



Where gas is not an option,



the perfect solution is the economical Fusion Boiler



the most complete electric boiler on the market

Fusion
it's electric

Fusion Electric Boiler provides complete peace of mind for reliability, performance and safety

The Electric Heating Company is the UK's most progressive and innovative electric central heating company.

We are renowned for our range of electric heating products which include the award winning Fusion Electric Boiler and Fusion E10 Electric Combination Unit.

With years of experience in the electric heating industry the personnel at EHC always put the customer first. From initial enquiry to completed order we believe in focussing our attention on customer care.

Over the years electric heating products have been perceived to be expensive to operate, however with our unique range of products and our commitment in offering advice regarding competitive electricity tariffs throughout the UK, running costs for electric heating are now at an affordable level.

When householders are asked which type of heating system they prefer the answer is normally gas, whilst in reality what they are looking for is an affordable and fully controllable central heating system. Provision of this has not always been possible as in many areas of the country there is no access to mains gas.

This is no longer the case with the advent of direct acting electric heating systems which, like gas systems, are fully controllable, easy to operate and affordable to run.

The personnel at EHC will be pleased to offer you their vast experience in ensuring that you have the best available options when choosing your electricity supplier and tariff.



The Fusion Electric Boiler is the perfect solution for properties with no access to mains gas supply and homes which have gas boiler restrictions, e.g. listed buildings and bed-sit sleeping areas. Not only is the boiler the ideal choice for wet central heating but it's also suited to Underfloor heating.

The Fusion Electric Boiler is one of the most complete boilers on the market today. Unlike most electric boilers, the Fusion was designed to eliminate unnecessary external plumbing and pipe work.

The boiler has been engineered to include the pump, Auto-air vent, Expansion Vessel and Pressure Gauge within the compact casing. This allows the boiler to be located either in a cupboard or wall



mounted, e.g. in the kitchen area.

To ensure maximum efficiency, the boiler boasts 6 stage heating using a single copper heat exchanger.

With this unique facility both electricity consumption and running costs are controlled through all heating cycles.

The easy to use control panel allows both the installer and home owner to identify the operating temperature, flow rate and kW output of the boiler at any given time.

The control panel also has an important part to play in fault diagnosis by displaying fault codes which minimise unnecessary down time.

Our single phase boiler outputs are 6kW, 9kW and 12kW. The 14.4kW is available for properties that require a

higher output. It is also possible to install the boiler in series with a secondary boiler to suit non domestic situations.

The operating temperatures of the boiler can be adjusted using the control panel - the temperature outputs range from 40 degrees through to a maximum of 85 degrees.

We also offer 24kW and 36kW boilers for properties which have a three phase electricity supply. (Visit our website for further details)

Because of the proven reliability of the boiler, we have no hesitation in offering a 2 year warranty.

