



FITTING INSTRUCTIONS

Boiler Discharge Pump

Pump for disposal of Condensate & High Temperature Water from Boiler Safety Pressure Relief Valve

Part No. 720648301



KIT CONTENTS

Pump
10m 3/8" Hose
2 x 3/8" Pipe Clips
1 x 3/8" to 22mm Adaptor

Please leave these Instructions with the User

| Data | | |
|--------------------|---|------------------|
| Performance | | |
| Max Flow | - | 312 l/h |
| Max Head | - | 5m |
| Dimensions | | |
| Height | - | 249mm |
| Width | - | 160mm |
| Length | - | 325mm |
| Inlet Height | - | 115mm |
| Capacity | - | 3.8 litres |
| Electrical | | |
| Power Supply | - | 240V~ 50Hz 0.75A |
| Cable Lengths | - | 1.8m |
| Connection | | |
| Discharge Dia. | - | 3/8" |

1.0 Introduction

1.1 Description

1. This pump is designed as an automatic removal device for pumping away condensate from condensing boilers and high temperature water up to 100°C, i.e. that from the Safety Pressure Relief Valve. It conforms to BS6798 regulations for PRV discharge.

2. The pump is controlled by a float / switch mechanism which turns the pump on to discharge the condensate when approximately 57mm of condensate collects in a tank. The pump switches off automatically when the tank drains to approximately 19mm.

3. The pump provides the permanent live to the boiler. If the pump develops a fault the permanent live will switch off and the boiler will not operate, irrespective of any external control demand.

4. Read the instructions carefully before installing, operating or maintaining the pump. Please leave these instructions with the boiler literature for future reference. Installation and connections are to be made by a qualified person.

5. The installation of this pump is approved on all Baxi, Potterton and Main boilers only.

1.2 Safety

1. DO NOT use to pump flammable or explosive fluids such as petrol, fuel oil, kerosene, etc. DO NOT use in explosive atmospheres. This pump MUST ONLY be used with liquids compatible with the pump component materials.

2. Do not handle the pump with wet hands, when standing on a wet or damp surface, or in water. To reduce the risk of electrical shock the electrical supply MUST be connected to a permanent EARTH.

3. For installations where property damage and/or personal injury could result from an inoperative or leaking pump due to power cuts, discharge line blockage, or any other reason, a backup system and/or alarm should be used.

4. Support the pump and piping when assembling and when installed. Failure to do so may cause piping to break, pump to fail, motor bearing failures, etc.

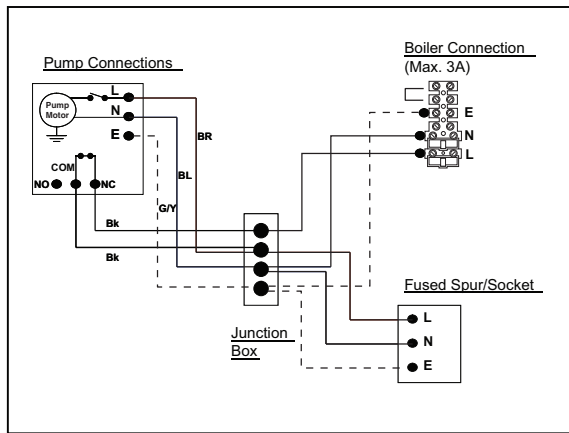
1.3 Installation Notes

1. The pump is intended to be floor standing, but can be wall mounted using suitable brackets. In all instances it must remain level and be secure.

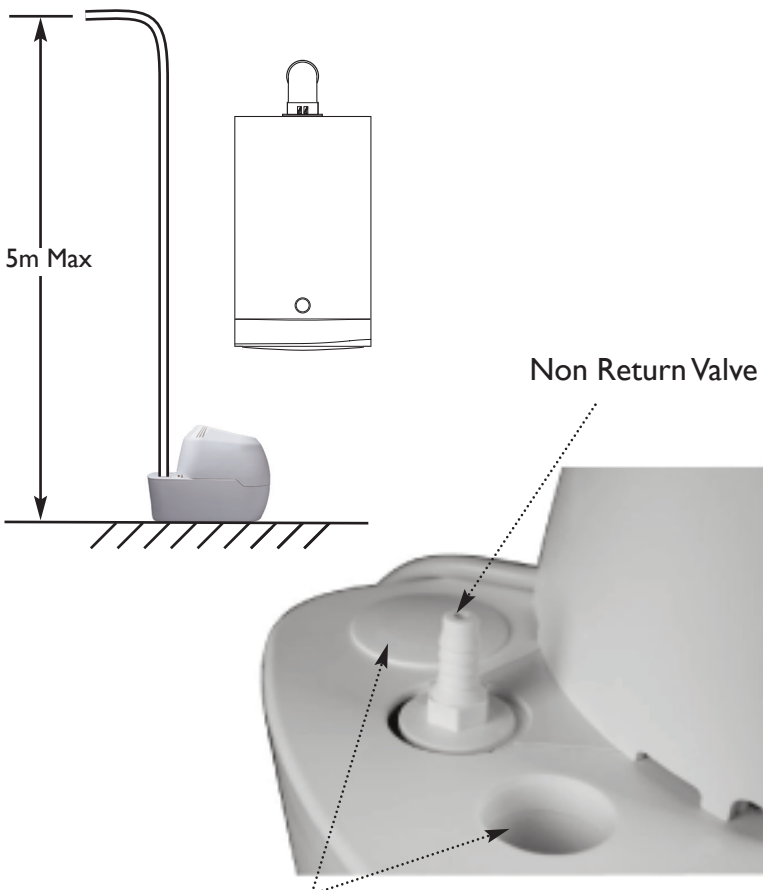
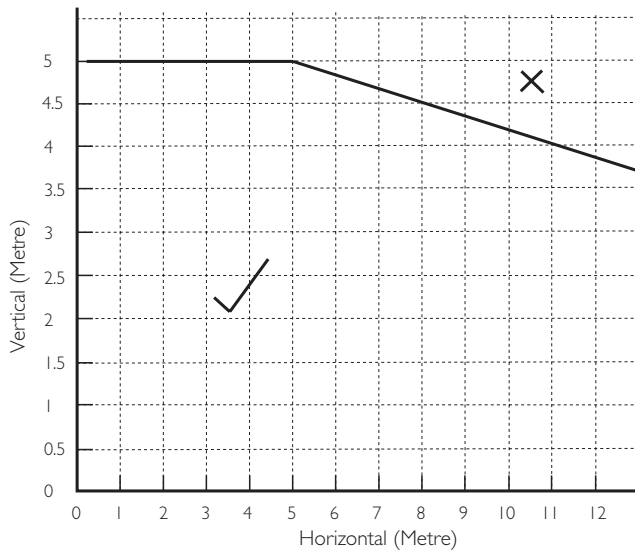
2. The pump should not be installed in a position that may subject it to any splashing or spraying.

