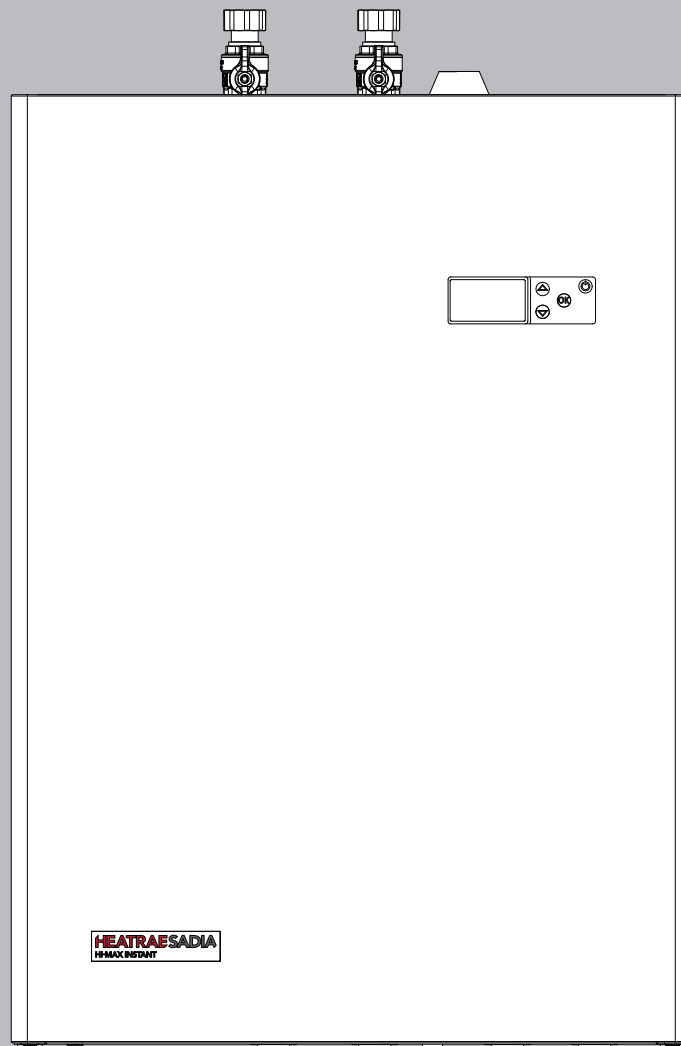


HI-MAX INSTANT Indirect HIU

First Fix Rail / Stand-off Kit Fitting Instructions



1. Installation

1.1 General

The Heatrae Sadia HI-MAX INSTANT unit can be supplied with an optional first fix rail or stand-off kit for ease of installation. The rail allows the installer to pipe up and test the pipework to and from the heat interface unit without the need to have the heat interface unit on site.

The stand-off kits are available with the Heatrae Sadia HI-MAX INSTANT to allow the installer to reconfigure the connection positions.

A safety valve discharge pipe connection is provided in the 1st fix rail to allow the installer to carryout all piping work at the same time.

A cable entry point is provided in the top of first fix rail to allow the electrical contractor to route the power, room thermostat(s) and outdoor sensor cables into the unit.

1.2 Water connections configurations

The Heatrae Sadia HI-MAX INSTANT is supplied with the following connections:

