

# 3P BT230/57/1000 B Booster Tanks

## Variable Speed Combined Pressure Booster & Tank

- **Combined Pump and Storage Tank**
- **Adjustable Pressure**
- **Variable Speed**
- **Low Energy Consumption**
- **Low Noise/Vibration**
- **WRAS Approved Tank**
- **Easy Maintenance and replacement of parts**

### Overview

Quiet and economical supply of pressurised water to multiple points of use within a building. Ideal in domestic and light commercial uses where the enclosed design and low noise and vibration are desirable.

A variable speed inverter runs the pump only as fast as necessary to maintain the desired pressure, achieving high efficiency, minimising noise and vibration and reducing running costs.

The pump motor is protected by the inverter against failure caused by overload/stall conditions and dry running. A slow start and stop of the pump eliminates sudden pipe vibration and water hammer.

Features include adjustable pressure, overcurrent protection, soft start and stop, over/undervoltage and overcurrent protection.

The WRAS approved water storage tank is quickly filled by a high speed float valve. An articulated ball arm provides additional movement reducing unnecessary valve activity.

Designed, and assembled in the UK. With full UK based technical support, rapid spares



availability, and spare parts supply from UK stocks.



Full recon/repair service available to component level.

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### Features

- *Maintains constant system pressure*
- *WRAS approved water tank*
- *Reliable air cooled inverter with IGBT technology.*
- *High quality stainless steel pumps*
- *Quiet water cooled pump located within the tank for extremely quiet operation*
- *Single sided lid bolt removal (no need to reach backnut on other side)*
- *8 litre pressure vessel*
- *Highly accurate digital pressure display*
- *Pump Fault display*
- *Type AB Air Gap available (optional) for compliance with WRAS regulations up to Category 5, BS EN 13077.*
- *620mm wide. Fits through a doorway (230L models only).*
- *Easily replaceable parts, designed for easy maintenance.*

### Adjustable Settings

- *Adjustable pump pressure*
- *Auto-restart after fault on/off*
- *Runtime duration counters for inverter and pump*
- *Adjustable ramp time for soft start/stop*
- *Adjustable Delta start value (deviation from set pressure before the pump starts)*
- *Restore factory default setting*

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## Variable Speed Combined Pressure Booster & Tank

### Technical Specifications

Physical		BT230 B	BT570 B	BT1000 B
Internal Volume		230 Litre	570 Litre	1000 Litre
Width		620mm	770mm	1180mm
Length		620mm	970mm	1180mm
Height		1700mm	1900mm	1700mm
Material - Control Panels		Plastic		
Material - Tank		PU Insulated GRP		
Material - Pipes		Brass		
Material - Flexible Hose (Pump connection)		Food Grade PVC, Double Layer with Stainless Steel Reinforcement		
Material - Pressure Vessel		Steel		
Material - Pump Body		Stainless 304		
Material - Impellers		Stainless 304		
Material - Diffusers		Noryl		
Material - Venturi		Noryl		
Material - Pump Shafts		Stainless 420		
Material - Shaft Seals		Ceramic/Graphite		
Material - Body Seals		NBR 70		
Weight (empty)	9031B	95 kg	135 kg	160 kg
	10063B	98 kg	138 kg	163 kg
	14562B	102 kg	142 kg	167 kg
<b>Electrical</b>				
Supply Voltage		220-240Vac 50Hz Single Phase		
Power Consumption		Max 20A		
Pump Output Protection		Overcurrent Dry Run (cosphi) Short Circuit Protection Over/undervoltage protection		
Inlet Size		1" BSP		
Outlet Size		1¼" BSP		
Flow Rate	9031B	90 litres/minute		
	10063B	100 litres/minute		
	14562B	145 litres/minute		
Max System Pressure	9031B	3.1 Bar		
	10063B	6.3 Bar		
	14562B	6.2 Bar		

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### Technical Specifications

Recommended Operating Pressure	BT2309031B	2.6 Bar
	BT23010063B	5 Bar
	BT23014562B	5.1 Bar
<b>Pump Inverter</b>		
Type	IGBT, microcontroller generated sine wave by PWM with adjustable carrier frequency	
Display	LCD Monochrome 16x1	
Backlight	Green	
Keypad	Membrane	
Pressure Control	Variable speed	
Pressure adjustment	Digital via control panel	
Fault detection	Yes	
Pressure Sensing	Electronic, solid state, absolute 0-12bar	
BMS/Fault Output	Max 240Vac up to 5A	
Inlet Float Valve	1" BSP, Diaphragm type high speed valve with articulation.	
<b>Environmental Limits</b>		
Water Temperature	2 - 37°C	
Ambient Temperature	0-50°C	
Protection Class - Pumps	IP68 (submersible)	
Protection Class - Controls	IP55	

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