



Technical Submission

Project	Sunlight House, Manchester	Project Ref.	1394
Tech Sub Ref.	TS-M- 0006	Issued By	Lee Holland
Date	25/07/2024	Authorised	David Wilson

Technical Submission	Booster Set	
SPECIFICATION COMPLIANCE	✓	In compliance with 1298-CSD-ZZ-ZZ-SH-M-53002
DEROGATIONS	✓	AJH proposed vs Dutypoint
CALCULATIONS PROVIDED		N/A

This technical submission has been issued by G&H Building Services Ltd for the approval of the Booster Set

AJH Booster set as per below shcedule

Information Required From	
Latest Date Required	08/08/2024

Acceptance/Refusal			
STATUS A	STATUS B	STATUS C	

Response From	
Response Date	

COLD WATER BOOSTER SET SCHEDULE

Project:	Sunlight House - Manchester				
Project No:	CSD1298				
Revision:	Rev 0				
Schedule No:	1298-CSD-ZZ-ZZ-SH-M-53002				
Date:	17.07.2024				



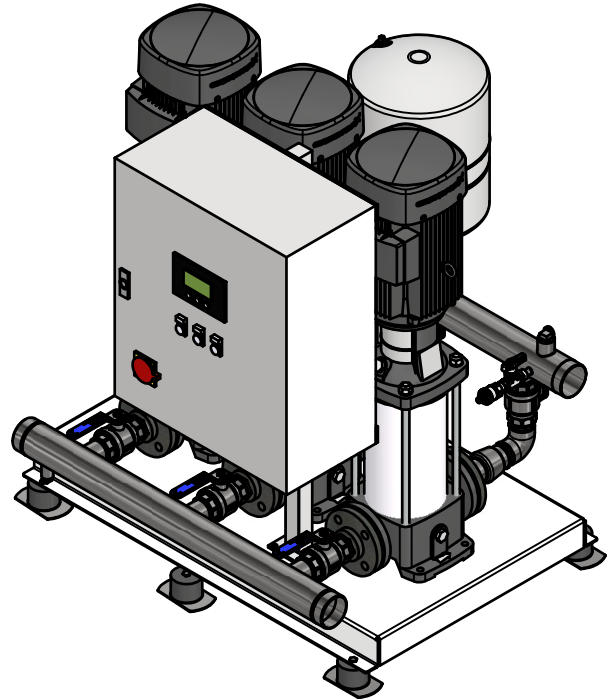
REFERENCE	BS-01				
DESIGN FLOW RATE	6.0 l/s				
DESIGN PRESSURE	7.0 bar				
LOCATION	Basement Tank Room (Potable Cold Water Supply)				
No. OF PUMPS	3				
PUMP CONFIGURATION	Duty, Assist, Standby				
INVERTER	Yes (soft start)				
PRESSURE VESSEL SIZE	Integral 8 litre vessel				
SKID MOUNTED	Yes				
SUCTION CONNECTION	76 dia (TBC)				
DISCHARGE CONNECTION	76 dia (TBC)				
WEIGHT APPROX.	TBC				
CONTROL	INTEGRAL CONTROLS, BMS FAULT				

NOTES: 1) Flow through pressure vessel and control system required to limit number of starts 2) Isolating and non-return valves to each pump 3) Commissioning of pump required 4) Pump to be hard wired to low level switch in tank					
--	--	--	--	--	--

AQUABOOST

SP3V-CRI10-10-MAB-T/24

The Aquaboost SP3V-CRI10-10-MAB-T/24 booster set is fully WRAS approved and features three 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 10 m³/h (per pump) and nominal head pressure of up to 8.3 bar. This product can be configured for duty-assist-standby or duty-assist-assist operating modes.



Features

- Flow rates up to 13 m³/h (per pump)
- Head pressure up to 10.2 Bar
- Variable speed pump control
- Duty-assist-standby and duty-assist-assist
- 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

