

AQUABOOST

Booster Set (Vertical Twin)

The Aquaboost Vertical Booster Set offers variable speed twin pump units capable of boosting cold water at up to 16 m³/h or up to 8.5 bar pressure in light commercial applications.

Aquaboost Booster Sets can be configured for duty-assist or duty-standby modes.



1 YEAR
GUARANTEE

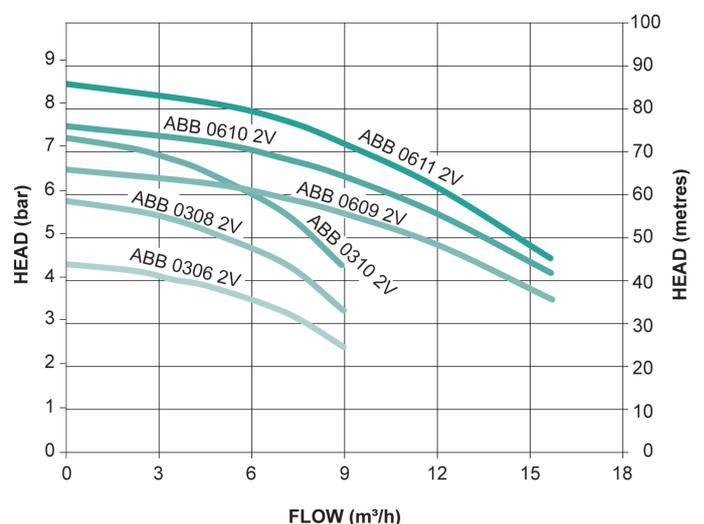
<70 dB(A)

Features

- 1 year guarantee
- Heads up to 8.5 bar
- Flow rates up to 16 m³/h
- Variable speed pump control
- Duty-assist and duty-standby modes
- WRAS approved materials
- Continuously rated operation (S1)
- Stainless steel manifold assembly
- Anti-vibration mounting feet
- 24 litre pressure vessel included

Application

- Cold water pressure and flow boosting in a range of domestic, commercial and industrial applications



Standard Product Features

Simple to configure intelligent pump controls

Each system is pre-configured to site specifications before leaving our manufacturing facility and requires only minor adjustments to be made during on-site commissioning.

- Variable speed pump control providing constant pressure during variations in water demand
- Start up safe mode reduces chances of pressure surges
- Automatic duty pump rotation
- 3 digit LED system pressure and fault code display, multi-function keys
- Automatic fault condition sensing and error code display
- Volt-free common fault status output



High performance, high efficiency pumps

Systems feature two high performance vertically mounted pump units as standard.

- Close coupled multi-stage design
- Stainless steel impellers and diffusers
- Heavy duty oversize motor shaft
- Totally enclosed, fan cooled, suitable for continuous operation
- Three phase, 2-pole induction motor for increased durability and longer life



Duty-Assist and Duty-Standby operation modes

Duty-Assist mode

- In Duty/Assist mode, if the system set pressure cannot be maintained with one pump running (Duty), the second pump (Assist) will start automatically to meet increased system demands.

Duty-Standby mode

- Only one pump operates at any given time (Duty), the second pump (Standby) is only enabled if a fault condition is detected with the Duty pump.

In both modes, each time an outlet is opened, the Duty pump is alternated, ensuring both pumps are used regularly and extending overall pump lifespan.



Bespoke Options

Pump Options

Additional options are available on request utilising up to six pumps per system and a wide range of pump options featuring different duty performance levels.

Advanced Control Systems

The next generation PCU600 Pump Control Unit utilises advanced data networking and adaptive self-tuning algorithms to provide smooth and effective pump control.

- Automatic duty pump rotation
- Start up safe mode eliminates pressure surges and hydraulic shock following a power outage
- Colour graphic display with back light, multi-function control keys and LED status indicators
- Password protected parameter control
- Engineering help and fault diagnosis display, fault history detailing previous events (time and date stamped)
- Multiple volt-free output contacts signalling system status and fault conditions
- Individual pump status display
- RS485 MODBUS interface
- Emergency pump control override



Ancillaries

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.



