



POWERTANK



A PACKAGED SOLUTION FOR **BOOSTING WATER**

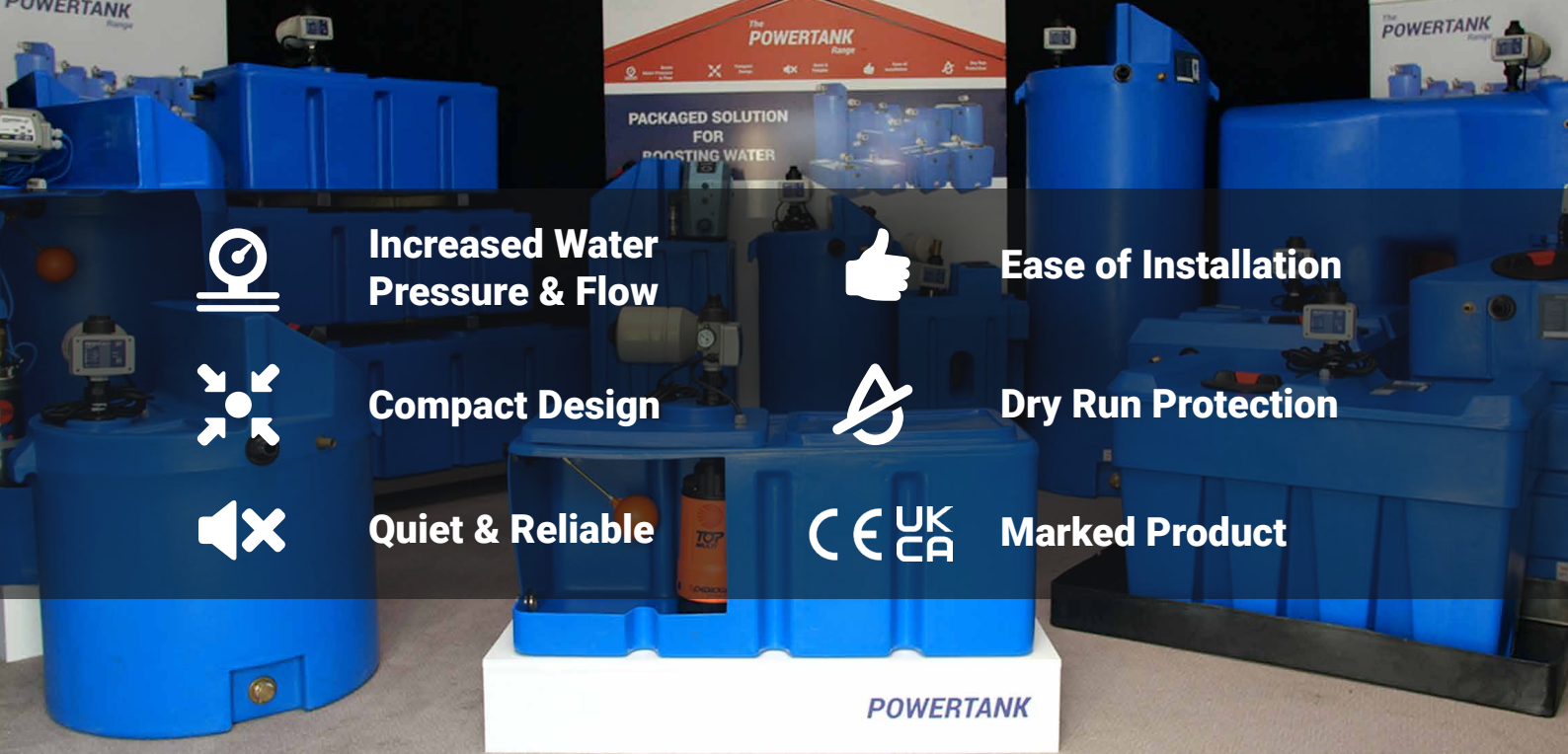
by Pedrollo Distribution

OVERVIEW



powertank.co.uk





Applications Include: Domestic, Commercial, Agricultural & Industrial

› Need to boost your water pressure?

