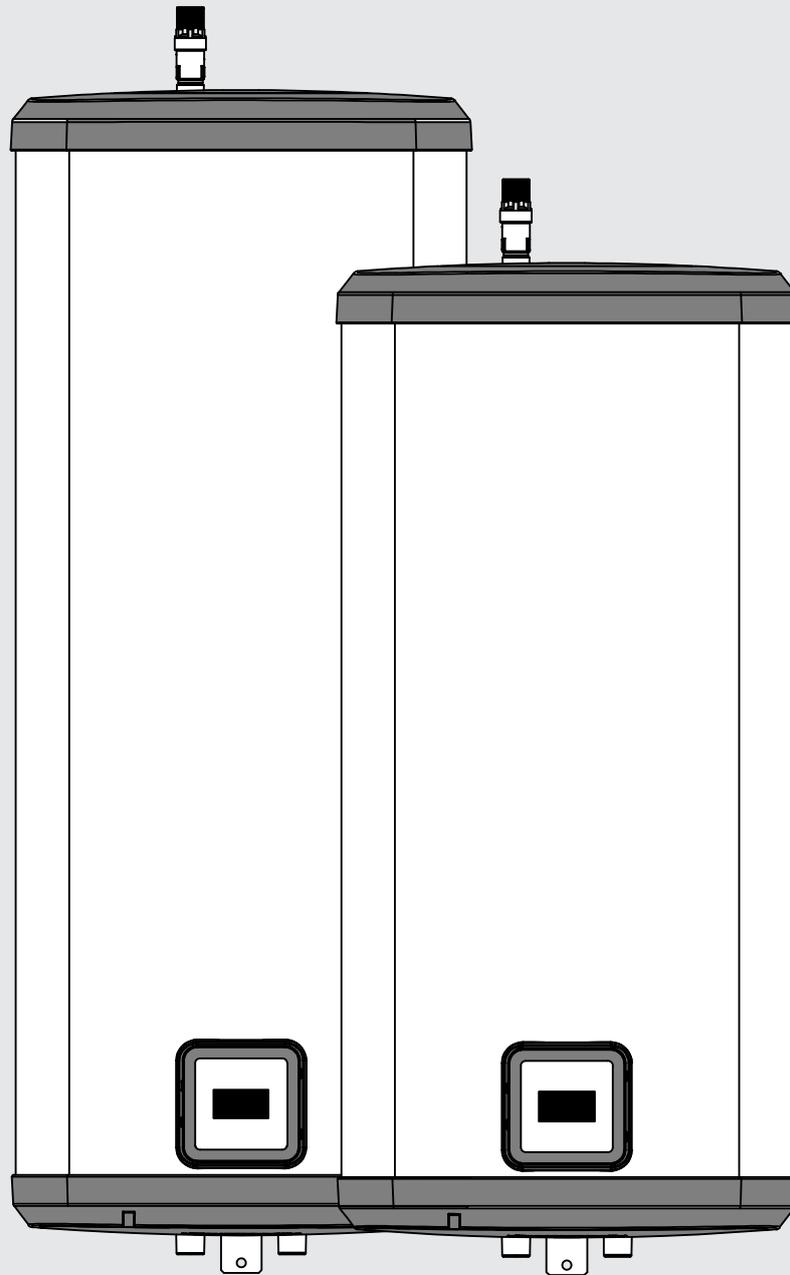


# HEATRAESADIA

SMARTER | CLEANER | WARMER

## Multipoint ECO Vertical 3kW 30 - 100 Litres Quick fit manual



# 1. Main Components & Pre-Installation

## 1.1 Installation regulations



### WARNING

Installation of the appliance must be done by a qualified engineer in accordance with prevailing and national regulations as listed below.

- ▶ Building Regulations G3
- ▶ The Building Standards (Scotland)
- ▶ The Building Regulations (Northern Ireland)
- ▶ I.E.E Electrical Regs
- ▶ UK Water Regulations

## 1.2 Installation requirements

### Water supply and Connections

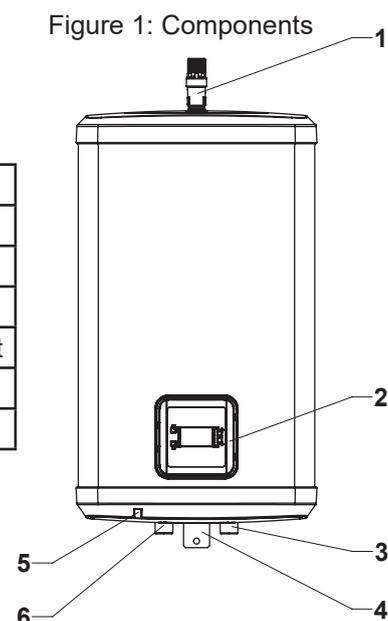
In an unvented system the pressure and flowrate is directly related to the incoming water supply.

- ▶ Minimum supply requirements should be 0.08MPa (0.8 bar) pressure and 20 litres per minute flow rate.
- ▶ A 22mm cold water supply is recommended
- ▶ The PRV supplied can be connected to a maximum mains pressure of 1.6MPa (16 bar).
- ▶ Following the PRV all fittings, pipework and connections must have a rated pressure of at least 0.6 Mpa (6 bar) at 80°C.

