



MODERN PLANT

**STUART
TURNER**
ENGINEERED TO EXCEL



**POWERING
WATER
FOR EVERY
APPLICATION**

AQUABOOST | MAINSBOOST | MONSOON | SHOWERMATE | WASTEFLO | STUART



The possibilities
are endless

Aquaboost Standard overview

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.



Aquaboost standard water boosting solutions

With an extensive variety of systems available within the Aquaboost range, we can offer a range of standard solutions suited to large domestic properties and commercial developments.

- Booster sets
- Integrated systems
- Framed systems
- CAT 5 systems

Aquaboost booster sets

The Aquaboost range of horizontal and vertical water boosting sets are designed to pump cold water at high flow rates up to 9.0 bar working pressure. They feature variable speed pumps, capable of operating in duty-assist or duty-standby modes, in vertical or horizontal pump configurations. Aquaboost Booster Sets are WRAS Approved and supplied as a complete fully packaged product for ease of installation.

- 1, 2 or 3 vertical or horizontal premium quality pumps
- Up to 9.0 bar working pressure options
- Flow rates up to 1200 litres/min
- Up to 10,000 litre cold water storage capacity
- Advanced pump control systems featuring a BMS interface
- Single or three phase power options
- Copper or stainless steel fabricated manifolds

Aquaboost iBoost, in-tank and framed systems

Despite the compact size of the Aquaboost iBoost, In-Tank and Framed water boosting systems, they offer impressive water storage facilities coupled with premium quality pumps, designed to provide a continuous delivery of high water pressure and high flow rates to multiple outlets. This range of integrated water boosting solutions are available with fixed or variable speed pump options and are designed to optimise space and provide a very quiet, simple to install package for both large domestic and commercial applications.

Aquaboost CAT 5

The Aquaboost range of CAT 5 units feature a type AB air gap and weir overflow to ensure they are suitable for use where a health hazard due to pathogenic or toxic substances may be present. The range offers an alternative when boosting mains water pressure and flow in situations where the risk of back flow contamination from Category 5 fluids exists and comply with all current water regulations.

Did you know

The Aquaboost range from Stuart Turner includes over 600 product variants of which only a small selection are presented here.

If you require a bespoke packaged pump system, designed and built to individual customer and project requirements
Telephone: [TechAssist +44 \(0\) 800 31 969 80](tel:+4408003196980)
e-mail info@stuart-turner.co.uk or visit the support section of the Stuart Turner website to find our specialist in your area.
www.stuart-turner.co.uk

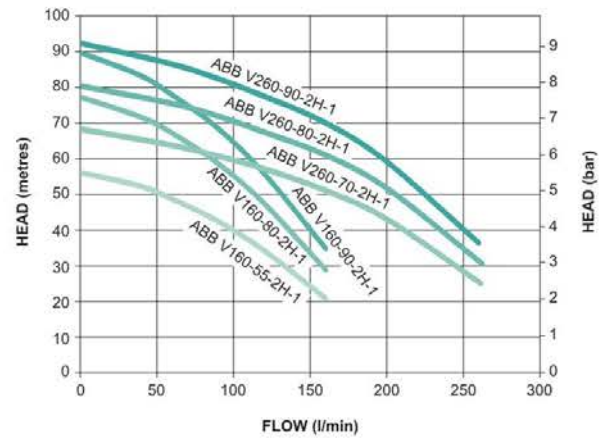
*Non standard options available on request



Aquaboost Horizontal booster set

The Aquaboost Horizontal Booster Set offers variable speed twin pump units capable of boosting cold water at up to 260 litres per minute or up to 9.0 bar pressure in light commercial applications. Aquaboost booster sets can be configured for duty-assist or duty-standby modes.