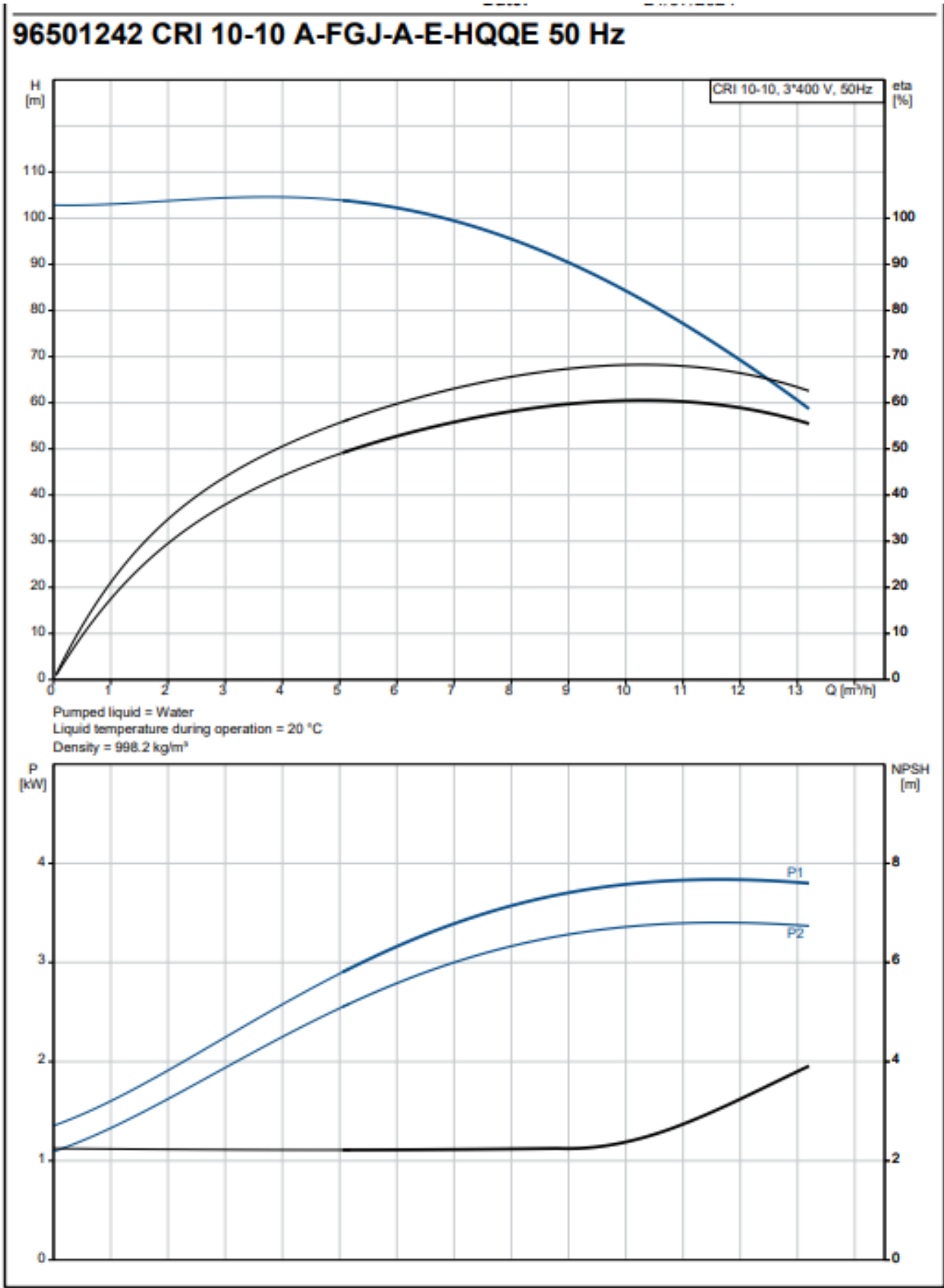
Applications

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

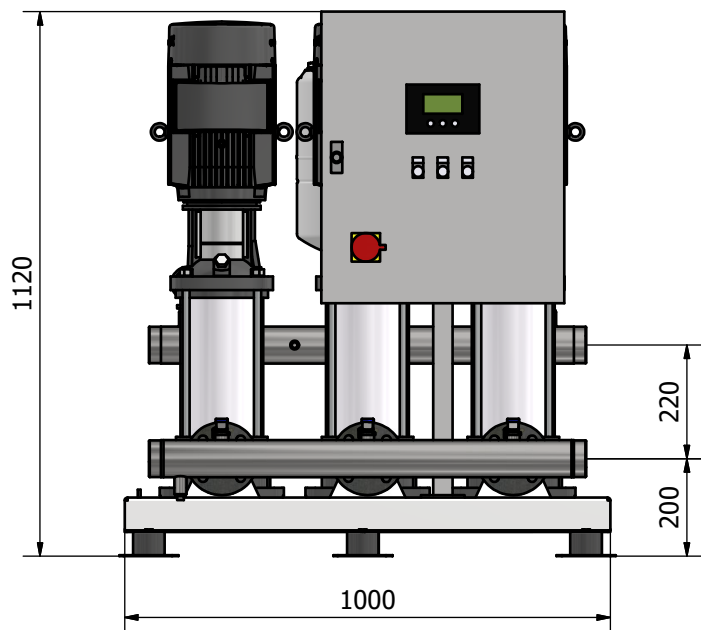
