

Salamander Pumps 

MainsBooster

RANGE



A range of product solutions to boost your mains flow and pressure. Improving water performance to your shower, bathroom and whole house.

Smarter Water Performance





New MainsBooster Range Explained

Salamander Pumps are pleased to introduce a range of new inline pumps and accumulator tanks, providing a quiet, lightweight and easy to install solution to all domestic and light commercial mains water boosting needs.

For further product information, training and product selector software visit
www.salamanderpumps.co.uk

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Technology Inside

We continue to strive to improve our products and we include many of our newly developed technologies in our MainsBooster Range.



CROSSOVER™

An innovatively designed bypass tube that diverts water from the end of the pump that isn't pumping water. Typically this happens when the user switches off one tap when filling a bath or basin. The Crossover stops the overheating/expansion of the side of the pump that isn't seeing water.



BRUSHLESS MOTORS™

These motors allow for variable speed control, intelligently using the correct amount of electricity required to drive the pump. They have NO contacting parts which make them less likely to wear out and this combined with tighter tolerances also reduces friction and noise.



ADVANCED MOTOR DRIVE™

Used with brushless motors, this technology controls the spinning and speed of the motor using feedback from other parts of the pump. This allows for an instant reaction, seamless performance and energy efficiency.



MOTOR PUMP INTEGRATION™

The innovative product design building the motor into the pump impeller housing to allow for an extremely compact product. The design also means that the cold waterway helps cool the motor, thereby improving efficiency and product life.



DYNAMIC PUMP CONTROL™

The intelligent electronics that run the motor at a given speed. This makes the pump more energy efficient, responsive and longer lasting.



NOISE/VIBRATION REDUCTION™

Product design innovation has been used to reduce the noise and vibrations in a shower pump, including noise reducing feet and specially selected materials which dampen the vibration of the motor.



SOLID STATE SWITCHING™

An electronic switch which activates the pump. The switch has no moving parts, so this improves reliability, sensitivity, and extends product life.



DYNAMIC RESPONSE SYSTEM™

DRS is the pumps ability to react to a variation in pressure or flow. E.g. if the flow increases then the DRS will send a message to the motor to slow down, meaning that the pump maintains a consistent water output.



INTERROGAI™

Technology within the pump that monitors usage e.g. how many times it has been switched on/off or how long it has been running for. It aids in the diagnosis of issues.



ANTI STICTION PROTECTION™

A film of water across the seals acts a lubricant and prevents them from sticking, however if a pump is not operated for a length of time (a week or so or more) the film of water dries out and this can mean the pump fails to start. Our pumps have electronics which detect when a pump hasn't been used for 48 hours which turn the pump on momentarily to refresh the film of water and prevent the pump from sticking.

Inline Pumps

This range of pumps will sit directly on the incoming mains water and boost water pressure and flow to the specified amount, in keeping with the Water Fitting Regulations of 1999.

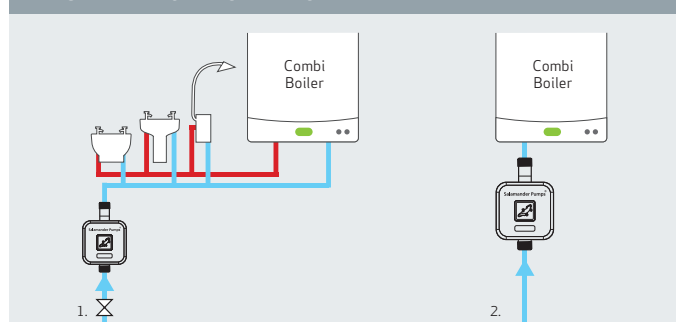
They are an ideal solution in properties that have poor mains flow where a quiet and compact solution is needed. From this range you will find a solution that will improve water performance to a single tap, shower, bathroom and whole house appliances.