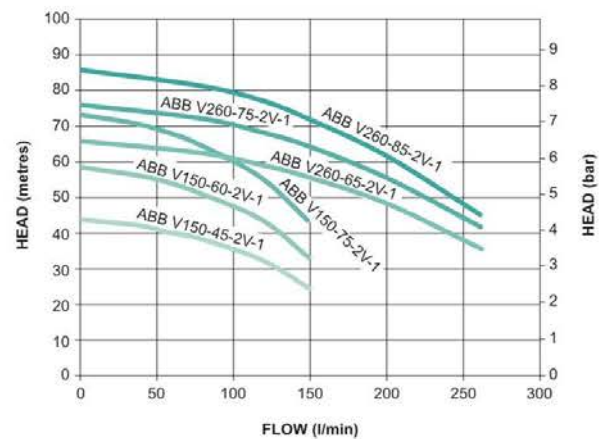
Part No	Model	Max Flow (Ltrs./Min)	Max Head (Metres)
46678	ABB V160-55-2H-1	160	55
46679	ABB V160-80-2H-1	160	80
46680	ABB V160-90-2H-1	160	90
46681	ABB V260-70-2H-1	260	70
46682	ABB V260-80-2H-1	260	80
46683	ABB V260-90-2H-1	260	90



Aquaboost Vertical booster set

The Aquaboost Vertical Booster Set offers variable speed twin pump units capable of boosting cold water at up to 260 litres per minute or up to 8.5 bar pressure in light commercial applications. Aquaboost booster sets can be configured for duty-assist or duty-standby modes.

Part No	Model	Max Flow (Ltrs./Min)	Max Head (Metres)
46684	ABB V150-45-2V-1	150	45
46685	ABB V150-60-2V-1	150	60
46686	ABB V150-75-2V-1	150	75
46687	ABB V260-65-2V-1	260	65
46688	ABB V260-75-2V-1	260	75
46689	ABB V260-85-2V-1	260	85



Aquaboost Standard range

1 YEAR
GUARANTEE

From **40 dB(A)**
Quiet Operation

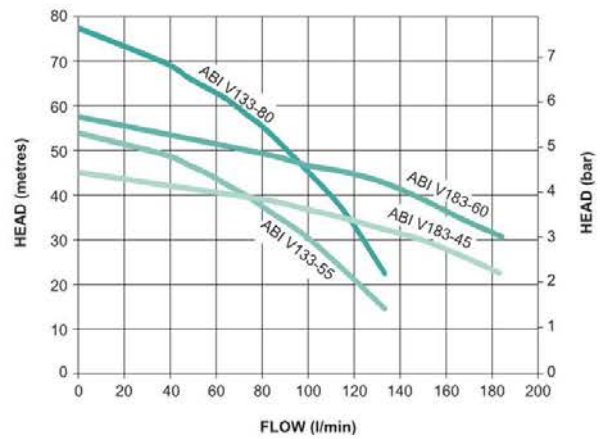
WRAS
APPROVED PRODUCT



Part No	Model	Max Flow (Ltrs/Min)	Max Head (Metres)
46694	ABI V600-133-55	133	55
46695	ABI V600-133-80	133	80
46698	ABI V1000-133-55	133	55
46699	ABI V1000-133-80	133	80
46700	ABI V1000-183-45	183	45
46707	ABI V1000-183-60	183	60

Aquaboost In-tank single

The Aquaboost range of automatic variable speed 'In-Tank' booster systems offers a compact, very quiet and simple to install solution for a range of domestic and commercial applications. Available with 600 - 1000 litre capacity, with flow rates up to 183 litres per minute and heads up to 80 metres.