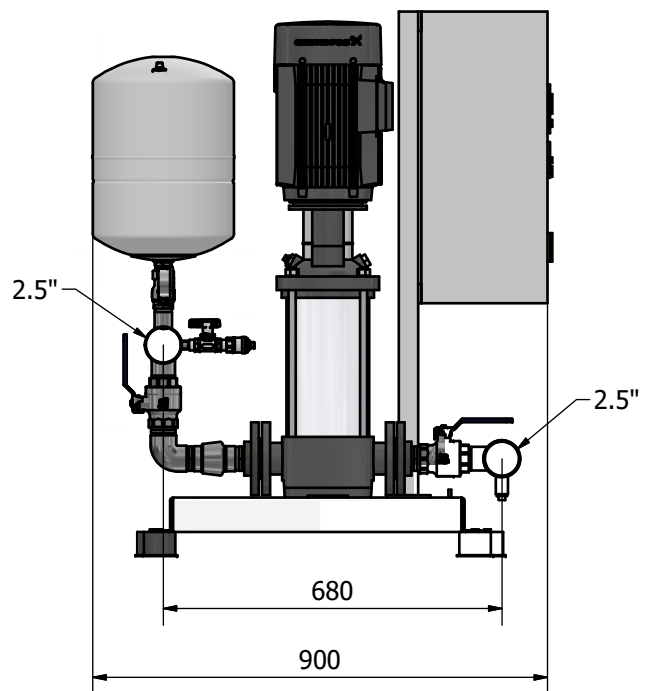
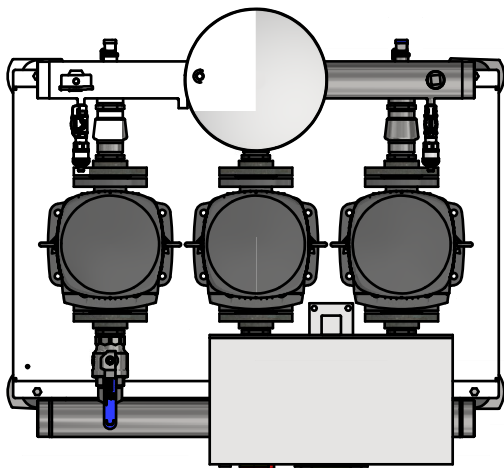
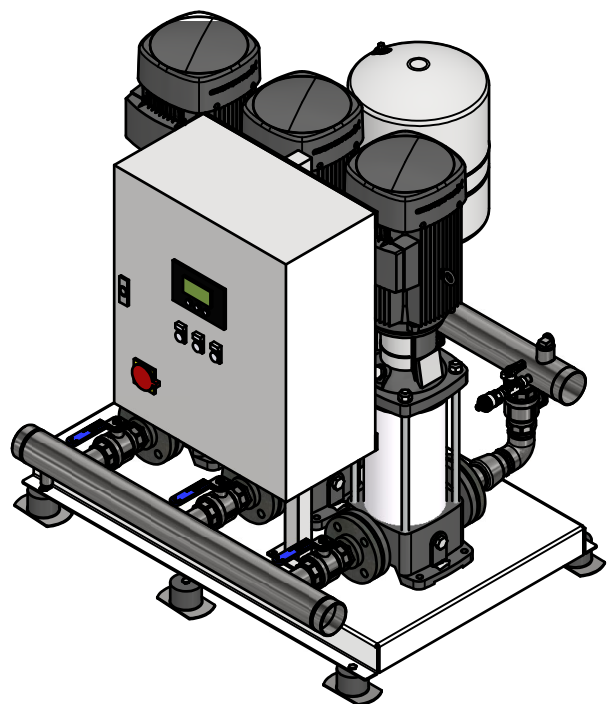
Product Code Structure

