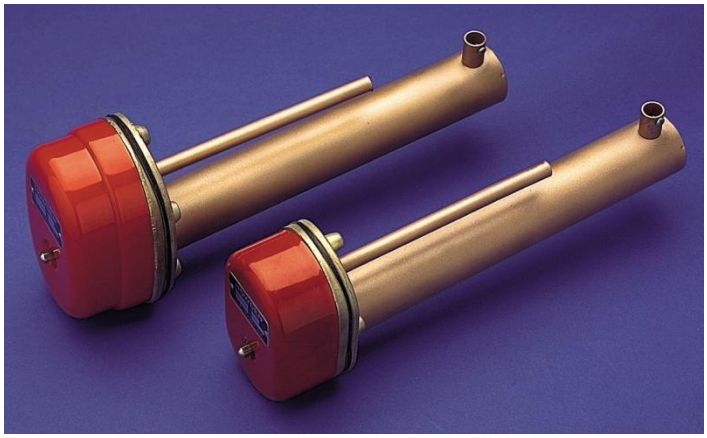
IMMERSION HEATERS

DH & WE RANGES



DH & WE RANGE APPLICATION

The side entry circulator is designed to provide the most efficient and economical method of heating vented domestic hot water cylinders and can be fitted to cylinders that have no existing heater connection.

The first advantage of the circulator is that the cylinder is heated from the top down unlike the standard immersion heater which heats the cylinder at a more even rate. Top down heating allows water to be drawn off almost immediately rather than waiting for the entire cylinder to be heated and can therefore save energy.

The second advantage is that if wired appropriately the cylinder can be heated during off-peak tariffs while also providing a boost at other times

Note: Circulator casings are not suitable for hard water areas.

STANDARD RANGE

The standard DH and WE range of circulators is designed to heat water in domestic or light duty building service applications.

Models are available without the circulator case fitted for use in hard water areas. Most models are designed to be compatible with copper cylinders only, but the WE603 model can be fitted to copper or stainless steel cylinders.

The range is fitted with Copper or Nicalloy 825 elements which have an average watts density between 12 W/cm^2 and 17W/cm^2.

All easily accessible live components are insulated. This is not the case on most equivalent products sold by other manufacturers and is an enhanced safety feature.

DH - 6 BOLT SERIES

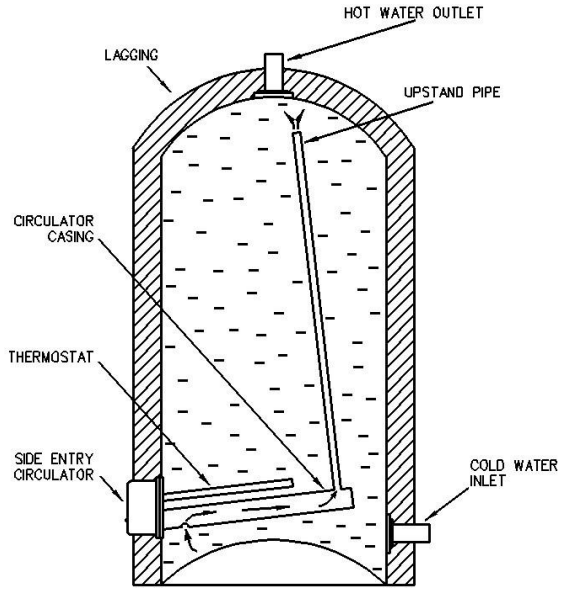
List Numbers		kW Load @ 240V	Minimum Tank Dia mm(in)
Copper Elements	Nicalloy 825 Elements		
DH501	DH601	3	300 (12")
DH502	DH602	3	250 (10")

WE - 4 BOLT SERIES

List Numbers		kW Load @ 240V	Minimum Tank Dia mm(in)
Copper Elements	Nicalloy 825 Elements		
WE501	WE601	3	300 (12")
WE502	WE602	3	250 (10")

WE - 4 BOLT SERIES - NO CIRCULATOR FITTED

List Numbers		kW Load @ 240V	Minimum Tank Dia mm(in)
Copper Elements	Nicalloy 825 Elements		
WE503	WE603	3	280 (11")



MOUNTING

The heater is fitted to the side of the cylinder by means of a supplied mechanical flange with 6 or 4 bolts, depending on product range. Two EPDM WRAS approved gaskets are supplied.

The mechanical flange means that the heater can be installed in cylinders without an existing heater connection. All that is required is a power drill, hole cutter and some basic tools. Full instructions are supplied with the heater.

TEMPERATURE CONTROL

Standard models are supplied with a factory fitted control thermostat with a range of 0°C to 70°C rated to 20 Amps incorporating a preset over-temperature cut-out set at 85°C. The over-temperature cut-out ensures the water temperature does not exceed 98°C and prevents the cylinder from boiling.

OPERATING TEMPERATURE & PRESSURE

Standard models have a maximum operating temperature of 70°C and a maximum operating pressure of 2.5 Bar.

VOLTAGE

Single phase heaters from our standard range are designed to operate at 230/240V.

Non-standard models can be supplied designed to suit operating voltages from 110V to 480V AC or DC. Please contact our Technical Department.

CONSTRUCTION

Heaters are manufactured to BS EN 60335 Section 2.73. Elements are brazed into the brass boss.

The terminal enclosure on the 6-bolt model is constructed in a tough, V_0 grade polymer.

The terminal enclosure on the 4-bolt model is constructed in stove enamelled mild steel.

Both ranges are provided with a cord grip to accept heat resisting cable.

All models, except the WE603, are constructed to be compatible with copper cylinders only. The WE603 model can be fitted to copper or stainless steel cylinders.

COMMON VARIATIONS

Please contact our Technical Department for further details.

- Various kW loadings and voltages.

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