1 YEAR
GUARANTEE

From **40 dB(A)**
Quiet Operation

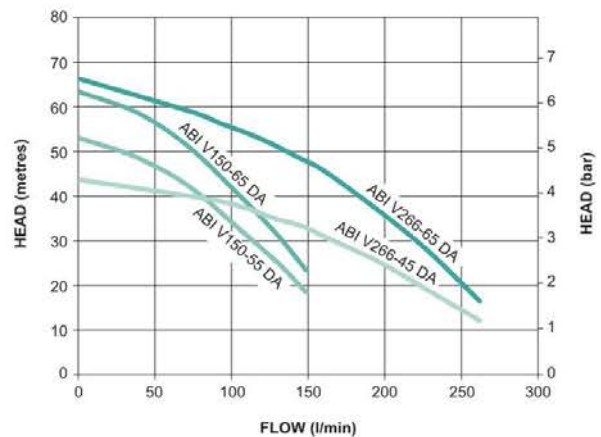
WRAS
APPROVED PRODUCT



Part No	Model	Max Flow (Ltrs/Min)	Max Head (Metres)
46696	ABI V600-150-55-DA	150	55
46697	ABI V600-150-65-DA	150	65
46701	ABI V1000-150-55-DA	150	55
46702	ABI V1000-150-65-DA	150	65
46703	ABI V1000-266-45-DA	266	45
46708	ABI V1000-266-65-DA	266	65
46704	ABI V1500-150-55-DA	150	55
46705	ABI V1500-150-65-DA	150	65
46706	ABI V1500-266-45-DA	266	45
46709	ABI V1500-266-65-DA	266	65

Aquaboost In-tank twin

The Aquaboost range of automatic variable speed 'In-Tank' booster systems offers a compact, very quiet and simple to install solution for a range of domestic and commercial applications. Available with 600 - 1500 litre capacity, with flow rates up to 266 litres per minute and heads up to 65 metres. Twin-Tank booster systems can be configured for duty-assist or duty-standby modes.



1 YEAR
GUARANTEE

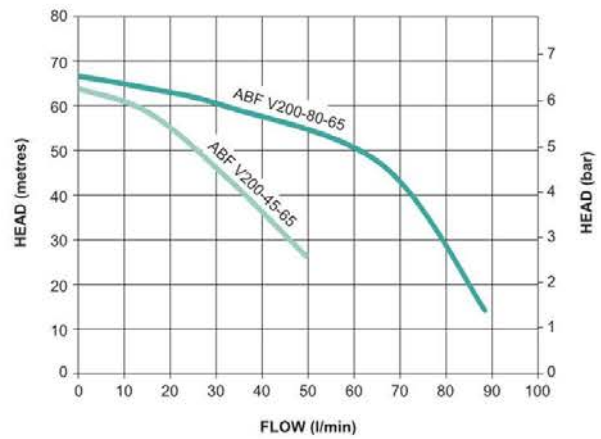
From **40** dB(A)
Quiet Operation



Aquaboost Framed booster system

Offers variable speed pump technology to maintain constant pressure and flow when multiple outlets are operational. The Aquaboost Framed Booster Set offers 200 litres of water and up to 80 litres per minute.

Part No	Model	Max Flow (Ltrs/Min)	Max Head (Metres)
46690	ABF V200-45-65	45	65
46691	ABF V200-80-65	80	65



1 YEAR
GUARANTEE

From **40** dB(A)
Quiet Operation



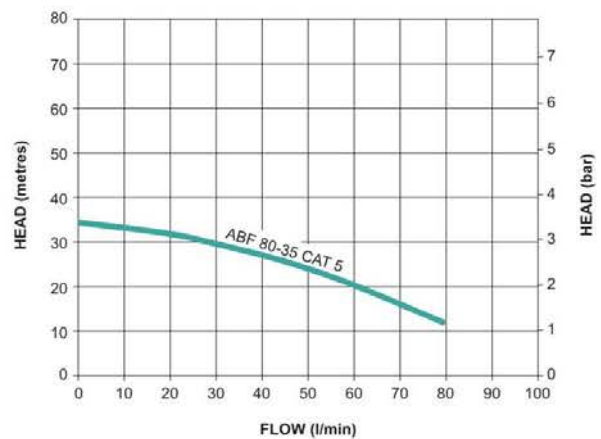
Aquaboost Framed booster CAT 5

Featuring a weir overflow making it suitable for use in commercial applications where the risk of back flow contamination from Category 5 fluids exists. Aquaboost Framed Booster CAT 5 offers variable speed pump technology to maintain constant pressure and flow when multiple outlets are operational. Available in tank sizes 50-100 litres and flow rates up to 80 litres per minute.

