

# AQUABOOST iBOLT COLD WATER BOOSTING



### **ABOUT US**

We are a UK manufacturer of pump and water boosting solutions with an unprecedented reputation for product quality, reliability, innovation and customer service.

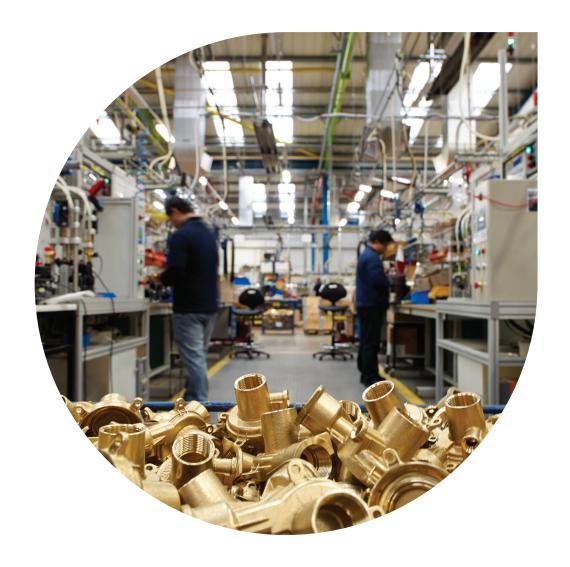
Customers can expect nothing but the best product, using the latest technology, manufactured to the highest quality standards, resulting in the most reliable solution available.

All our products are designed and manufactured to exacting standards right here in the UK.

Most installations can be satisfied from our standard range of products, however, if you need a more tailored solution, our unique manufacturing facility combined with our technical expertise means we can provide bespoke options specifically aimed at commercial and OEM markets.

Telephone: +44 (0) 2380 252 325 e-mail enquiries@tapflopumps.co.uk

website: www.tapflopumps.co.uk



## UNRIVALLED SUPPORT

We are specialists in our field, with a dedicated team able to offer help at every stage.

#### **DESIGN EXPERTISE**

Our expert team can conduct a detailed analysis of the performance requirements of the intended project to produce a fully costed proposal. All our systems are custom designed in-house using the latest CAD software to develop, evaluate and aid the design of the most efficient solution for your specific needs.



#### COMMISSIONING

We provide a full commissioning service on all our systems and are available to advise on the installation of your system should you require our technical help or practical expertise.



#### MANUFACTURING EXCELLENCE

We have invested in the latest production and manufacturing technologies to ensure we work to the highest quality standards. This guarantees our system reliability whilst at the same time minimising costs, improving efficiency and delivering on time and in full.



#### **MAINTENANCE**

Ongoing maintenance is a cost-effective solution to prolonging the life of your system and maximising its operational efficiency. To ensure the system continues to operate effectively and reliably we can also offer a comprehensive maintenance and service contract



### **TECHNICAL TRAINING**

We offer a range of CPD courses aimed at building service engineers and accredited by CIBSE - Chartered Institution of Building Service Engineers. CIBSE is an internationally recognised professional association that supports construction and engineering industries by delivering up-todate knowledge of the built environment to its membership through training and education.

Visit the CIBSE website for further details.

### **ON-GOING SUPPORT**

The quality and reliability of our products and services are second to none, allowing you peace of mind when you specify Stuart Turner. However, should you experience any issues we have a dedicated team of technical experts available to help. The TechAssist team are available to offer technical advice or guidance on any aspect of product selection.

Technical helpline: +44 (0) 2380 252 325



# INTRODUCING

# AQUABOOST **BOOSTER SETS**

### LOW PRESSURE? NO PROBLEM!

AQUABOOST offers the ultimate water supply solution.

We offer a comprehensive range of standard water boosting sets, designed to optimise space and provide a very quiet, simple to install package for both large domestic and commercial applications.

If one of our standard solutions does not meet your needs then AQUABOOST bespoke packaged pump systems are designed and built specifically to suit your individual project and site requirements.

AQUABOOST cold water pressure and flow boosting solutions utilise high quality pumps combined with intelligent variable speed controls to solve the problem of poor water pressure in multiple applications.

