

## AQUABOOST SP2V-3HM06S-MAB-M/24

The Aquaboost SP2V-3HM06S-MAB-M/24 booster set is fully WRAS approved and features two stainless steel multistage pumps mounted on a powder coated steel base plate. The pumps are controlled by our advanced MAB variable speed control panel and will deliver a nominal flow rate of 3 m<sup>3</sup>/h (per pump) and nominal head pressure of up to 3.1 bar. This product can be configured for duty-assist or duty-standby operating modes.





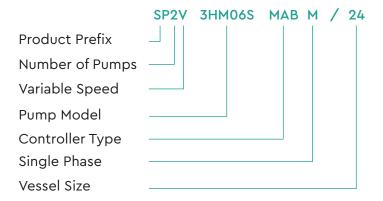
#### Features

- Flow rates up to  $4.4 \text{ m}^3/\text{h}$  (per pump)
- Head pressure up to 4.4 Bar
- Variable speed pump control
- Duty-assist and duty-standby modes
- Fully WRAS Approved Product
- 304 Stainless Steel pumps
- 304/316 Stainless steel manifold assembly
- 24 litre pressure vessel with flow through isolation & drain valve
- Air cooled inverters
- BMS Volt free contacts
- External Enable On/Off
- Hand/Off/Auto Switches
- External Low Water
- AV mounts & Flexible connectors optional

#### **Applications**

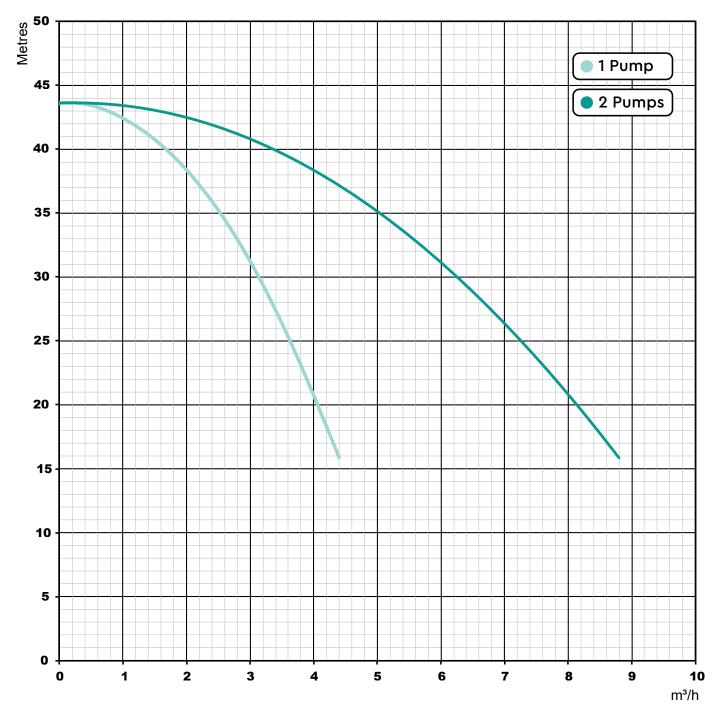
 Cold water pressure and flow boosting in a range of domestic, commercial and industrial applications

#### **Product Code Structure**





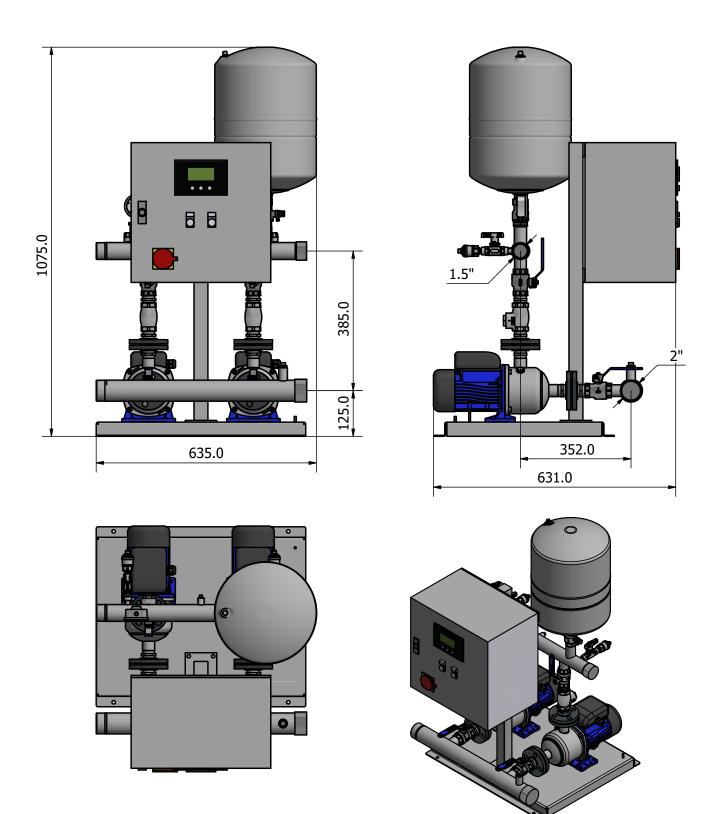
### Pump Characteristic SP2V-3HM06S-MAB-M/24



