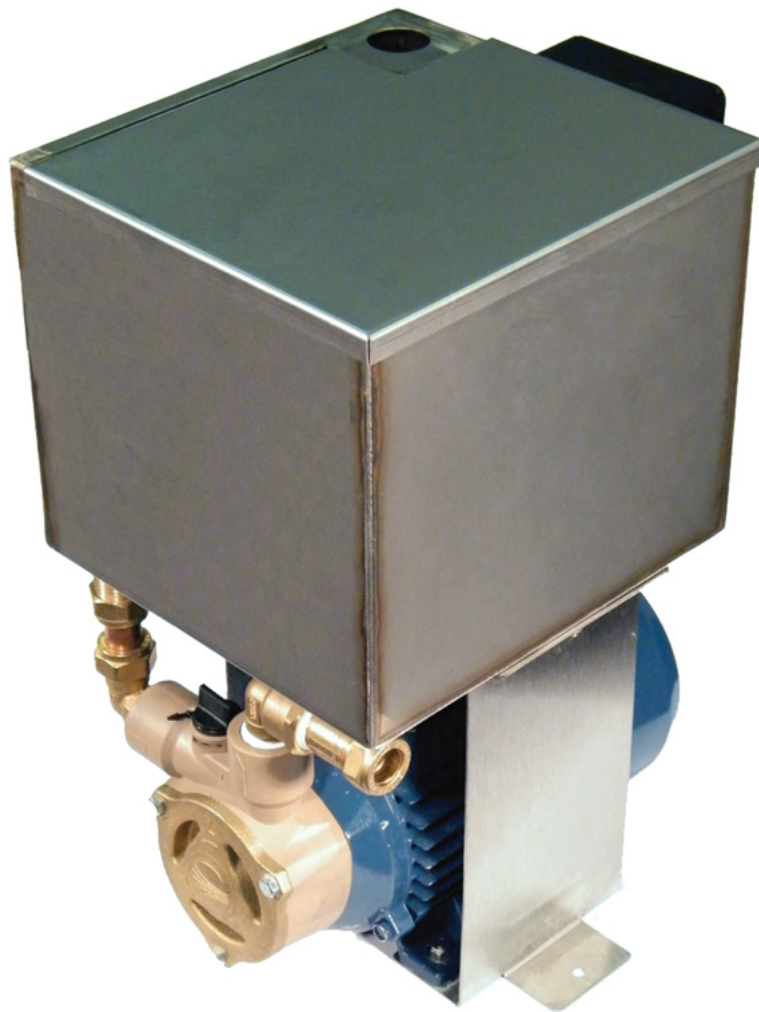


# **PH-5.0L-HDHW**

## **Heavy Duty Hot Water Installation Instructions**



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# PH-5.0L-HDHW Installation Instructions

## SPECIFICATION PH-5.0L-HDHW

Model	PH-5.0L-HDHW	Height	350 mm
Max Flow	32 L/Min	Inlet Height	350 mm
Max Head	8m	Length	260 mm
Tank Capacity	5.0 litres	Width	160 mm
Volts	240 V / 2.4 A	Cable Length	1.8 m
Hz	50 Hz		
Discharge Size	15mm		
High-level Alarm	Volt Free		

## INSTALLATION

1. This pump is designed as an automatic removal device for pumping away high temperature water up to 100°C water from hot water cylinders and humidifiers. The pump is controlled by a float / switch mechanism which turns the pump on to discharge water when approximately 252mm of water collects in the tank. The pump switches off automatically when the tank drains to approximately 197mm.
2. This pump is carefully packaged, inspected and tested to ensure safe operation and delivery. When you receive the pump, examine it carefully to determine that there are no broken or damaged parts that may have occurred during shipment. If damaged has occurred, please contact your supplier. They will assist you in replacement or repair, if required.
3. Read the instructions carefully before attempting to install, operate or service the pump. Know the pump application, limitations and potential hazards. protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Please retain these instructions for future reference. Installation and connections are to be made by a qualified person.

## 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 should be used with liquids compatible with the pump component materials.
2. Do not handle the pump with wet hands or when standing on a wet or damp surface, or in water. To reduce the risk of electrical shock, be certain that the electrical supply is connected to a permanent EARTH.
3. For installations where property damage and/or personal injury might 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. Service 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..

For further installation advice please call the technical support helpline on 0115 900 5858.