Simple to commission and ready to go!



### **AQUABOOST**

"Stuart Turner offer a range of AQUABOOST booster sets and integrated pump and water storage systems, designed to optimise space, provide higher water pressure and flow to multiple outlets and supplied as a ready to install fully packaged product."

## INTRODUCING

# **AQUABOOST iBOLT**

- ▶ UP TO 9.2 BAR PRESSURE
- ▶ FLOW RATES UP TO 75 M³/ HOUR
- ► ADVANCED VARIABLE SPEED CONTROL
- ▶ 8 or 24 LITRE PRESSURE VESSEL OPTIONS
- DRY RUN PROTECTION

Available as a stand-alone single pump or single, twin and triple pump booster sets. The AQUABOOST iBOLT range of variable speed booster pumps and pump sets feature horizontal multistage pumps controlled by air-cooled variable speed frequency inverters mounted directly on the pump motor. Designed to be a high performing and intuitive to commission pump range, offering constant water pressure supply where flow demand varies.

### **GOOD TO KNOW**

AQUABOOST iBOLT pump and booster sets feature WRAS approved lever ball valves and BMS volt free contacts and utilise variable speed controllers, which continually vary the motor speed to match the changing flow demand pattern, whilst maintaining a constant minimum required system pressure. They are simple to commission, just scan the QR code.

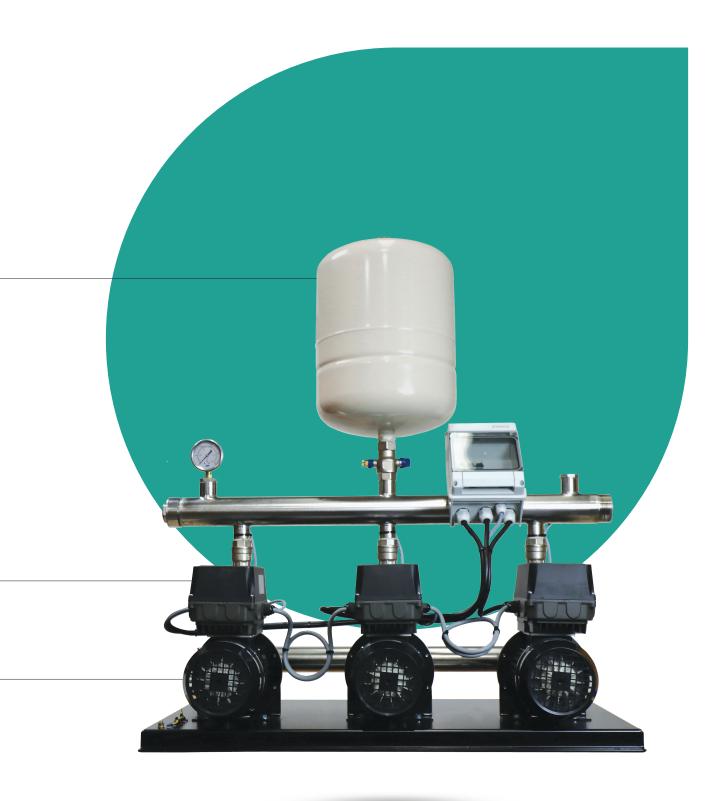
#### **DID YOU KNOW**

AQUABOOST iBOLT booster sets are available with a WRAS approved 8 or 24 litre pressure vessel, providing an added buffer of pressurised cold water to supplement pressure and flow.

W	'RAS	AΡ	PRO	VED	PRESS	URE	VESSEL
---	------	----	-----	-----	-------	-----	--------

ADVANCED PUMP CONTROL

HIGH QUALITY MULTISTAGE PUMPS



### **GOOD TO KNOW**

### Product Code Structure Example:

# iBOLT 0904 3H CMT / 24 Product Type Pump Model Number of Pumps Controller Single Phase Vessel Size

## **AQUABOOST iBOLT single pumps**

The AQUABOOST iBOLT range of booster pumps features a horizontal multistage pump controlled by an air-cooled variable speed frequency inverter mounted directly on the pump motor.