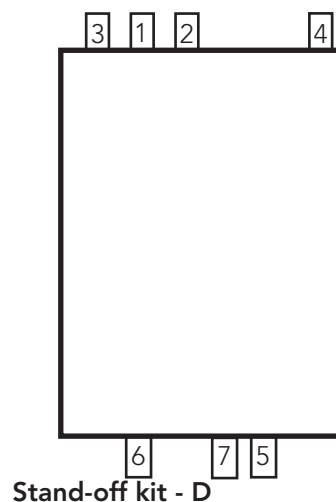
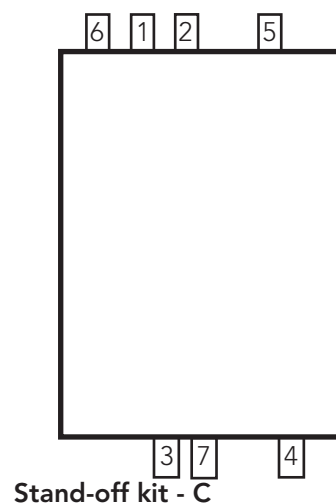
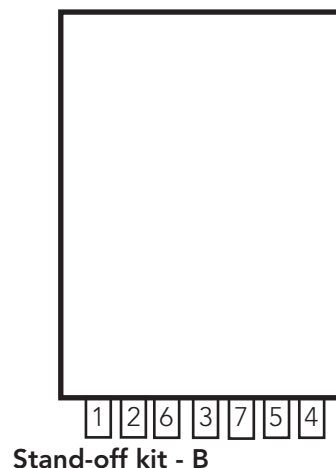
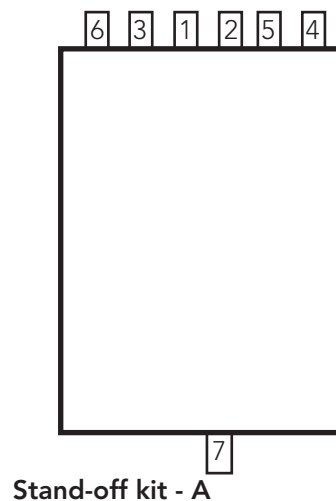
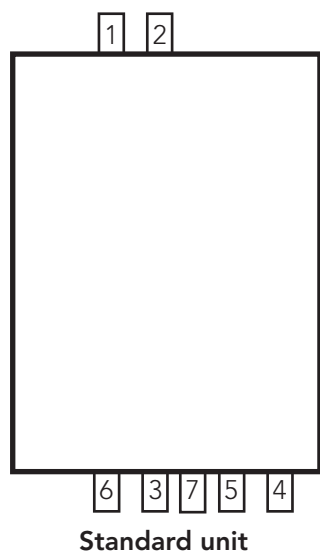
- 1) District heating flow connection 3/4"bsp female
- 2) District heating return connection 3/4"bsp female
- 3) Apartment heating flow connection 3/4"bsp female
- 4) Apartment heating return connection 3/4"bsp female
- 5) DHW cold feed connection 3/4"bsp female
- 6) DHW flow connection 3/4"bsp female
- 7) Safety valve discharge pipe 15mm

These can be reorientated with the use of a stand-off kit.

A basic stand-off kit is available to allow the installer to change the direction of the pipework and still pipe directly to the first fix rail.

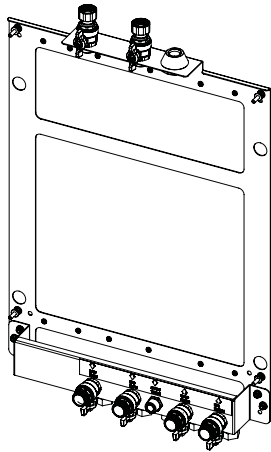
Figure 1 details the connection positions when using the first fix rail or stand-off kits.

Figure 1: Hydraulic connection position options



1.3 1st fix rail and stand-off kits

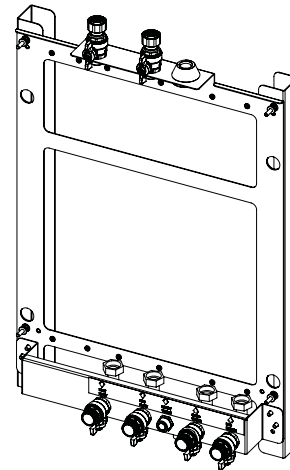
Figure 2 Different connection options



First Fix rail - 1 - Standard Configuration - 95:970:042

Top Connections: District Flow and District Return

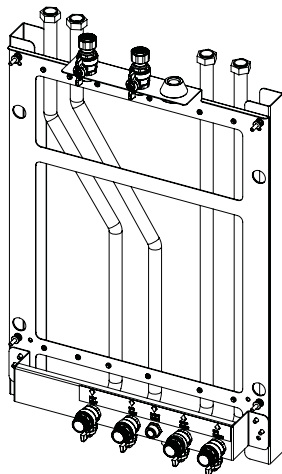
Bottom Connections: DHW Flow, Cold Feed, Heating Flow and Heating Return



