

# BRIT THERM

HEATING PUMPS

## Installation & Operating Instructions



**Please read these instructions  
carefully before installation**

## **Contents**

General Information.....	3
Pump Liquid & Operating Conditions.....	4
Pump Diagram.....	5
Installation.....	6, 7
Fault Finding.....	8, 9
Maintenance & Repair.....	10, 11
Guarantee Registration.....	12

## **General Information**

These instructions guide you through the installation and operation of this **BritTherm™** circulation pump. The **UPSA Commercial** is a high efficiency circulator which is perfectly suited to operate in:

- Single zone heating systems
- Multi zone heating systems
- Underfloor heating systems

The pump incorporates 3 constant speeds enabling you to set it based on system demand.

It has a connection size of **1 ½"**, a maximum head of **8 meters** and a port to port distance of **180mm** making it perfect for light commercial applications.

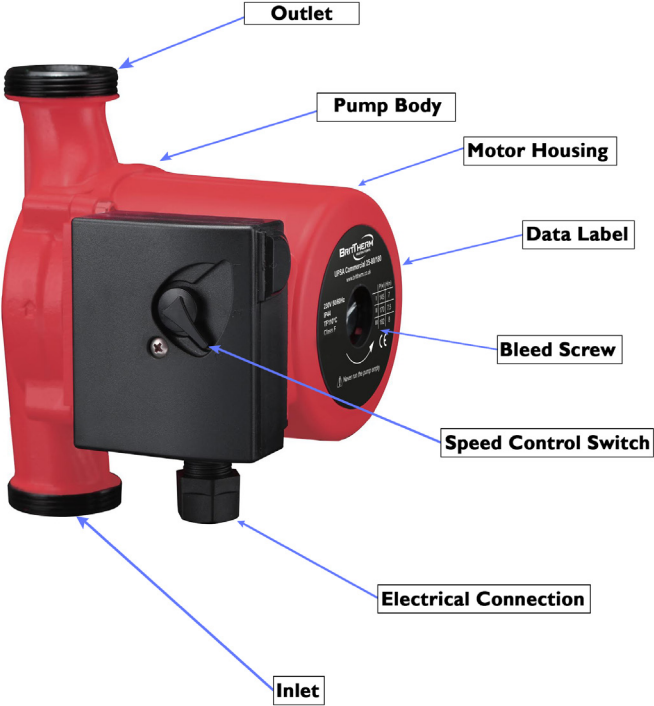
## **Pump Liquid & Operating Conditions**

BritTherm™ pumps require clean, thin, non-aggressive liquids to operate correctly and prevent damage to their internal components. The liquids used must not contain any solid particles, fibres or mineral oil.

Liquids running through circulation pumps used on heating systems must comply with the accepted standards of quality especially in domestic applications.

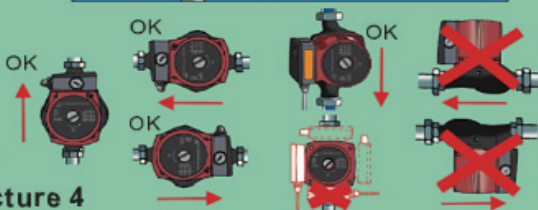
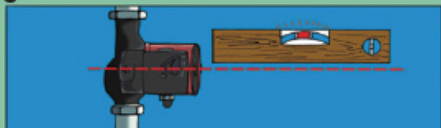
Liquids that do not comply will void the warranty offered with the circulation pump.

# Pump Diagram

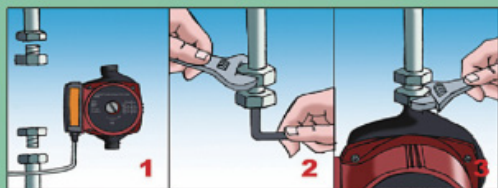


## Installation

Picture 3

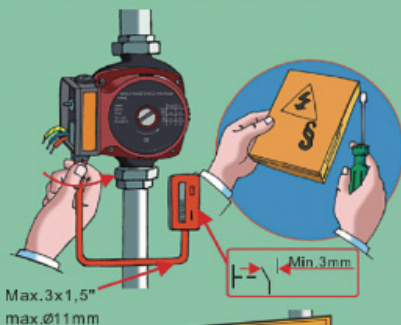


Picture 4

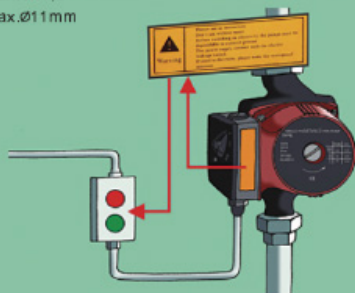


Attention: Ensure the pump is installed with the motor shaft in the horizontal position

