

Installation Instructions - please read carefully before commencing installation.

1. Both hot and cold water supplies must come from gravity feed tanks, **not mains**.
2. Pump must be fitted in a flooded head situation. i.e. below supply tank level and close to the tanks.
3. The pumps must be mounted with the flow outlet in an upright position. Do not bolt pumps to floor as this causes excessive noise. Use only PTFE on threaded joints on the pump. Boss white & Hemp should not be used as this can easily enter and damage the pump internals.
4. All pipes to the pump must be 22mm, and pipes from the pump should ideally be 22mm (although 15mm can be used if this already exists.) The size of the supply pipe from the cold storage tank to the cylinder should ideally be 28mm although on short runs 22mm would be acceptable.
5. Isolating valves (preferably full-bore lever ball valves) must be fitted before and after (and close to) the pump for ease of servicing (Figs 2 & 3) Do not use "ballofix" type valves as these are very restricting and will affect pump performance.
6. The hot water supply should be from an unvented take - off point on the hot water cylinder (Figs 2 & 3). The connection must be made with Essex Flange CF1/R(NS) 22mm and the tube projected 25mm into the cylinder. Hot water supply must not exceed 65°C. therefore a cylinder stat should be fitted . **Any use above this temperature will cause premature failure of the pumps and invalidate the guarantee.**
7. All bends in the pipe-work should be swept (do not use 90 degree). All pipe-work should be fitted so as to avoid air traps. Pipes should be clipped for noise reduction.
8. The cold water storage tank for these installations should ideally have actual capacity of 50 gallons, or 75 gallons for a pair of pumps to ensure there is always enough water available when pumps are in use. Pumps will produce 20-30 litres/min (over 5 gallons/min) each.
9. Do not install the hot pump in a loft area. The best place for the hot pump is close to the hot water cylinder.
10. Before connecting the pump all new pipe-work should be thoroughly flushed out. Any debris entering the pump will invalidate the guarantee.
11. **Never** run pumps dry. Always fill pump body with water before making final connections. (Open water supply and allow air to escape by opening air bleed screw until all water comes out and then tighten bleed screw).
12. Three types of control switch can be used. Single flowswitch Flosense 150 (positive head) and either a BRIO or Easypress controller for negative head or where there is a multi outlet shower (body jets, rainbar etc). In each case ensure the switch is fitted to the pump OUTLET. **NOTE:** On single pump installations the Easypress and BRIO controller requires a closed outlet. Control valve must be inside the shower cubicle.

Electrical Supplies:

A fused switch spur point with 5 amp fuse for one pump and 10 amp fuse for two pumps is required. Final connections should be made to IEE standards, following the wiring diagrams enclosed with each individual control switch.