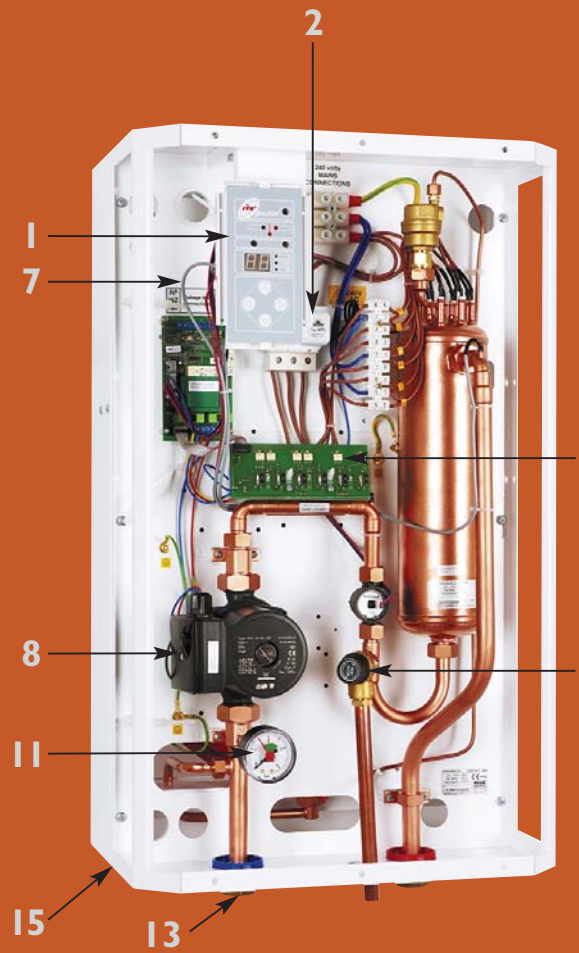
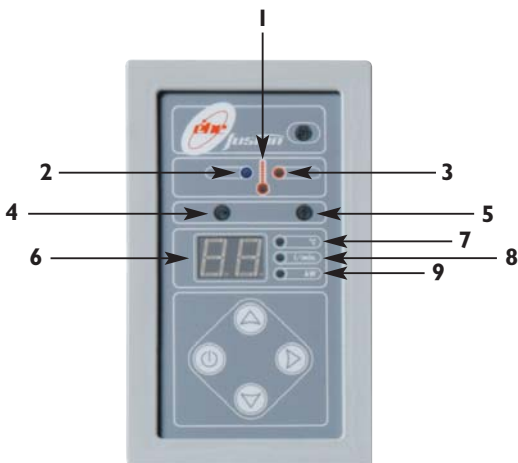
System Designs

The Fusion Boiler is installed in conjunction with standard wet system radiators and thermostats.

For added boiler and system protection each Fusion Boiler is supplied with a Magnetic Filter which must be installed on the return pipework.

For larger commercial properties please enquire about our 3 Phase Fusion Electric Boilers which are available in 24kW and 36kW outputs. Alternatively multiple boilers may be installed in parallel to provide increased output.

A survey by a qualified heating engineer is recommended prior to your purchase to avoid under-sizing of your Fusion Electric Boiler.