Basic Stand-off kit - 95:970:602

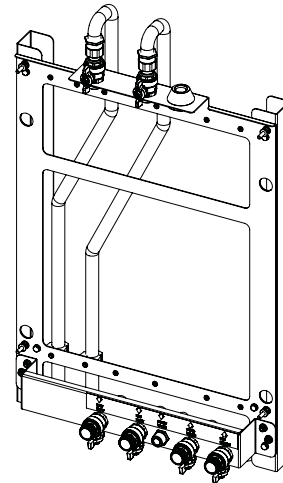
Top Connections: District Flow and District Return

Bottom Connections: DHW Flow, Cold Feed, Heating Flow and Heating Return



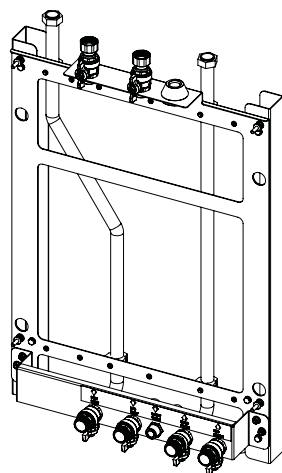
Stand-off kit - A - 95:970:046

Top Connections: District Flow, District Return, DHW Flow and Cold Feed, Heating Flow and Heating Return



Stand-off kit - B - 95:970:047

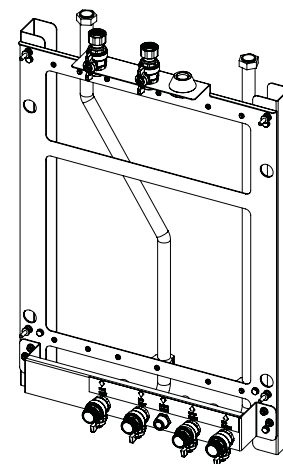
Bottom Connections: District Flow, District Return, DHW Flow, Cold Feed, Heating Flow and Heating Return



Stand-off kit - C - 95:970:048

Top Connections: District Flow, District Return, DHW Flow and Cold Feed,

Bottom Connections: Heating Flow and Heating Return



Stand-off kit - D - 95:970:049

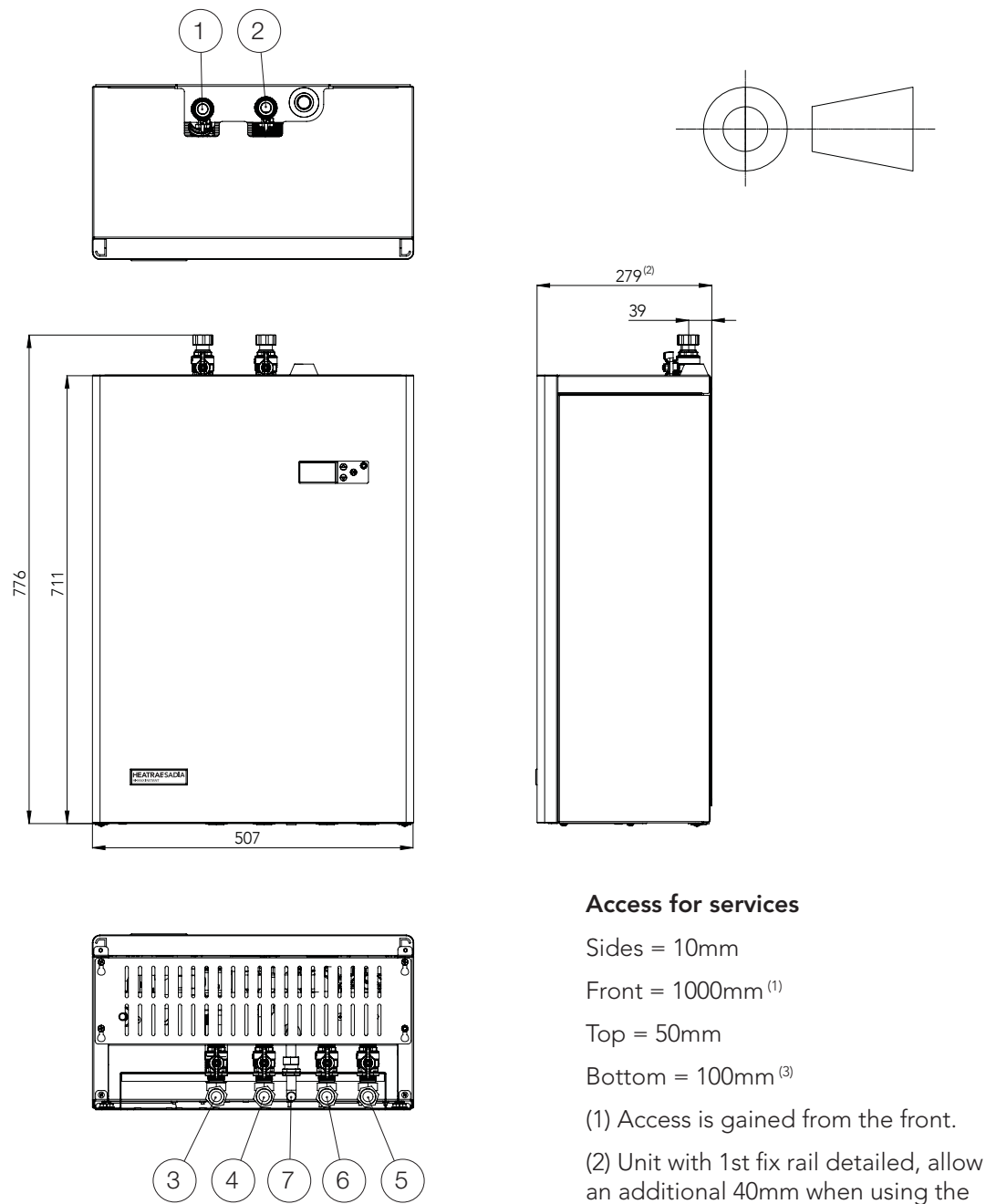
Top Connections: District Flow, District Return, Heating Flow and Heating Return