These products should be installed directly onto the incoming mains using 3/4" BSP to 15mm or 22mm fittings either before the stop tap or before the boiler appliance.

Fittings kit available separately.

Product Name	Flow Rate L/Min
CombiBoost	10
HomeBoost	12

TYPICAL INLINE PUMP INSTALLATION



Accumulator Tanks

AccuBoost, our range of accumulator tanks, offers a solution to boosting mains water when higher flow rates are required and there is demand for water within a property over and above what the mains water is currently providing. It is ideal for use with combination boilers or unvented cylinders.

AccuBoost stores water at pressure and instantly releases this water into the system when there is increased demand within the property. Selected models will fit into standard kitchen cupboards.

ACCUMULATOR TANKS (UNPUMPED)

Available in 4 different tank sizes, this range will give an extra boost when pressure is good and water flow is above 12 litres per minute, but additional water

flow is needed in addition to the mains supply.

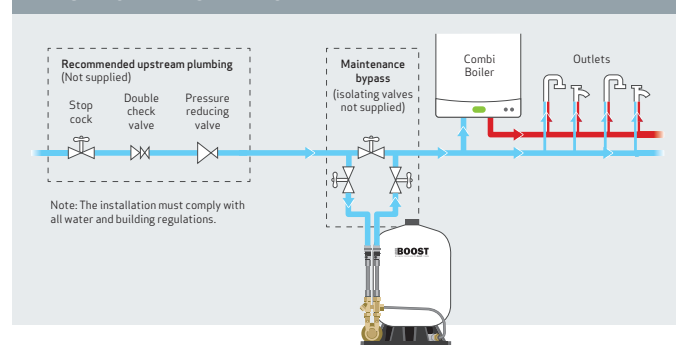
There is the option to link multiple tanks together depending on space available and the required demand.

ACCUMULATOR SYSTEMS (PUMPED)

A pumped option is recommended if flow is less than 12 litre/min and/or the static pressure is below 2.0 bar.

Available in 5 different tank sizes, this range will boost water performance when the incoming mains water flow and/or pressure is poor. The pumped option will always maintain a flow of 12 litres per minute in addition to the extra flow provided by the tank.

TYPICAL PUMPED INSTALLATION



CombiBoost

10l
per min

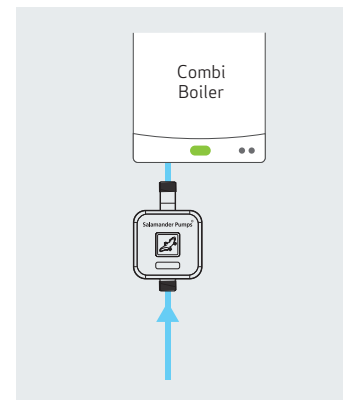


Available Jan 2020.

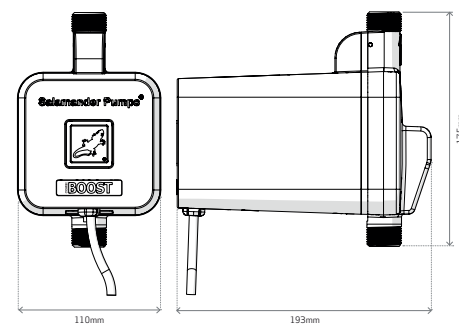
If you have a combi boiler that isn't performing as well as it should be due to poor water pressure and flow then a CombiBoost will help.

- Boost mains water flow up to 10 l/min
- Improved shower performance
- Quicker bath-fill
- Stronger flowing taps
- 1 year warranty

INSTALLATION



DIMENSIONS



HomeBoost

12l
per min

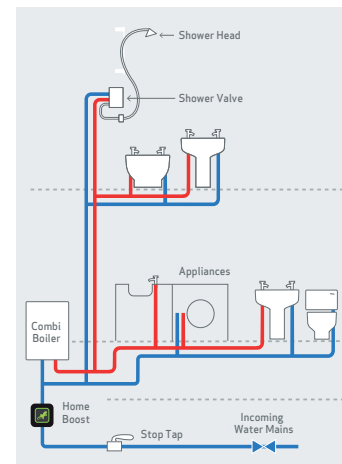


HomeBoost is our most intelligent inline mains booster pump.