	SP3V	CRI10-10	MAB T	/	24
Product Prefix	SP3V				
Number of Pumps		CRI10-10			
Variable Speed			MAB T		
Pump Model					
Controller Type					
Three Phase					
Vessel Size					24

Pump Characteristic SP3V-CRI10-10-MAB-T/24

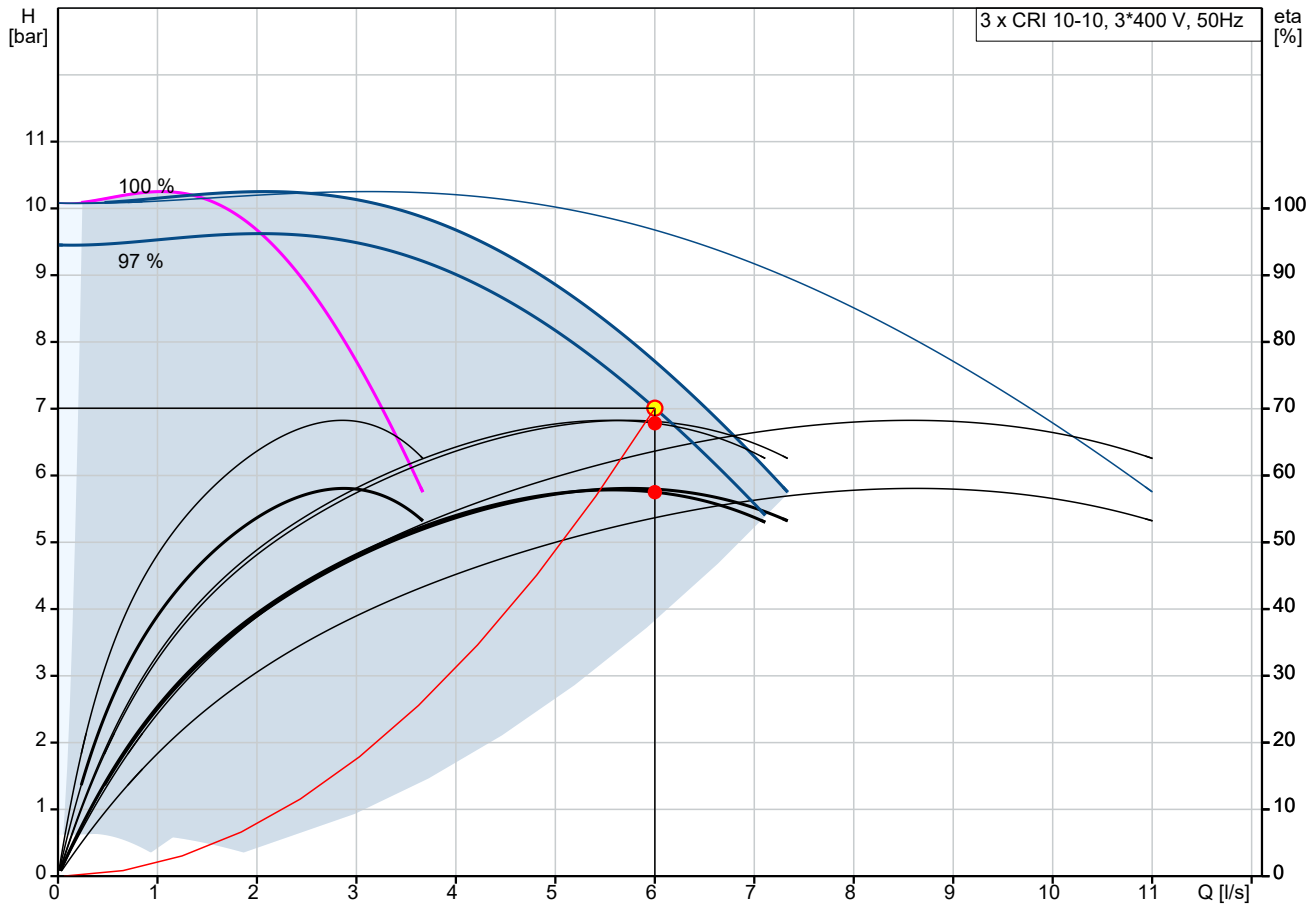
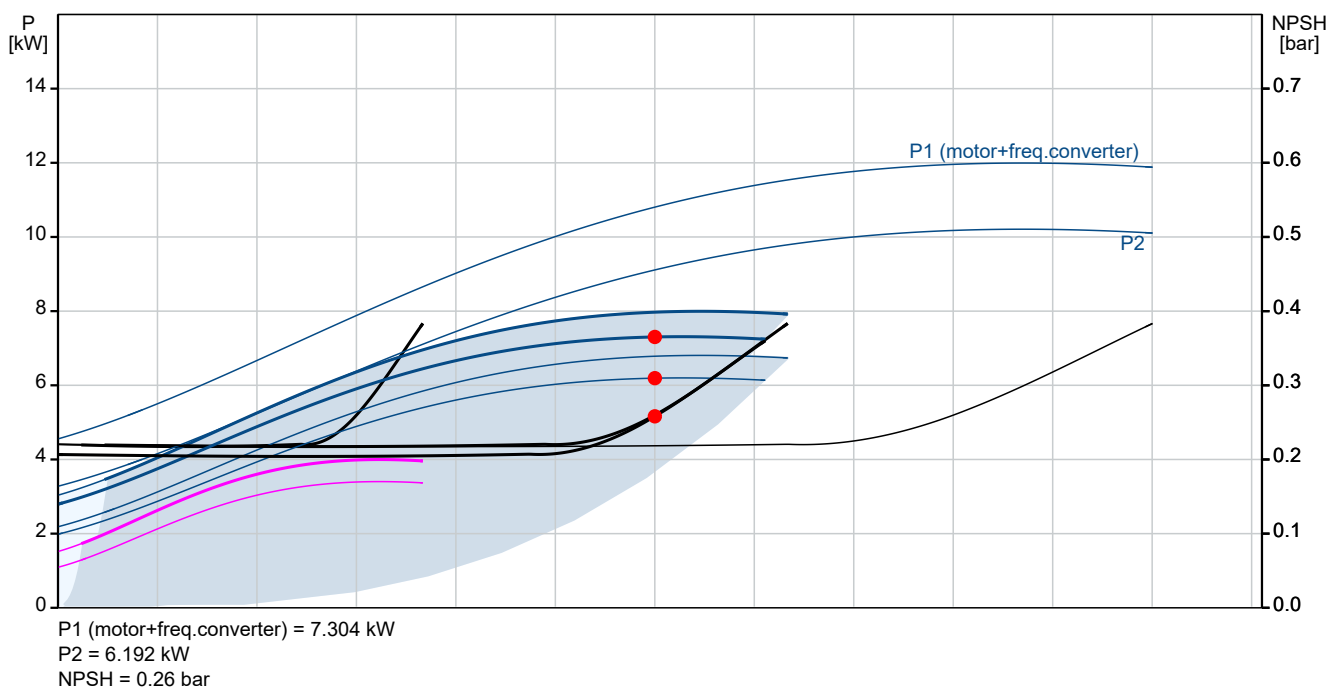


