



FIRST-FIX KIT

POD HIU
i305 i405 i505 i605 i705
D30 D40 D50 D60

When replacing any part on this appliance, use only spare parts that you can be assured conform to the safety and performance specification that we require. Do not use reconditioned or copy parts that have not been clearly authorised by Ideal Heating.

For the very latest copy of literature for specification and maintenance practices visit our website idealheating.com where you can download the relevant information in PDF format.



This kit is suitable only for the Heat Interface Units listed below:

First Fix Kit POD HIU Indirect:

- POD i305
- POD i405
- POD i505
- POD i605
- POD i705

First Fix Kit POD HIU Direct:

- POD D30
 - POD D40
 - POD D50
 - POD D60
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1 INTRODUCTION

The first fix kit is a separately supplied pack to facilitate complete service connections to both network and residential hydraulic services before the final installation of a Heat Interface Unit (HIU).

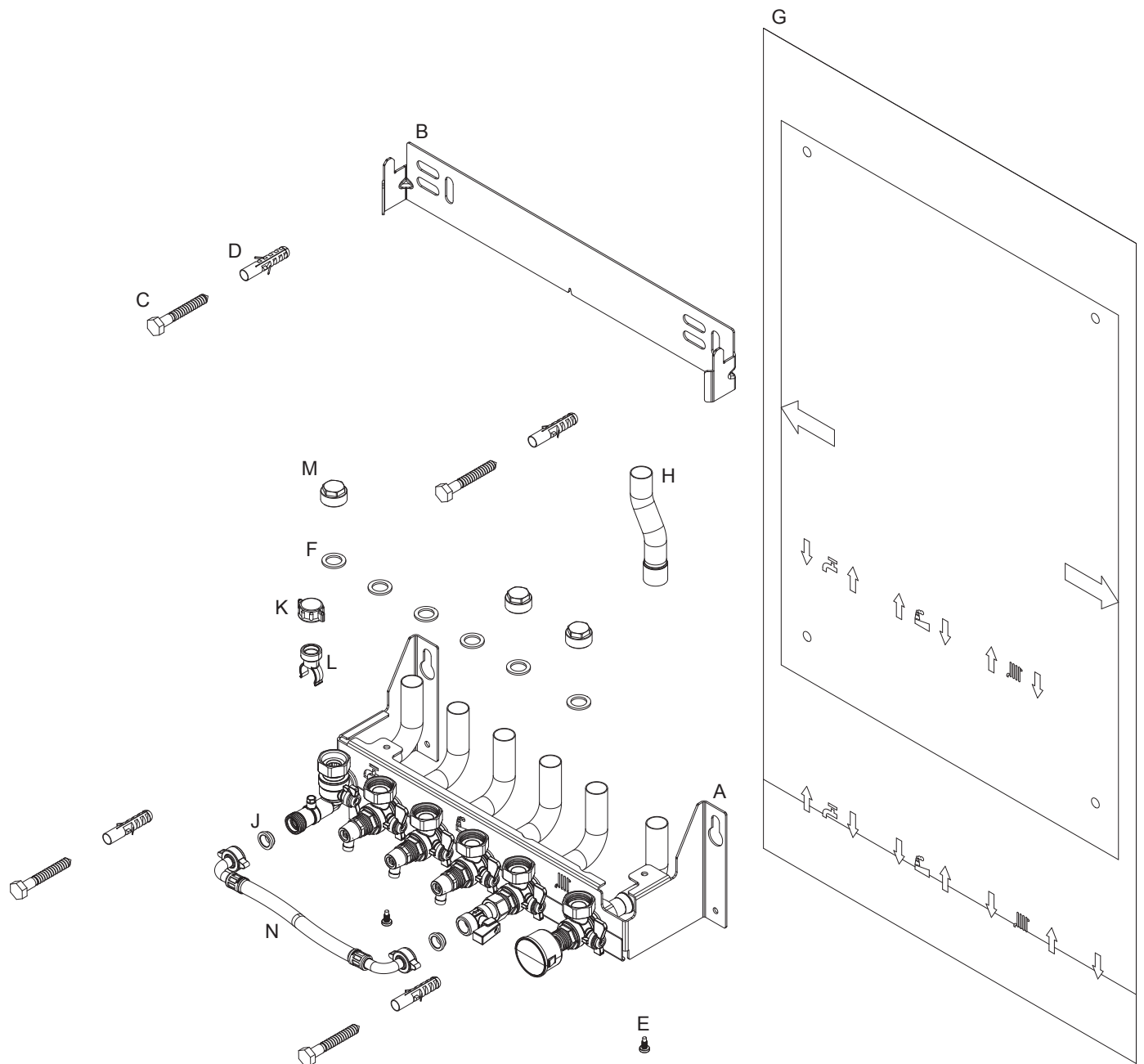
The kit provides the flexibility to route pipework from above or below the installation location prior to availability of the main appliance. This may be particularly beneficial on sites where the main unit is susceptible to theft or damage during construction, or where construction of the primary system is more advanced than the secondary systems.