The single pump 03 range of pump variants are capable of delivering flow rates up to 5.0 m³/hour and producing head pressures of up to 9.0 bar.

The 05 range of pump variants deliver flow rates up to  $8.0 \text{ m}^3$ / hour and are capable of producing head pressures of up to 9.2

The 09 range of pump variants are capable of delivering flow rates up to 15.0 m<sup>3</sup>/hour and of producing head pressures of up to 7.1 bar.



- UP TO 9.2 BAR PRESSURE
- ► FLOW RATES UP TO 15 M³/ HOUR

- ► ADVANCED VARIABLE SPEED CONTROL
- DRY RUN PROTECTION

Part No	Model	Nominal Flow (per pump) (m³/hr)	Nominal Head (bar)
47345	iBOLT Pump 0304	3	3.0
47346	iBOLT Pump 0306	3	4.7
47378	iBOLT Pump 0308	3	6.4
47347	iBOLT Pump 0504	5	3.4
47348	iBOLT Pump 0506	5	5.0
47379	iBOLT Pump 0508	5	6.5
47380	iBOLT Pump 0903	9	2.6
47349	iBOLT Pump 0904	9	3.6
47350	iBOLT Pump 0906	9	5.0

		iBOLT Pump 0304 47345	iBOLT Pump 0506 47348	iBOLT Pump 0906 47350	
General	Warranty		2 Years		
	Conformity certification	UKCA   CE			
Features	Pump control system	Variable	speed (via pressure tran	isducer)	
	Pump control mode	Duty			
	Dry run protection	•	•	•	
	BMS volt-free contacts	•	•	•	
Performance	Nominal head	3.0 bar	5.0 bar	5.0 bar	
	Maximum head (closed valve)	4.4 bar	7.0 bar	7.1 bar	
	Nominal flow rate	3.0 m³/h	5.0 m³/h	9.0 m³/h	
	Maximum flow rate	5.0 m³/h	8.0 m³/h	15.0 m³/h	
	Minimum static inlet pressure	0.1 bar			
	Maximum static inlet pressure	1 bar			
	Maximum static outlet pressure	1.3 bar			
	Maximum air temperature	40 °C			
Connections	Inlet	1 3/4"			
	Outlet	1"			
Pump	Pump type	Centrifugal multistage			
	Pump body	Stainless steel			
	Impeller	Stainless steel			
	Mechanical seal	EPDM / Carbon / Ceramic			
	Motor type	Induction (current overload sensor)			
	Duty rating		Continuous		
Electrical	Voltage / phase / frequency	230 V a.c. / 1 / 50 Hz			
	Current – full load	2.9 Amps	5.5 Amps 8.7 Amps		
Physical	Enclosure protection		IP55		
	Width	176.5 mm	176.5 mm	176.5 mm	
	Depth	387 mm	472 mm	556 mm	
	Height	300 mm	315 mm	320 mm	
	Weight	13 Kg	18 Kg	25 Kg	

# **AQUABOOST iBOLT single pump booster set**

The AQUABOOST iBOLT range of single pump booster sets features a horizontal multistage pump controlled by an air-cooled variable speed frequency inverter mounted directly on the pump motor.

The iBOLT 03 single pump range is capable of delivering flow rates up to  $5.0 \text{ m}^3/\text{hour}$  and head pressures of up to 9.0 bar.

The iBOLT 05 single pump variants deliver flow rates up 8.0 m<sup>3</sup>/ hour and capable of producing head pressures of up to 9.2 bar.

The iBOLT 09 single pump variants deliver flow rates up 15.0 m<sup>3</sup>/ hour and capable of producing head pressures of up to 7.1 bar.

The iBOLT 15 single pump booster set offers an impressive 25.0 m<sup>3</sup>/hour flow rate and is capable of producing head pressures of up to 4.4 bar.



