

# PROTEX

Central Heating System Accessories



## PROFLUSH POWER FLUSHING & DE SCALING PUMP

### DIRECTIONS FOR USE

#### FLUSHING

1. Connect two of the hoses supplied from the heating system (Fig.1) onto the flow and return ports indicated on the front plate of the pro-flush machine (Fig.2).
2. Connect the third hose to the dump port and run to a foul drain (Fig.2). Connect an additional hose to the overflow of the tank and run this to the foul drain also. Connect a clean cold water supply through the water inlet tap located on the top of the tank.

Fig.1 Connectet to system

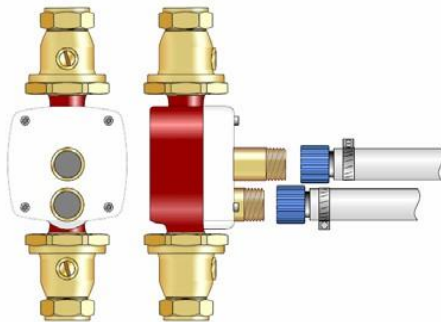


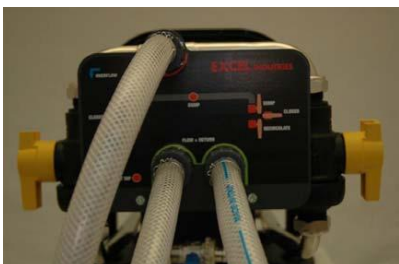
Fig. 2 Connect to Pro-flush unit



**Note:** If the pump was used to drain the expansion tank/system, first remove the dirty water prior to replenishing the tank to 1/3<sup>rd</sup> with cold clean water via the inlet tap.

3. With the system drained and the tank approximately 1/3 full of clean water the system is now ready for the initial flush. Ensure that the 3-way valve fitted on either side of the front plate are turned to the "Recirculate" position (Fig.3) and that the directional valve at the rear of the unit is turned to the "Forward" position (Fig.4). At all times the tank filling cap should be removed to allow the exhaust of acidic vapor created by the cleaning process.

**Fig. 3** 3-Way valve set to recirculate



**Fig.4** Directional valve set to forward



4. After checking that any obstructing valves are fully open around the system, start the pump and flush the system for approximately 10-15 min in the forward direction. After this period using the directional valve reverse the flow for 10-15 min. Repeat this procedure several time whilst constantly monitoring the condition of the water.
5. Any commercial brand of descaler or flushing agent may now be introduced and mixed and operated according to the manufacturer's instructions.

## DUMPING

This system allows water to be dumped when flowing in either a forward or reverse direction.

1. When operating with the directional valve in the forward position (Fig.5) the water can be dumped by turning the 3-way valve on the return port side to "Dump" (Fig.6).

**Fig.5** Directional Valve set to Forward



**Fig. 6** 3-Way Valve Set to Forward Dump



2. When operating with the directional valve in the Reverse position (Fig.7) the water can be dumped by turning the 3-way valve on the Flow port side to "Dump" Having completed the dump return the valve from "Dump" to its original "Recirculate" position then replace the dumped water with fresh clean water.

**Fig. 7** Directional valve set to reverse



**Fig.8** 3-Way valve set to reverse dump



**Note:** If an acid based descaler is used then the system including the pump must be neutralized with the suggested neutralising agent prior to the final flush through with water.

After completing the cleaning process re-open all valves and thoroughly flush the system through, dumping any remaining water and replacing with clean until it is clear. When the water remains clear then follow the manufacturer's instructions for the introduction of inhibitor. On completion, test, vent and replace all valves to original position. (Fig.8).