2 KIT CONTENTS

- A. Valve Assembly (Direct/Indirect specific) 1 off
- B. Wall Mounting Bracket 1 off
- C. M10 x 70 Coach Screw 4 off
- D. Wall Plug 4 off
- E. M5 x 12 P/P Dog Point Screw 2 off
- F. Gasket Fibre (G3/4) 15 off
- G. Wall Template 1 off
- H. Pipe S Bend 1 off

The following items are also provided with Indirect variants only:

- J. Top Hat Washer (G1/2) 2 off
- K. Dust Cap (G1/2) 1 off
- L. Dust Cap Clip (G1/2) 1 off
- M. Threaded Plug (G3/4) 3 off
- N. Filling Loop Hose 1 off



3 PREPARATION

Ensure that all components are supplied as listed in the Kit Contents section.

Confirm that the substrate on which the kit will be installed is appropriate for the fixings provided. Where necessary the installer should discard the included fixings and obtain fixings suitable for the substrate.

Particular attention should be paid to the HIU Wall Mounting Template to ensure that service connections are arranged correctly and sufficient clearances are observed. Ensure the correct side of the wall mounting template is used as applicable to the kit (direct/indirect).

Pipework must be appropriate for the services being supplied, self-supporting and rigidly secured to the wall. All pipework installed in the void behind the appliance (ceiling fed) must be 22mm.

Location of Heat Interface Unit

The HIU must be installed on a flat and vertical internal wall, capable of adequately supporting the weight of the HIU and any ancillary equipment.

The HIU may be fitted on a combustible wall and insulation between the wall and the HIU is not necessary, unless required by the local authority.

For electrical safety reasons there must be no access available from the back of the HIU.

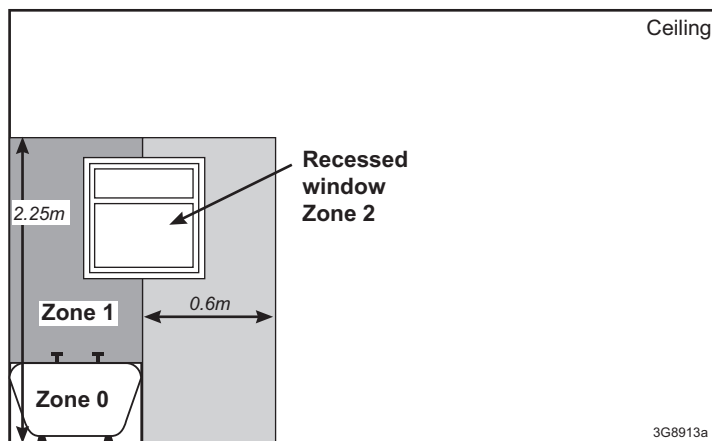
THE HIU MUST NOT BE FITTED OUTSIDE

Bathroom Installations

This appliance is rated IP20.

The HIU may be installed in any room or internal space, although particular attention is drawn to the requirements of the current IEE (BS.7671) Wiring Regulations and the electrical provisions of the building regulations applicable in Scotland, with respect to the installation of the HIU in a room or internal space containing a bath or shower. For IE reference should be made to the current ETCI rules for electrical installations and I.S. 813:2002.

If the appliance is to be installed in a room containing a bath or shower then, providing water jets are not going to be used for cleaning purposes (as in communal baths/showers), the appliance must be installed beyond Zone 2, as detailed in BS.7671.