- UP TO 9.2 BAR PRESSURE
- ► FLOW RATES UP TO 25 M³/ HOUR
- ADVANCED VARIABLE SPEED CONTROL

- DRY RUN PROTECTION
- ▶ WRAS APPROVED 8 LITRE PRESSURE VESSEL

Part No	Model	Nominal Flow (per pump) (m³/hr)	Nominal Head (bar)
47381	iBOLT 0304 1H-CMT/8	3	3.0
47382	iBOLT 0306 1H-CMT/8	3	4.7
47383	iBOLT 0308 1H-CMT/8	3	6.4
47384	iBOLT 0504 1H-CMT/8	5	3.4
47385	iBOLT 0506 1H-CMT/8	5	5.0
47386	iBOLT 0508 1H-CMT/8	5	6.5
47387	iBOLT 0903 1H-CMT/8	9	2.6
47388	iBOLT 0904 1H-CMT/8	9	3.6
47389	iBOLT 0906 1H-CMT/8	9	5.0
47547	iBOLT 1503 1H-CMT/8	15	3.4

		iBOLT 0304 1H-CMT/8 47381	iBOLT 0504 1H-CMT/8 47384	iBOLT 0906 1H-CMT/8 47389	
General	Warranty		2 Years		
	Conformity certification	UKCA / CE			
Features	Pump control system	Variable	speed (via pressure tran	sducer)	
	Pump control mode	Duty			
	Dry run protection	•	•	•	
	Glycerine filled pressure gauge	•	•	•	
	Pump check valve(s)	•	•	•	
	BMS volt-free contacts	•	•	•	
	Pressure vessel		8 Litres		
Performance	Nominal head	3.0 bar	3.4 bar	5.0 bar	
	Maximum head (closed valve)	4.4 bar	4.6 bar	7.1 bar	
	Nominal flow rate	3.0 m³/h	5.0 m³/h	9.0 m³/h	
	Maximum flow rate	5.0 m³/h	8.0 m³/h	15.0 m³/h	
	Minimum static inlet pressure	0.1 bar			
	Maximum static inlet pressure	1 bar			
	Maximum static outlet pressure	1.3 bar			
	Maximum air temperature	40 °C			
Connections	Inlet	1 1/4"	1 1/4"	1 1/2"	
	Outlet	1"	1"	1 1/4"	
Manifold	Manifold construction		Stainless steel		
	Pump isolation valves		Full bore, lever		
Pump	Pump type	Centrifugal multistage			
	Pump body	Stainless steel			
	Impeller	Stainless steel			
	Mechanical seal	EPDM / Carbon / Ceramic			
	Motor type	Induction (current overload sensor)			
	Duty rating		Continuous		
Electrical	Voltage / phase / frequency	oltage / phase / frequency 2		230 V a.c. / 1 / 50 Hz	
	Current - full load	2.9 Amps	3.7 Amps	8.7 Amps	
Physical	Enclosure protection	IP55			
	Width	380 mm	380 mm	380 mm	
	Depth	600 mm	600 mm	600 mm	
	Height	840 mm	840 mm	840 mm	
	Weight	24Kg	29 Kg	36 Kg	

## **AQUABOOST iBOLT twin pump booster set**

The AQUABOOST iBOLT range of twin pump booster sets features two horizontal multistage pumps controlled by air-cooled variable speed frequency inverters mounted directly on the pump motors.

The iBOLT 03 twin pump range is capable of delivering flow rates up to  $5.0 \text{ m}^3/\text{hour}$  (per pump) and head pressures of up to 9.0 bar.

The iBOLT 05 twin pump range is capable of delivering flow rates up to 8.0 m<sup>3</sup>/hour (per pump) and head pressures of up to 9.2 bar.

The iBOLT 09 twin pump range is capable of delivering flow rates up to 15.0 m<sup>3</sup>/hour (per pump) and head pressures of up to 9.2 bar.

The iBOLT 15 twin pump booster set is capable of delivering flow rates up to 25.0 m³/hour (per pump) and head pressures of up to 4.4 bar.