Aquaboost Model		SP3V-CRI10-10-MAB-T/24
General	Warranty	2 Years
	WRAS approval	1910316
	Conformity certification	CE / UKCA
Features	Dry run protection	✓
	Glycerine filled pressure gauge	✓
	Pump check valve(s)	✓
	BMS volt-free contacts	✓
Performance	Nominal head	8.3 bar
	Maximum head (closed valve)	10.2 bar
	Nominal flow rate	10 m³/h (per pump)
	Maximum flow rate	13 m³/h (per pump)
	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)	1600 kPa / 16 bar
Connections	Inlet	2 1/2" BSP
	Outlet	2 1/2" BSP
Manifold	Manifold construction	Stainless steel
	Pump isolation valves	Full bore, lever
Pump	Number of pumps	3
	Pump type	Multistage centrifugal (vertical)
	Pump body	Stainless steel
	Impeller	Stainless steel
	Mechanical seal	EPDM / Silicon Carbide / Carbon
	Motor type	Induction (current overload sensor)
	Duty rating	Continuous (S1)
Electrical	Power supply / phase / frequency	400 V / 3 / 50Hz
	Power consumption – P1	4.0 kW (per pump)
	Current – full load	8.4 Amps (per pump)
Physical	Enclosure protection	IP44
	Width	1000 mm
	Depth	900 mm
	Height	1120 mm
	Weight	305 kg