# PH-5.0L-HDHW Installation Instructions

## INSTALLING THE PUMP

1. Carefully unpack the pump
2. The pump is designed to be floor standing and it is essential that the pump must sit on a level surface.
3. The pump should not be installed in a manner that will subject it to splashing or spraying.

## ELECTRICAL CONNECTIONS

1. Shut off electrical power at fuse box for both the pump and equipment before making any connections. All wiring must comply with appropriate codes.

2. Connect the pump to voltage specified on label located on the pump:

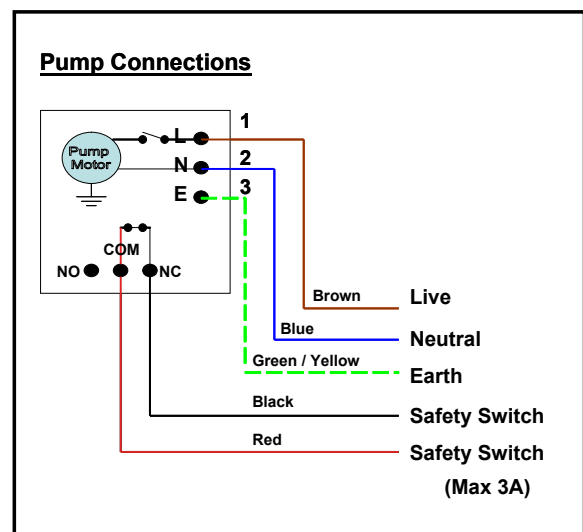
Live - BROWN

Neutral - BLUE

Earth - YELLOW / GREEN

3. If separate fused spur or plug is used, a 5.0 Amp fuse is recommended.
4. Connection of the high level safety switch OR potential free contact can be made to either the equipment or an audible alarm. The pump is fitted with a micro switch to close off supply OR to activate if the pump starts to overflow in the event of outlet pipe blockage or pump failure. The following wiring diagram shows how the switch can be connected into a boiler circuit or a separate alarm. (Maximum rating is 3A)

Volt Free Connection



## DRAIN CONNECTION

### INLET CONNECTION

1. Position the pump beneath the equipment so that high temp outlet flows into the pump inlet freely.
2. The inlet pipe should be positioned as close to the bottom of the tank as possible and the bottom cut at an angle of greater than 30° to ensure the free flow into the tank.

### OUTLET CONNECTIONS

1. Connect the 15mm copper compression fitting / non return valve.
2. Pipe work should rise vertically but not exceed the maximum shut off head (pumping height) of 8 metre above the pump. Any horizontal runs should be taken into consideration when assessing the maximum shut off. This shut off will be reduced if bends and horizontal runs are included in the outlet pipe work. If in doubt please contact Pump House for advice - RULE OF THUMB: 10m Horizontal = approx. 1m vertical
3. At highest point angle the pipe horizontally to create a downward slop to drainage point. Terminate the end of the pipe to comply with current regulations.

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# PH-5.0L-HDHW Installation Instructions

## COMMISSIONING & TESTING

1. Before commissioning, check for debris in the tank. Remove any material which might block the drain line or drain into the pump tank.
2. Turn on power.
3. Slowly fill the tank with clean water to prime the pump, as the float rises to the On Level position the motor should turn on.
4. Leave the clean water in the tank as this will effectively prime the pump ready for use.

This pump is designed for use with hot water applications and should be tested annually to ensure it is in full working order.

## MAINTENANCE & SERVICING

1. Before servicing the pump, disconnect the electric power at the fuse box for both the pump and the equipment unit.
2. It is recommended that the pump be checked every 12 months for proper operation. Most important is to check for debris blocking the pump non return valve. Check for proper free movement of pump float and switch.
3. Clean the holding tank and float with warm water and mild soap. Rinse completely when finished.
4. Check the inlet and outlet piping. Clean as necessary.

## WARRANTY

This pump offers a 1 year warranty. This warranty covers all parts with material or manufacturing faults. The buyer's only remedy is the replacement or repair of the defective parts. In no case can labour costs and any consequential damage be cited as a basis for a complaint. Any returned units must be complete and must be accompanied by a written list of the defects.

We are unable to accept any liability in case of nonconforming installation or noncompliance with the specifications or maintenance recommendations.

## CONFORMITY



All data contained in these specifications are solely intended to describe the product and do not constitute warranted characteristics in the legal sense. Subject to technical change.

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