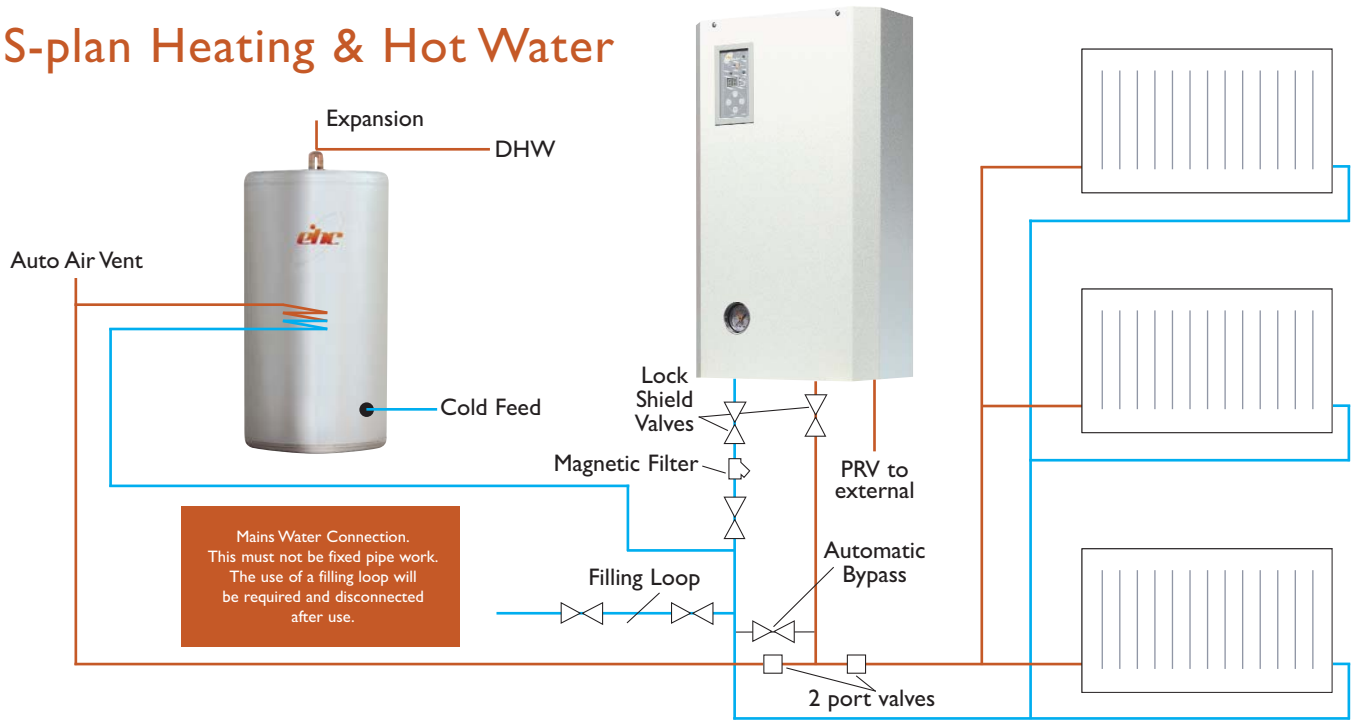
Boiler key

- 1 Control Panel
- 2 Over Heat Cut-Out
- 3 Automatic Air Vent
- 4 Heating Elements
- 5 Copper Heat Exchanger
- 6 Printed Circuit Board
- 7 Voltage Free Control Connections
- 8 Circulation Pump
- 9 Flow & Return Sensors
- 10 Flow Switch
- 11 Pressure Gauge
- 12 Heating Flow
- 13 Heating Return
- 14 Pressure Relieve Valve
- 15 White Metal Enclosure
- 16 Expansion Vessel

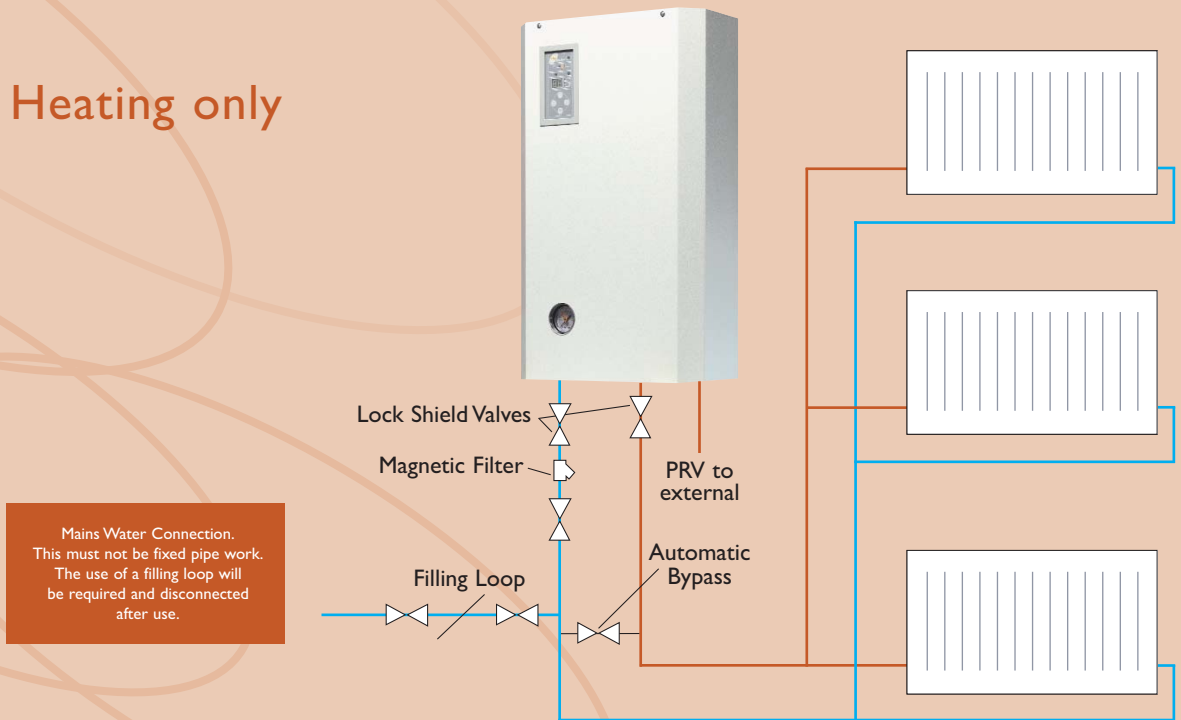
Control Panel key

- 1 Boiler Temperature
- 2 Return Temperature Indicator
- 3 Flow Temperature Indicator
- 4 Pump Indicator
- 5 Heating Demand Indicator
- 6 Digital Display
- 7 Set Point Temperature
- 8 Flow Rate
- 9 Power Usage Indicator

