or incorporate a chilled water cooling coil with fittings for connection to an external chilled water circuit?</b></p>																						
2.4	<p><b>Is the product a single packaged unit or consist of two or more factory built sub-assemblies that are designed to be connected together during installation?</b></p>																						
2.5	<p><b>Is the product capable of varying capacity to account for load fluctuations?</b></p>																						

**3. Product performance**

No

Yes

**3.1 Has the product been tested in accordance with the procedures set out in one or more of the following standards? (Tick all that apply)**

- a) BS EN 14511:2011
- b) BS EN 14511:2013
- c) BS EN 14511:2018
- d) BS EN 1397:2015
- e) BS 4856-2:1975
- f) BS 4856-3:1975

**The standard test conditions for performance testing are provided in Tables 2 and 3 on the Close Control Air Conditioning Equipment criteria.**

*Please note that performance data obtained in accordance with the corresponding procedures and standard rating conditions laid down in BS EN 14511:20011 or BS EN 14511:2013 will be accepted as an alternative to testing in accordance with BS EN 14511:2018 and the rating conditions given in Tables 2 & 3 of the criteria until further notice.*

**3.2 Based on the type of close control air conditioning product does the performance of the product meet the performance thresholds set out in the table below?**

*The ETL only covers products that fit one of the 5 specific categories listed in the table below, as defined by the product type.*

	Product Category		EER	COP threshold
1	DX air cooled (without free cooling)		≥ 4.00	
2	DX air cooled with integral water-based free cooling coil(s).		≥ 3.80	≥ 90% of cooling capacity determined at the standard rating condition in DX operating mode
3	DX water cooled (without free cooling).		≥ 3.90	
4	DX water cooled with integral water-based free cooling coil(s).		≥ 3.70	≥ 90% of cooling capacity determined at the standard rating condition in DX operating mode
5	Chilled water (CHW).		≥ 18.00	
6	Dual mode: DX air cooled and chilled water cooling (without free cooling).	DX mode	≥ 3.90	
		CHW mode	≥ 18.00	
8	Dual mode: DX water cooled and chilled water cooled (without free cooling).	DX mode	≥ 3.90	
		CHW mode	≥ 18.00	

**Where:**

- EER = the ratio of total gross cooling capacity (Watts) to the electrical power absorbed by the unit (Pelec).
- Free cooling capacity = total cooling capacity (Watts) of the unit when operating in free cooling mode.

#### 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\\_LOGIN/login](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 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.*

*Please refer to ETL Guidance Note 5 "ETL 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 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.*

## 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 Energy Technology List.  
A copy of the terms and conditions can be found at [www.gov.uk/guidance/energy-technology-list](http://www.gov.uk/guidance/energy-technology-list).

Signature: ..... Date: .....

### For more information:

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