# STUART

General     Warranty     2 years       WRAS approval     1910316       Confmity certification     CC / UKCA       Features     Glycerine filed pressure gauge     ✓       Pump check valve(s)     ✓     ✓       BW Solt-free contacts     ✓     ✓       Maximu head (closed valve)     ✓	Aquaboost Model		SP2V-3HM06S-MAB-M/24
Conformity certification     CE / UKCA       Features     Dry run protection     ✓       Beatures     Dry run protection     ✓       Pump check valve(s)     ✓     ✓       BMS volt-free contacts     ✓     ✓       Performance     Mominal head     31 bar       Maximum head (closed valve)     4.4 bar       Nominal flow rate     3 m²/h (per pump)       Maximum flow rate     4.4 m²/h (per pump)       Maximum static inlet pressure     10 metres       Maximum static inlet pressure     10 metres       Maximum working pressure (kPa / bar)     1000 kPa / 10 bar       Connection     Inlet     2*85P       Outlet     11/2*85P       Manifold     Manifold construction     Stainless steel       Pump isolation valves     Full bore, lever       Pump type     Multistage centrifyed (horizontal)       Pump body     Stainless steel       Impeller     Stainless steel       Impeller     Induction (current overload sensor)       Duty rating     Continuous (S1)       Electrical     Power supply / phase / frequency	General	Warranty	2 years
Features     Dry run protection     Image: control of the system		WRAS approval	1910316
Big of the filled pressure gauge     ✓       Pump check valve(s)     ✓       BMS volt-free contacts     ✓       BMS volt-free contacts     ✓       Performance     Mominal head     3.1 bar       Maximum head (closed valve)     4.4 bar       Maximum flow rate     3.1 bar       Maximum flow rate     3.1 bar       Maximum flow rate     4.4 mark (ker pump)       Maximum static inlet pressure     1 metre       Maximum static inlet pressure     10 metres       Maximum ambient air temperature     Max 40 °C       Water temperature range     Min 4 °C / Max 23 °C       Maximum ambient air temperature     Maximum 4.4 mark 4.0 °C       Maximum static inlet pressure     1000 kPa / 10 bar       Connections     Inlet     2" BSP       Marifold     Marifold construction     Stainless steel       Pump body     Stainless steel     Pump type       Pump body     Stainless steel     Impeller       Marifold construction     Etectrical     Power supply / phase / frequency       Pump type     Induction (current overload sensor)     DUry traing		Conformity certification	CE / UKCA
Pump check valve(s)     Image: content to garget       Proprior check valve(s)     Image: content to the co	Features	Dry run protection	$\checkmark$
BK volt-free contactsImage: contactsPerformance Performance Performance Maximum head (closed valve)3.1 barMaximum head (closed valve)4.4 barMaximum head (closed valve)4.4 barMaximum flow rate3.m³/h (per pump)Maximum flow rate3.m³/h (per pump)Maximum static inlet pressure1.metreMaximum motiet pressure1.metreMaximum moting pressure (kPa / bar)100 metresMaximum working pressure (kPa / bar)1000 kPa / 10 barConnectionInlet2.metroMarifold construction1.01 CP / BSPManifoldPump isolation valvesPumpMunder of pumps2PumpMunder of pumps2Pump typeMultistage centrifugal (horizontal)Pump typeIndecting ConstructionMotor type uppInduction (current overload sensor)Motor typeInducting ConstructionPump typeInducting ConstructionPump typeInducting ConstructionMaxier type inductionStainless steelPump typeInducting ConstructionPump typeInducting ConstructionMotor type inductionInducting ConstructionPump typeInducting ConstructionPump typeInd		Glycerine filled pressure gauge	$\checkmark$
Performance     Nominal head     3.1 bar       Maximum head (closed valve)     4.4 bar       Maximum flow rate     3 m²/h (per pump)       Maximum flow rate     4.4 m²/h (per pump)       Maximum flow rate     4.4 m²/h (per pump)       Maximum static inlet pressure     1 metre       Maximum ambient air temperature     Max 4.0 °C       Maximum morking pressure (kPa / bar)     1000 kPa / 10 bar       Connection     Inlet     2 " BSP       Outlet     11/2 * BSP       Outlet     11/2 * BSP       Outlet     11/2 * BSP       Pump     Maifold construction     Stainless steel       Pump tope     Multistage centrifugal (horizontal)       Pump tope     Multistage centrifugal (horizontal)       Pump top     Multistage centrifugal (horizonta		Pump check valve(s)	$\checkmark$