There are many reasons for experiencing low water pressure problems including high demand, location and shared supply. The Powertank range is a self-contained cold water booster system specifically designed for use in domestic, commercial, agricultural & industrial applications where existing water pressure and flow is insufficient to meet demand. The range caters for multiple space and storage capacity requirements.

› Why do I need a tank and a pump?

To increase water flow there must first be more water. If your mains supply is not meeting your requirements, then you need a break tank to store your own water supply ready for when you need it. This can then be pumped to your outlets on demand giving you a plentiful supply of water at the right pressure.

› Can this be used with any type of hot water system?

Powertanks are suitable for use with pressurised/unvented & combination boiler hot water systems and are not designed for use with unpressurised/vented /gravity fed systems where a cold water header tank already exists.

› Why can't I just fit a pump onto the mains?

Water Authority bylaws prevent a pump being directly connected to the mains supply, so when your mains water pressure needs a boost, a break tank must be incorporated into the system. There is an exemption for pumps 'up to' 12 ltr/min but this is not guaranteed and relies on your mains being capable of delivering this volume. To put this into context, a single shower typically requires between 9-15 ltr/min.

› Will it be noisy?

All pumps create noise, but by incorporating an ultra-quiet running submersible pump within a tank unit, the Powertank range is about as quiet as you can get. Typical dB of <65dB(A)

› Volumes

All stated volumes are usable water volumes.

› Is it easy to install?

Our all-in-one tank and pump unit is designed to remove the headache for installers. It is a packaged unit and therefore is fast and easy to install. See our Installation Guideline for step by step instructions.

› Where am I going to put it?

The Powertank range has been designed to provide the end user with a variety of options in terms of water storage and usage requirements as well as availability of space. Typical installation areas include garages, plant rooms, utility rooms and kitchens.

› What is the difference between the fixed speed and the variable speed version?

The fixed speed version has an automatic pump controller which provides the full performance of the pump on demand.

The variable speed version has an intelligent pump controller that will supply a smooth flow of water to every outlet by maintaining constant pressure throughout your property, speeding up and slowing down the pump to suit demand. This ensures efficient operation of the pump leading to reduced energy usage and a smoother user experience.

› What size property will this supply?

The Powertank range is scalable and additional capacity can be added for large properties or those with particularly poor incoming flow rates. We have designed the range to fit in all domestic and commercial properties (incoming flow rate and required usage must be taken into consideration). If you have a weak incoming water supply yet a high demand for water, you also have the option to link an additional 'assist tank' to ensure you have enough stored water to meet demand.

› What if my tank runs out of water?

The controller will turn off the pump if there is no water in the tank. It will automatically reset after a short delay allowing the water volume in the tank to recover. This pump protection feature ensures a long and happy life for the pump.

Controls Options

Fixed Speed

This is the most economic option and will transform the water pressure and flow in your property. This will deliver the full pressure of the pump at the in use flow rate (see performance table).

Variable Speed

The variable speed option allows you to choose your desired pressure, speeding up and slowing down to suit demand. Whatever you are doing, from washing up, watering the garden, having a shower or all 3 together the pressure will continue to be the same to give you a constant pressure at every outlet.



Increase Performance

Variable - TWIN & TRIPLE Pump Option

For higher flow rates the Powertanks can be fitted with two or three pumps to meet the required duty. Twin & Triple pump sets are configured as duty assist with two or three pumps sharing the duty.

Twin pump options are available from 500ltr tank capacity and Triple pump options are available from 2000ltr tank capacity.

These operate with the same functionality as a traditional booster set.



Variable PLUS – More Powerful Pump Option

For certain applications a larger flow rate maybe required. The PLUS range can offer a much higher flow rate than the Standard Variable Speed unit and is a more cost effective way of increasing the performance of the Powertank system without upgrading to a twin or triple pump system. This PLUS pump option is available on our larger tanks options.

