

# FAULT FINDING

## PUMP WILL NOT RUN

- Check the 240v supply
- Check the flow switch is working - if you disconnect the black flow switch wire from the unit and touch and hold the two white wires from the control unit together, the pump should start after about a 5 second delay.
- Using a meter set to 50v DC range check for voltage at the pump with the flow switch wires shorted as above - should read 10 - 25v (This is variable - we are just checking for a voltage).

## FROM THE ABOVE TESTS

- If a voltage is on the pump, it should be running, so suspect the pump.
- If the pump only runs when the switch wires are touched together, the flow switch is at fault.
- (It may have debris holding the float down - remove from the pipework and inspect).
- If you have a 240v supply and with the switch wires linked there is no voltage at the pump, then the control unit should be replaced. (This control unit is self-protecting, so it may have switched off internally - turn off the mains voltage supply for about 20 mins to allow it to reset then re-try the above tests).

## PUMP IS RUNNING BUT WILL NOT REMOVE WATER FROM TRAY

- Check for air leaks prior to the pump.
- Check for blockage in the pipework
- Slightly loosen (by  $\frac{1}{4}$  of a turn) the 3 impeller plate bolts, ensuring a seal is still maintained.
- Remove impellor from the pump and check for damage.
- Do not over-tighten the impellor plate bolts

## CONTROL UNIT SETTINGS

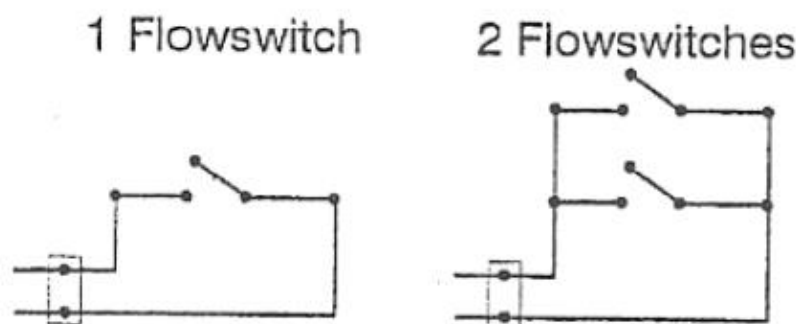
- As supplied, this 'PHLEXIFLOW' system will easily cope with 8 litre/min showers. It can cope with showers up to 12 litres/min (and possibly more in short run minimal bend pipework installation). The high-capacity pump can cope with a shower output of between 12-20 litres per minute.

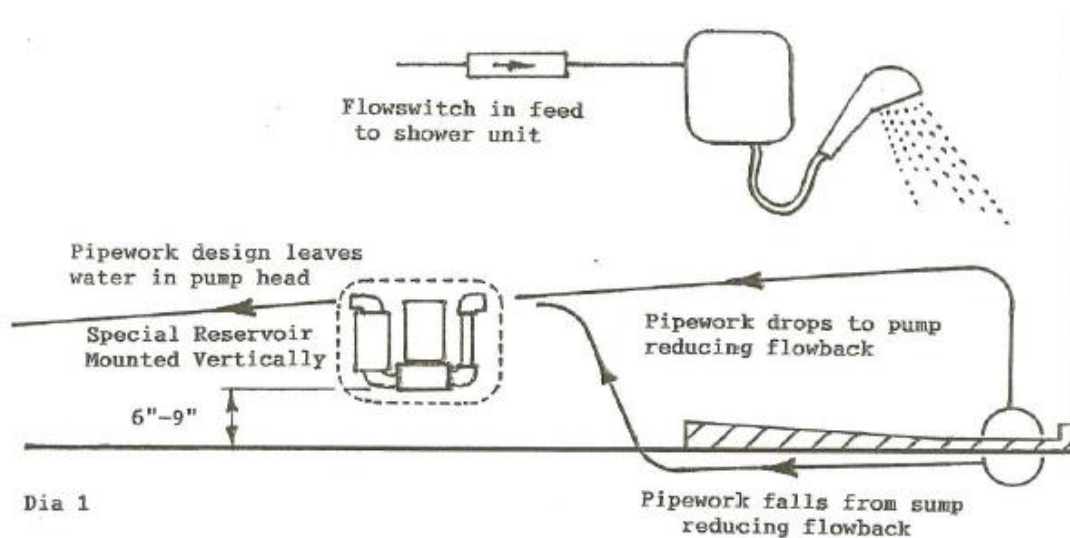
The system performance is adjustable using a set of controls found on the rear of the control unit (this positioning makes it hard for the user to modify the settings once the installation is completed).

With reference to Diag. 2 and 3 the following explains the adjustments possible with the controls.

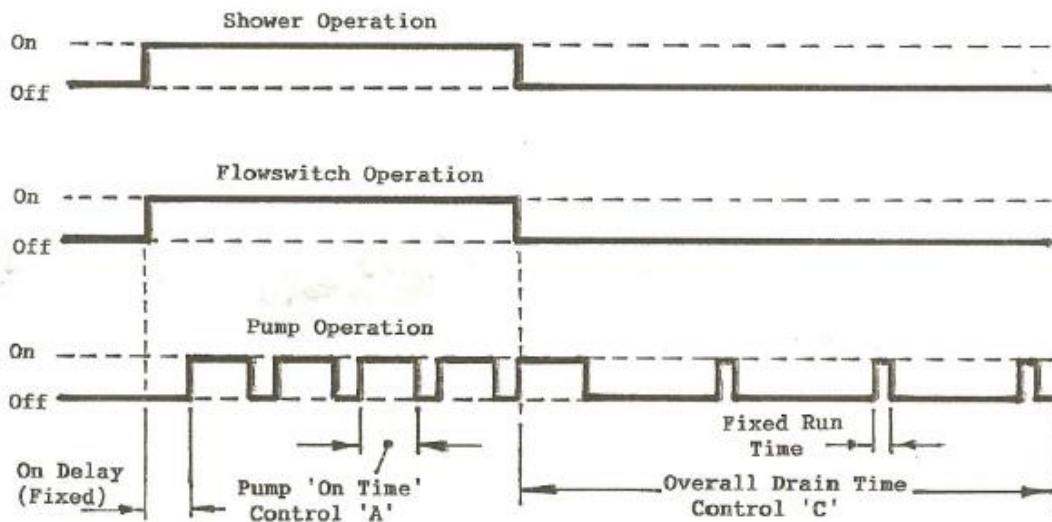
- **Control A** - Once the system is running, this setting controls the length of time the pump is turned ON and OFF (see fig. 2) in each pumping cycle. Turning this control clockwise decreases the on time and increases the off time effectively making the pump run for a shorter length of time (in the fully anti-clockwise position the pump is virtually running continuously).
- **Control B** - Pump speed - Turn clockwise to increase the pumping performance for high flow rate showers, or to cope with longer runs of pipework where the standard setting does not drain the tray fast enough.
- **Control C** - This timer controls the overall length of the 'after shower' drain period. It starts as soon as the shower is turned off and is factory set at 30secs, turning the control clockwise will increase this time up to 5 extra runs. Remember that the pump does not run continuously. It will operate in short bursts, separated by prolonged periods of rest. This is to minimize any noise produced and ensure the pump does not run dry.

## Switch Wiring





System Operating Diagram Dia 2



Dia 3