CAT 5 applications

Laboratories / Garden irrigation / Dry cleaning facilities / Stables and kennels / Bin store wash down equipment / Mortuary and embalming equipment / Butchery and slaughter-house equipment / Care home sluice sinks

Part No	Model	Max Flow (Ltrs/Min)	Max Head (Metres)
46692	ABF F50-80-35 CAT 5	80	35
46693	ABF F100-80-35 CAT 5	80	35



Aquaboost Standard range

Available nationwide from your local stockist



Aquaboost iBoost

Inadequate flow rates and water pressure are common shortcomings for many properties, often resulting in underperforming showers and water using appliances. iBoost offers a solution. These fully integrated systems combine a 200 litre cold water storage tank and a high performance, multistage pump to overcome restricted water flow and insufficient pressure.

The iBoost F200 and V200 are capable of generating pressures of up to 4.5 bar and flow rates of up to 100 litres per minute, typically operating at 60 litres per minute at 3.0 bar pressure. The F200 model offers simple to operate fixed speed control, whilst the distinguishing feature of the V200 is the advanced variable speed pump control system which enables the unit to supply a constant programmable water pressure as demand on the system fluctuate.

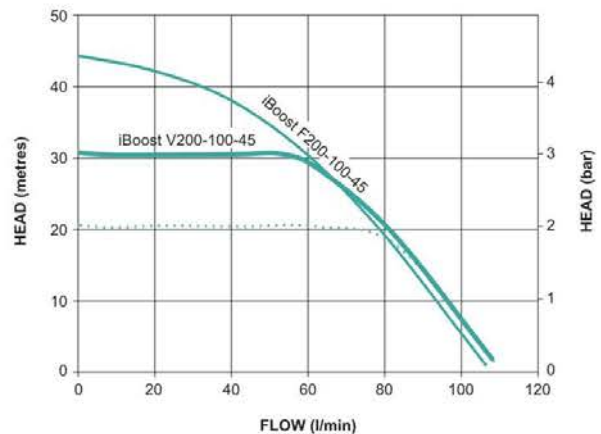
For even greater capacity, the iBoost +200 water storage tank, featuring a high flow fill valve effectively doubles the capacity of an iBoost F200, V200 or CAT 5 unit from 200 litres to 400 litres. Installation is simple; the kit supplied will allow you to connect the tank to the main iBoost unit.

Aquaboost iBoost CAT 5 water pressure and flow boosting systems feature a weir overflow making them suitable for use in commercial applications where the risk of back flow contamination from Category 5 fluids exists.

With a high gloss white front panel, an iBoost unit will not look out of place amongst other appliances in a kitchen, utility room or garage. This reliable and compact system will sit neatly within any standard 600 mm kitchen larder cupboard and does not require large ventilation clearance gaps.



Part No	Model	Max Flow (Ltrs/Min)	Max Head (Metres)
46668	iBoost F200-100-45	100	45
46677	iBoost F200-100-45 CAT 5	100	45
46711	iBoost V200-100-45	100	45
46713	iBoost V200-100-45 CAT 5	100	45
46712	iBoost +200	-	-
46714	iBoost +200 CAT 5	-	-



"iBoost range of products provide an innovative solution in an easy to install, compact and complete package that fits within a 600 mm larder cupboard."

Aquaboost Bespoke overview

Our product knowledge and manufacturing capability allows us to offer bespoke packaged pump systems designed and built to individual customer and project requirements. Stuart Turner booster sets utilise premium quality vertical or horizontal multistage pumps controlled by our own designed and engineered, energy efficient digital pump controllers.



