

***ehc***

the electric heating company

# **ELECTRIC BOILER GUIDE**



# About Us

Innovative heating and hot water specialists, The Electric Heating Company, have developed their product portfolio to accommodate almost any Central Heating and Hot Water requirement. From the comprehensive Comet Electric System Boiler to the space saving SlimJim Electric Flow Boiler our product knowledge and Technical assistance is unrivalled in the Heating and Hot Water industry.

Our products have been designed with both the installer and homeowner in mind and as such all the controls used with our products are contemporary and user friendly. We can

supply a choice of Boiler Packs for a complete Heating & Hot Water installation. The Electric Boiler, Cylinder and Controls are all included within our exclusive packages.

EHC are renowned for always putting the customer first and have won National customer service awards in recognition of our efforts.



From initial enquiry to completed order we believe in focusing our attention on Customer Care. The personnel at The Electric Heating Company are approachable, very experienced and committed to ensuring you have the best available options when choosing your products.

Our Products are specified on many Contracts throughout the UK and our customer base includes Social Landlords, Private Landlords, Developers, Homeowners and the general Heating Trade.

In addition to our product catalogues our websites contain Installation & Technical Manuals, Energy Information and a host of relevant details relating to our products. You can also view our informative product videos from the website.

EHC offer an Accredited Heating Contractors scheme that operates throughout the UK.

For more information call us on 01698 820533 for advice, brochures or technical information or visit our website at [www.electric-heatingcompany.co.uk](http://www.electric-heatingcompany.co.uk)

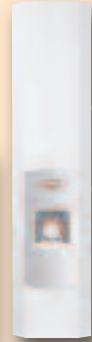
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# FAQ's **When Installing an Electric Boiler**

- Electric Boilers are 100% efficient therefore there is no requirement to oversize the appliance
- If an efficient Direct Cylinder is present within the property install the Boiler for Heating only
- Heat Loss calculations should be made in accordance with the latest regulations
- Most 1, 2 & 3 bedroom properties are generally suitable for an Electric Boiler
- Properties with a high hot water demand are better suited to an Indirect Cylinder with an 'S' Plan configuration
- When installing an Electric Boiler always ensure that the incoming electrical supply is sufficient for the Boiler Output
- To accommodate "Off-Peak" electricity tariffs it is recommended that a Programmer with a facility for 3 On/Off periods is installed
- Electric Boilers are suitable for both Volt Free Hard Wired and Wireless Thermostats
- If the property has an electric shower it is advisable that a Shower Flow Sensor or Relay Interrupt is installed to prevent the Electric Boiler and Electric Shower operating at the same time
- Electric Boilers require no mandatory annual maintenance
- Electric Boilers have no flue requirements
- EHC offer 3-Phase Electric Boilers that are suitable for light commercial purposes such as; offices, factory units, pubs, etc.