Picture 5



Picture 6



Attention: Fit the two gaskets when the pump is mounted correctly between the flow and return pipes

## Fault Finding



Before starting any work on the pump please ensure the electricity supply is turned off and cannot be accidentally switched back on at any time

### Fault

#### Pump doesn't run

##### Cause

##### Remedy

- |  |   |
|--|---|
| A) Blown fuse                            | Replace fuse  |
| B) Inadequately connected power supply   | Check electrical connection   |
| C) Pump is defective                     | Replace pump  |
| D) Impurity in the system                | Disconnect and clean  |
| E) Bearing has blocked pump from running | Run at high speed for a short period or loosen the rotor at the end of the shaft with a screwdriver |



## **Fault**

### **Noise in the system**

#### **Cause**

- A) Air in the system
- B) Pump speed too high

#### **Remedy**

- Vent the system
- Reduce the speed

## **Fault**

### **Noise in the pump**

#### **Cause**

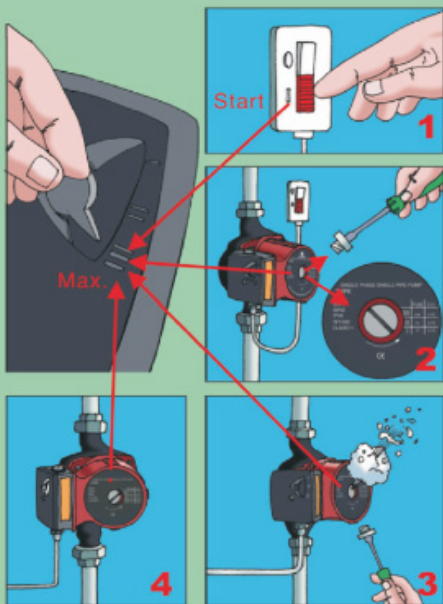
- A) Air in the pump
- B) Inlet pressure too high

#### **Remedy**

- Let the pump run, it vents itself over time
- Increase the inlet pressure

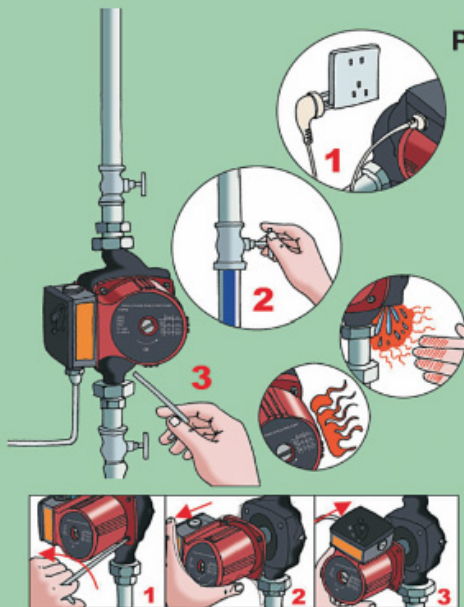
## Maintenance & Repair

Picture 7



Attention: Ensure the pump is fully vented before first time operation

Picture 8



Attention: The pump liquid may be scalding hot and under high pressure. Before removing head screws the system either requires draining, or the pump needs to be isolated

## **Guarantee Registration**

This pump is covered against manufacturing malfunction by a **3 year guarantee**.

The guarantee is only valid if the pump has been installed correctly, the system is maintained adequately, and the guarantee is registered within 30 days of purchase.

The pump is covered for a **free of charge** replacement should malfunction occur within the first **3 years** from the date of sale.

To register please email the following details to:  
**guarantees@brittherm.co.uk**

- Date of purchase
- Address where pump is fitted
- Name of supplier
- Supplier invoice number

Please retain your purchase invoice as it may be required in the event of a guarantee claim.

To make a claim please contact BritTherm by phone on:  
**0208 904 4832**