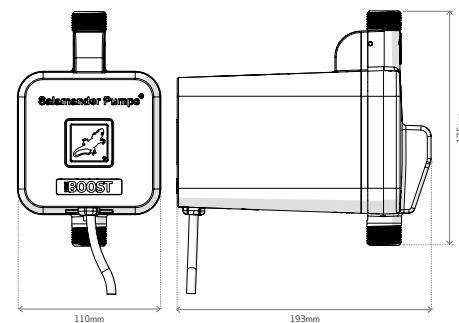
It recognises when water pressure and flow is low and quietly boosts water performance, either directly or indirectly via your combination boiler, up to 12 litres per minute.

- Boost mains water flow up to 12 l/min
- Improved shower performance
- Quicker bath-fill
- Stronger flowing taps
- Flow indicator lights
- 3 year warranty

INSTALLATION



DIMENSIONS



Inline Pumps Technical Specification

		CombiBoost	HomeBoost
General	Guarantee	1 Year	3 Years
Features	Pump Type	MainsBooster	MainsBooster
Performance	Litres per Min	10l	12l
	Bar Rating	1.0 bar	1.6 bar
Motor	Type	Brushless	Brushless
	Duty Rating	Continuously rated	Continuously rated
Electrical	Flow Indicator Light	No	Yes
	Power Supply	230v	230v
	Current (Full load)	1.8 Amps	1.8 Amps
	Power Consumption	Variable	Variable
	Fuse Rating	3 Amps	3 Amps
	Power Cable (pre-wired)	1.5 metres	1.5 metres
Physical	Enclosure Protection (IP Rating)	IPX4	IPX4
	Length	193mm	193mm
	Width	110mm	110mm
	Height	175mm	175mm
	Weight	3.1kg	3.1kg

AccuBoost



AccuBoost system (pumped) models only

AccuBoost will improve mains water performance in domestic and light commercial installations, ideal for use with combination boilers and unvented systems where there is poor water pressure and flow.

This range will offer a solution when the demand within the home for water is higher than the supply currently available. This can often happen at certain times of the day or when multiple individuals require water at the same time.

The pumped version should be installed where pressure and flow are low (below 12 l/min.) Upgrade an AccuBoost tank to an AccuBoost system by purchasing a Pump Upgrade Kit. Product code: ACC-UPG-KIT.

- Lightweight, composite material
- Supplied as one unit ready to install
- Link multiple tanks together for additional capacity
- One man lift (ACC-060, and ACC-120)
- 3 year warranty

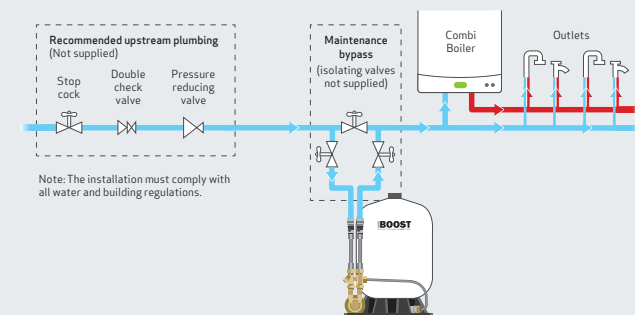
PRODUCTS

Code	Description
ACC-060-SYS	AccuBoost 060 System: 60 litre pumped accumulator set
ACC-120-SYS	AccuBoost 120 System: 120 litre pumped accumulator set
ACC-180-SYS	AccuBoost 180 System: 180 litre pumped accumulator set
ACC-300-SYS	AccuBoost 300 System: 300 litre pumped accumulator set
ACC-450-SYS	AccuBoost 450 System: 450 litre pumped accumulator set