Compartment Installations

A compartment used to enclose the HIU should be designed and constructed specially for this purpose.

An existing cupboard or compartment may be used, provided that it is modified for the purpose.

Braces for compartments must be easily removable for service access. In both cases, details of essential features of cupboard / compartment design, including airing cupboard installation, are to conform to the following:

BS.6798 (Temperature control ventilation is required - see 'Air Supply' for details).

The position selected for installation MUST allow adequate space for servicing in front of the HIU. This can be by means of an opening door.

For the minimum clearances required for safety and subsequent service, see the wall mounting template and sections below. In addition, sufficient space may be required to allow lifting access to the wall mounting bracket.

Dependant on the size and insulation aspects of the cupboard or room, air ventilation may be required to ensure the ambient air around the product does not exceed 35 °C. If it may exceed 35 °C then additional air vents and ventilation will be required in the room or internal space in which the HIU is installed.

Failure to provide an ambient operational environment of less than 35 °C may invalidate the warranty.

HIU Dimensions, Services & Clearances

The HIU connections are made on to the HIU first fix kit valve connection tails.

These are to be connected by suitable piping diameters. Please see table overleaf for reference.

A clearance around the unit is required of at least:

Top 100mm

Sides 20mm

Bottom of wall bracket 80mm

Front Clearance

The minimum front clearance when built into a cupboard is 25mm from the outward opening cupboard door.

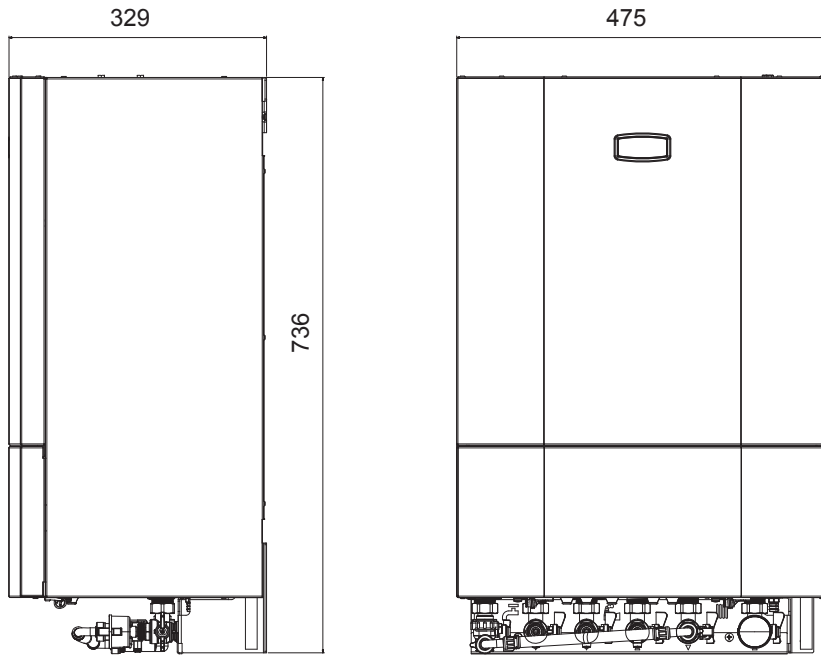
600mm overall clearance is still required with a cupboard door open, to allow for servicing.

Bottom Clearance

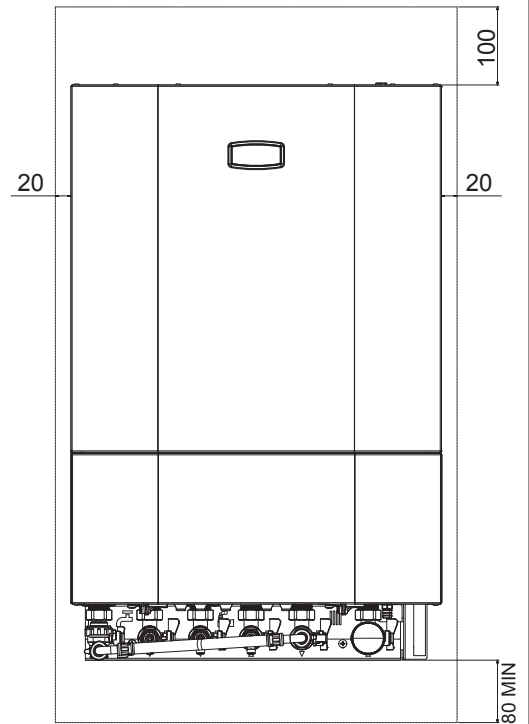
The bottom clearance from the underside of the wall bracket should be a minimum of 80mm in order to allow access to the HIU isolation valves and the CH filling loop system.

