

TANK-SUB BOOSTER SETS

Penstar Tank-Sub booster sets provide an economic solution to an inadequate water supply.

The sets consist of a 4" borehole pump, suspended inside a 700mm diameter polyethylene tank & fitted with a float switch to prevent it running dry.

On the standard sets the pump is controlled by a 60 litre pressure set with the option of upgrading to a larger vessel.

For improved control we also offer a variable speed system using an inverter drive to vary the operating speed of the pump.

Tank options



700mm diameter WRAS-approved polyethylene tanks, with 10year warranty cover -

Capacity 500 litres (110 gallons) – Height 1435mm

Capacity 700 litres (158 gallons) – Height 2150mm

The tank is fitted with an inlet ball-float valve, a screened vent/overflow, a drain valve & a 1" BSP discharge connection.

Pumping pipework inside the tank is solvent-welded rigid ABS fitted with a non-return valve.



Pump options

Penstar ST 4" submersible pumps with stainless steel casing & noryl impellers, fitted with IP68 motor with hermetically sealed stator & water lubricated bearings.

Model	Motor	Maximum flow	Maximum pressure	Operating pressure *	* recommended maximum
ST05-13	0.37kW	25litres/min	8.6bar	6bar	
ST10-07	0.37kW	50litres/min	4.6bar	4bar	
ST10-10	0.55kW	50litres/min	6.9bar	6bar	

We can also offer pumps with stainless steel impellers from the Penstar SP range or the Grundfos SP-A range.

Control options

The standard pump control uses a conventional pressure set to operate the pump between 2 set points. We offer a choice of vessel sizes & the pump will switch on & off less frequently if a larger vessel is used.

An advance on conventional on/off control uses a pressure transducer & inverter drive to vary the operating speed of the pump(s) & provide a constant pressure system.

This provides a better control on the system with little or no variation in pressure.

A low level float switch is used to protect the pump from running dry.

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