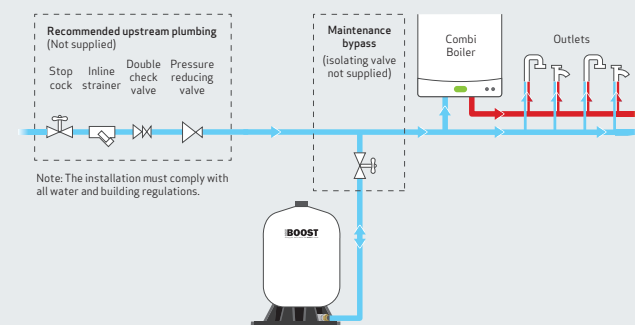
Code	Description
ACC-120-TNK	AccuBoost 120 Tank: 120 litre accumulator tank
ACC-180-TNK	AccuBoost 180 Tank: 180 litre accumulator tank
ACC-300-TNK	AccuBoost 300 Tank: 300 litre accumulator tank
ACC-450-TNK	AccuBoost 450 Tank: 450 litre accumulator tank

INSTALLATION

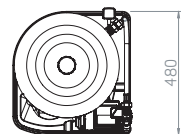
PUMPED



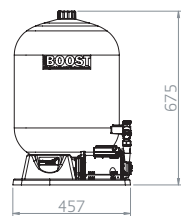
UNPUMPED



DIMENSIONS



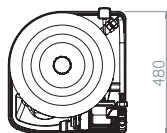
480



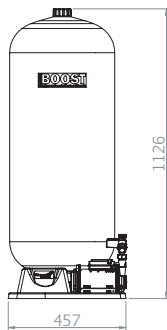
675

457

ACC-060-SYS



480



1126

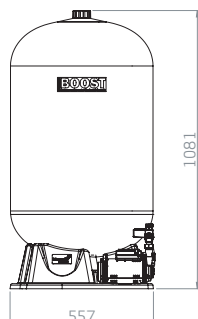
457

ACC-120-SYS
ACC-120-TNK



515

555



1081

557

ACC-180-SYS
ACC-180-TNK



515

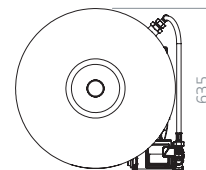
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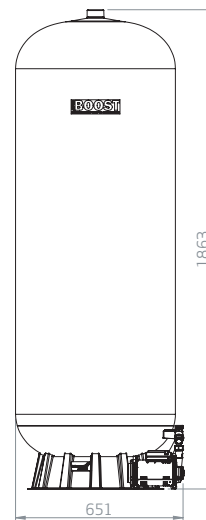
1633