3. Observe the MAXIMUM available head of 5 Metres.

Boiler Connection (Max. 3A)



Flexi 3/8" Installation



Use one of the openings for the Condensate and the other for the Pressure Relief Valve

2.0 Installation

2.1 Electrical Connection

1. Isolate all electrical supplies before making any connections. All wiring must comply with appropriate legislation.

2. Connect the pump to voltage as specified on label.

Live - BROWN

Neutral - BLUE

Earth - YELLOW / GREEN

3. If a separate fused spur or plug is used, a 3.0 Amp fuse is recommended.

4. The pump is fitted with a 240v micro switch (max current rating 3A), which will activate if the pump starts to overflow in the event of outlet pipe blockage or pump failure. The wiring diagrams show how the switch can be connected into a boiler circuit or a separate audible alarm.

2.2 Inlet Connection

1. Position the pump beneath the boiler so that the condensate & PRV outlets flow directly into pump inlet (use both of the two openings provided).

2. The inlet pipe should be positioned as close to the bottom of the tank as possible and the end cut at an angle of greater than 30° to ensure free flow of the condensate from the boiler.

3. The PRV pipe should always be installed with a suitable 15mm x 22mm tundish before entering the pump opening to conform to BS6798 installations.

2.3 Outlet Connection

1. Connect the 3/8" I.D tubing to the non return valve. The tubing must be secured with suitable clamps or clips whilst ensuring that it is not restricted in any way.

2. The non-return valve has a quick release mechanism with a 1/4 turn bayonet type fitting.

3. The 3/8" tubing should rise vertically but not exceed the maximum head (pumping height) of 5 metres above the base of the pump (See graph for allowed limits).

4. At highest point, angle the tubing horizontally and create a downward slope to a suitable drainage point. Do not bend sharply or twist the tubing in a way that might result in collapse or restriction of the tubing. Creating a downward slope will allow the tube to drain by gravity, and ensure complete evacuation.

5. If it is not possible to create a downward slope, form an inverted "U" trap directly above the pump at the highest point.

6. If the pipe run is longer than the 10m of 3/8" supplied hose, it is permissible to connect to suitable 22mm plastic pipe using the 3/8" to 22mm connector (720633101), total run lengths must still be observed.

7. Any run of condensate pipe where it may be vulnerable to freezing should be protected by insulation or trace heating. Thermal insulating materials shall conform to BS 5422:2001, Section 6, and be installed in accordance with BS 5970.

3.0 Commissioning & Service

3.1 Commissioning

1. Ensure the tank is free of any debris or foreign matter and turn on the power supply.
2. Slowly fill the tank with clean water. As the float rises to the 'On Level' position the motor will start.
3. Leave the clean water in the tank as this will effectively prime the pump ready for use and help to prevent any flue products passing through the pump from the boiler condensate drain pipe.
4. The pump is designed for use with condensing boiler applications. Caution must be taken to ensure acidity of condensate does not increase below the average pH of 3.0 (to prevent localised pockets of acid forming) by routinely cleaning or flushing tank with fresh water.

3.2 Service

1. Before servicing the pump isolate the electrical supply to it and the boiler.
2. It is recommended that the pump be checked every six months for proper operation.
3. Check for debris blocking the pump discharge adapter/non return valve. Check for proper free movement of pump float and switch and check for free, unrestricted movement of motor and fan.
4. Clean the holding tank and float with a solution of warm water and mild soap. Rinse completely when finished.
5. Check the inlet and outlet tubing, cleaning as necessary. Ensure there are no kinks in the tubing that would inhibit or restrict flow.

3.3 Spares

| | |
|----------------------|-----------|
| Condensate Pump | 720632101 |
| Hose 3/8" Clip | 720632701 |
| 3/8" to 22mm Adaptor | 720633101 |
| 10m Hose | 720632601 |
| Non Return Valve | |

Accessories

| | |
|---------------------------|-----------|
| 3/8" to Soil Pipe Adaptor | 720633001 |
|---------------------------|-----------|

All descriptions and illustrations provided in this leaflet have been carefully prepared but we reserve the right to make changes and improvements in our products which may affect the accuracy of the information contained in this leaflet. All goods are sold subject to our standard Conditions of Sale which are available on request.

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