Bottom Connections: DHW Flow and Cold Feed

Note: Pressure relief valve discharge connection at bottom on all ID models

1.4 Dimensions and connections

Figure 3 Unit Dimensions



Access for services

Sides = 10mm

Front = 1000mm⁽¹⁾

Top = 50mm

Bottom = 100mm⁽³⁾

- (1) Access is gained from the front.
- (2) Unit with 1st fix rail detailed, allow an additional 40mm when using the stand-off kits A, B, C and D.
- (3) Access for casing screws.

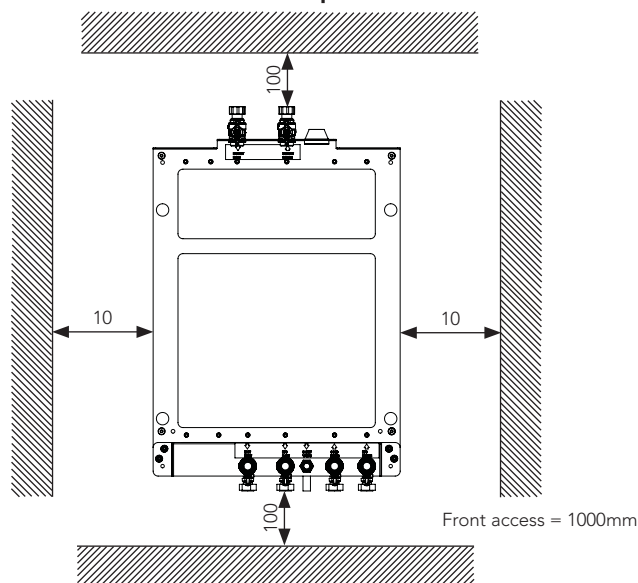
Connection	ID 5-60 & ID 5-80
(1) Community Heating Flow Connection	3/4" BSP Female
(2) Community Heating Return Connection	3/4" BSP Female
(3) Domestic Hot Water Flow Connection	3/4" BSP Female
(4) Apartment Heating Flow Connection	3/4" BSP Female
(5) Apartment Heating Return Connection	3/4" BSP Female
(6) Cold Feed Connection	3/4" BSP Female
(7) Heating Safety Valve Discharge Connection	15mm Pipe