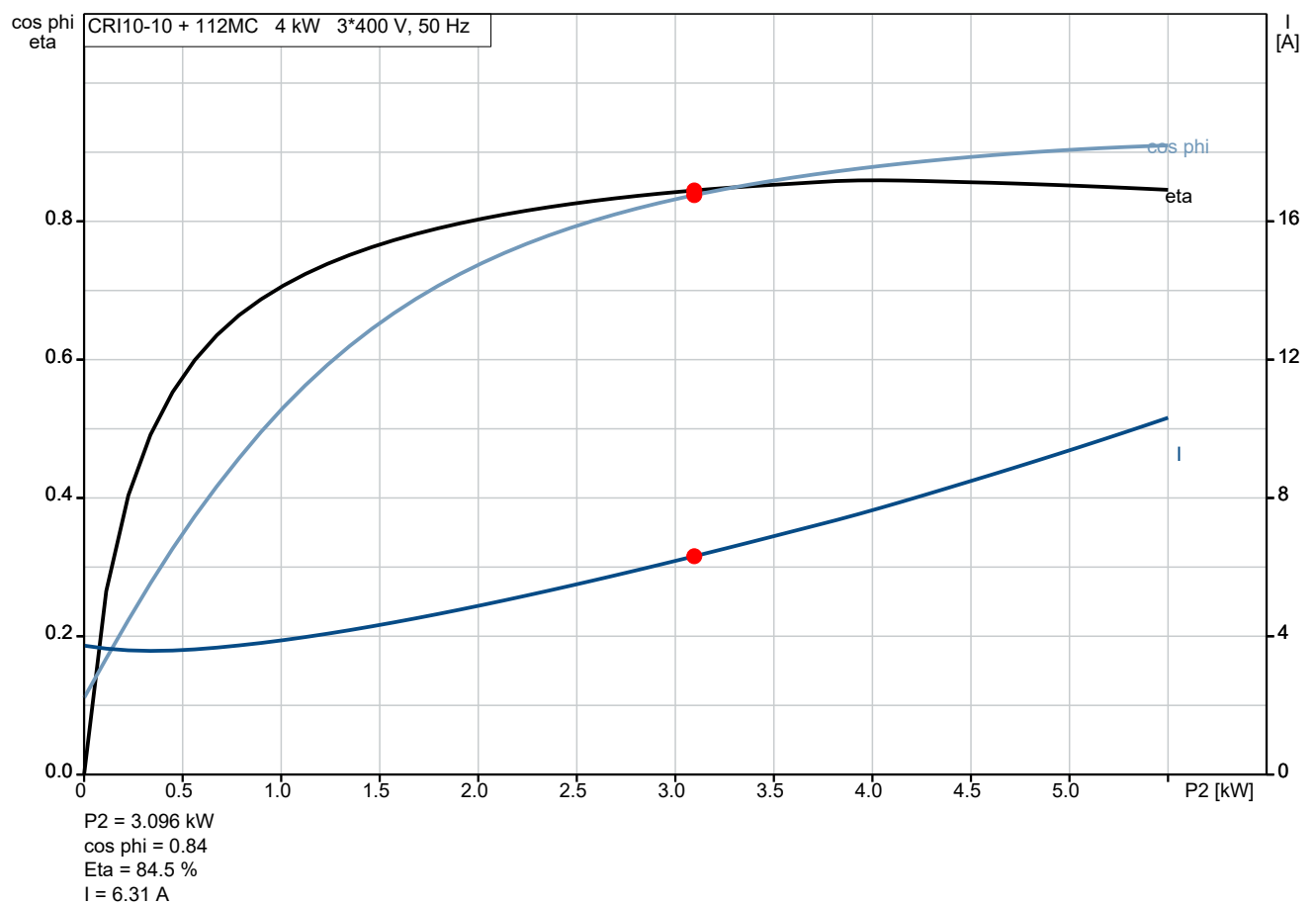
