

DATA SHEET

## Electromax

### COMBINED ELECTRIC FLOW BOILER AND DIRECT UNVENTED HOT WATER CYLINDER

Electromax is the combination of an electric flow boiler with a hot water storage cylinder and a pre-plumbed, factory fitted circulating pump. Electromax can provide wet central heating and a hot water supply, both at the same time if required, with only a mains electrical connection and cold water supply needed. The integral duplex stainless steel unvented cylinder has a 180 litre capacity, delivering mains pressure showering, fast filling baths and a balanced supply to multiple tap outlets. Electromax is designed for sealed systems and is compact in size, easily fitting into a standard domestic airing cupboard and is available in two domestic kW sizes.



**180**  
mins

HEAT UP  
TIME

**57**  
Litres

ONE HOUR  
BOOST

**6 or 9**  
kW

BOILER  
OUTPUT

#### FEATURES

Underfloor and radiator boiler models available

Combined package of boiler and unvented cylinder

99.8% boiler efficiency and integrated economy controller

TP5000 and TP9000 controllers provided

#### BENEFITS

Flexibility of heating system specified

Ease of installation provided through factory fitted components and combined product

High energy efficiency and money saving integration through use of economy tariffs

Provides end user comfort

# Electromax

## COMBINED ELECTRIC FLOW BOILER AND DIRECT UNVENTED HOT WATER CYLINDER

### TECHNICAL SPECIFICATION

Model	6KW RADIATOR	9KW RADIATOR	9KW UNDERFLOOR	6KW UNDERFLOOR
Product code	95:022:234	95:022:236	95:022:226	95:022:227
<b>DHW cylinder</b>				
Off peak immersion heater input (kW)	3 @ 240V 2.8 @ 230V	3 @ 240V 2.8 @ 230V	3 @ 240V 2.8 @ 230V	3 @ 240V 2.8 @ 230V
Boost immersion heater input (kW)	3 @ 240V 2.8 @ 230V	3 @ 240V 2.8 @ 230V	3 @ 240V 2.8 @ 230V	3 @ 240V 2.8 @ 230V
Rated pressure (bar)	6	6	6	6
Pressure Reducing valve*** (bar)	3.5	3.5	3.5	3.5
Capacity (litres)	180	180	180	180
DHW expansion vessel (litres/bar)	18/3.5	18/3.5	18/3.5	18/3.5
Temperature/Pressure relief valve (°C/bar)	90/10	90/10	90/10	90/10
Combined thermostat (°C)	10-70	10-70	10-70	10-70
Resettable thermal cut-out (°C)	85	85	85	85
Minimum Insulation Thickness (mm)	40	40	40	40
Heat up time off peak Δt 45°C (mins)	180	180	180	180
Heat up time off peak Δt 50°C (mins)	200	200	200	200
First hour performance 3kW boost element Δt 45°C (litres)	57	57	57	57
Heat loss (kWh/24hr)	1.95	1.95	1.95	1.95
<b>Electric Boiler and Primary Circuit</b>				
Maximum electrical input (kW)	6 @ 240V 5.5 @ 230V	9 @ 240V 8.3 @ 230V	9 @ 240V 8.3 @ 230V	6 @ 240V 5.5 @ 230V
Electrical supply voltage (V)	220-240	220-240	220-240	220-240
Electrical supply frequency (Hz)	50	50	50	50
Internal fuse rating – pump supply (Amps)	2	2	2	2
Primary system operating pressure – min (bar)	1	1	1	1
Primary system pressure relief valve setting (bar)	3	3	3	3
Primary system expansion vessel (litres/bar)	12/1	12/1	12/1	12/1
Primary flow temperature radiator model (°C)	65-80	65-80	65-80	65-80
Primary flow temperature underfloor model (°C)	30-60	30-60	30-60	30-60

\*300mm minimum clearance must be allowed above the unit to allow for Top Panel access.

\*\*50mm minimum clearance must be allowed at either side of the unit.

\*\*\*Integral with cold water combination valve.

