

Product application checklist

Please complete in BLOCK CAPITALS

Refrigeration: Professional refrigerated storage cabinets

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
1.1	Is the application for: <i>(Please select one).</i>		
	a) A single unique product which has been tested in accordance with the criteria – in this case <i>go straight to 1.4.</i>		
	b) A product which is based on the data for a 'representative model' which is not yet listed on the ETL (the representative model should be submitted at the same time as this application) – in this case the test data presented must be for a 'representative model', <i>go straight to 1.3.</i>		
	c) A product which is based on the data for a 'representative model' which is already listed on the ETL – in this case <i>go to 1.2.</i>		
1.2	What are the 'representative model's':		
	a) Product model number.		
	b) ETL Product ID number.		
1.3	If the application is on the basis of a 'representative model' indicate the basis of its selection: <i>(Please select those which apply).</i>		
	a) Cosmetic differences to the exterior (any model may be selected to be the representative model).		
	b) Heaters (door, trim etc.), fans, defrosts, lighting and other accessories (the model with the greatest energy consumption must be the representative model).		
	c) Cabinets with the same refrigeration system components but different refrigerants (The model with the greatest energy consumption must be the representative model).		
	<i>If two or more of the above variations are used the rules set out above must be combined when selecting the representative model.</i>		

1. Product testing and certification (continued)	No	Yes
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1.4 Is the product CE marked?

1.5 Has the product been tested?

- a) In a test room which conforms to pr EN 16825:2016.
- b) Under Climate Class IV (30°C, 55% RH).
- c) In a test room which conforms to an equivalent test standard where the resulting performance data can be shown to be equivalent to that obtained under pr EN 16825:2015. Please state which alternative test standard has been used:

.....

1.6 Was the product loaded and temperature tested in accordance with pr EN 16825:2016?

1.7 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’) AND a representative sample of the test data has been verified or cross-checked by an independent laboratory.*
- 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.

**In-house laboratories that have been UKAS/ILAC accredited do not need their test results verified or cross-checked by an independent laboratory. Please note on your checklist if this is the case, with your accreditation details.*

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

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

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1.10 Where products have been tested by an independent laboratory:

- a) What is the name of independent laboratory?
- b) What is the laboratory’s registration number (where accredited)?

2. Product type	No	Yes
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2.1 Is the cabinet fitted with “solid faced doors, lids or drawers” that are normally closed, but can be opened to access the contents of a single compartment, obscure the contents of the cabinet when closed and enable users to access the contents without stepping into the refrigerated space?

2.2 Is the cabinet a ‘plug in’ (integral) type?

2.3 Which type of product is the cabinet? (Please select one).

- a) Single door (vertical) cabinet.
- b) Double door (vertical) cabinet.
- c) Under counter or counter (counter type) cabinet.

2.4 What is the classification of the product according to its temperature range?

M1 L1

3. Product features		No	Yes
3.1	What is the gross internal volume of the cabinet (litres)?		
<p>To comply with the ETL criteria; single door cabinets must be between 340 and 690 litres; double door cabinets must be between 1105 and 1495 litres; and under counter cabinets must be between 68 and 920 litres *Gross internal volume is as defined in Section 6.1 of pr EN 16825:2015.</p>			
3.2	What is the net internal volume * of the cabinet (litres)?		
<p>*Net volume should be defined as per Section 6.1 of pr EN 16825:2016 and should be measured in compliance with guidance note 8</p>			

4. Product performance		No	Yes																		
4.1	What is the Energy Efficiency Index (EEI) of the product to one decimal place?																				
<p>The product's EEI must be less than or equal to the values shown in Table 1 below.</p> <p>Table 1 Performance thresholds for commercial service cabinets</p> <table border="1"> <thead> <tr> <th rowspan="2">Type</th> <th rowspan="2">Gross internal volume (litres)</th> <th colspan="2">EEI (ratio) performance threshold</th> </tr> <tr> <th>Chilled (M1)</th> <th>Frozen (L1)</th> </tr> </thead> <tbody> <tr> <td>Single door professional refrigerated storage cabinets (vertical)</td> <td>≥1,050</td> <td>≤50.0</td> <td>≤60.0</td> </tr> <tr> <td>Double door professional refrigerated storage cabinets (vertical)</td> <td>≥1,050</td> <td>≤60.0</td> <td>≤65.0</td> </tr> <tr> <td>Under counter and counter professional refrigerated storage cabinets (counter)</td> <td><1,050</td> <td>≤30.0</td> <td>≤55.0</td> </tr> </tbody> </table> <p>“≥” means “greater than or equal to” “≤” means “less than or equal to” “<” means “less than”</p> <p>The Energy Efficiency Index (EEI) is defined as the ratio between AEC (Annual Energy Consumption of the cabinet in kWh/year) and SAEC (Standard Annual Energy Consumption of the cabinet in kWh/year).</p> <p>The overall external height shall be based on the ‘as-installed’ product height.</p>				Type	Gross internal volume (litres)	EEI (ratio) performance threshold		Chilled (M1)	Frozen (L1)	Single door professional refrigerated storage cabinets (vertical)	≥1,050	≤50.0	≤60.0	Double door professional refrigerated storage cabinets (vertical)	≥1,050	≤60.0	≤65.0	Under counter and counter professional refrigerated storage cabinets (counter)	<1,050	≤30.0	≤55.0
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4.2	During testing, what was the measured value of the following parameters:																				
<p>a) The highest temperature $\varnothing\alpha\eta$ of the warmest M-package?</p> <p>b) The lowest temperature $\varnothing\beta$ of the coldest M-package?</p> <p>c) The lowest temperature $\varnothing\alpha\lambda$ of the warmest M-package?</p> <p>To be eligible, products must conform to one of the temperature classifications in Table 2 when tested to pr EN 16825:2016 in climate class IV (30°C, 55% RH).</p> <p>Table 2 Classification according to temperature</p> <table border="1"> <thead> <tr> <th>Class</th> <th>The highest temperature $\varnothing\alpha\eta$ of the warmest M-package equal to or lower than °C</th> <th>The lowest temperature $\varnothing\beta$ of the coldest M-package equal to or higher than °C</th> <th>The lowest temperature $\varnothing\alpha\lambda$ of the warmest M-package equal to or lower than °C</th> </tr> </thead> <tbody> <tr> <td>L1</td> <td>-15</td> <td>–</td> <td>-18</td> </tr> <tr> <td>M1</td> <td>+5</td> <td>-1</td> <td>–</td> </tr> </tbody> </table>				Class	The highest temperature $\varnothing\alpha\eta$ of the warmest M-package equal to or lower than °C	The lowest temperature $\varnothing\beta$ of the coldest M-package equal to or higher than °C	The lowest temperature $\varnothing\alpha\lambda$ of the warmest M-package equal to or lower than °C	L1	-15	–	-18	M1	+5	-1	–						
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M1	+5	-1	–																		

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 https://etl.beis.gov.uk/engetl/fox/live/ETL_PUBLIC_PRODUCT_SEARCH

- 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) Details of how the internal volume was calculated (including diagrams and calculations).

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 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.
 - iv) Where the test reports have not been prepared by an independent body, evidence that the accuracy of product performance data has been independently verified or cross-checked by an independent body.
 - v) 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 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.

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

Signature: Date:

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