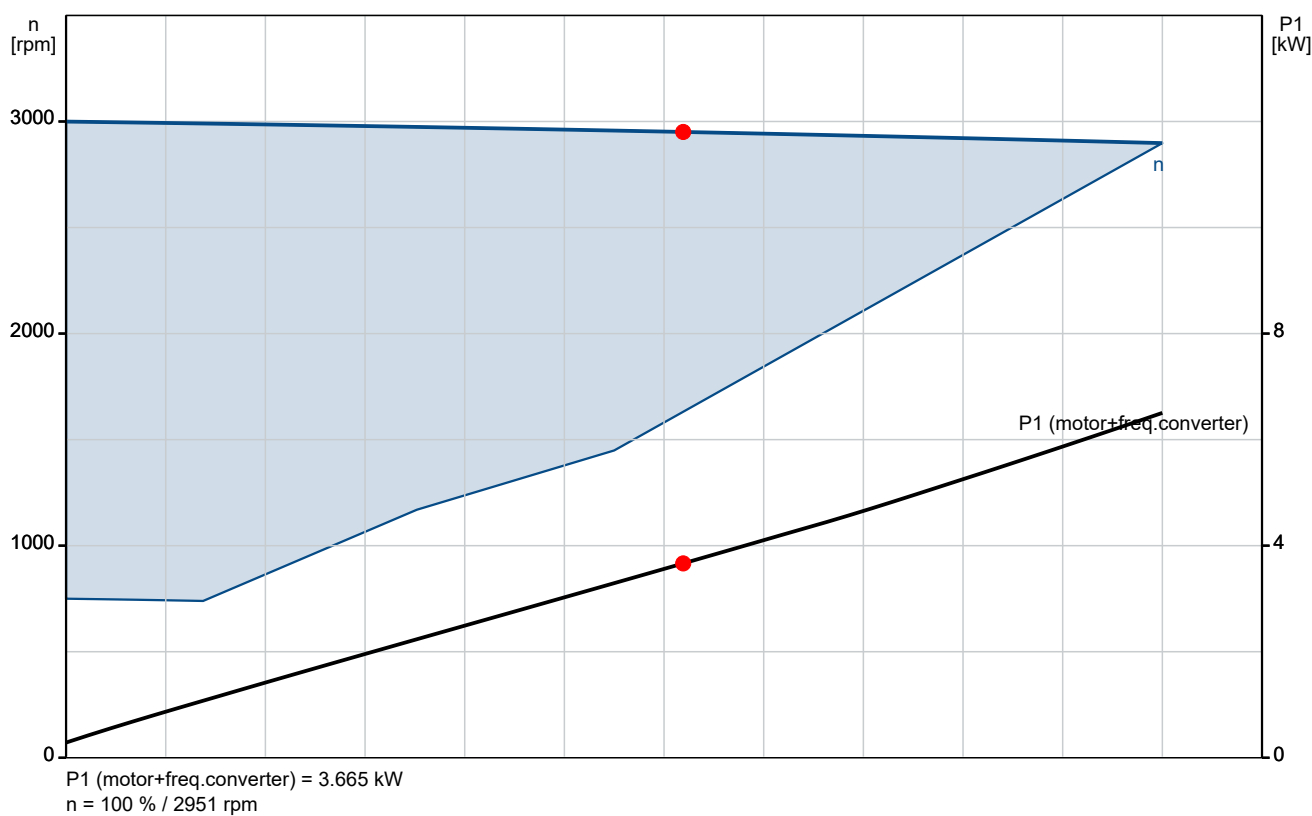