Maximum head (closed valve)     4.4 bar       Maximum head (closed valve)     4.4 bar       Nominal flow rate     3.m <sup>5</sup> /h (per pump)       Maximum flow rate     4.4 m <sup>3</sup> /h (per pump)       Maximum static inlet pressure     1.metre       Maximum mobient air temperature     100 metres       Maximum working pressure (kPa / bar)     1000 kPa / 10 bar       Connections     Inlet     2." BSP       Outet     111/2" BSP       Outet     3.mifold construction     Stainless steel       Pump isolation valves     Full bore, lever       Pump topumps     2     Pump topumps       Pump body     Multistage centrifugal (horizontal)       Pump topumps     2     Intel stainless steel       Impelier     Stainless steel		BMS volt-free contacts	$\checkmark$
Nominal flow rate     3 m³/h (per pump)       Maximum flow rate     4.4 m³/h (per pump)       Minium static inlet pressure     1 metre       Maximum aubient air temperature     0 mina 4 °C / Max 23 °C       Maximum working pressure (kPa / bar)     1000 kPa / 10 bar       Connection     Inlet     2 °C       Marifold construction     0 clutel     11/2 ° BSP       Manifold     Manifold construction     Stainless steel       Pump solation valves     2 °C       Pump type     Multistage centrifugal (horizontal)       Pump type     Stainless steel       Impeller     Stainless steel       Pump type     Multistage centrifugal (horizontal)       Pump type     Multistage centrifugal (horizontal)       Pump type     Stainless steel       Impeller     Stainless steel       Torot type     Induction (current overload sensor)       Dity rating     Continuous (S1)       Electricat     Power supply / phase / frequency     Q30V / 1 / 50Hz       Power consumption - P1     O.5 kW (per pump)     S1       Outrent - full load     3.2 Amps (per pump)     S2	Performance	Nominal head	3.1 bar
Maximum flow rate     4.4 m³/h (per pump)       Minimum static inlet pressure     1 metre       Maximum ambient air temperature     0 metres       Maximum ambient air temperature     Max 40 °C       Vater temperature range     Min 4 °C / Max 23 °C       Maximum working pressure (kPa / bar)     1000 kPa / 10 bar       Connections     Inlet     2 ° BSP       Outlet     1 1/2" BSP       Manifold     Manifold construction     Stainless steel       Pump isolation valves     Full bore, lever       Pump poly     Number of pumps     2       Pump type     Multistage centrifugal (horizontal)       Pump body     Stainless steel       Impeller     Stainless steel       Motor type     Induction (current overload sensor)       Duty rating     Continuous (S1)       Electrical     Power supply / phase / frequency     230 V / 1 / 50Hz       Power consumption – P1     0.5 kW (per pump)       Current – full load     3.2 Amps (per pump)       Physical     Enclosure protection     IP44		Maximum head (closed valve)	4.4 bar
Minimum static inlet pressure     1 metre       Maximum static inlet pressure     10 metres       Maximum ambient air temperature     Max 40 °C       Water temperature range     Min 4 °C / Max 23 °C       Maximum working pressure (kPa / bar)     1000 kPa / 10 bar       Connections     Inlet     2 ° BSP       Outlet     11/2" BSP       Manifold     Manifold construction     Stainless steel       Pump isolation valves     Full bore, lever       Pump tope fourps     2       Pump tope fourps     2       Machical seal     EPDM / Carbon / Ceramic       Mechanical seal     EPDM / Carbon / Ceramic       Motor type     Induction (current overload sensor)       Duty rating     Continuous (S1)       Electrical     Power consumption – P1     0.5 kW (per pump)       Current – full load     3.2 Amps (per pump)       Physical     Enclosure protection     IP44		Nominal flow rate	3 m³/h (per pump)