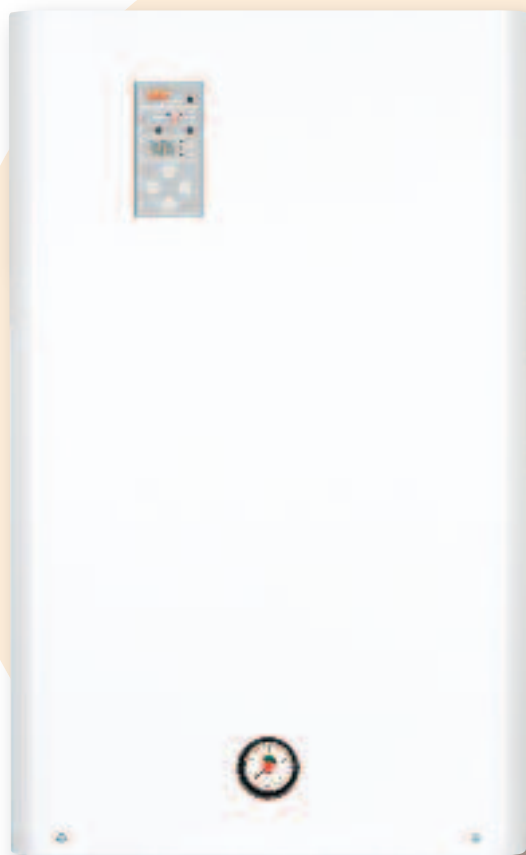


## EHC – The Electric Boiler Specialists

- Installation is quicker than a gas system:  
90% Mechanical & 10% Electrical
- The wiring of an Electric Boiler is the same as an Electric Shower
- Electric Boilers can be used for Open Vented Systems
- Can be used as back-up for Heat Pumps
- Standard radiators and valves can be used with Electric Boilers
- EHC Electric Boilers have a soft start to avoid power surges
- Electric Boilers are almost silent when operating
- Electric Boilers emit no noxious fumes or gases
- Can be used with underfloor heating systems
- EHC only recommend High Efficiency UPM3 Pumps such as Grundfos or Wilo for our Boilers



# 48kW ELECTRIC SYSTEM BOILER



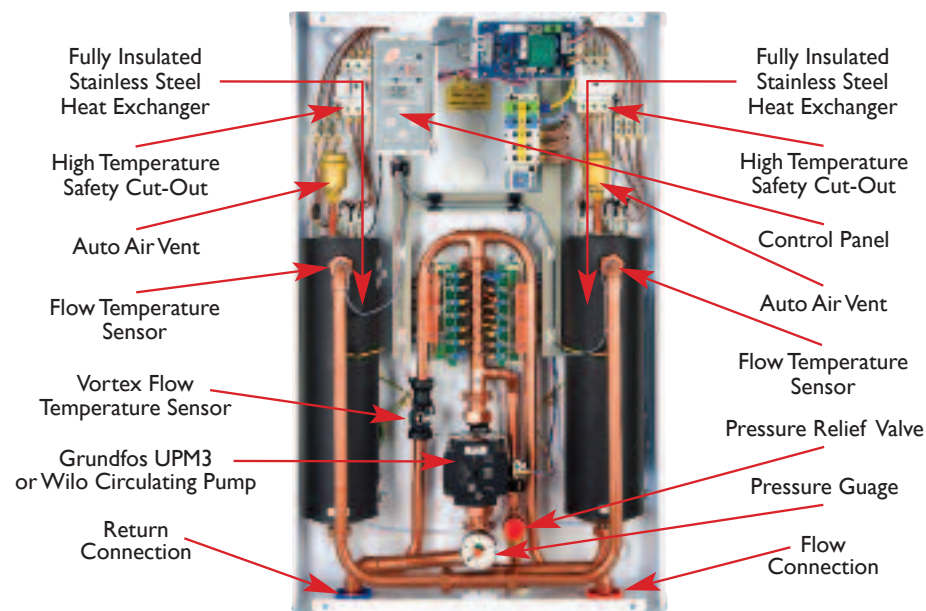
The Fusion 48kW Electric System Boiler is the perfect solution for a wet central heating system in Light Commercial Properties, Hotels, Guest Houses and large properties with 3-Phase Electricity.

This fully modulating, powerful Electric Boiler has been engineered to include Fully Insulated Stainless Steel Heat Exchangers, Twin Auto Air Vents, Grundfos or Wilo Pump, Pressure Gauge, Flow & Return Temperature Sensors and Dual High Temperature Safety Cut-Outs.

Using conventional wet system radiators and valves the Fusion Boiler can be installed in any property type with 3-Phase Electricity to offer an effective and efficient heating solution. The 48kW Fusion Electric Boiler can be supplied with a choice of Heat Packs and Unvented Cylinders. For larger output requirements, these boilers can be combined on a low loss header to increase the overall output which gives endless install solutions.



# WHAT'S INSIDE



## TECHNICAL DATA

Max. pressure	Bar	3.0
Min. pressure	Bar	1.0
Outflowing water temp.	°C	40 ÷ 85
Max. water temp.	°C	100
Overall dimensions	mm	815 x 503 x 197
Dry Weight	Kgs	29
Water connection	mm	28
Safety class		IP 21
Rated power consumption	kW	48
Rated voltage		400V~
Rated current	A	3 x 69.5
Fuse rated current	A	80
Min. connecting wires section	mm <sup>2</sup>	5 x 16
Max. connecting wires section	mm <sup>2</sup>	5 x 50
The maximum allowed network impedance	Ω	0.03

Note: On a pressurised system a suitable external Expansion Vessel must be installed.

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