

Product application checklist

Please complete in BLOCK CAPITALS

Boilers: Heating management controllers (for wet heating systems)

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 certification		No	Yes
1.1	Does your product conform to the requirements of the EU EMC Directive 89/336/EEC (as amended), or its replacement EU EMC Directive 2004/108/EC, in respect of its design, manufacture and testing procedures?		
1.2	Is the product CE Marked?		
2. Product type		No	Yes
2.1	Is the product (Please tick one): a) A self-contained control unit b) An 'add-on' module c) A packaged product		
2.2	What is the product designed to automatically control? (Tick all that apply) a) Wet heating systems b) Domestic hot water (DHW) systems <i>Products that are designed to control other equipment/plant not directly related to wet heating systems or associated domestic hot water systems provision, are not eligible.</i>		
2.3	How is automatic control implemented? (Tick all that apply) a) Directly by means of an analogue or digital signal connection b) Indirectly by means of another control device (or devices)		

2. Product type (continued)	No	Yes
<p><i>Products that incorporate any of the following types of equipment are not eligible:</i></p> <ul style="list-style-type: none"> • Any type of heating, cooling, ventilation or air conditioning equipment (except for the product protection purposes) • Motors, pumps or fans (except for product cooling purposes) • Variable speed drives or switched reluctance drives • Valves, dampers or actuators • Burner control systems 		

3. Product features	No	Yes
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3.1 Is the product a microprocessor-based controller?

3.2 Is the product pre-programmed to:

- a) Automatically control heat generation and heat distribution within a wet heating system, in a manner that reflects weather conditions and building occupation schedules?
- b) Automatically switch between operating modes, in accordance with the predefined weekly occupation schedule of the space (or spaces) being heated?
- c) Maintain the temperature of the space or spaces being heated within preset limits, by modulating the heat flow around each heating circuit, in response to the output of one or more temperature sensors?

3.3 Does the product have at least two of the following different operating modes: normal, economy (or standby) and holiday modes?

Please list below the terms used in your product literature for following modes:

Operating Mode	How described in your product literature
a) Normal	
b) Economy	
c) Standby/Holiday	
d) Other (please specify)	

3.4 Does the product incorporate:

- a) An optimum start mechanism that monitors external and/or internal temperatures, and calculates when boilers need to be switched on in order to just reach pre-set temperatures by the start of the next occupancy period?
- b) A “self-learning” algorithm that automatically monitors the accuracy of the optimum start mechanism and periodically updates the heating curve that the mechanism uses, to reflect changes in building characteristics?
- c) A “self-adaptive weather compensation” mechanism that automatically saves energy during milder weather conditions, by reducing the temperature set-point of the boiler water circuit as the external temperature rises, and also the temperature of, or heat flow through, any individual zone heating circuits controlled?
- d) A “frost protection” mechanism that monitors external temperatures (or pipework temperatures), and switches on boilers and heating circuits (as required), in order to prevent equipment and pipework from “freezing up”?
- e) A building fabric protection mechanism that monitors external or internal temperatures and switches heating on to prevent condensation occurring?
- f) A mechanism that prevents the boilers supplying the heating system from “dry cycling” (i.e. switching on and off), when there is no change in heat demand?
- g) Interlock and inhibit mechanisms that can be used to prevent simultaneous heating and cooling, and space heating when windows have been opened?
- h) An anti-tampering mechanism that prevents the product’s control strategy and configuration settings from being modified, and automatic control from being disabled, except during commissioning, maintenance or testing?

3. Product features (continued)	No	Yes
<p>3.5 Does the product provide facilities that enable building managers to:</p> <ul style="list-style-type: none"> a) Define the normal occupation times for the building and each zone controlled (in intervals of five minutes or less), for each day of the week, including at least two periods of occupation per day (i.e. at least 14 occupation periods per week)? b) Define the temperature set-points for each operating mode to +/- 1 degree centigrade, and separate set-points for each space heating circuit controlled? c) Define periods or circumstances throughout the year when the wet heating system should be placed into economy, holiday or standby modes? d) Define a separate seven-day schedule for the operation of any domestic hot water (DHW) system controlled, including at least two periods of operation per day? e) "Temporarily override" or manually adjust the degree (or amount) of weather compensation applied to each heating circuit controlled? 		
<p>3.6 Does the product provide facilities that enable building users or managers to:</p> <ul style="list-style-type: none"> a) "Temporarily override" the pre-set time when the heating is scheduled to be switched off for a predefined period not exceeding 24 hours per override? b) Only adjust the temperature set-points in the space (or spaces) being heated for a limited period of time, and by a limited amount (or allow no user adjustment)? c) Switch the wet heating system into economy or standby mode for the remaining portion of a pre-set occupation period? 		

Withdrawn

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. Please ensure that this documentation includes details of:
- i) The product's control input/output signals, and requirements for sensors or control valves.
 - ii) The product's automatic control strategies, mechanisms, and configuration settings.
 - iii) An explanation of how the product works and saves energy, and copies of any independently audited test reports that confirm the typical level of energy and carbon savings realised.

- d. A Declaration of Conformity with EU Directives on product safety, including one of the following:
- i) CE Marking Directives.
 - ii) EMC Directive 89/336/EEC (as amended) or 2004/108/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:

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