## 1.3 Components

Item	Description
1	T&P Relief Valve
2	User Interface
3	Inlet
4	Mounting Bracket
5	Neon Indicator
6	Outlet

Table 1: Components



The delivery includes:

- ▶ Water Heater
- ▶ Wall Mounting Brackets
- ▶ Literature Pack
- ▶ Cold Water Control Pack
  - ▶ Expansion Vessel (inc bracket)
  - ▶ Tundish
  - ▶ Pressure reducing valve (PRV)
  - ▶ Expansion (Pressure) Relief Valve
  - ▶ Check Valve
  - ▶ Compression Nuts

# 2. Installation - General

## 2.1 General

### Mounting the water heater

- ▶ Wall fixings must support up to 130kg, see full installation manual for weights table.
- ▶ 300mm service clearance required below unit.
- ▶ The top bracket bolts should be screwed in until they stop and stick out 8mm as shown Figure 2.
- ▶ Secure the top bracket to the wall using appropriate fixings - recommend 3 evenly spaced.
- ▶ Secure the lower bracket to unit as per figure 3.
- ▶ Locate top appliance bolts in the the wall bracket.
- ▶ Secure the lower bracket to the wall, figure 3.

## 2.2 Electrical

- ▶ Ensure the electrical supply is of sufficient current and voltage rating - see product rating plate.
- ▶ The flexible cable, supplied; must be wired into an appropriate termination with dedicated isolation.
- ▶ The wires are colour coded as follows:

Green and Yellow	EARTH	(⊕)
Brown	LIVE	(L)
Blue	NEUTRAL	(N)

Figure 2: Top Bracket

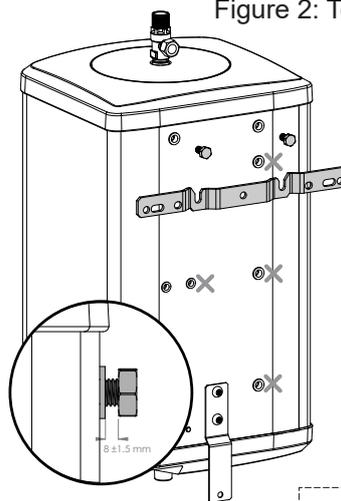
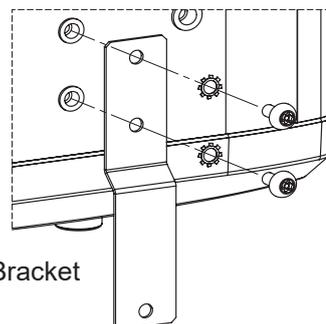


Figure 3: Lower Bracket



### 3. Installation - Water



#### WARNING

- ▶ Under no circumstances should the factory fitted Temperature/Pressure Relief Valve be removed.
- ▶ The cold water controls supplied MUST be fitted to the mains water supply to the appliance.
- ▶ The discharge pipe should not be blocked or used for any other purpose.
- ▶ The tundish should not be located adjacent to electrical components.

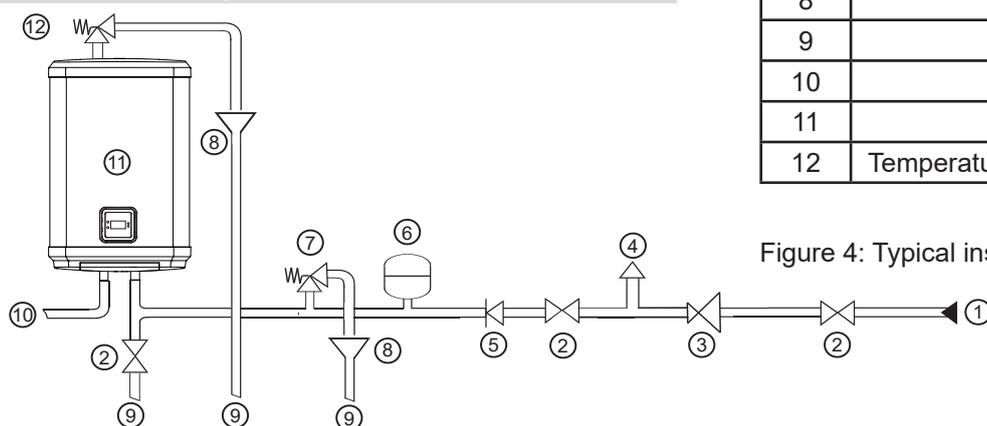


Figure 4: Typical installation - schematic (not to scale)

Table 2: Typical installation table

Item	Description
1	Cold Water Mains in
2	Service Valve (not supplied)
3	Pressure Reducing Valve (PRV)
4	Balanced Cold Water Draw Off
5	Check Valve
6	Expansion Vessel
7	Expansion (Pressure) Relief Valve
8	Tundish
9	To Drain (Waste)
10	Hot out
11	Water heater
12	Temperature and Pressure Relief Valve

- ▶ All appliance pipe fittings are made via 22mm compression fittings, threaded 3/4" BSP male parallel.
- ▶ A servicing valve must be incorporated into the cold water supply
- ▶ The expansion vessel must be connected between the check valve and the appliance.
- ▶ It is recommended that the outlet point of the drain pipework be at least 1 metre below the level of the base of the appliance (this can be achieved by attaching a hose to the drain tap outlet spigot).
- ▶ Safety discharge connections (including the tundish) must conform to G3 building regulations.

