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## **Sealed System Kit Fitting Instructions**

### **Suitable for Grant Vortex Outdoor Modules 26/36 and 36/46 Models**

**IMPORTANT. These fitting Instructions replace those given in Section 5.5 of the Installation manual supplied with the boiler**

#### **KIT CONTENTS**

The sealed system kit comprises the following items:

- Expansion vessel - 16 litres
- Flexible expansion vessel connection hose 1/2" BSP x 3/4" BSP (with sealing washer)
- Circulating pump – 7m head
- Pressure relief valve discharge pipe (2-piece) – 15mm copper
- Filling loop kit
- Pressure relief valve - 2.5 bar
- Automatic air vent
- Pipe manifold
- Pressure gauge (on compression tee)
- Pump valves (2 off) – 28mm (with sealing washers)
- Straight Tectite connector – 15mm – for pressure relief valve pipe

#### **FITTING PROCEDURE**

1. Remove the 1/2" BSP black iron plug from the front boiler waterway.
2. Fit the 1/2" BSP straight connector – on the end of the flexible expansion vessel hose – to the tapping in the front boiler waterway.
3. Remove nuts and washers from the two lower studs on the boiler combustion door.
4. Fit the vessel support bracket, locating the two upper holes onto the two lower studs of the combustion door and refit the nuts and washers. Tighten to ensure an adequate seal is made.
5. Position the 16 litre expansion vessel onto the support bracket - in front of the boiler combustion door – locating the top of the vessel behind the control panel first.
6. Screw in the locking screw on the base of the bracket to secure vessel in place.
7. Fit the 3/4" BSP connection of the expansion vessel hose to the vessel – using the black rubber washer supplied – and tighten the nut.

8. Rotate the boiler flow pipe face the front of the boiler.
9. Push fit the 28mm tectite straight connector (supplied with the boiler) on to the long end of the pipe manifold.
10. Fit the pressure relief valve and automatic air vent onto the pipe manifold – screw them into their respective threaded sockets on the manifold pipe. Refer to Fig.1.
11. Push fit the Tectite connector on the manifold pipe on to the flow pipe. Refer to Fig.1.

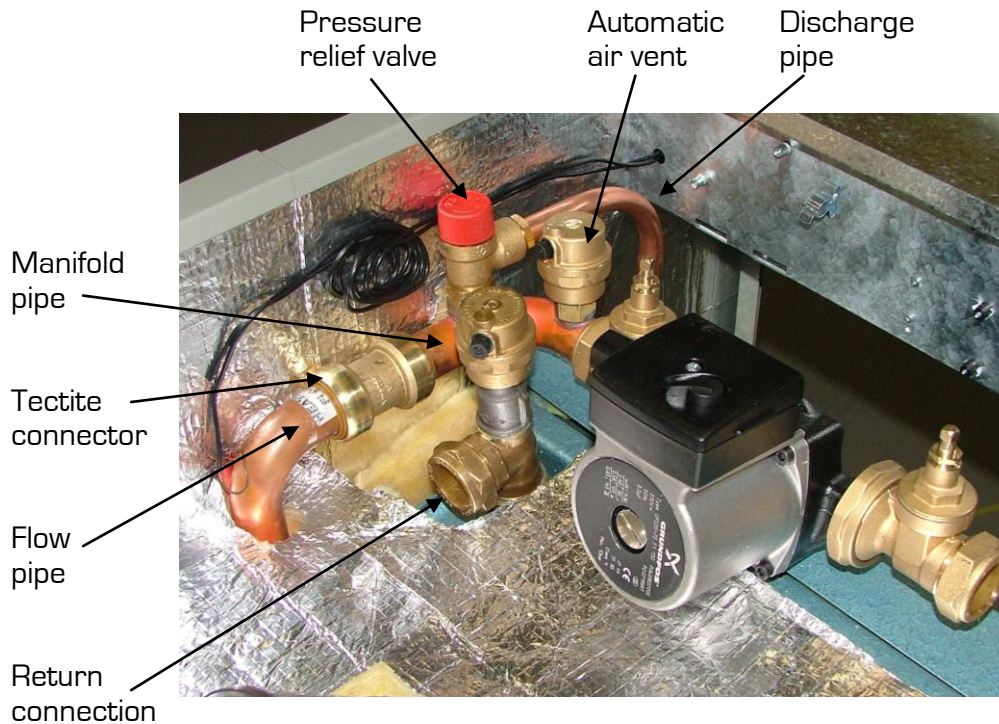


Fig.1. manifold assembly with circulating pump

12. Fit both pump valves onto the circulating pump – using the two sealing washers provided.
13. Fit the pump/pump valve assembly to the open end of the manifold pipe, ensuring that flow (indicated by arrow on the pump body) is facing in the direction of flow (away from the boiler connection). NB. Pump motor must face towards the **rear** of the boiler with the pump shaft horizontal.
14. Connect the lower section of the discharge pipe to the longer leg of the upper section using the 15mm straight Tectite connector supplied. Fit the shorter leg of the upper section of the discharge pipe into the outlet of the pressure relief valve and secure using the nut and olive supplied.
15. Route the lower end of the discharge pipe out of the boiler casing through the slot in the base of the right hand side panel. Push back the insulation back to expose the slot. NB. It may be necessary to rotate the pressure relief valve to reposition the outlet of as necessary to align the discharge pipe with the slot.
16. The circulating pump may be wired into the boiler control panel if required. Refer to Section 9 of the Installation instructions supplied with the boiler.