Note: All dimensions are in mm and are reference only

2. Fitting Instructions

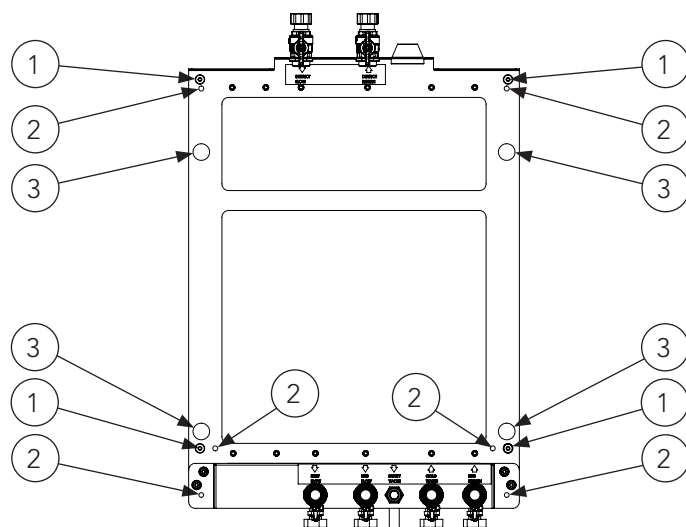
2.1 Access and mounting details

Figure 4 Minimum access requirements



i It is important that all fixing holes (Hole No.2 in Figure 5) are used as they give support to the valve rail. Failure to do so could lead to misalignment issues.

Figure 5 First fix mounting details



- 1) M6 studs for HIU fixing.
- 2) 7.5mm Dia hole for fixing the 1st fix rail to the wall or the 1st fix rail to the stand-off channels.
- 3) Access holes to the stand-off kits wall fixing holes.

i The unit is only suitable to be installed in one orientation, ie. with the community heating system isolation valves positioned at the top.

i All hot and cold water pipes should be labelled and insulated in accordance with Part L of the Building Regulations.

2.2 Wall fixing procedure

- 1) Ensure that the access requirements have been met.
- 2) Ensure the structure that the HIU will be fixed to will support the weight of the unit when full of water and with all its casings on. Max total unit wet weight = 45kg.
- 3) Position the 1st fix rail / stand-off kit on the wall ensuring it is level using a spirit level and mark out the six fixing holes.
- 4) Drill and plug the wall as necessary.
- 5) Fix the 1st fix rail / stand-off kit to the wall using suitable fixings and check that it is still level using a spirit level.

The unit is now ready to be plumbed in.



CAUTION

It is important that when piping to and from the 1st fix rail / stand-off kit that the connecting pipes are aligned with the connections on the 1st fix rail / stand off kit. Failure to do so could lead to damage of the isolation valves or misalignment issues.

Once all plumbing work as been carried out the HIU can be fitted.

2.3 HIU fixing procedure

- 1) Slide the four M6 studs on the 1st fix rail through the slotted holes in the Heatrae Sadia HI-MAX INSTANT



CAUTION

When fixing the HIU to the first fix rail it is important that you do not over tighten the nuts on the studs provided.

Maximum torque 3Nm.

Use a torque adjustment spanner.

HIU's back plate and secure loosely with the M6 nuts provided.

- 2) Insert the fibre washers supplied between the pipe connections on the HIU and the isolation valves / safety valve discharge pipe connection on the 1st fix rail. Lightly tighten up all of the connection nuts.
- 3) Make any final adjustments to the HIU position on the 1st first rail / stand-off kit as necessary and tighten up all four fixing nuts.
- 4) Gradually tighten up all flat face joints.



CAUTION

When connecting the HIU to the 1st fix rail / stand-off kit, do not over tighten the joints.



CAUTION

When piping to and from the 1st fix rail / stand-off kit, take care not to flex the bracketry as this could lead to misalignment issues.

3. Flushing Bypass

3.1 Community heating flow and return connections

The community heating (district heating) flow and return connections are located at the top of the HIU, unless stand-off bracket B is used, in which case they will be found at the bottom of the unit. Please see Figure 1 on page 2 for more details.

3.1 Community heating flushing bypass

It is recommended that a flushing bypass arrangement is installed in the community heating flow and return pipes to the unit. The flushing bypass (FBP) is a pipe between the district flow and return pipes fitted with an isolation valve to allow the distribution network to be flushed free of debris during the installation and commissioning process (as detailed in Figure 6).