- UP TO 9.2 BAR PRESSURE
- ► FLOW RATES UP TO 50 M³/ HOUR
- ADVANCED VARIABLE SPEED CONTROL

- DRY RUN PROTECTION
- ▶ WRAS APPROVED 24 LITRE PRESSURE VESSEL

Part No	Model	Nominal Flow (per pump) (m³/hr)	Nominal Head (bar)
47353	iBOLT 0304 2H-CMT/24	3	3
47354	iBOLT 0306 2H-CMT/24	3	3
47390	iBOLT 0308 2H-CMT/24	3	3
47355	iBOLT 0504 2H-CMT/24	5	5
47356	iBOLT 0506 2H-CMT/24	5	5
47391	iBOLT 0508 2H-CMT/24	5	5
47392	iBOLT 0903 2H-CMT/24	9	9
47357	iBOLT 0904 2H-CMT/24	9	9
47358	iBOLT 0906 2H-CMT/24	9	9
47548	iBOLT 1503 2H-CMT/24	15	3.4

		iBOLT 0304 2H-CMT/24 47353	iBOLT 0506 2H-CMT/24 47356	iBOLT 0906 2H-CMT/24 47358	
General	Warranty		2 Years		
	Conformity certification	UKCA/CE			
Features	Pump control system	Variable speed (via pressure transducer)			
	Pump control mode	Duty / Standby or Duty / Assist			
	Dry run protection	•	•	•	
	Glycerine filled pressure gauge	•	•	•	
	Pump check valve(s)	•	•	•	
	BMS volt-free contacts	•	•	•	
	Pressure vessel		24 Litres	,	
Performance	Nominal head	3.0 bar	5.0 bar	5.0 bar	
	Maximum head (closed valve)	4.4 bar	7.0 bar	7.1 bar	
	Nominal flow rate (per pump)	6.0 m³/h (3.0 m³/h)	10.0 m³/h (5.0 m³/h)	18.0 m³/h (9.0 m³/h)	
	Maximum flow rate (per pump)	10 m³/h (5.0 m³/h)	16.0 m³/h (8.0 m³/h)	30.0 m <sup>3</sup> /h (15.0 m <sup>3</sup> /h)	
	Minimum static inlet pressure	0.1 bar			
	Maximum static inlet pressure	1 bar			
	Maximum static outlet pressure	1.3 bar			
	Maximum air temperature	40 °C			
Connections	Inlet	2"	2"	2 1/2"	
	Outlet	1 ½"	2"	2"	
Manifold	Manifold construction		Stainless steel		
	Pump isolation valves	Full	bore, lever, WRAS Appro	oved	
Pump	Pump type		Centrifugal multistage	nultistage	
	Pump body	Stainless steel			
	Impeller	Stainless steel			
	Mechanical seal	EPDM / Carbon / Ceramic			
	Motor type	Induction (current overload sensor)			
	Duty rating		Continuous		
Electrical	Voltage / phase / frequency	230 V a.c. / 1 / 50 Hz			
	Current - full load	5.8 Amps	11.0 Amps	17.4 Amps	
Physical	Enclosure protection	IP55			
	Width	650 mm	650 mm	650 mm	
	Depth	570 mm	655 mm	760 mm	
	Height	1050 mm	1050 mm	1085 mm	
	Weight	49 Kg	59 Kg	68 Kg	

# **AQUABOOST** iBOLT triple pump booster set

The AQUABOOST iBOLT range of triple pump booster sets features three horizontal multistage pumps controlled by air-cooled variable speed frequency inverters mounted directly on the pump motors.

The iBOLT 03 range is capable of delivering flow rates up to 5.0 m<sup>3</sup>/hour (per pump) and head pressures of up to 9.0 bar.

The iBOLT 05 range is capable of delivering flow rates up to 8.0 m³/hour (per pump) and head pressures of up to 9.2 bar.

The iBOLT 09 range is capable of delivering flow rates up to 15.0  $m^3$ /hour (per pump) and head pressures of up to 7.1 bar.

The iBOLT 15 triple pump booster set is capable of delivering flow rates up to 25.0 m³/hour (per pump) and head pressures of up to 4.4 bar.