Refer to the wall mounting template for further information.

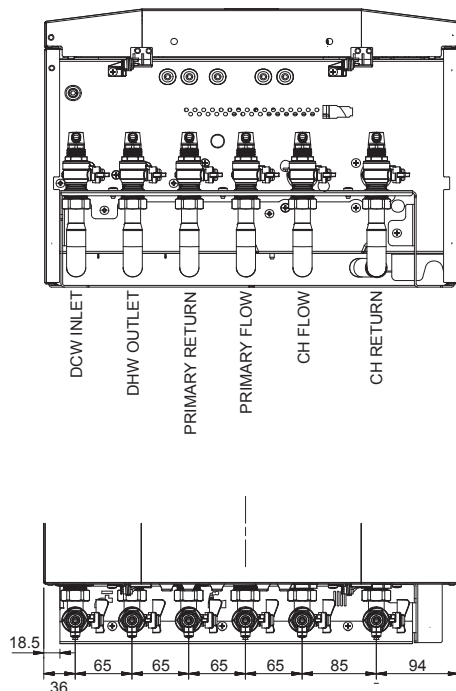
Dimensions



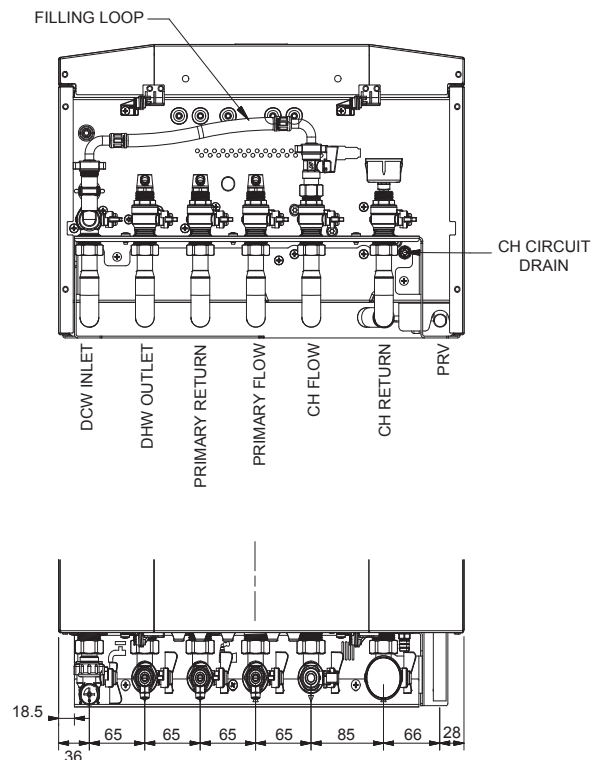
Clearances



Direct



Indirect



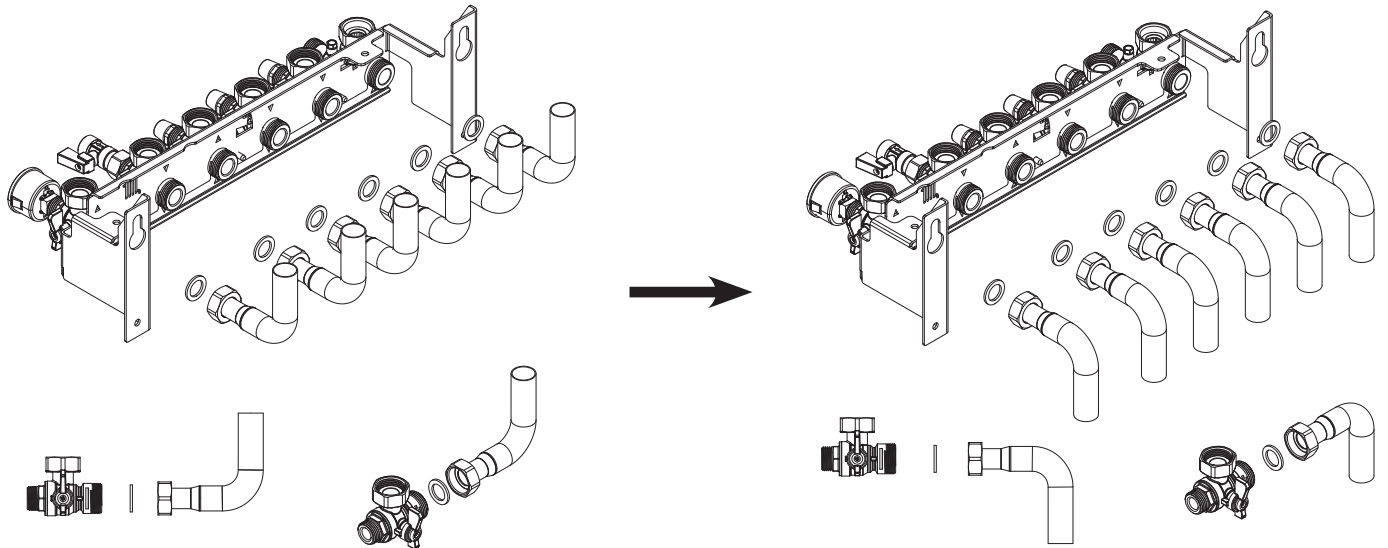
DIRECT AND INDIRECT MODELS

Inlet Connection	Domestic Hot Water	22mm copper
Outlet Connection		
Flow Connection	Central Heating	22mm copper
Return Connection		
Flow Connection	Primary	22mm copper
Return Connection		
Pressure Relief Safety Valve Outlet	Central Heating	15mm copper

Configure the pipework to suit piping direction

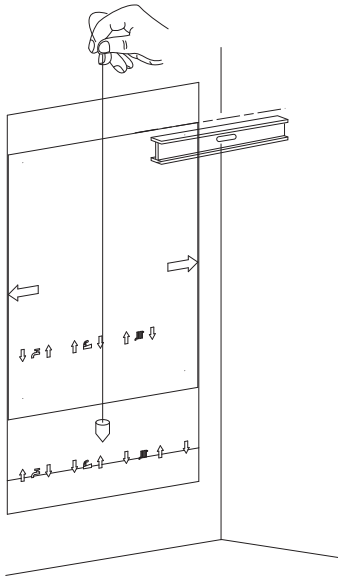
The appliance can be installed with service connections both above (ceiling fed) or below (floor fed) the unit. On supply the Valve Assembly (item A) is configured for a ceiling fed arrangement where all circuits are routed behind the appliance. Where alternate routings are required, the assembly must be reconfigured as follows:

1. Decide the routing of pipework and which circuits will be fed from above and below the unit.
2. Identify which circuits need the service connection elbows to be turned up or down.
3. For each circuit identified, remove the pipe elbow by unscrewing the nut from the back of the associated isolation valve. Old gaskets need to be discarded, and replaced.
4. Turn the pipe so it faces up or down as required.
5. Retighten the nut to 40 Nm ensuring the gasket is in place.