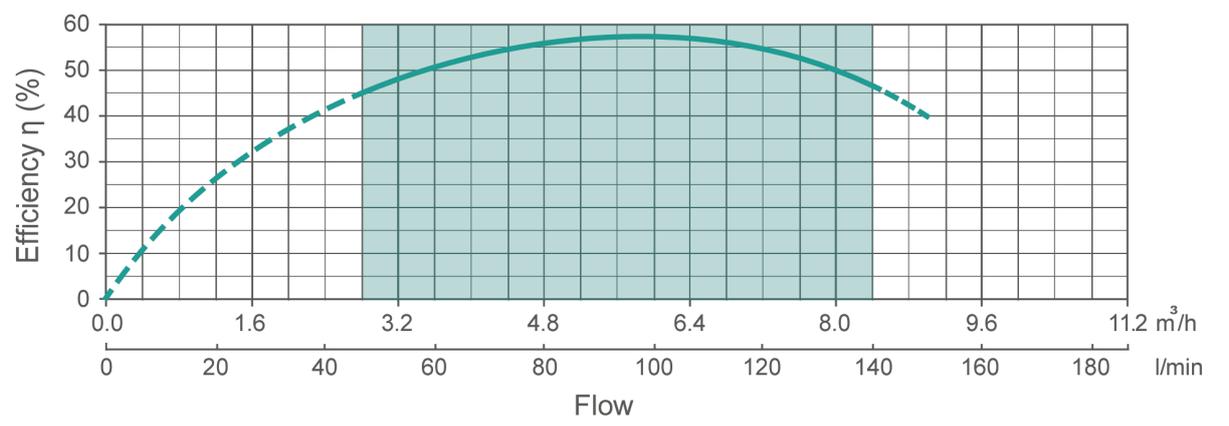
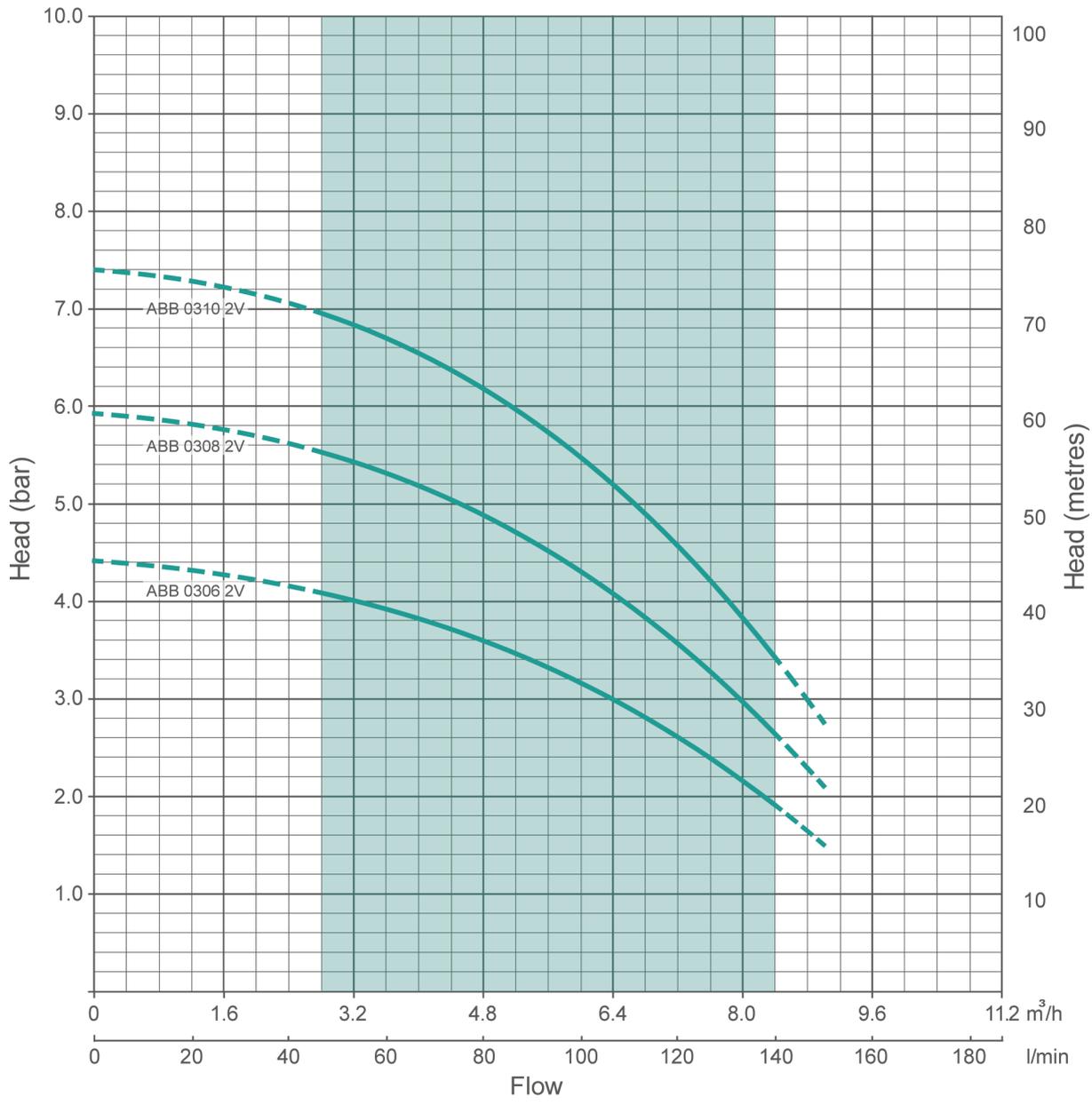
Water Conditioners