557

ACC-300-SYS
ACC-300-TNK



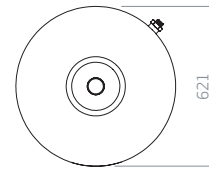
635



1863

651

ACC-450-SYS



621



1863

21

ACC-450-TNK

AccuBoost System Technical Specification

		ACC-060-SYS	ACC-120-SYS	ACC-180-SYS	ACC-300-SYS	ACC-450-SYS
Guarantee		3 Years				
Specification	Maximum Operating Pressure	8.6 Bar				
	Operating Temperature Range	4°C to 49 °C				
	Vessel Size (Litres)	55	112	178	301	453
	Maximum Water Vessel Water Storage Capacity (Litres)	27.5	56	89	150.5	226.5
Dimensions	Height (mm)	675	1126	1081	1633	1863
	Width (mm)	457	457	557	557	621
	Depth (mm)	480	480	557	557	635
Weights	Empty Weight (kg)	15.4	20	27.5	42.7	54.2
	Filled Weight (kg)	42.9	76	116.5	193.2	280.7
	Maximum Weight (kg)	70.4	132	205.5	343.7	507.2
Pump	Pump Type	Regenerative				
	Pump Model	ASSYACCUFORCE				
	Mechanical Seal	Nitrile/carbon/ceramic				
	Pump body/Impeller	Brass				
Motor	Enclosure Protection	IPX2				
	Type	Capacitor start and run induction motor				
	Duty Rating	Continuous				
	Power Supply/Phase/Frequency	230v/1/50Hz				
Electrical	Current (Full load)	1.9 A				
	Power Consumption	410w				
	Fuse Rating	3A				
	Power Cable	Pre wired with plug				
Connections	Pump	3/4" male BSP				
	Anti vibration Couplers	3/4" female BSP - 22m push-in				
Performance	Maximum Head	4 bar				
	Maximum Flow Rate	14l/min	16l/min	18l/min	30l/min	36l/min
	Time at Maximum Flow Rate	9 mins	9 mins	9 mins	9 mins	9 mins
	Minimum Continuous Flow Rate	12l/min	12l/min	12l/min	12l/min	12l/min
	Performance values may be higher if mains natural flow is above 12l/m					


AccuBoost Tank Technical Specification

		ACC-120-TNK	ACC-180-TNK	ACC-300-TNK	ACC-450-TNK
Guarantee		3 Years			
Specification	Maximum Operating Pressure	8.6 Bar			
	Operating Temperature Range	4°C to 49 °C			
	Vessel Size (Litres)	112	178	301	453
	Maximum Water Vessel Water Storage Capacity (Litres)	56	89	150.5	226.5
	Flow Rate (Litres per min, not including natural mains flow)	4	6	18	24
	Connection Type	3/4" BSP			
Dimensions	Height (mm)	1126	1081	1633	1863
	Width (mm)	457	557	557	621
	Depth (mm)	480	557	557	621
Weights	Empty Weight (kg)	12.8	20.3	35.5	47
	Filled Weight (kg)	68.8	109.3	186	273.5
	Maximum Weight (kg)	124.8	198.3	336.5	500



Mains Booster Pump Selector Grid

This grid shows the length of time (in minutes) that each product will provide the specified flow rate.

 = minutes of use at specified flow rate

Products	Flow Rates (L/min)					
	10	12	14	16	18	20
CombiBoost	Cont.	-	-	-	-	-
HomeBoost	Cont.	Cont.	-	-	-	-

Pumped AccuBoost System	060	Cont.	Cont.	9	-	-	-
	120	Cont.	Cont.	23	9	-	-
	180	Cont.	Cont.	37	19	9	-
	300	Cont.	Cont.	78	39	26	20
	450	Cont.	Cont.	108	54	36	27

Unpumped Accuboot Tank	120	46	16	-	-	-	-
	180	74	25	15	-	-	-
	300	156	52	32	23	18	15
	450	215	72	43	31	24	20

Flow Rates (L/min)							
22	24	26	28	30	32	34	36
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
16	13	12	10	9	-	-	-
22	18	16	14	12	11	10	9

-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
12	4	-	-	-	-	-	-
17	15	13	12	11	10	-	-

Size of pipework within the property may impact on the flow rate provided.

For unpumped solutions, minutes of performance displayed is based on a natural incoming mains water of 9 l/min.

A pumped option is recommended if flow is low and/or the static pressure is below 2.0 bar and/or your outlets are located 2 floors or more above the incoming mains.





Product Selection Support

To make specification and installation easy we have a selection of support tools available including an **online product selection tool**, a Salamander e-school, and a technical support hotline.

For support in finding the correct product solution for you, contact us via the following.

Web: www.salamanderpumps.co.uk

Tel: **0191 516 2002**

Email: sales@salamanderpumps.co.uk | tech@salamanderpumps.co.uk



**SALAMANDER
E-SCHOOL**



Pump selection



Installation advice



Mains boosting

Get in touch,
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