



Energy Technology List

Product application checklist

Please complete in BLOCK CAPITALS

Non-Condensing Economisers

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 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

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

1.1 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 testing (see clause 1.5.1)

1.2 Has the product(s) performance been tested and demonstrated according to:

- a) **Method A**, where net thermal efficiency shall be measured at test points that are equivalent to 30%, 50% and 100% of the (MCR) of the boiler system for which the product is designed (i.e. indirect measurement)
- b) **Method B**, where performance shall be demonstrated by calculating the improvement in boiler net thermal efficiency that will occur at 30 %, 50 % and 100 % of the (MCR) of the boiler system for which the product is designed (i.e. direct measurement)
- c) **Method C**, where performance is determined from design calculations, assessing the improvement in the net thermal efficiency of a boiler system that the product will deliver at full and part load conditions (i.e. validated design calculations)

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.	Product testing and certification (continued)	No	Yes
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1.3 Where product testing has been done in accordance with a registered Quality Management System, what is its registration number?

1.4 Where a representative sample of the test data has been cross-checked and verified by an independent body:

a) What is the name of the independent laboratory?

b) What is the laboratory's registration number (where accredited)?

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

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 with individual performance test data *(If yes please go to 2)*.

b) A product that is a variant of the same basic design as other products listed on the ETL, where performance test data for 'representative models' has already been submitted in a previous application.

c) A product that is a variant of the same basic design as other products that are not yet on the ETL, 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 name and model number
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Where applications are being made for non-condensing economiser products of the same constructional design to be included on the Energy Technology List (ETL), test data may be submitted for a single representative model provided that the maximum rated output of the products being applied for is not more than twice, or less than half, the maximum rated output of the product tested. Where the range of rated outputs exceeds these limits, products should be grouped into size ranges that comply with these rules, and test data submitted for one representative model for each group.

2.	Product performance
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2.1 What is the percentage points gain in net thermal efficiency provided by the product at the test points?

30% of MCR. _____

50% of MCR. _____

100% of MCR. _____

ETL products shall increase the net thermal efficiency (expressed in percentage points) of the boiler system to which it is designed to be fitted by at least 4.5% points when the boiler system is operating at 30%, 50% and 100% of its maximum continuous rating (MCR).

3. 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

- 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 ETL 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@ICF.com 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 ETL 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 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 representative testing has been used, evidence that the products covered by the representative model(s) are of the same constructional design and meet the requirements stipulated in 1.6 above.

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.

Please refer to Section 4 of 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) Evidence that a quality assurance system/procedures is/are in place to:
- i) Control the specification, design, manufacturing and testing of the products.
- e) Signed application checklist.

Please note that all product documentation provided must be written in, or translated into, English.

4. 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.

Signature: Date:

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