Developed specifically for domestic and commercial plumbing applications, Stuart Water Conditioners feature an unique catalytic alloy core which effectively prevents hard limescale deposits from forming.

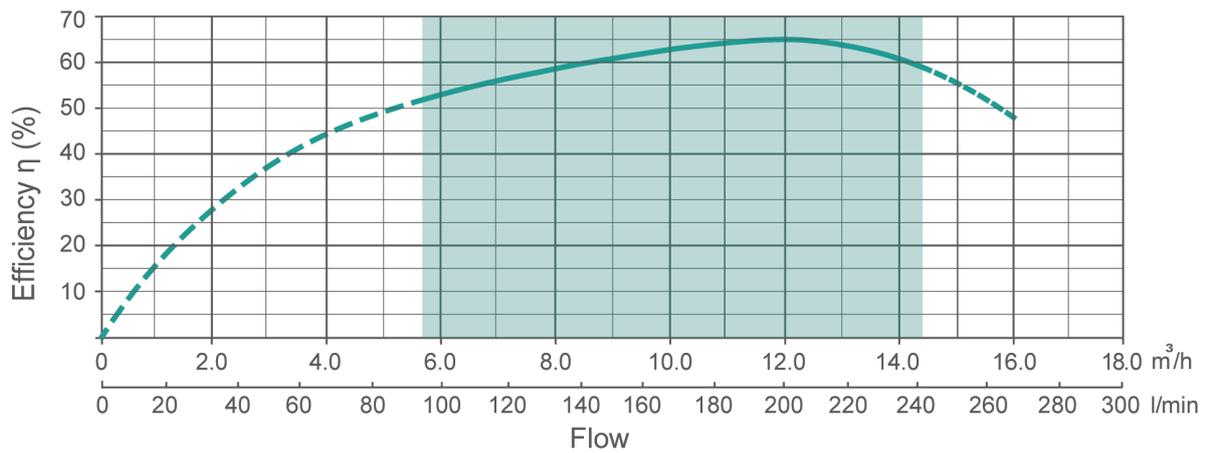
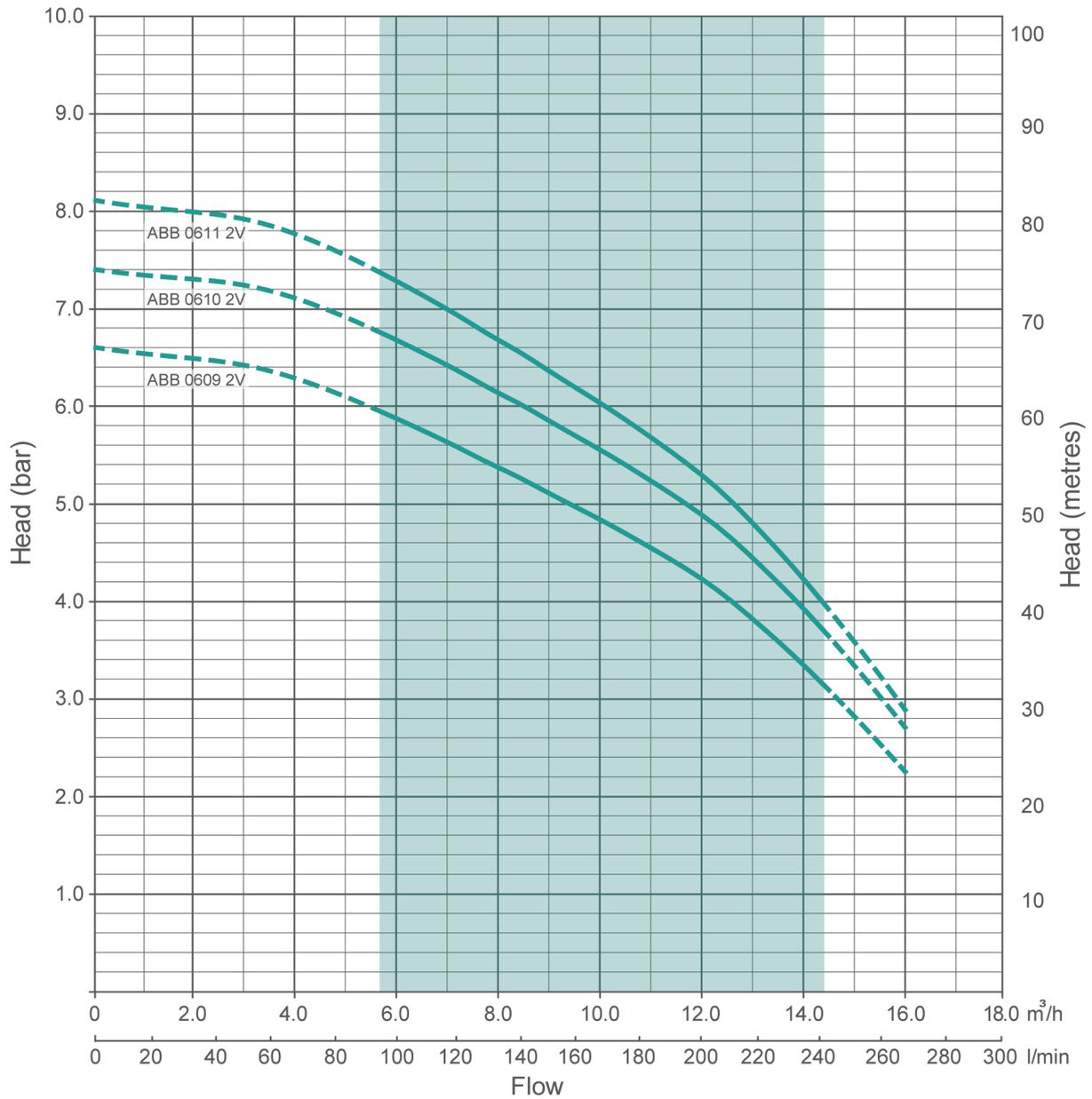
The catalytic process treats the water supply as it is used and causes the calcium carbonate to precipitate into microscopic crystals. These crystals then float in suspension in the water without adhering to any surfaces, ensuring that boilers, cylinders and kettles do not scale up and remain efficient whilst continuing to operate efficiently for many years.



