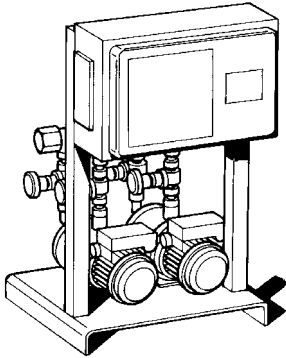


## BOOSTFLO BOOSTER SYSTEMS



Automatic pumping systems for direct and indirect cold water boosting applications.

Boostflo combination pressure booster systems automatically maintain the water supply pressure in buildings, whilst controlled according to system demand.

### LOCATION

The equipment should be located in a clean, dry, ventilated environment and be easily accessible for servicing.

Mount the equipment on a concrete plinth suitably sized to absorb vibrations and provide adequate support.

### CONNECTION TO THE SYSTEM

Before connecting the equipment, flush the pipework until clean.

Connect the system suction and discharge pipework to the booster headers, ensuring there is no unnecessary pipe strain.

A suitable strainer should be fitted in the suction pipework.

The suction must be flooded at all times

### ELECTRICAL

The operating voltage and electrical data are indicated on the motor nameplate and connection should be made as shown on the unit wiring diagram. The equipment must be earthed.

The overloads should be set to the same value indicated on the motor nameplate. If the motor current exceeds the set value for prolonged periods of time the overload will operate & trip out the starter to disconnect the supply to the motor, this will also light the trip indication on the control panel. This will have to be manually reset by the reset button.

### COMMISSIONING

The sets are factory tested and controls set according to the specified requirements given by the customer.

**CAUTION** - Do not adjust the controls without consultation and verification with Fluid Automation Ltd.

Verify the air cushion pressure in the expansion vessel (if fitted) adjust if necessary, to suit the nameplate.

Carefully open the suction isolating valves on the unit and system, to allow water to the unit.

Vent the pumps by carefully slackening the vent plugs until water is seen to escape.  
Tighten the vent plugs.

If the unit is fitted with an Integral Low Water probe, the Low Water lamp will operate when power is switched on to the Boostflo panel - the Lamp should go to safe mode after 10 seconds if there is a flooded suction header.

Check the pumps are free to turn by removing the motor fan cowl and carefully rotating the pump and motor rotating assembly using the motor fan. Replace the fan cowls.

Check rotation by quickly turning the pumps on and off to see if the motor shaft turns in the correct direction. Rotation can be reversed on three phase motors by interchanging any two of the incoming phases.

The selected pump can now be started with the discharge valves closed and when the pressure is stable, slowly open the discharge valves.

**CAUTION** - Do not operate for prolonged periods with closed discharge valve. Do not close the suction valve whilst a pump is operating.

Any initial noise may be due to air in the system and should cease provided the system is fully vented

**CAUTION** - Do not run the pumps dry - otherwise the mechanical seal will be damaged - and leak.

**CAUTION** - The pump may run up to closed valve pressure on a minimum run timer, regardless of pressure switch settings.

BIS intermittent run booster units on auto mode will allow the selected pump to cut in and out automatically as the demand changes.

BS single pump intermittent run booster units will allow the pump to cut in and out automatically as the demand changes.

### MAINTENANCE

1 - Check and maintain gas cushion pressures periodically.

2 - When multi pumps are fitted, alternate the duty pump weekly.

3 Check the electrical equipment, (fuses, bulbs and connections etc.) every six months.