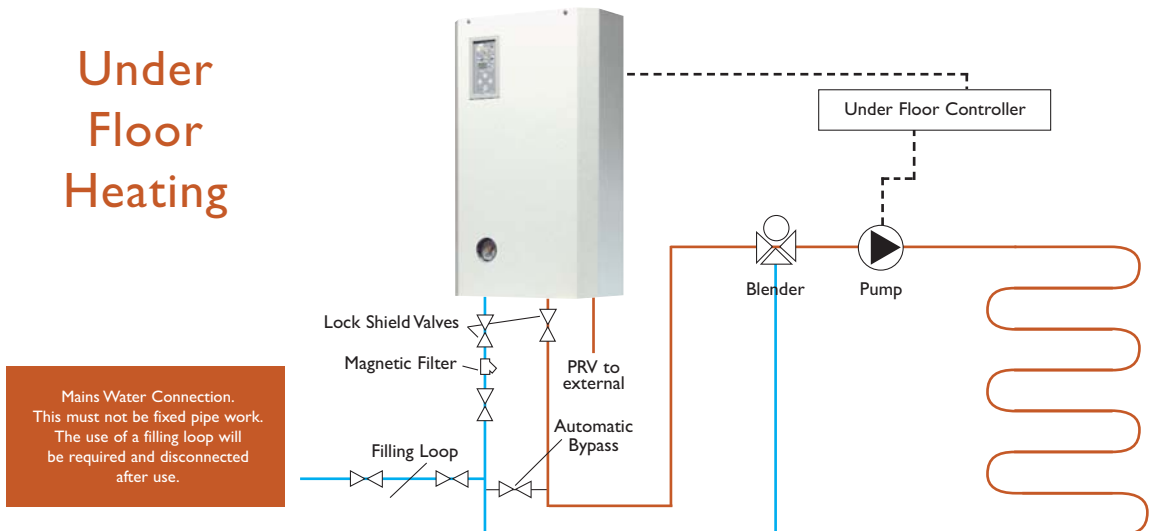
S-plan Heating & Hot Water



Heating only



Under Floor Heating

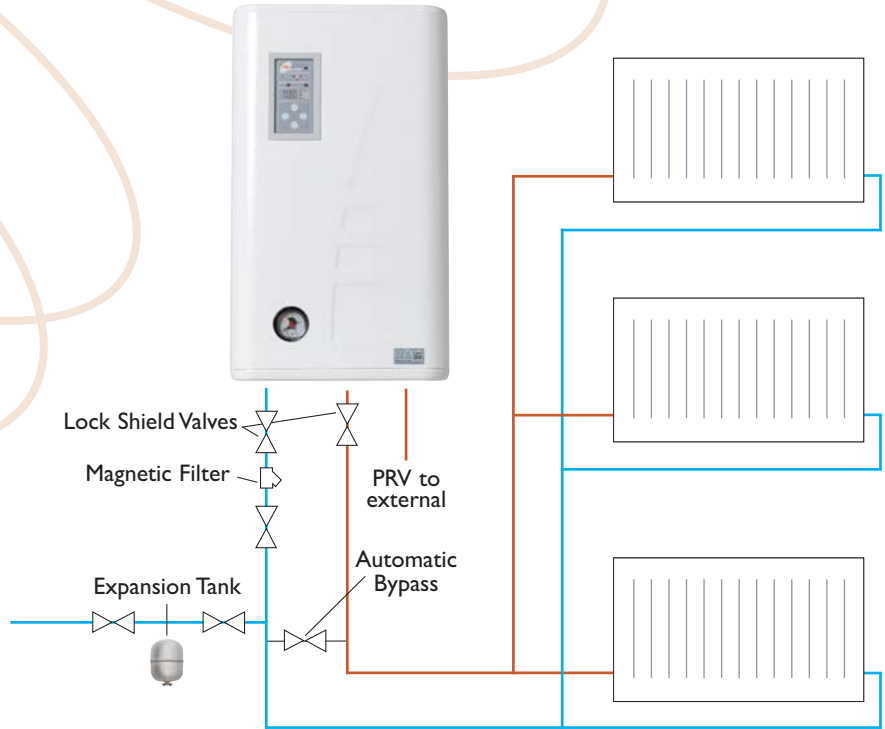


Slimline Boiler

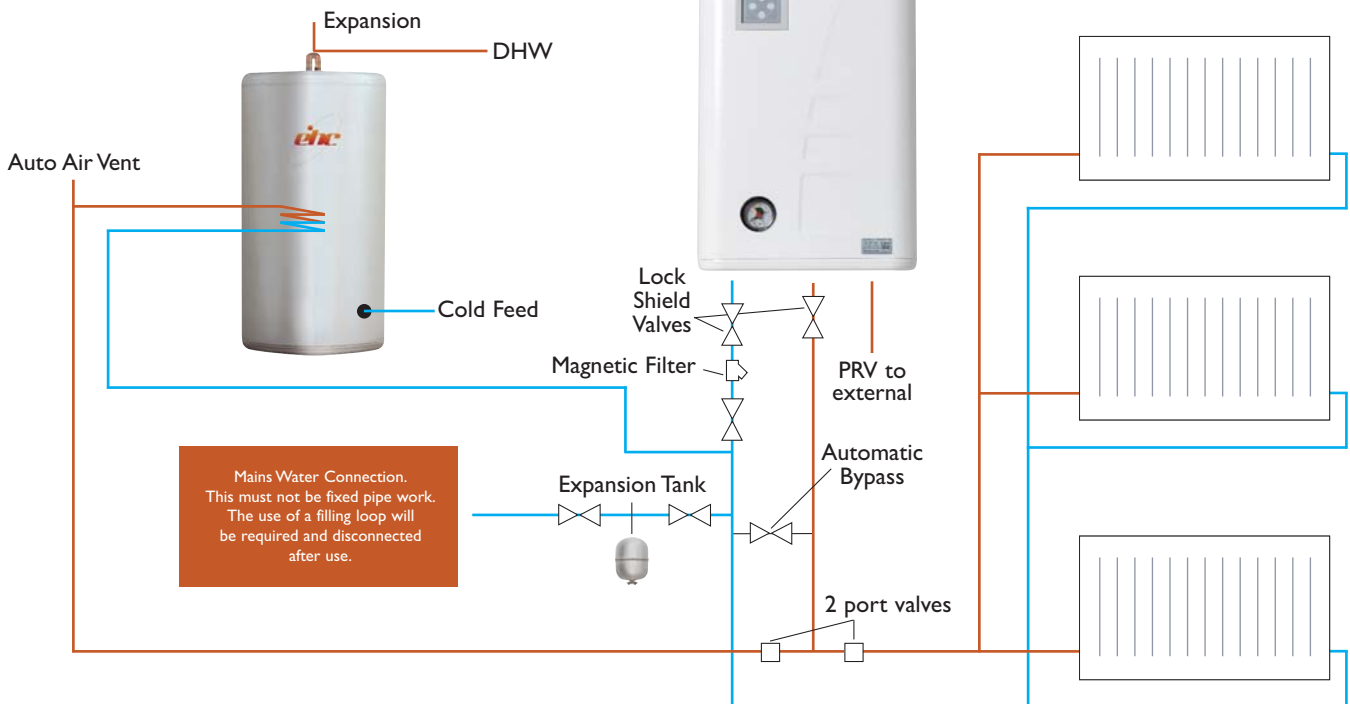
If space is at a premium the slimline model will provide the perfect solution as an expansion vessel can be installed external to the boiler.

Heating only

Mains Water Connection. This must not be fixed pipe work. The use of a filling loop will be required and disconnected after use.