Maximum static inlet pressure10 metresMaximum ambient air temperatureMax 40 °CWater temperature rangeMin 4 °C / Max 23 °CMaximum working pressure (kPa / bar)1000 kPa / 10 barConnectionsInlet2 ° BSPOutlet11/2 ° BSPManifold constructionStainless steelPump solation valvesFull bore, leverPump typeMuber of pumps2Pump typeMultistage centrifugal (horizontal)Pump typeIndection (current overload sensor)Puter trained sealEPDM / Carbon / CeramicMotor typeInduction (current overload sensor)ElectricalPower supply / phase / frequency230 V / 1 / S0HzPhysicalConsumption - P10.5 kW (per pump)PhysicalEnclosure protection1944Width650 mm1944		Maximum flow rate	4.4 m³/h (per pump)
Maximum ambient air temperatureMax 40 °CWater temperature rangeMin 4 °C / Max 23 °CMaximum working pressure (kPa / bar)1000 kPa / 10 barConnectionsInlet2 ° BSPOutlet11/2" BSPManifold constructionStainless steelPumpNumber of pumps2Pump typeMultistage centrifugal (horizontal)Pump typeMechanical sealImpellerStainless steelImpellerInduction (current overload sensor)Duty ratingContinuous (S1)ElectricalPower supply / phase / frequencyPhysicalConsumption - P1Current - full load3.2 Amps (per pump)PhysicalEnclosure protectionMax 40 °CIP44YithStomm		Minimum static inlet pressure	1 metre
Water temperature rangeMin 4 °C / Max 23 °CMaximum working pressure (kPa / bar)1000 kPa / 10 barConnectionsInlet2 " BSPOutlet11/2" BSPManifoldManifold constructionStainless steelPumpPump isolation valvesFull bore, leverPumpNumber of pumps2Pump typeMultistage centrifugal (horizontal)Pump typeMultistage centrifugal (horizontal)Pump typeIndection (current overload sensor)Pump typeInduction (current overload sensor)Duty ratingContinuous (S1)ElectricalPower supply / phase / frequency32 Amps (per pump)PhysicalEnclosure protection104PhysicalEnclosure protection1944Width650 mm1944		Maximum static inlet pressure	10 metres
Maximum working pressure (kPa / bar)1000 kPa / 10 barConnectionsInlet2" BSPOutlet11/2" BSPManifoldManifold constructionStainless steelPumpPump isolation valvesFull bore, leverPumpNumber of pumps2Pump typeMultistage centrifugal (horizontal)Pump bodyStainless steelIngellerIngellerMotor typeInduction (current overload sensor)Duty ratingContinuous (S1)ElectricalPower supply / phase / frequency3.2 Amps (per pump)PhysicalInclosure protection0.5 kW (per pump)PhysicalEnclosure protectionIP44Width650 mm104		Maximum ambient air temperature	Max 40 ℃
ConnectionsInlet2" BSPOutlet11/2" BSPManifoldManifold constructionPump isolation valvesFull bore, leverPumpNumber of pumpsPump typeMultistage centrifugal (horizontal)Pump bodyStainless steelImpellerStainless steelMotor typeInduction (current overload sensor)Duty ratingContinuous (S1)ElectricalPower supply / phase / frequencyPhysicalEnclosure protectionPhysicalEnclosure protectionMith650 mm		Water temperature range	Min 4 °C / Max 23 °C
Interference     Interference       Outlet     11/2" BSP       Manifold     Manifold construction     Stainless steel       Pump isolation valves     Full bore, lever       Pump     Number of pumps     2       Pump type     Multistage centrifugal (horizontal)       Pump body     Stainless steel       Impeller     Stainless steel       Motor type     Induction (current overload sensor)       Duty rating     Continuous (S1)       Electrical     Power consumption – P1     0.5 kW (per pump)       Current – full load     3.2 Amps (per pump)       Physical     Enclosure protection     IP44		Maximum working pressure (kPa / bar)	1000 kPa / 10 bar
Manifold     Manifold construction     Stainless steel       Pump isolation valves     Full bore, lever       Pump     Number of pumps     2       Pump type     Multistage centrifugal (horizontal)       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     230 V / 1 / 50Hz       Power consumption – P1     0.5 kW (per pump)       Current – full load     3.2 Amps (per pump)       Physical     Enclosure protection     IP44	Connections	Inlet	2" BSP