Working with you

From bespoke plant rooms, kiosks and subterranean pods to bespoke integrated framed booster systems, we aim to help you at every stage of the project. Our dedicated team of professionals ensure that every project meets your requirements and is completed on time and on budget.

Design expertise

We have a team of specification experts available to work in partnership with you. 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.

Manufacturing excellence

We have invested in the latest production and manufacturing systems which ensure we work to the highest quality standards. This guarantees our system reliability whilst at the same time minimising costs, and ensuring we work efficiently and deliver on time and in full.

Commissioning

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

Maintenance

Ongoing maintenance is a cost effective solution to prolonging the life of your bespoke packaged pump system and maximising its operational efficiency. All our systems come with a one year guarantee and to ensure the system continues to operate effectively and reliably we also offer a comprehensive maintenance contract.

Pump options

Booster sets typically feature from one to six fixed or variable multistage pumps. Stuart Turner manufacture a comprehensive range of high quality brass and stainless steel pumps, however, we also work with other leading pump manufacturers to ensure the most appropriate pumps are selected for your project.



- 1 – 6 multistage pump options
- Fixed or variable speed
- Premium quality – reliability guaranteed

Advanced pump controls

It is essential to have an effective, responsive and reliable control system. Stuart Turner booster set systems utilise next generation pump controls designed and developed in-house. Our pump controls are constantly monitoring the pumps and the system performance using adaptive self-tuning algorithms to ensure smooth and reliable pump control and provide full fault finding diagnostics.



- Utilises next generation technology
- System responsive control
- Designed and developed in-house – reliability guaranteed

For further information or if you require a bespoke packaged pump system, designed and built to individual customer and project requirements Telephone: **TechAssist +44 (0) 800 31 969 80**, e-mail info@stuart-turner.co.uk or visit the support section of the Stuart Turner website to find our specialist in your area. www.stuart-turner.co.uk

Aquaboost Bespoke range



Plantroom Booster set systems

Booster sets are designed to fit within an existing or new plant room. Stuart Turner can design and manufacture booster sets to suit all kinds of unusual and confined spaces. Our capabilities and flexible approach often sets us apart from the competition.



Case Study St Anne's Quarter, Norwich

Sector

Residential

Client

Orbit Developments

Contractor

Flood & French Ltd

Project summary

St Anne's Quarter is a stylish new residential and retail development in the heart of Norwich and offers a selection of studios, apartments and penthouses.

The challenge

To meet the water supply demands required by this completely new development the design of two bespoke booster sets and water storage solutions were required to be delivered in a phased development project.

The solution

Based on a detailed requirements analysis, the development's needs were met by two independent booster sets, each comprising three or four multi-stage pumps and a Stuart Turner PCU600 control system. Each set is supplied from a 24m³ or 42m³ sectional cold water storage tank and Stuart CM water conditioner.

Client testimonial

"The two booster systems were designed to meet the consultants specifications which included the provision of high performance catalytic-magnetic water conditioners."



Aquaboost Bespoke range



Framed Booster set systems

Framed booster sets and structural tank stands designed to meet the most demanding of applications. Available with one piece or sectional tanks up to 6000 litres capacity and multi pump booster sets incorporated.



Case Study GlaxoSmithKline, Worthing

Sector
Industrial

Client
GlaxoSmithKline

Contractor
PM Group

Project summary
GlaxoSmithKline in Worthing is one of eighteen key GSK sites in the UK.

The challenge
As part of a major new upgrade of existing manufacturing facilities designed to improve process flows and regulatory compliance, the need for new cold water pressure and flow boosting systems to meet the demands of the pharmaceutical manufacturing process was identified.

The solution
Two identical systems were developed, one for each processing unit. Given the nature of the application and the need to minimise the floor space taken up, 1000 litre category 5 compatible water tanks were supplied mounted on steel frames, each above a twin pump booster set capable of delivering 2.0 litres per second at a pressure of 5.0 bar.

