

Product application checklist

Please complete in BLOCK CAPITALS

Boilers: Localised rapid steam generators

Manufacturer/supplier name:

ETL licence number (if applicable):

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 your 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 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 conform to the requirements of the EU Pressure Equipment Directive PED 97/23/EC in respect of its design, manufacture and testing procedures?		
1.2	Is the product CE Marked?		
1.3	How was the product performance tested? <i>(Please select one).</i>		
	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) Tested as part of on-site acceptance tests or field trials, because laboratory testing was not practical due to product size, or lack of a suitable laboratory.		
<i>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.</i>			
1.4	Where product testing has been done in accordance with a registered Quality Management System, what is its registration number?		
.....			
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. Product testing and certification (continued) **No** **Yes**

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 Is the application for: (Please select one).

- a) A product submitted with individual performance test data (Go to 2).
- b) A product with the same constructional design as other products where 'Representative models' have been tested and are listed on the ETPL.
- c) A product with the same constructional design as other products that are not yet on the ETPL, and where performance test data is being submitted for 'Representative models' with this application.

1.8 What are the 'Representative models':

ETL Product ID number

Product model numbers

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

2. Product type **No** **Yes**

2.1 What type of fuel does your product use (Please tick one):

- a) Gas.
- b) Oil.
- c) Dual fuelled (i.e. gas & oil fired).

2.2 Is the product a modular boiler?

A modular boiler is defined as an assembly of two or more similar (but not necessarily identical) modules, each with their own a heat exchanger, burner, and control and safety devices. The assembly has common water feed and steam output connections, but the water flow to, and steam flow from each module is independently controlled.

2.3 Does the product use a forced draught burner (or burners)?

2.4 Does the product automatically respond to changes in steam demand by modulating its output in a continuous manner across a minimum turndown ratio specified below without initiating a purge cycle?

Fuel type	Turndown ratio
Gas fired or dual fuelled	3.33:1
Oil fired	2:1

2. Product type (continued)		No	Yes																						
2.5	<p>Does the product use burners that are listed on the ETPL?</p> <p><i>If so please specify:</i></p> <table border="1"> <thead> <tr> <th>ETL Product ID number</th> <th>Product model numbers</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> <tr><td> </td><td> </td></tr> </tbody> </table>	ETL Product ID number	Product model numbers																						
ETL Product ID number	Product model numbers																								
2.6	Is the product sold with an economiser?																								
2.7	<p>Does the product use mechanical dampers to modulate air flow?</p> <p><i>If no, proceed to section 2.11.</i></p>																								
2.8	Are all mechanical air dampers operated by a precision servomotor that is controlled by a positional or flow based feedback mechanism that automatically adjusts its operation to correct for mechanical wear, valve stiction and hysteresis?																								
2.9	<p>Does the product use control valves to modulate fuel flow?</p> <p><i>If no, proceed to section 3.</i></p>																								
2.10	<p>Are all fuel control valves operated by a precision servomotor that is controlled by a positional or flow based feedback mechanism that automatically adjusts its operation to correct for mechanical wear, valve stiction and hysteresis?</p> <p><i>This requirement is not applicable to pneumatically operated modulating gas valves.</i></p>																								
3. Product performance		No	Yes																						
3.1	<p>Has the product's net thermal efficiency been tested in accordance with the procedures set out in one of the following standards:</p> <p>(a) BS 845: Part 1: 1987</p> <p>(b) BS EN12952-1: 2003</p> <p><i>The standard test conditions for performance testing under BS 845: Part 1: 1987 are: a maximum ambient air temperature of 25 degrees Centigrade and an excess combustion air level of not less than 15%.</i></p>																								
3.2	<p>Which Method has been used to test product performance: (Select one).</p> <p>a) Method A: Separate testing of steam generators and burners.</p> <p>b) Method B: Integrated testing at full and part load.</p> <p><i>Method A may only be used, where the product's burners are listed on the 'burners with controls' part of the ETPL, and where the product is not classified as a modular boiler.</i></p>																								
3.3	If an economiser is not included with the product does it have a net thermal efficiency of at least 88.0% at 100% of its Maximum Continuous Rating (MCR). If an economiser is included with the product does it have a net thermal efficiency of at least 92.0% at 100% of its Maximum Continuous Rating (MCR)?																								
3.4	If the product is oil fired and has no economiser, does it have a net thermal efficiency of at least 88.0% at 50% of its Maximum Continuous Rating (MCR)? If the product has an economiser and is oil fired, does it have a net thermal efficiency of at least 92.0% at 50% of its Maximum Continuous Rating (MCR)?																								
3.5	If the product is gas-fired or duel fuelled with no economiser, does it have a net thermal efficiency of at least 88.0% at 30% of its Maximum Continuous Rating (MCR)? If the product is gas-fired or duel fuelled with an economiser, does it have a net thermal efficiency of at least 92.0% at 30% of its Maximum Continuous Rating (MCR)?																								
3.6	Is the product able to achieve its maximum working pressure in less than eight minutes starting with a water temperature of less than 25 degrees Centigrade?																								

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.decc.gov.uk>

- 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 complied 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 type testing procedures were used to select representative models for testing, please provide a written explanation of the reasons why these models were chosen, and evidence that the products covered by the representative model(s) are variants of the same constructional design.

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 and per laboratory used.

Detailed test reports must always be submitted for acceptance tests or field trials.

Please refer to Section 4 of 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 one of the following:
- i) CE Marking Directives.
 - ii) 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 <https://www.gov.uk/guidance/energy-technology-list>

Signature: Date:

For more information:

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

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