- ▶ UP TO 9.2 BAR PRESSURE
- ► FLOW RATES UP TO 75 M³/ HOUR
- ADVANCED VARIABLE SPEED CONTROL

- DRY RUN PROTECTION
- ▶ WRAS APPROVED 24 LITRE PRESSURE VESSEL

Part No	Model	Nominal Flow (per pump) (m³/hr)	Nominal Head (bar)
47549	iBOLT 0304 3H-CMT/24	3	3.1
47550	iBOLT 0306 3H-CMT/24	3	4.8
47551	iBOLT 0308 3H-CMT/24	3	6.4
47552	iBOLT 0504 3H-CMT/24	5	3.4
47553	iBOLT 0506 3H-CMT/24	5	5.2
47554	iBOLT 0508 3H-CMT/24	5	6.6
47555	iBOLT 0903 3H-CMT/24	9	2.6
47556	iBOLT 0904 3H-CMT/24	9	3.6
47557	iBOLT 0906 3H-CMT/24	9	5.0
47558	iBOLT 1503 3H-CMT/24	15	3.4

		iBOLT 0304 3H-CMT/24 47549	iBOLT 0506 3H-CMT/24 47553	iBOLT 0906 3H-CMT/24 47557	
General	Warranty		2 Years		
	Conformity certification	UKCA/CE			
Features	Pump control system	Variable speed (via pressure transducer)			
	Pump control mode	Duty / Standby or Duty / Assist			
	Dry run protection	•	•	•	
	Glycerine filled pressure gauge	•	•	•	
	Pump check valve(s)	•	•	•	
	BMS volt-free contacts	•	•	•	
	Pressure vessel		24 Litres		
Performance	Nominal head	3.0 bar	5.0 bar	5.0 bar	
	Maximum head (closed valve)	4.4 bar	7.0 bar	7.1 bar	
	Nominal flow rate (per pump)	9.0 m³/h (3.0 m³/h)	15.0 m³/h (5.0 m³/h)	27.0 m³/h (9.0 m³/h)	
	Maximum flow rate (per pump)	15 m³/h (5.0 m³/h)	24.0 m³/h (8.0 m³/h)	45.0 m³/h (15.0 m³ h)	
	Minimum static inlet pressure	0.1 bar			
	Maximum static inlet pressure	1 bar			
	Maximum static outlet pressure	1.3 bar			
	Maximum air temperature	40 °C			
Connections	Inlet	2"	3"	3"	
	Outlet	2"	2 1/2"	2 1/2"	
Manifold	Manifold construction		Stainless steel		
	Pump isolation valves	Full	bore, lever, WRAS Appro	oved	
Pump	Pump type		Centrifugal multistage	tage	
	Pump body	Stainless steel			
	Impeller	Stainless steel			
	Mechanical seal	EPDM / Carbon / Ceramic			
	Motor type	Induction (current overload sensor)			
	Duty rating		Continuous		
Electrical	Voltage / phase / frequency	230 V a.c. / 1 / 50 Hz			
	Current - full load	9.0 Amps	12.8 Amps	17.4 Amps	
Physical	Enclosure protection	IP55			
	Width	900 mm	900 mm	900 mm	
	Depth	565 mm	655 mm	760 mm	
	Height	1085 mm	1085 mm	1085 mm	
	Weight	78 Kg	92 Kg	122 Kg	

### AQUABOOST CASE STUDY

We provide a comprehensive water boosting capability from a standard single pump to bespoke solutions to meet the water supply demands of even the largest commercial buildings.



### **COVID-19 Response for HMP Prison** Service

With limitations of the UK Prison service well documented, COVID 19 presented a particular challenge to the operators of prisons around the county. Steps needed to be taken to ensure the safety of both prisoners and staff which resulted in an additional temporary building to be constructed to improve social distancing and enable effective isolation of those infected.

Each structure naturally requires amenities such as running water and electricity. Part of the increased supply of facilities required a number of cold water boosting sets to be specified, designed and built on a particularly short lead time.

Stuart Turner received an enquiry for three sets on Friday the 24th April 2020. We had a conversation with the contractor on site to gain all the information required and returned quotes later that evening.