Client testimonial
"Locating the booster set underneath the cold water storage tank on a metal support frame provided a compact high performance solution where floor space was restricted."





Cabinet Booster set systems

Where it is not possible to install a booster set within the property, Stuart Turner can offer a packaged pump system housed within a freestanding powder coated cabinet or high quality GRP kiosk. Supplied with optional lights, heating and water treatment equipment all designed to withstand the harshest weather conditions.



Case Study Motorway Services, Toddington

Sector
Commercial

Client
Moto Hospitality

Contractor
Hertel Solutions Ltd

Project summary
Located between junctions 11 and 12 of the M1, Toddington services has extensive facilities and is one of the busiest motorway services in the UK.

The challenge
The original booster set had been installed in a basement plant room which was subject to frequent flooding. A new booster set was required which could be installed outside at ground level within its own weatherproof enclosure, avoiding use of the problematic plant room.

The solution
To match the capabilities of the original booster set, a new system configuration comprising three multi-stage vertically oriented pumps and a Stuart Turner PCU600 control system was specified. The booster set was supplied within a robust and secure GRP enclosure, complete and ready for installation.

Client testimonial
"Located in a secure weatherproof enclosure, the bespoke booster system meets the water supply needs of the entire northbound and southbound service areas, including the lodge."



Aquaboost Bespoke range



Subterranean Booster set systems

Completely enclosed and watertight, subterranean pods offer a unique alternative to a plant room and combine a booster set with a category 4 GRP cold water storage tank with up to 12,500 litres capacity. Specifically designed to suit the building requirements, they are installed underground to maximise available floor space and minimise noise transfer.



Case Study

Templeton Lodge, Hampton Hill

Sector

Residential

Client

Beechcroft Developments

Contractor

R.G Evans

Project summary

Located in Hampton Hill in the London borough of Richmond upon Thames, Templeton Lodge is an exclusive retirement development of 28 apartments.

The challenge

The existing mains water supply was inadequate and would not meet the needs of the property development. Additionally, given the shortage of available space within the building or its grounds, an alternative space saving solution was required.

The solution

The innovative solution supplied by Stuart Turner involved the design and supply of a fully packaged cold water storage tank and booster set contained within a subterranean enclosure. Featuring a 5000 litre water storage tank and a twin vertical multi-stage pump booster set capable of delivering 5 litres per second at 4.4 bar pressure, the subterranean pod was installed out of sight underneath the landscaped garden area.

Client testimonial

"Installing the cold water storage tank and booster set in a subterranean pod maximised the space available, in both the building and its grounds."





Cold water Storage tanks

An extensive range of standard or bespoke one piece, two piece and sectional panel water storage tanks. Available for either indoor or outdoor installations, pre-insulated and manufactured from durable Glass Reinforced Plastic (GRP). These superior tanks are WRAS approved and present a long lasting and cost effective solution for the storage of cold water for potable and non-potable applications.



Case Study Silversmith Court, London

Sector
Residential

Client
AQS Maintenance Ltd

Contractor
AQS Maintenance Ltd

Project summary
Many older residential blocks of flats rely on galvanised steel tanks which have become corroded and do not meet current water regulations.

The challenge
Replace an old galvanised steel tank which was corroded, unsealed and presenting a risk of water contamination in a location with restricted access.

The solution
Given the need for the replacement tank to fit through a standard doorway, a two piece tank was supplied, completely sealed with a close fitting access cover and manufactured from modern GRP materials.

Client testimonial
"Replacing an old corroded cold water storage tank with a new unit manufactured from modern materials can significantly improve water quality within a residential property."



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For more information about Stuart Turner or any other Stuart Turner product please contact Modern Plant. Our team of experts are on call to answer all your questions and provide you with advice to ensure your project is successful.

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