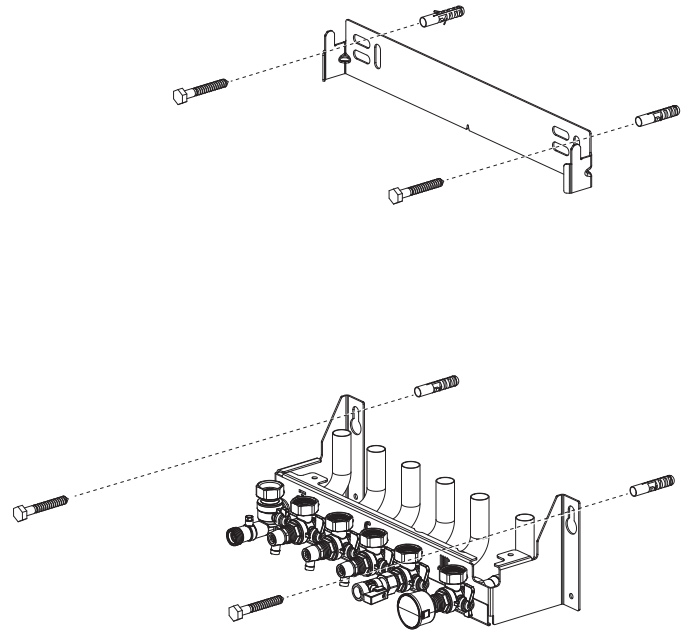
4 INSTALLATION

1. Ensure the pipework has been configured as outlined in the previous section.
2. Use the wall template (G) to determine the correct positioning of the HIU and temporarily secure to wall using tape or adhesive putty, ensuring it is fully unfolded and taught. Clearances to all sides of the appliance must be followed as defined on the template.
7. Screw the valve assembly (A) and wall mounting bracket (B) to the wall using coach screws (C) as shown. Adjust the top bracket to ensure the dimension between the upper and lower brackets are as stated on the template.

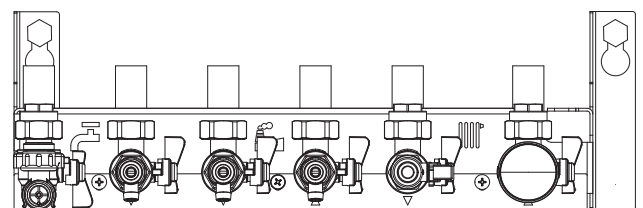


Note: the template is double sided for direct/indirect variants. Ensure the correct side is referenced.

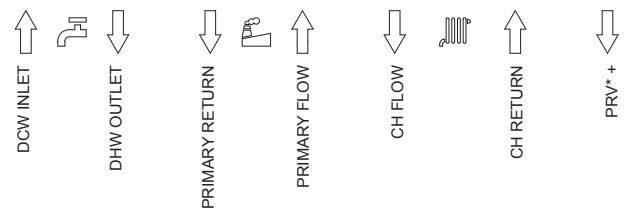
3. Drill the 4 holes depicted on the template.
4. Mark the positions of the intended pipe centres on the wall according to the piping configuration.
5. Remove the wall template (G) but retain for future reference.
6. Insert the 4 wall plugs (D) provided (or alternate fixings where required).



8. Run pipework to the pipe elbows for the DHW, Primary and Central Heating circuits. Connect as required. Connections are as shown below:



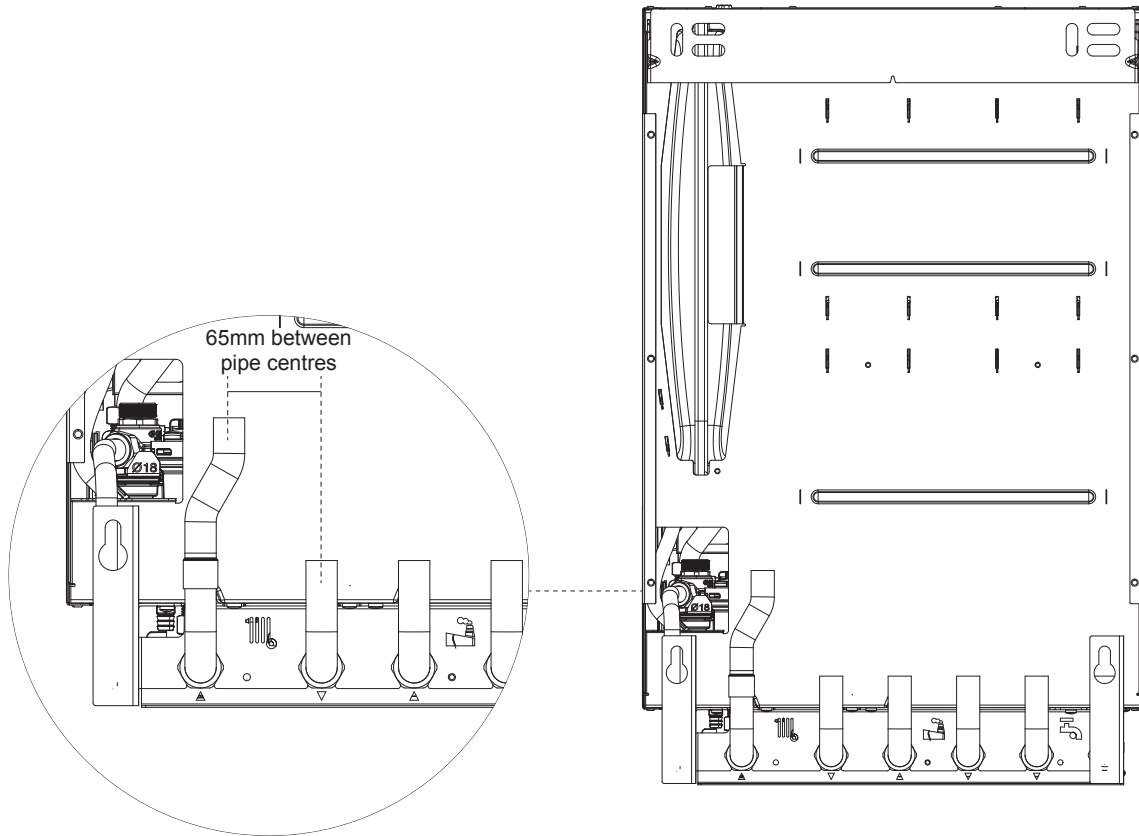
Indirect shown



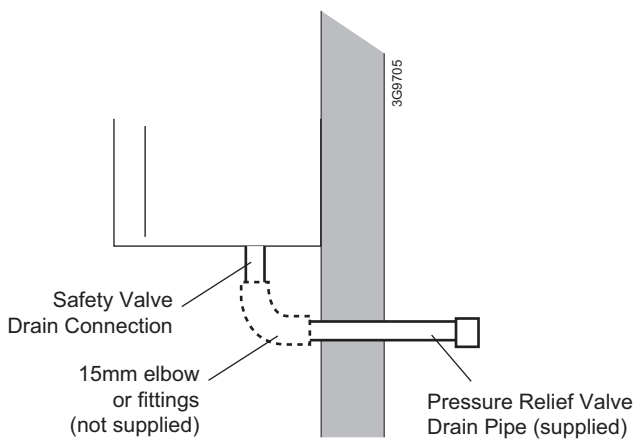
*** Indirect variants only**

+ PRV connection is integral to the appliance and not present on the first fix kit.

If the CH return connection is to be ceiling fed from above the HIU, the Pipe S Bend (H) must be installed by soldering onto the pipe elbow as shown. For floor fed connections this can be discarded.



9. **Indirect Only:** Run pipework to the PRV outlet. This must be routed down to a suitable outlet. The connection should be serviceable and not soldered to enable removal of the PRV and PRV Pipe for servicing and maintenance. The Buildings Inspector or the competent person responsible for compliance issues should be consulted to determine whether the particular site has any requirement for a tundish to be installed on this connection.

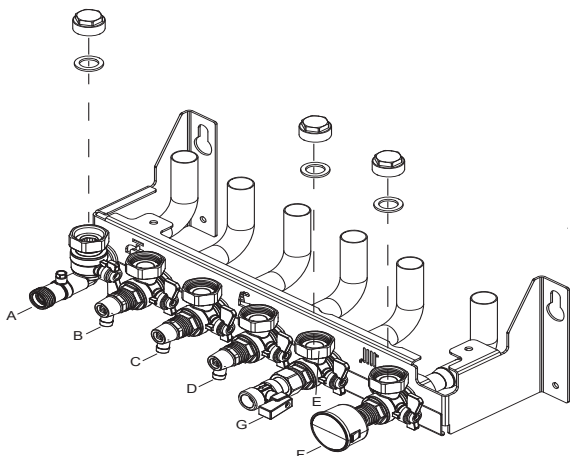


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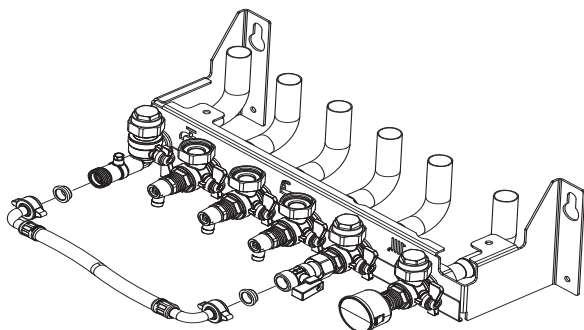
PRE-FILLING OF CH CIRCUIT (INDIRECT UNITS ONLY)

If required, the CH system can be filled prior to installation of the appliance. This can allow preliminary setup and testing of the domestic heating circuits.

