

Access Pressure Booster Sets

Models covered: (EPTS0200, EPTS0500, EPTS1250, EPTS1250H, EPTS2000, EPTS2000H)

Description

The set provides a constant pressure supply for connection to an irrigation system or hand watering point. The set is fitted with an internal float valve for incoming water level control and an internal automatic pump for pressurised output.

Handling

The set will be delivered on a pallet, care should be taken when unloading to ensure no damage is done to the tank structure or any associated fittings. Always keep upright to avoid damage to the internal components. Keep the set on the pallet until it can be transferred directly to the prepared base.

Base

It is very important for stability and longevity that the set is installed on a clean and level surface that is smooth, firm and supports the total filled weight. The recommended base dimensions are as follows:

Code	Approximate filled weight (KG)	Recommended base size
EPTS0200	225	1.2m diameter
EPTS0500	535	1.2m x 0.95m *
EPTS1250	1300	1.8m diameter *
EPTS2000	2065	1.8m diameter *

* Reinforced concrete base 100mm (4") deep:

Connections

Electrical:

- A suitably protected 240vac power supply is required this should be connected into the red/yellow pump isolator input terminals: Live = L1, Neutral = L2 and Earth = Earth block.
 - Pump FLC 4.8amps (EPTS0200,500,1250,2000).
 - Pump FLC 5.0amps (EPTS1250H, EPTS2000H).

Supply out:

- The supply output connection is via the 1" grey union located at the top of the tank. Fit a 1" male stud to suit pipe size (no PTFE tape required).

Supply in:

- The mains water supply input connection is via the ¾" BSPM tank float valve thread. Fit a ¾" female elbow to suit pipe size (use PTFE tape to seal the threads). **Ensure the valve is not twisted after connection.**

Overflow:

- An overflow outlet is located at the side of the tank. This will give an early indication of a float valve fault. This can be left open or piped to a drain (discharge must be visible).

Location

To comply with Water Regulations the tank is fitted with an 'AB' weir type air gap which is designed to overflow the side of the tank if a serious float valve fault occurs. **Therefore, it is important the set is in an area which has sufficient drainage to cope with any unintentional**

escape of water either from the tank itself or the outlet supply from the pump. **Note that in both scenarios the water flow will be unrestricted.** Locate the unit where all fitted components can be accessed for maintenance purposes. Do not place near direct heat sources and if outside avoid placing in direct sun.

Commissioning Procedure

To commission the booster set, ensure that all input and output connections both mechanically and electrically have been made and are secure. The internal pump does not need priming prior to use but ensure the tank is full and the float valve has turned off the water supply at the correct level.

Ensure that the blue Isolator located at the top of the tank is turned on and a downstream valve is open, then turn on the red/yellow pump isolator. This will ensure that any trapped air in the pipework etc is expelled. Ensure the pump runs and delivers a good flow of water. Close all downstream valves and ensure the pump switches off automatically and stays off (pump may run for a while before switching off this is usual).

Water storage tank

- Check mains water supply pipe and inlet fittings for leaks.
- Check internal float valve and float is secure and switching off the water correctly.

Pressurisation pump

- Check pump reaches full pressure and switches off.
- Check outlet fittings for leaks.

Maintenance

- Periodic checks as above.
- Check filter periodically.

Winterisation drain down procedure

- Turn off the water supply to the tank.
- Run system until the tank valve float is clear of the water. Do not fully drain the tank and ensure the pump remains fully covered in water.
- Turn off the pump electrical isolator and lock off handle.
- Turn on a downstream valve to remove any residual pressure.
- Turn off the blue handled stopcock located at the top of the tank.
- Remove the filter top, drain contents and leave loose.
- Leave the system blue handled supply isolator open.
- Open the mains water riser drain point.

EPTS1250H and EPTS2000H

The EPTS1250H and EPTS2000H booster sets have the benefit of a variable speed pump and DAB DCONNECT which is a separate control unit wirelessly linked to the pump. This can be used to set up operating parameters via mobile phone app (see additional pump information). The app also enables remote viewing of tank water level, pump pressure, water and electrical usage.

Troubleshooting

Below is a quick guide to the most obvious faults. Refer to manufacturer's specific instructions.

Problem	Cause
Pump not working when system valve open	Check pump isolator is turned on
	Check supply fuse
	Pump has detected lack of water and initiated dry run protection – check level in tank, turn pump isolator off for 15 seconds turn on, ensure pump switches off after reset.
	Check for blockage at pump filter inlet strainer clean and retry.
	EPTS1250H and EPTS2000H - Check DCONNECT app for diagnosis.
Pump operating when system off	Check for leaks in pump outlet connections and system pipework.

**Irrigation systems should only be
installed by a competent person**

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