### 4. Commissioning & Controls

#### 4.1 Commissioning procedure

- ▶ Ensure water supply is turned on - allow tank to fill.
- ▶ Switch on electrical supply to the water heater. You will notice that the display and all options will light up for a few seconds.
- ▶ After a few seconds the display will go into its default "S" smart setting. The "°C" graphic will blink indicating water heating cycle is active.
- ▶ In this default mode the temperature of the water is automatically selected but will adjust based on the usage patterns learnt.



#### WARNING

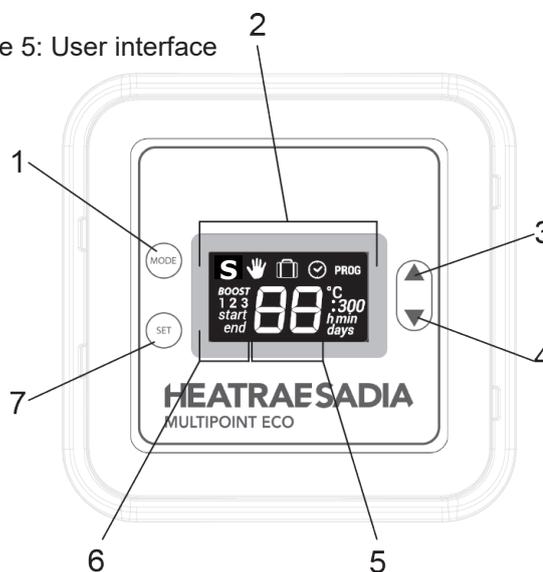
DO NOT apply electricity to the water heater until the unit has been filled with water.

#### 4.2 User Interface

Table 3: User interface

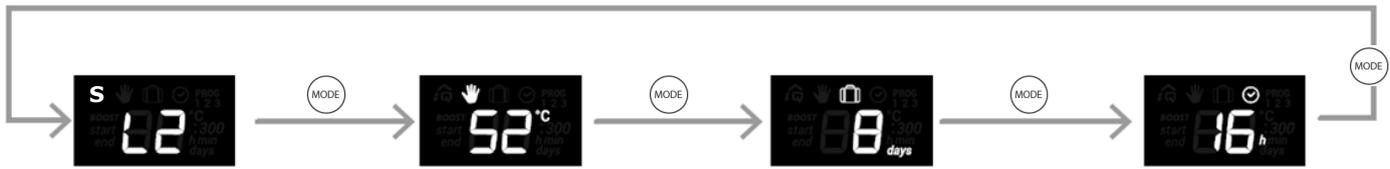
Item	Description
1	Mode selection and programming
2	Selected mode
3	Temp up/level up
4	Temp down/level down
5	2 digit display
6	Program periods
7	Validation and Boost

Figure 5: User interface



### 4.3 Mode Selection

Core modes: to move from one mode to another or to set the clock, short press **MODE** button.



The selected mode or the set of the clock is validated by pressing the **SET** button

- S** Smart Mode: Permanently monitors and learns hot water consumption habits and after a minimum of one week learning period, automatically adjusts hot water production according to past recorded consumptions. A minimum of hot water availability is guaranteed depending on the selected level of comfort.
- Hand** Manual Mode: Maintains the total volume of water at a temperature according to the selected temperature
- Calendar** Vacation mode: Keeps the water temperature at a minimum level avoiding any water freezing.
- Clock** Set Time Mode: To set the current time in hours and minutes.

### 4.4 Manual Mode

In Manual mode, the water heater regulates water temperature at a stable temperature. The temperature is selected by using the **▼** or **▲**, in range from 40°C to 75°C.

The requested temperature is validated by pressing the **SET** key

The real-time water temperature at bottom of the tank is permanently display.



### 4.5 Other Modes and Settings

For all other modes and settings consult the full Installation, Operation and Maintenance Manual.

### 4.6 Explanation to the User

After commissioning the following should be explained to the user:

- ▶ Correct operation of the unit.
- ▶ The position of the water and electrical isolation points.
- ▶ How to identify a malfunction of the unit.
- ▶ The service and maintenance requirements.

The commissioning record in the full Operating and Maintenance Instructions should be completed and then these left with the user for future reference.

**This Quick Fit Guide must be used in conjunction with the full Installation, Operation and Maintenance Manual**

Heatrae Sadia, Hurricane Way, Norwich, Norfolk, NR6 6EA

SPECIFICATION ADVICE HOTLINE

t | 01603 420220 e | specifier@heatraesadia.com

AFTER SALES SERVICE

t | 0344 871 1535 e | customer.support@heatraesadia.com  
w | heatraesadia.com



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