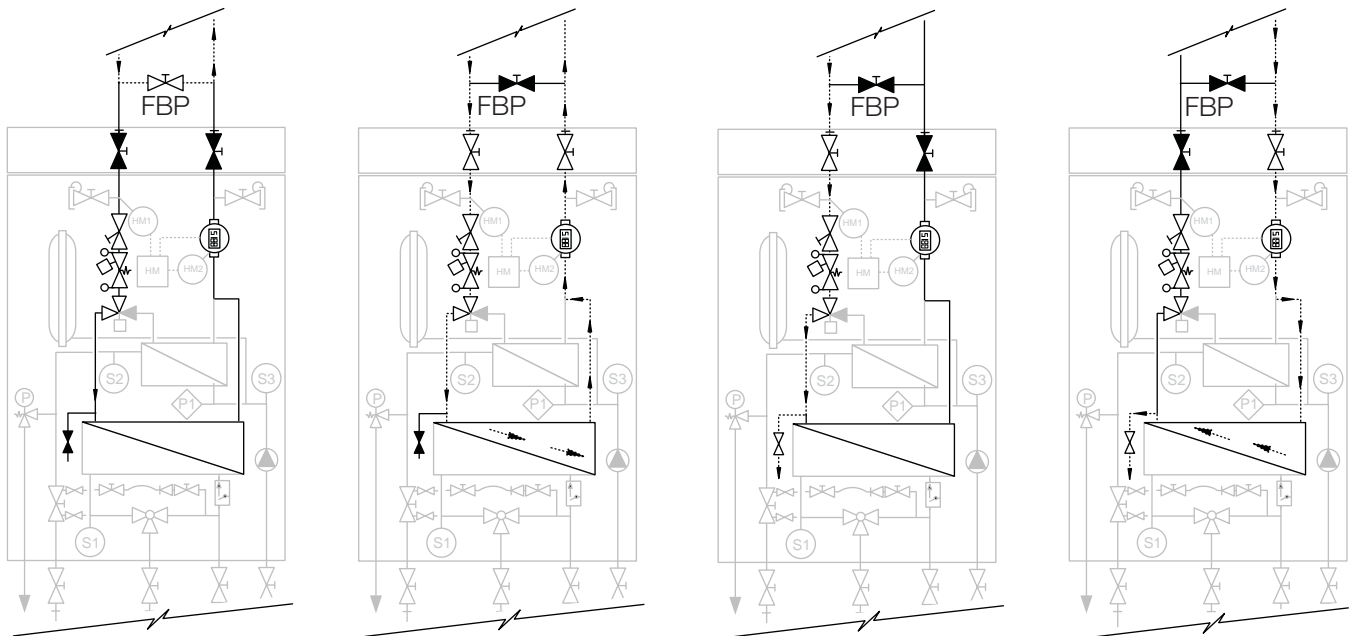


Note there are drain valves fitted in the HIU which can be used for forward and back flushing purposes during maintenance. Do not forward or back flush debris through the unit during the commissioning phase of the installation.



Note there is a drain valve fitted in the cold feed pipe in HIU, this can be used for flushing the cold water supply pipework prior to filling the hot water system.