PumpPump isolation valvesFull bore, leverPumpNumber of pumps2Pump typeMultistage centrifugal (horizontal)Pump bodyStainless steelImpellerStainless steelMechanical sealEPDM / Carbon / CeramicMotor typeInduction (current overload sensor)Duty ratingContinuous (S1)ElectricalPower consumption – P10.5 kW (per pump)PhysicalEnclosure protection3.2 Amps (per pump)PhysicalKith650 mm		Outlet	11/2" BSP
Pump     Number of pumps     2       Pump type     Multistage centrifugal (horizontal)       Pump body     Stainless steel       Pump ler     Stainless steel       Mechanical seal     EPDM / Carbon / Ceramic       Motor type     Induction (current overload sensor)       Duty rating     Continuous (S1)       Electrical     Power supply / phase / frequency     230 V / 1 / 50Hz       Power consumption - P1     0.5 kW (per pump)       Current - full load     3.2 Amps (per pump)       Physical     Enclosure protection     IP44	Manifold	Manifold construction	Stainless steel
Pump typeMultistage centrifugal (horizontal)Pump bodyStainless steelImpellerStainless steelMechanical sealEPDM / Carbon / CeramicMotor typeInduction (current overload sensor)Duty ratingContinuous (S1)ElectricalPower supply / phase / frequency230 V / 1 / 50HzPower consumption - P10.5 kW (per pump)Current - full load3.2 Amps (per pump)PhysicalEnclosure protectionIP44Width650 mm		Pump isolation valves	Full bore, lever
Pump bodyStainless steelImpellerStainless steelMechanical sealEPDM / Carbon / CeramicMotor typeInduction (current overload sensor)Duty ratingContinuous (S1)ElectricalPower supply / phase / frequency230 V / 1 / 50HzPower consumption - P10.5 kW (per pump)Current - full load3.2 Amps (per pump)PhysicalEnclosure protectionIP44Width650 mm	Pump	Number of pumps	2
Impeller     Stainless steel       Mechanical seal     EPDM / Carbon / Ceramic       Motor type     Induction (current overload sensor)       Duty rating     Continuous (S1)       Electrical     Power supply / phase / frequency     230 V / 1 / 50Hz       Power consumption - P1     0.5 kW (per pump)       Current - full load     3.2 Amps (per pump)       Physical     Enclosure protection       Width     650 mm		Pump type	Multistage centrifugal (horizontal)
Mechanical seal EPDM / Carbon / Ceramic   Motor type Induction (current overload sensor)   Duty rating Continuous (S1)   Electrical Power supply / phase / frequency 230 V / 1 / 50 Hz   Power consumption – P1 0.5 kW (per pump)   Current – full load 3.2 Amps (per pump)   Physical Enclosure protection IP44   Width 650 mm		Pump body	Stainless steel
Motor type     Induction (current overload sensor)       Duty rating     Continuous (S1)       Electrical     Power supply / phase / frequency     230 V / 1 / 50Hz       Power consumption – P1     0.5 kW (per pump)       Current – full load     3.2 Amps (per pump)       Physical     Enclosure protection       Width     650 mm		Impeller	Stainless steel
Duty rating Continuous (S1)   Electrical Power supply / phase / frequency 230 V / 1 / 50 Hz   Power consumption – P1 0.5 kW (per pump)   Current – full load 3.2 Amps (per pump)   Physical Enclosure protection IP44   Width 650 mm		Mechanical seal	EPDM / Carbon / Ceramic
Electrical   Power supply / phase / frequency   230 V / 1 / 50Hz     Power consumption – P1   0.5 kW (per pump)     Current – full load   3.2 Amps (per pump)     Physical   Enclosure protection     Width   650 mm		Motor type	Induction (current overload sensor)
Power consumption – P1 0.5 kW (per pump)   Current – full load 3.2 Amps (per pump)   Physical Enclosure protection IP44   Width 650 mm		Duty rating	Continuous (S1)
Current - full load 3.2 Amps (per pump)   Physical Enclosure protection IP44   Width 650 mm	Electrical	Power supply / phase / frequency	230 V / 1 / 50Hz
Physical     Enclosure protection     IP44       Width     650 mm		Power consumption – P1	0.5 kW (per pump)
Width 650 mm		Current – full load	3.2 Amps (per pump)
	Physical	Enclosure protection	IP44
		Width	650 mm
Depth 650 mm		Depth	650 mm
Height 1200 mm		Height	1200 mm
Weight 64 Kg		Weight	64 Kg





\*Please add 32mm to the total height from the base of the pump when AV mounts are used.

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