

# Power Tank DP

## Installation Instructions

Installation must be carried out by competent persons in accordance with current regulations.

### Installation

The tank must be installed on a continuous support base (e.g. marine ply, concrete, T&G boards) and not rely solely on cross braces.

### Assembly

Make sure that any debris is removed from inside the tank.

If it is necessary to tip up the tank to reach the installation position (e.g. passing through a loft hatch), first remove lid complete with pump and transport it separately. The weight of the pump is designed to hang vertically and tipping the tank without removing the pump can result in damage.

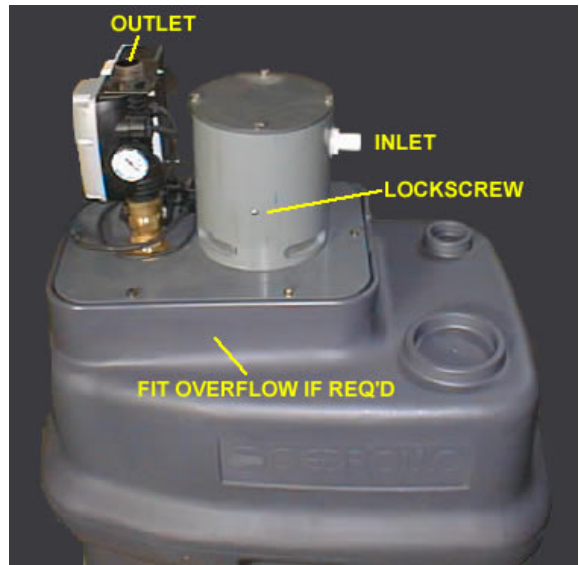
Do not over tighten lid fixing bolts, they should exert only a light pressure on the gasket seal.

### Pipe work

The incoming water supply should be connected to the fill valve connection on the side of the grey 'turret' via a good quality isolating valve. The turret may be rotated so that the connection is in the most convenient position, the position should then be locked by tightening the small screw.

The pumped supply from the unit is delivered from the 1" BSP connection on the top of the unit. Do not use Boss White or similar compounds on this plastic connection, PTFE tape and silicon based sealants are suitable. Fitting a good quality valve to the outlet pipe is recommended to facilitate service and testing.

If an overflow is required, this should be a larger size than the incoming supply pipe and for potable applications it should be a suitable screened type. It should be fitted in the side of the tank immediately below the top flange.



If a pressure vessel has been supplied with your unit, it should be positioned between the powertank unit and the first draw off point on the pipe work. If space permits it can be fitted directly to the tank outlet using the T-piece provided. It can be mounted horizontally or vertically to suit the situation.

### Wiring

The unit requires a 13A fused power supply of 230v, which should be protected by an RCD safety device. Electrical installation should be in accordance with IEC regulations.

### Starting

Ensure the tank is full of water and all debris has been removed. An outlet (e.g. tap) on the system should be fully open before turning on power. Allow the pump to run until the air has been purged and water flows from the open outlet. Turn off the outlet. The pump should run for approximately 15 – 30 seconds before stopping.

Check carefully for leaks.

**Adjustment**

The controller is pre-set to approximately 1.5 bar pump start pressure. For water systems which extend more than 15 m above the pump, the pump will not start unless this setting is increased in accordance with the controller instructions supplied. The maximum setting is 3.5 bar. If the pump does not stop after use when this adjustment has been made, the setting is too high.

This setting can also be increased to reduce the pressure drop before the pump starts.

Try the following settings as a start point:

Start pressure: 2 bar                      Vessel air pressure 1 bar

Vessel air pressure is adjusted using a tyre pump with gauge and should be adjusted with pump turned off and pressure within the pipe-work released.

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