Figure 6: Community heating flushing bypass

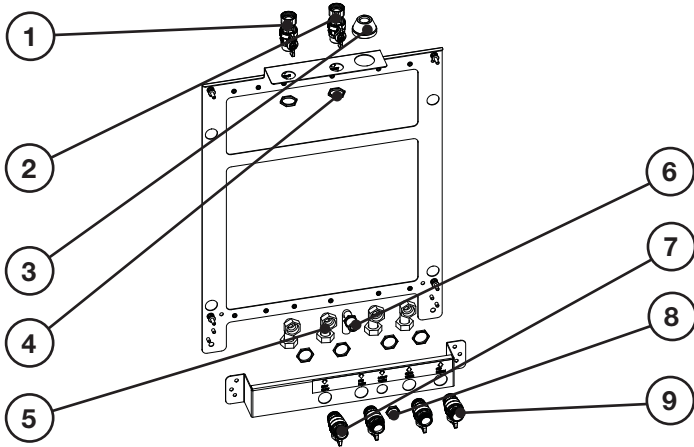


Legend

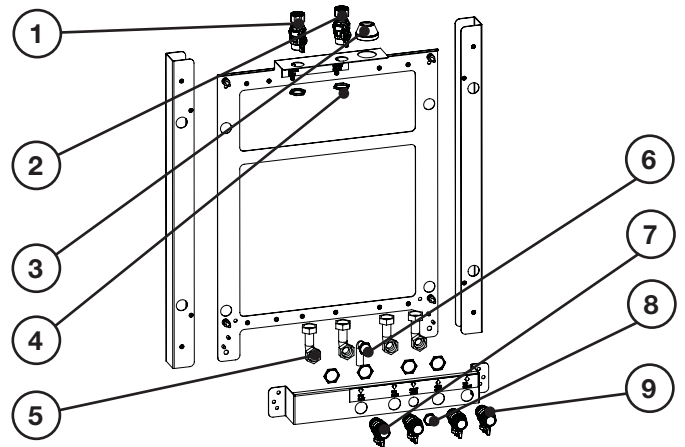
- Valve open
- Valve closed
- Water flow