Performance

Pump Option	Power		Pressure	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar
	kW	HP							
Fixed Speed	0.55	0.75	Q l/min	73	57	40	10	-	-
Variable Speed	0.75	1		80	80	80	68	50	14
Variable Speed (Compact Model)	0.55	0.75		80	80	66	40	-	-
Variable Speed PLUS	1.5	2		160	160	138	107	50	-
Variable Speed TWIN	1.5	2		160	160	160	136	100	28
Variable Speed TRIPLE	2.25	3		240	240	240	204	150	42
Variable Speed DG-PED 3	0.75	1		80	70	58	45	35	-
Variable Speed DG-PED 5	1.1	1.5		120	105	92	75	60	-

*These are maximum pressures. There is an option to choose your desired pressure on all variable speed units.

Air Gaps Explained

Fluid Category 4 / Type AF - Suitable for applications in commercial heating systems, bottle washing, commercial dish-washing machines, brewery and distillations plants.

Fluid Category 5 / Type AB - Suitable for applications where increased backflow protection is required such as applications in food washing & packing stations, abattoirs, hygienic rooms, surgeries and laboratories. This is an optional upgrade.



Powertank Utility : 500ltr & 750ltr

The Powertank Utility range is designed for domestic and light commercial use where there is low mains water pressure and where pressure fluctuates. It is electronically controlled, starting and stopping the pump automatically when an outlet is opened and closed. The Utility range is designed for areas where the floor space is not restricted. This range caters for a wider variation of tank options to suit a wider range of applications.

Key Features

- Non-corrosive holding tank (WRAS approved material)
- Pre-fitted WRAS approved fill valve
- Minimal installation requirement
- Dry-run protection with auto restart (time delay)
- Adjustable digital display flow controller (Variable Speed Option)
- AF Air gap (AB Air gap optional)
- Suitable up to Fluid Category 4 (CAT 5 Optional)

Range Options

Model
500ltr Utility Fixed Speed
500ltr Utility Variable Speed
500ltr Utility Variable Speed Plus
500ltr Utility Variable Speed Twin Pump
750ltr Utility Fixed Speed
750ltr Utility Variable Speed
750ltr Utility Variable Speed Plus
750ltr Utility Variable Speed Twin Pump

System Connections

Connection	Size
Inlet	½" BSP (¾" Optional)
Outlet	1" BSP
Overflow	1 ¼" (40mm) female waste - pipe compression fitting
Drain Off	1" BSP



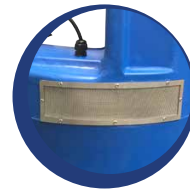
Twin Pump Option



Overflow - Inlet



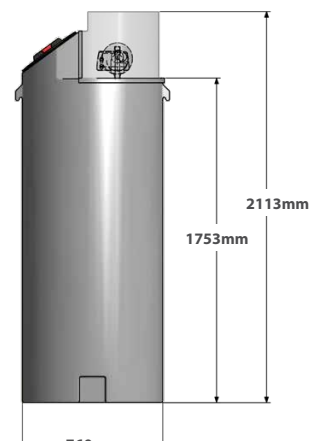
Variable Speed Option



AB Air Gap Option



500ltr Utility



750ltr Utility

	Fixed Speed Option		Variable Speed Option	
Power supply	240 volt, 50Hz		240 volt, 50Hz	
Controller	Presflo Multi with integral 3ltr pressure vessel		Steadypres supplied with 8ltr pressure vessel	
Current Input	3.4 amp		6.3 amp	
Mains Power Cable	2 mtr x 1mm ² 3 core fitted with 13 amp fuse mains plug		2 mtr x 1mm ² 3 core fitted with 13 amp fuse mains plug	
Tank Weight Empty	500ltr = 34kg	750ltr = 49kg	500ltr = 40kg	750ltr = 55kg
Tank Weight Full	1ltr = 1 kg plus weight of empty tank		1ltr = 1 kg plus weight of empty tank	
Access Cover Ø	285mm		285mm	

Pump Option	Power		Pressure	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar
	kW	HP							
Fixed Speed	0.55	0.75	Q l/min	73	57	40	10	-	-
Variable Speed	0.75	1		80	80	80	68	50	14
Variable Speed PLUS	1.5	2		160	160	138	107	50	-
Variable Speed TWIN	1.5	2		160	160	160	136	100	28

Please note that we have a policy of continuous product development and specifications may change from those shown