



N/A

No

Yes

Product application checklist

Please complete in BLOCK CAPITALS

Refrigeration: Refrigerated display 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 ch	aracteristics. 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

Where type testing has been applied to demonstrate product performance ensure that the information supplied is sufficient to demonstrate the performance of all the products for which applications are being made.

- **1.1** Is the application for: (*Please select one*).
 - a) A single unique product which has been tested in accordance with the criteria in this case *go straight to 1.4*.
 - 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', go straight to 1.3.

c) A product which is based on the data for a 'representative model' which is already listed on the ETL – in this case *go to 1.2*.

- 1.2 What are the 'representative model's':
 - a) Product model number.

b) ETL Product ID number.

1.	Product testing and certification (continued)	N/A	No	Yes
1.3	If the application is on the basis of a 'representative model' indicate the basis of its selection: (Please select those which apply).			
	• Cosmetic differences to the exterior (any model may be selected to be the representative model).			
	 Heaters (door, trim etc.), fans, defrosts, lighting and other accessories (the model with the greatest direct electrical energy consumption (DEC) shall be the representative model). 			
	 Temperature level (the model with the lowest temperature setting shall be the representative model). 			
	 Length (Any model may be selected to be the representative model. All variants shall have a length that is within ±50% of the representative model length). 			
	• Cabinet depth (the model with the greatest cabinet depth shall be the representative model).			
	• Shelves (the model with the lowest number of shelves shall be the representative model).			
	• Front-opening height (the model with the largest front-opening height (throat) shall be the representative model).			
	• Type of doors (Where some variants have sliding doors and some have hinged doors, the representative model should be equipped with hinged doors).			
	If two or more of the above variations are used, the rules set out above shall be combined when selecting the representative model.			
1.4	Is the product CE marked?			
	If so, to which directive?			
1.5 Has the product's performance been tested to EN 23953-2:2015, with no night blinds at Climate Class III (25°C, 60% RH)?				
	AND for 'remote type' cabinets only:			
	a) Was the heat extraction rate calculated according to EN 23953-2:2015 section 5.3.6.3.1, section (b) and EN 23953-2:015 section 5.3.6.3.2 method Ø _{24-deft} ?			
1.6	Is the test report in accordance with EN 23953-2:2015?			
1.7	How was the product(s) performance tested? (Please select one).			
	 Tested in the manufacturers 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 body. * 			
	 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 Issue" for details of the requirements that must be satisfied for each of these product testing options.			
	<i>* In-house laboratories that have been UKAS/ILAC accredited do not need their test results verified or cross-checked by an independant laboratory. Please note on your checklist if this is the case, with your accreditation details.</i>			
1.8	Where product testing has been done in accordance with a registered Quality Management System registration number?	, what is i	ts	
1.9	Where product testing has been witnessed by an independent body, what was the name of the wit (Please include contact details).	ness?		

1.10 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)?

2.	Product type							No	Yes
2.1	 What type of cabinet is the product? (Please select one). a) 'Remote type'. b) 'Integral type' (also referred to as 'Plug-in'). c) 'Water loop' d) 'Chilled air' 								
2.2	What is the classification	•	cording to M1	its tempera M2	ature range H1	? H2			
2.3	What is the product's 5 digit classification according to Annex A of EN 23953-1:2015? (Commercial beverage coolers shall be classified in accordance with the precise classification system set out in Annex A of BS EN 16802;2016								
2.4	What is the geometry/co 21:2005+A1:2012 Annex		cabinet u	nder the cla	ssification	system in BS E	EN ISO 23953-		
a) - Vertical (V) cabinets (including VC1 to VC3, VF1, VF2 and VF4, YC1 to YC4, YF1 to YF4, and YM5 to YM8 units)									
	- BCSO, BCST, BCSS, BCUO, BCUT, BCVS, BCCO, BCCOT, BCCOS, BCCTO, BCCSO, BCCTT, BCCTS, BCCST commercial beverage cooler units								
	b) - Horizontal (H) cabinets (including HC1 to HC8, HF1 and HF3 to HF7 units								
	- BCHO, BCHT and BCI	HS commercial be	verage coo	ler units					
3.	Product performan	nce						No	Yes

 3.1
 What is the Energy Efficiency Index (EEI) of the product to two decimal places?

 To be eligible, products must have an EEI that is less than or equal to the performance thresholds set out in Table 1 below.

3.2 Does the product have an EEI that is less than or equal to the performance thresholds set out in Table 1 below?

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Table 1 Performance thresholds for refrigerated display cabinets

		EEI performance threshold (kWh/day/m ²)				
		Geometry/configuration				
		Horizontal	Vertical			
	L1	≤10.00	≤11.50			
	L2	≤8.50	≤11.00			
	L3	≤8.00	≤11.00			
Temperature Class	M0	≤6.00	≤7.50			
	M1	≤5.00	≤6.00			
:ure (M2	≤4.50	≤5.50			
perat	H1	≤4.00	≤5.00			
Tem	H2	≤4.00	≤5.00			
	K1	≤4.00	≤5.00			
	K2	≤4.50	≤5.50			
	K₃	≤5.50	≤6.00			
	K₄	≤3.50	≤4.50			

" \leq " means "less than or equal to"

Where the Energy Efficiency Index (EEI) is defined as the ratio of the product's Total Energy Consumption (TEC) to Total Display Area (TDA) i.e. EEI = TEC/TDA, and:

- TEC is the daily energy consumption of the product in kWh/day calculated according to BS EN ISO 23953-2:2015 section 5.3.6.3.4 and BS EN 16902:2016 section 6.3.13.3 for commercial beverage coolers.
- TDA is the total display area of the product in m² calculated according to BS EN ISO23953-2:2015 Annex A and BS EN 16902:2016 Annex D for commercial beverage coolers.
- 3.3 During testing, what was the measured value of the following parameters and do they meet the thresholds in Tabe 2?:
 - a) The highest temperature θ ah of the warmest M-package?
 - b) The lowest temperature θb of the coldest M-package?
 - c) The lowest temperature θ al of the warmest M-package?

To be eligible, products must conform to one of the temperature classifications in Table 2 when tested to BS EN ISO 23953-2:2015 in climate class III (25° C, 60% RH).

Table 2 Classification according to temperature

Class	Highest temperature $ heta$ ah of the warmest M-package colder than or equal to (°C)	Lowest temperature θb of the coldest M-package warmer than or equal to (°C)	Lowest temperature $ heta$ al of the warmest M-package colder than or equal to (°C)
L1	-15	-	-18
L2	-12	-	-18
L3	-12	-	-15
M0	+4	-1	-
M1	+5	-1	-
M2	+7	-1	-
H1	+10	+1	-
H2	+10	-1	-

No

Yes

4. Summary of documents to be included

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.

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 products 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 (where the in-house laborartory does not hold UKAS/ILAC accreditation).
 - 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.
 - ii) Ensure consistency of performance between individual production items of the same product.
- 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

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