Pump Characteristic (ABB 0306/08/10)



Pump Characteristic (ABB 0609/10/11)



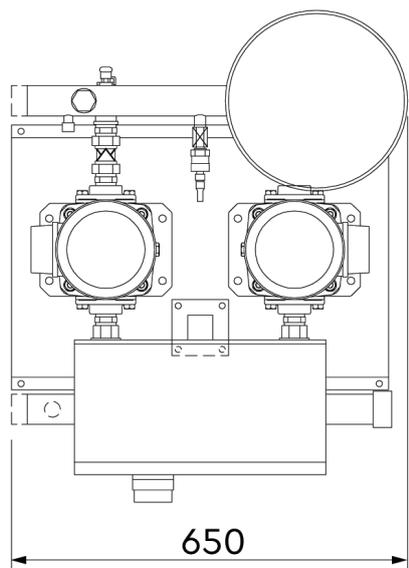
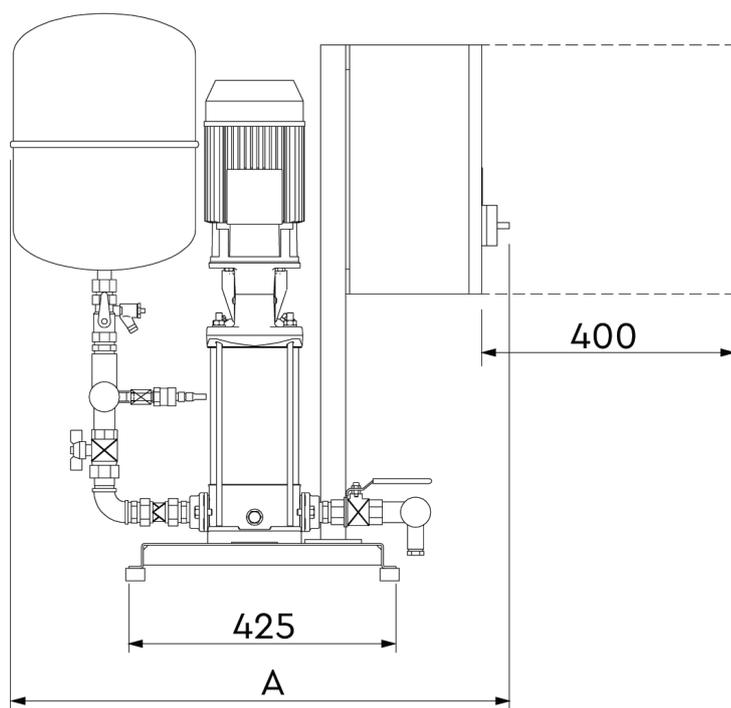
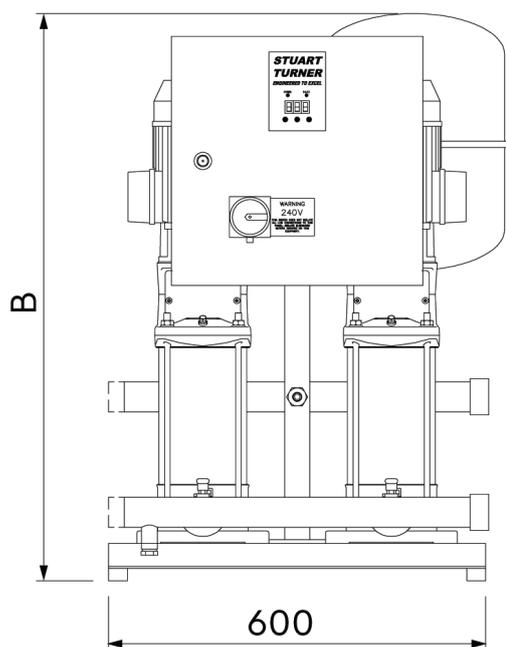
Technical Specification (ABB 0306/08/10)