An order was placed early Monday in order to have the completed sets despatched on Wednesday, ready for delivery and installation on Thursday.



### **Customer Comment**

"I just wanted to pass on my thanks for the way in which you dealt with my enquiry and order last week. Being in a difficult time, I just wanted to say thank you for the speed of quotation, order and delivery of the three booster sets and tanks you put together for me. The service was some of the best I have seen in the industry lately, even taking calls out of hours. Please pass my thanks to the team that managed to get everything out the door so quickly and efficiently!"



### AQUABOOST CASE STUDY

We provide a comprehensive water boosting capability from a standard single pump to bespoke solutions to meet the water supply demands of even the largest commercial buildings.



### **Dimensionally Interchangeable Booster Set**

Following an urgent enquiry for a bespoke build for a large hotel chain, our Technical Product Director Jonathan Gray was in the area and managed to visit the site on the day of installation.

The issue was a large old booster set that required decommissioning and removing from the plant room before the new SP3V-22SV04F040T-MARB/100 could be sited and installed.

The contractor wasn't allowed to turn the water off until 10.00 am and was instructed that the water needed to be back on by 15.00 at the latest, as the hotel had key workers as guests. So the pressure really was on!

The team had the water back on to the hotel by lunch time, 2 hours to be exact from start to finish. This shows the big advantage of having a bespoke booster set that will fit straight in especially when it uses large DN100 pipe work.

### **Customer Comment**

"We were once again delighted with the quality of the Bespoke AQUABOOST Booster set supplied including the changeover and the efficiency of the installation team that attended site".





# Our brands Powering water for all applications

We offer a comprehensive range of solutions, specifically designed to suit a variety of applications in both domestic and commercial markets.

Invest in a name you can trust - quality, reliability, innovation and customer service.

### AQUABOOST

### Standard and bespoke booster sets

### Why AQUABOOST?

AQUABOOST offers a comprehensive range of integrated pump and water storage solutions designed to optimise space. Supplied as a ready to install packaged product, they deliver improved performance from unvented water cylinders and combination boilers. Ideal for larger domestic, and commercial applications. The possibilities are endless.



### **MAINSBOOST**

### Mains water pressure boosting solutions

#### Why MAINSBOOST TM?

MAINSBOOST™ Water Performance Systems are specifically designed to stabilise water pressure and dramatically improve water flow rates to all direct on mains appliances. They deliver improved performance from unvented water cylinders, combination boilers and high performance shower heads, allowing multiple outlets to run simultaneously.



#### MONSOON

### Whole house, bathroom and shower pumps

### Why MONSOON?

MONSOON is the benchmark for high performing, quality pumps available on the market. This comprehensive range is specifically designed to meet the demands of a host of domestic and light commercial applications in vented systems, from a single tap and shower to a complete bathroom or the whole property.



### SHOWERMATE

#### Single outlet or bathroom shower pump

### Why SHOWERMATE?

SHOWERMATE offers a range of high quality plastic pumps providing an effective solution to boost the performance of a single tap, shower or complete bathroom. Suitable for water pressure and flow boosting applications within properties featuring a vented plumbing system.



### **WASTEFLO**

#### Waste water removal

#### Why WASTEFLO?

WASTEFLO offers a variety of products to simply and efficiently remove waste water from your home or commercial building, allowing you to create a bathroom, wet room, kitchen or utility room anywhere a connection using gravity to the main soil/waste pipe is not possible.



### STUART

### Circulators, pressurisation units, heating products, water conditioners and pumps

#### Why STUART?

STUART consists of a range of circulators, pressurisation units, heating related products, water conditioners and a diverse range of water pumps, along with associated accessories and controls. Every product has been designed to provide high levels of performance and reliability.



# POWERING WATER FOR EVERY APPLICATION



For technical support or product guidance contact:

+44 (0) 2380 252 325 enquiries@tapflopumps.co.uk

www.tapflopumps.co.uk

Highcove House, Victory Close, SO534BU

Follow us on social media