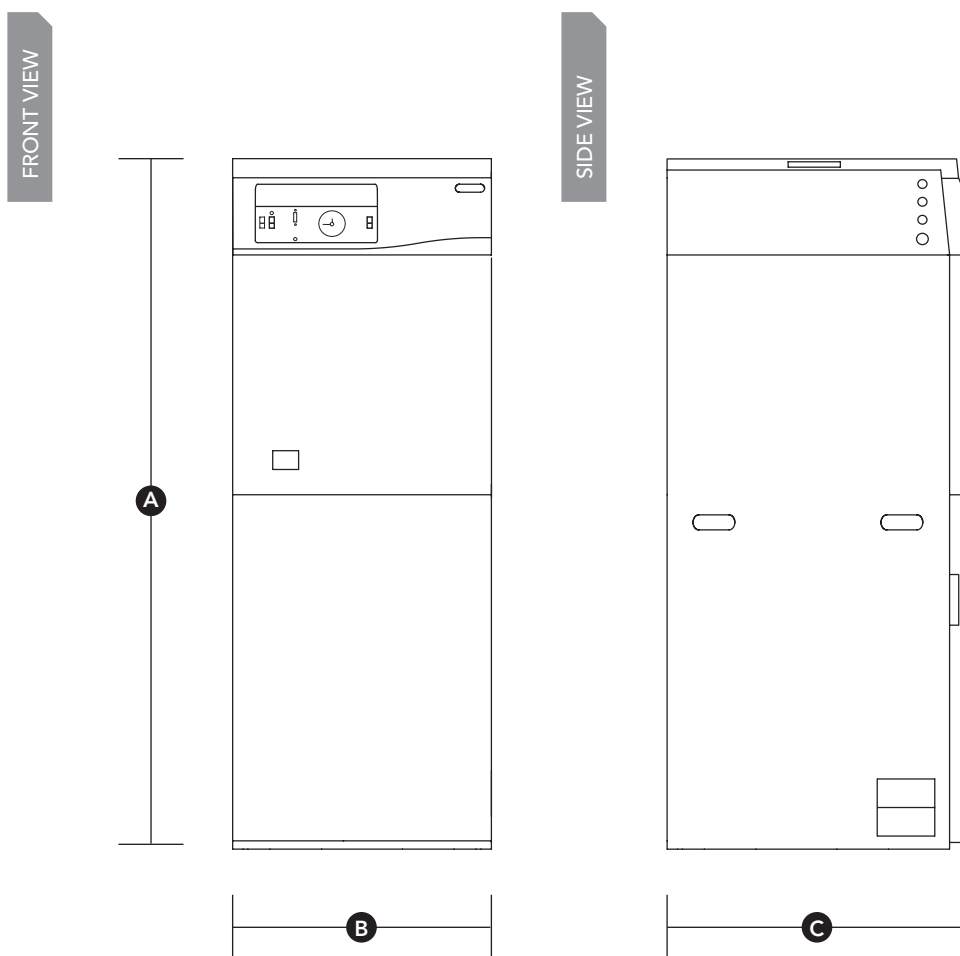
### ERP TECHNICAL DATA

#### Hot water

Water heating energy efficiency class of the model	C	C	C	C
Declared load profile	L	L	L	L
Mixed water at 40°C V40 in litres	286	286	286	286
Water heating energy efficiency (%)	37.9	37.9	37.9	37.9
Annual electricity consumption (kWh)	2701	2701	2701	2701
Daily fuel consumption Q <sub>fuel</sub> (kWh)	12.490	12.490	12.490	12.490
Thermostat temperature settings of the water heater, as placed on the market by the supplier (°C)	60	60	60	60
Tested for off peak use	Yes	Yes	Yes	Yes

## DIMENSIONS

Model	6KW RADIATOR	9KW RADIATOR	9KW UNDERFLOOR	6KW UNDERFLOOR
A Overall Height (mm)	1476	1476	1476	1476
B Width (mm)	550	550	550	550
C Depth (mm)	600	600	600	600



### Heating

Seasonal space heating energy efficiency class	D	D	D	D
Rated heat output (kW)	6	9	9	6
Seasonal space heating energy efficiency (%)	37	37	37	37
Annual energy consumption (kW/h)	12986	19472	19472	12986



## CODES OF PRACTICE/LEGISLATION

### EU Directives:

- Energy Labelling of Water Heaters Directive 2010/30/EU
- Eco Design for Water Heaters Directive 2009/125/EU
- Low Voltage Directive (LVD) 2014/30/EU
- Electromagnetic Compatibility (EMC) Directive 2014/35/EU

### Legislation:

- Building Regulations Part G and Part L (England and Wales)
- Scottish Building Standards Section 4 and Section 6
- Building Regulations (Northern Ireland) Parts F1 and F3 and Part P
- Water Supply (Water Fittings) Regulations (England and Wales)
- The Water Byelaws 2004 (Scotland)
- Water Supply (Water Fittings) Regulations (Northern Ireland)

### Standards:

#### Relevant clauses of the following standards are complied with:

- EN 60379 Specification for measuring the performance of electric storage water heaters
- EN 60335-2-21 Safety Particular requirements for storage water heaters

#### Components supplied comply with the following standards:

- BS EN 60730-1 Automatic Electrical Controls – For households and similar use part 1: General Requirements

#### The use of these water heaters will aid in compliance with:

- BS EN 806 Parts 1 to 5: Specification for installations inside building conveying water for human consumption
- BS 8558 Guide to the design, installation, testing and maintenance of services supplying water for domestic use within buildings

### Manufactured in a factory approved to:

- BS EN ISO 9001
- OHSAS 18001
- ISO 14001

### Approvals:

- Kiwa Certification Number: 1512704
- Nemko (N-Mark) Certification Number: P06205866/A5



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Please recycle this product once you have finished with it

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Heatrae Sadia may introduce modifications to their products from time to time. Consequentially the details given in this data sheet are subject to alteration without notice.