Aquaboost Model		ABB 0306 2V-SPC/M 50 Hz 47118	ABB 0308 2V-SPC/M 50 Hz 47119	ABB 0310 2V-SPC/M 50 Hz 47120	
General	Guarantee	1 year			
	WRAS approval	Approved materials			
	Approvals	CE			
Features	Pump control system	Variable speed / pressure transducer			
	Pump control mode	Duty-assist / Duty-standby			
	Dry run protection	✓	✓	✓	
	Anti-vibration mounts	✓	✓	✓	
	Pressure vessel	24 litres			
	Pump check valve(s)	✓	✓	✓	
	Noise	<70 dB(A)			
Performance	Maximum head (closed valve)	4.4 bar	5.8 bar	7.4 bar	
	Maximum flow rate	9 m ³ /h			
	Minimum static inlet pressure	0.1 bar			
	Maximum static inlet pressure	1 bar			
	Maximum static outlet	1.3 bar			
	Maximum working pressure*	1600 kPa (16 bar)			
	Maximum ambient air temperature	40 °C			
	Min / Max water temperature	Min 4 °C / Max 23 °C			
Connections	Manifold inlet	G 1½ M			
	Manifold outlet	G 1½ M			
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 (S1)			
Electrical	Power supply / phase / frequency	16 A 230 V a.c./1/50 Hz			
	Per Pump	Current per pump (full load)	2.6 Amps	2.9Amps	4.2 Amps
		Power consumption (per pump)	0.55 kW	0.75 kW	1.1 kW
		Fuse rating (pump)	10 Amps		
Physical	Enclosure protection	IP55			
	Width	600 mm			
	Depth	650 mm			
	Height	1250 mm			
	Weight (including fittings)	110 Kg	120 Kg	125 Kg	

Technical Specification (ABB 0609/10/11)

Aquaboost Model		ABB 0609 2V-SPC/M 50 Hz 47121	ABB 0610 2V-SPC/M 50 Hz 47122	ABB 0611 2V-SPC/M 50 Hz 47123	
General	Guarantee	1 year			
	WRAS approval	Approved materials			
	Approvals	CE			
Features	Pump control system	Variable speed / pressure transducer			
	Pump control mode	Duty-assist / Duty-standby			
	Dry run protection	✓	✓	✓	
	Anti-vibration mounts	✓	✓	✓	
	Pressure vessel	24 litres			
	Pump check valve(s)	✓	✓	✓	
	Noise	<70 dB(A)			
Performance	Maximum head (closed valve)	6.6 bar	7.4 bar	8.1 bar	
	Maximum flow rate	16 m ³ /h			
	Minimum static inlet pressure	0.1 bar			
	Maximum static inlet pressure	1 bar			
	Maximum static outlet	1.3 bar			
	Maximum working pressure*	1600 kPa (16 bar)			
	Maximum ambient air temperature	40 °C			
	Min / Max water temperature	Min 4 °C / Max 23 °C			
Connections	Manifold inlet	G 2 M			
	Manifold outlet	G 2 M			
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 (S1)			
Electrical	Power supply / phase / frequency	16 A 230 V a.c./1/50 Hz			
	Per Pump	Current per pump (full load)	5.2 Amps	8.0 Amps	8.0 Amps
		Power consumption (per pump)	1.5 kW	2.2 kW	2.2 kW
		Fuse rating (pump)	10 Amps		
Physical	Enclosure protection	IP55			
	Width	600 mm			
	Depth	725 mm			
	Height	1300 mm			
	Weight (including fittings)	130 Kg	135 Kg	140 Kg	

Dimensions



Pump Description	Dim. 'A'	Dim. 'B'
ABB 0306 2V-SPC/M	800 mm	950 mm
ABB 0308 2V-SPC/M	800 mm	950 mm
ABB 0310 2V-SPC/M	800 mm	950 mm
ABB 0609 2V-SPC/M	825 mm	975 mm
ABB 0610 2V-SPC/M	825 mm	975 mm
ABB 0611 2V-SPC/M	825 mm	975 mm

Stuart Turner Limited reserves the right to amend specifications without notice.

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Pt. No. 20683 Issue 2619/1-01