



No

Yes

Product application checklist

Please complete in BLOCK CAPITALS

Refrigeration: Cellar cooling equipment

Manufacturer/supplier name:	
Applicant's name:	
Telephone number:	
Product information Product name:	
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

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 your cellar cooling refrigeration system conform with the requirements of the EU Pressure Equipment Directive PED 97/23/EC in respect of its design, manufacture and testing procedures?

Cellar cooling refrigeration equipment must conform to the EU Pressure Equipment Directive PED 97/23/EC. Individual assemblies (e.g. condensing unit and evaporator) must have Declarations of Conformity or be CE marked as appropriate for the PED. You must provide copies of relevant documentation.

- 1.2 Has your system been tested in accordance with specification PAS57:2003 Cellar cooling refrigeration equipment "Procedure for determining performance and calculating energy efficiency" and the amendments outlined in the Criteria List?
- **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') and a representative sample of the test data has been verified or cross-checked by an independant lab.*
 - 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 model/s used.

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 crosschecked by an independant laboratory. Please note on your checklist if this is the case, with your accreditation details.

1.4 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		
1.5	Where product testing has been witnessed by an independent body, what was the name of the witness? (<i>Please include contact details</i>).				
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	7 How has the quality of any 'self-tested' data been independently verified and cross-checked?				
	A copy of your test report plus independent verification must be included.				
1.8	Is the application for: (Please select one).				
	a) A single unique product – in this case go to 2.1.				
	b) A range of products, which are variants of the same basic design.				
	c) 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:				
	Use the same refrigerant as the representative model.				
	 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. 				
	Have the same sub-cooling arrangement as the representative model.				
	Have the same number of evaporators.				
	Fit within the same product category (e.g. are all split systems).				
1.9	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 the lowest quartile of predicted performance 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.				

2.	Product features	No	Ye
2.1	Is your product a single split system.		
	If Yes complete2.4 & 2.5, if no continue to 2.2.		
2.2	Is your product a dual split system.		
	If Yes complete 2.4 & 2.5, if no continue to 2.3.		
2.3	Is your product a free cooling unit for cellar cooling?		
	If Yes go to 2.6.		
2.4 Does the product consist of two or three three sub-assemblies that are designed to be connected or installation (ie, an evaporator, condenser and compressor)?			
	Question relevant for single and dual split systems only.		
2.5	Is the capacity of your cellar cooling refrigeration system between 2kW and 12kW?		
	The capacity must be between 2 and 12kW at a cellar temperature of 10°C and an ambient temperature of 32°C.		
	Question relevant for single and dual split systems only.		
2.6	Does your free cooling unit meet the following criteria:		
	a) Utilise a fan to draw in ambient air from outdoors to provide free cooling when the ambient temperature is sufficiently below the required indoor temperature.		
	b) Incorporate a fan which meets the minimum energy efficiency requirements for fans driven by motors with an electric input power between 125 W and 10 kW as given in eco-design regulation (EU) No 327/2011.		
	c) Include a damper which is designed to close when the free cooling unit is not in operation in order to prevent air leakage from outdoors into the cooled space.		
	d) Incorporate an automatic control system which controls both the free cooling unit and cellar cooling equipment as follows:		
	e) The free cooling unit is in operating mode when the outside ambient temperature is below a set temperature.		
	f) Air is circulated within the cooled space by using one or two fans of the cellar cooling unit evaporator when the free cooling unit is in operating mode, the remaining one or more evaporator fans being switched off.		
	g) The free cooling unit fan starts and draws ambient air into the cooled space when the temperature rises to a given setpoint and the outside ambient temperature is below the set temperature.		
	h) When the temperature of the cooled space reduces to the setpoint temperature minus the set temperature differential, the free cooling unit fan switches off.		
	 i) If the outside temperature rises above the set temperature, the free air cooling system goes into standby mode and the cellar cooling equipment resumes normal operation. j) Be CE Marked. 		

If Yes to all statements in 2.6 go to Section 4.

3. Product performance as defined in PAS 57, for single or dual split systems

- No Yes
- 3.1 If your product is a single or dual split cellar cooling refrigeration product, is the Coefficient of Performance (COP) of the product equal to or greater than 3.3?

If Yes go to Section 4.

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://www.gov.uk/energy-technology-list

- 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 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.

A Declaration of Conformity with EU Directives on product safety, including:

i) EU Pressure Equipment Directive PED 97/23/EC.

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 <u>https://www.gov.uk/guidance/energy-technology-list</u>		
	Cirantum	Deter	
	Signature:	Date:	
	For more information;		
	Web:	Post:	
	https://www.gov.uk/guidance/energy-technology-list	Energy TL Coordinator, ICF,	
	Phone:	6th floor,	
	0300 3300657 Email:	Watling House, 33 Cannon Street,	
	ECAQuestions@carbontrust.co.uk	London, EC4M 5SB	
	 Whilst reasonable steps have been taken to ensure that the information contained within this publication is correct, the Carbon Trust, its agents, contractors and sub-contractors, and the Government give no warranty and make no representation as to its accuracy and accept no liability for any errors or omissions. Any trademarks, service marks or logos used in this publication are the property of the Carbon Trust or Government. Nothing in this publication shall be construed as granting any licence or right to use or reproduce any of the trademarks, service marks, logos, copyright or any proprietary information in any way without the Carbon Trust's prior written permission. The Carbon Trust enforces infringements of its intellectual property rights to the full extent permitted by law. The Carbon Trust is a company limited by guarantee and registered in England and Wales under Company Number 04190230 with its Registered Office at: 4th Floor, Dorset House, 27-45 Stamford Street, London SE1 9NT. The Enhanced Capital Allowance Scheme for energy saving equipment is run by the Carbon Trust on behalf of Government. 		
	Published in the UK: June 2017.	ECA726 v14	