4. Spares

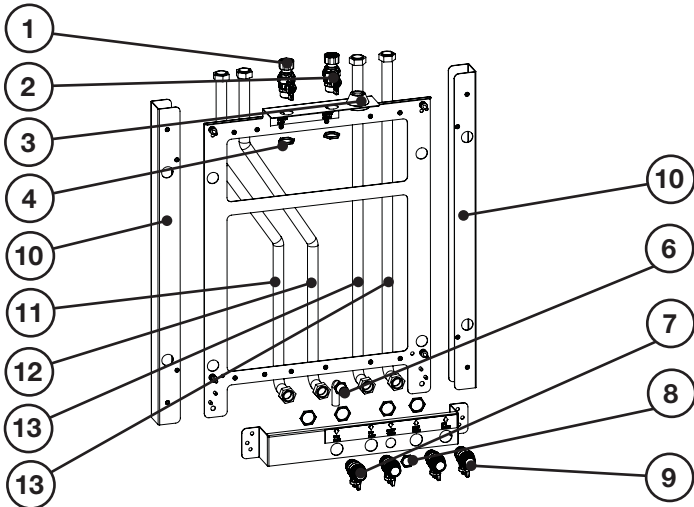
Spares - 1st fix rail



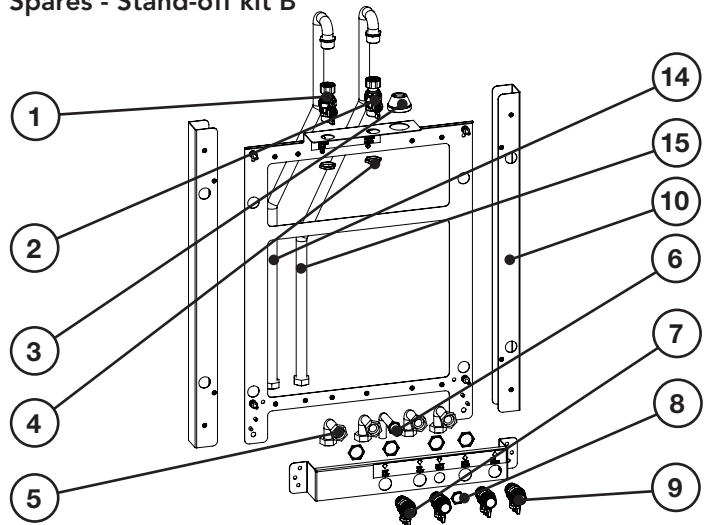
Spares - Basic Stand-off kit



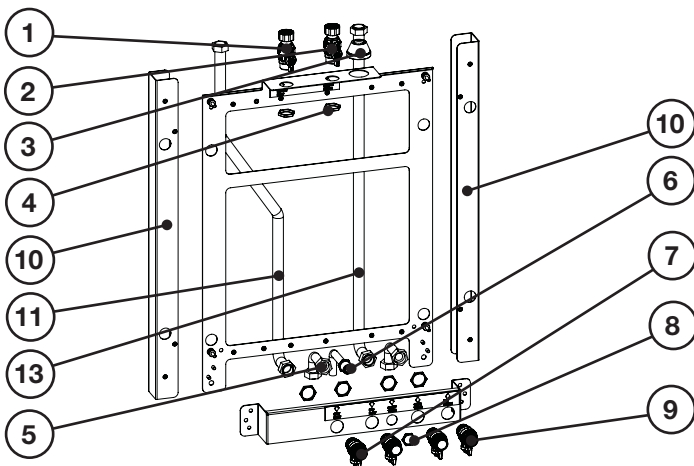
Spares - Stand-off kit A



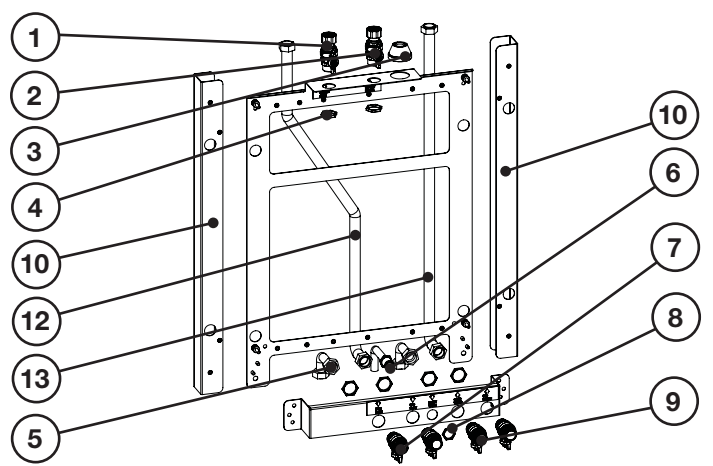
Spares - Stand-off kit B



Spares - Stand-off kit C



Spares - Stand-off kit D



Ref	Part Description	Spare Part Number	
		ID 5-60 (95:050:202)	ID 5-80 (95:050:203)
1	Isolation valve - district flow. 3/4" bsp male/female with RED butterfly handle and 2x3/4" gaskets.	95605125	95605125
2	Isolation valve - district return. 3/4" bsp male/female with BLUE butterfly handle and 2x3/4" gaskets.	95605126	95605126
3	IP55 Cable gland GW50432	95605134	95605134
4	Locking nut 3/4" set of 1	95607761	95607761
5	Pipe. Ball valve connection elbow 90° F/F complete with 2 x 3/4" gaskets.	95607781	95607781
6	Pipe. 15mm Safety valve discharge pipe (lower) complete with 1 x 1/2" gasket.	95607777	95607777
7	Isolation valve - heating flow / DHW flow. 3/4" bsp male with RED butterfly handle complete with 2 x 3/4" gaskets.	95605123	95605123
8	Locking nut 1/2" set of 1	95607814	95607814
9	Isolation valve - heating return and cold feed. 3/4" bsp male with BLUE butterfly handle complete with 2 x 3/4" gasket.	95605124	95605124
10	Stand-off channel.	95607784	95607784
11	Pipe. DHW flow stand-off pipe.	95607785	95607785
12	Pipe. Heating flow stand-off pipe.	95607786	95607786
13	Pipe. Cold feed and heating return stand-off pipe.	95607787	95607787
14	Pipe. District flow stand-off pipe.	95607818	95607818
15	Pipe. District return stand-off pipe.	95607819	95607819
Not detailed	Gasket & fixing set 1st Fix.	95611102	95611102

SPARES STOCKISTS:

Advanced Water Company Ltd
Unit D5 Enterprise Way
Vale Park, Evesham
Worcs, WR11 1GS
T: 01386 760066
F: 01386 760077

Electric Water Heating Co
2 Horsecroft Place, Pinnacles,
Harlow, Essex, CM19 5BT
T: 0845 055 3811
E: sales@ewh.co.uk

SPD
Units 9 & 10 Hexagon Business Centre
Springfield Road, Hayes,
Middlesex, UB4 0TY
T: 020 8606 3567

Parts Center
T: 0845 270 9800
W: www.partscenter.co.uk

Newey & Eyre
Unit 3/4/5 Wassage Way
Hampton Lovett Industrial Estate
Droitwich, Worcestershire, WR9 0NX
T: 01905 791500
F: 01905 791501

UK Spares Ltd
Unit 1155, Aztec West,
Almondsbury, Bristol, BS32 4TF
T: 01454 620500

William Wilson Ltd
Unit 3A, 780 South Street,
Whiteinch, Glasgow, G14 0SY
T: 0141 434 1530

Alternatively contact your local supplying
merchant or wholesale branch.