S-plan Heating & Hot Water



N.B. The above schematics are for illustration purposes only. Please consult the Fusion installation manual for full instructions.

The Fusion boiler is pictured below with the energy saving Mercury radiators and the Neptune range of unvented stainless steel cylinders.



The Fusion E10 Combination unit



Mercury white wet system radiator



Venus chrome towel rail

Visit our website for further information on the complete range of EHC products and package offers.

Combination Units

Where space is limited EHC can provide the **Fusion E10** Combination unit which is pre-plumbed and pre-wired. Further details available upon request or alternatively visit our website.

Electricity Tariff information

Should you choose our **Fusion Boiler** range, The Electric Heating Company will ensure you are informed of the benefits of both the **Economy 10** and **Staywarm** electricity tariffs.

The Economy 10 tariff offers 10 hours of preferential rate **Off Peak** electricity per day. The Staywarm electricity tariff is available for tenants who are at least 60 years of age.

Controls

EHC Heating only:

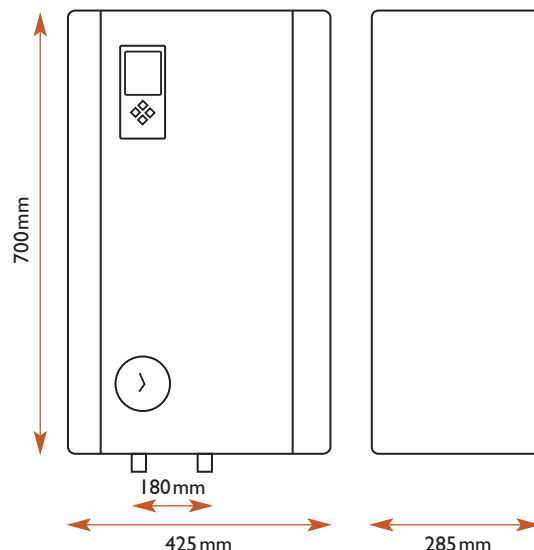
EHC Single Channel Heat Pack

Central Heating & Domestic Hot Water:

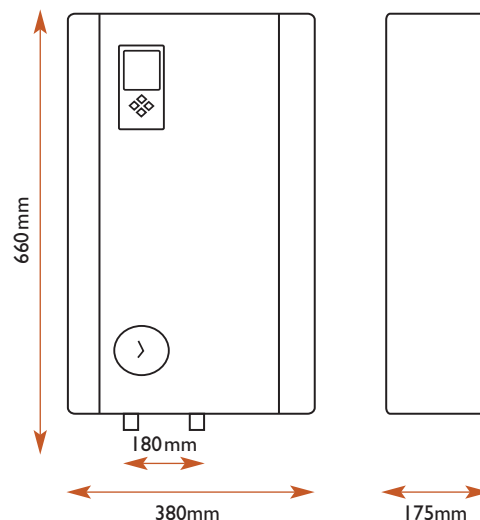
EHC Twin Channel Heat Pack



Standard Boiler dimensions



Slimline Boiler dimensions



Technical Specifications

Boiler Range	kW	6kW	9kW	12kW	14.4kW
Pipe entry from boilers		Bottom entry			
Flow & Return Pipes	mm	22			
Min Water Pressure	Bar	1.0			
Max Water Pressure	Bar	3.0			
Expansion Vessel	Litre	6.0			
Dry weight	Kgs	25			
Electricity Supply		230/240V 1ph 50 Hz			
Load/Current	Amp	26.1	39.1	52.2	62.6
Heating output	Btu	20.478	30.717	40.956	49.147
Potentiometer Max Temp Settings (Factory Set)	°C	85			
Min Temp Setting	°C	40			
Overheat Protection	°C	100			
Pump included		Yes			
Recommended Pump settings		Set to max			
Protection	Amp	32	45	63	80
Standard Boiler Dimensions	mm	700 x 425 x 285			
Slimline Boiler Dimensions	mm	660 x 380 x 175			

Visit our website for 3 phase Fusion Boilers available in 24kW and 36kW.

Disclaimer - All figures quoted are correct at time of printing and may be subject to change



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