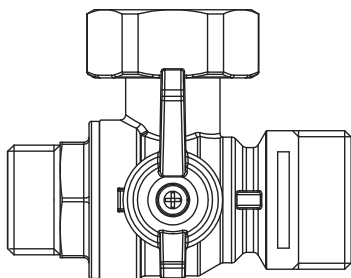
10. Ensure all steps within the installation section are complete and that all connections are tight.
11. Install threaded plugs onto the top of isolation valves A (DCW supply), E (CH Flow) & F (CH Return). Seal using Fibre Gaskets.



12. Install filling loop Hose across the front of the DCW supply and isolation valves A & G using top hat washer.



13. Turn isolation valve A to the "run" position (handle vertical).



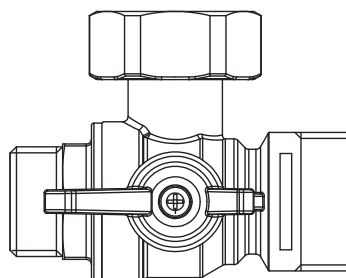
Valve shown open

14. Turn on the mains cold water supply to the appliance.
15. Turn isolation valve E to the "fill" position (handle vertical).
16. Turn isolation valve F to the "run" position (handle vertical). This enables the pressure gauge to display the circuit pressure.
17. Turn isolation valve G to the "fill" position (handle inline with valve).

18. Turn isolation valve A to the "fill" position (handle horizontal). The CH circuit will begin to fill.
19. Monitor the pressure gauge until the correct pressure is achieved (max 2.75 bar, recommended 1 – 1.5 bar for normal operation) then turn isolation valve A to the "run" position (handle vertical).

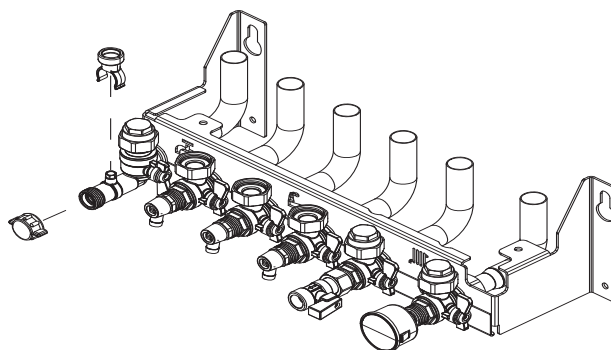
Note: Air should manually be vented from the circuit according to its design. Further venting and re-pressurisation may be necessary once the HIU appliance is installed and begins circulation of the CH system. Any remaining air will be carried through the system back to the HIU and vented by the integral automatic air vent.

20. Turn isolation valve G to the "off" position (handle opposing body).
21. Turn isolation valve F to the "off" position (handle horizontal).



Valve shown closed

22. Turn isolation valve A to the "off" position (handle horizontal).
 23. Remove the filling loop hose from valve A. Insert storage plug into left side of filling loop hose.
- Note:** A small amount of water may still remain in the hose.
24. Ensure top hat washer is still attached to isolation valve A.



25. Screw the dust cap to the front of isolation valve A.
26. Turn off the mains cold water supply to the appliance at source.
27. Threaded plugs should be removed prior to installation of the appliance although they may remain in place until this point to prevent contamination of the connections.

5 NEXT STEPS

Refer to Section 2 of the Installation and Servicing Manual for details of how to fit and commission the appliance. Additional filling of the CH may be required after installation of the appliance.

Should flushing of the primary circuit be required, this can now be undertaken. Refer to instructions within the associated flushing kit (available separately) for details. Further information on flushing and wider commissioning can be found within CIBSE CP1.



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