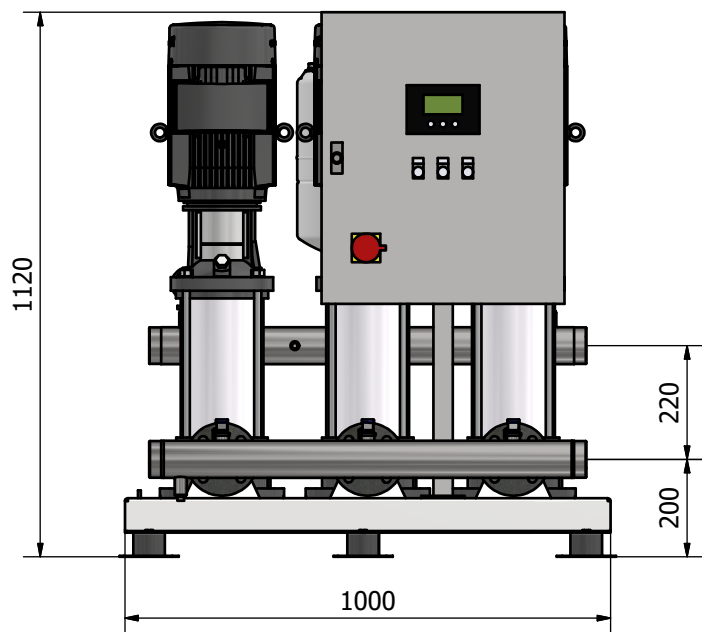
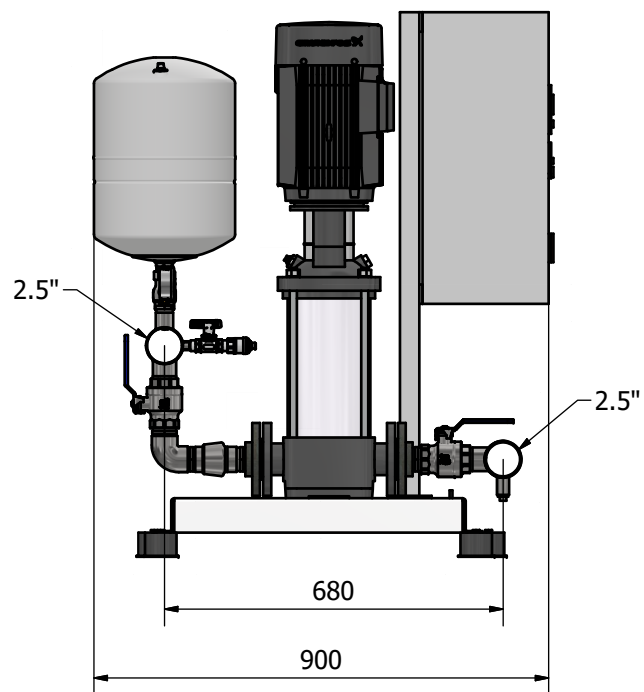
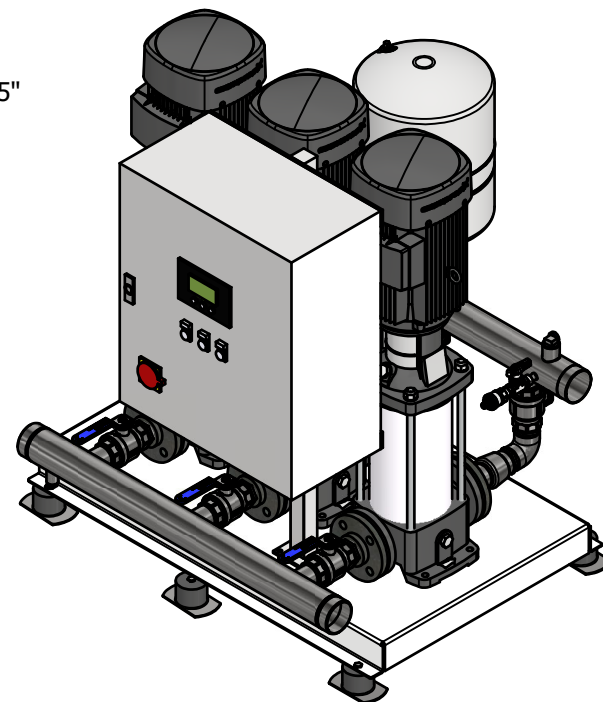
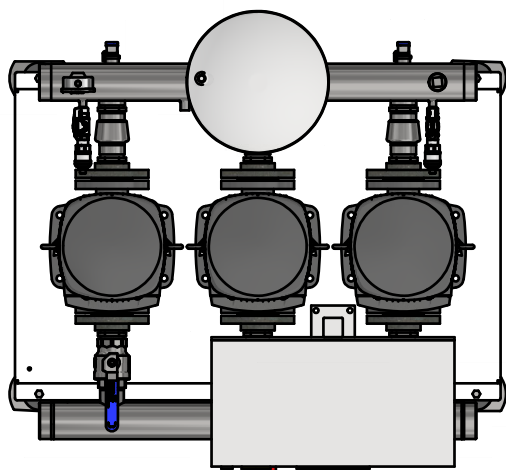
***Please add 50mm to the total height from the base of the pump when AV mounts are used.**

96501343 CRI 10-10 A-FGJ-A-V-HQQV 50 Hz



96501343 CRI 10-10 A-FGJ-A-V-HQQV 50 Hz





MODEL FOR ILLUSTRATION ONLY - ACTUAL PRODUCT MAY DIFFER

<p>NOTE ALL DIMENSIONS ARE IN MM'S TYPICAL ONLY - NON BINDING</p> <p>PLEASE ALLOW +/- 2% ON ALL DIMENSIONS</p>	<p>A.J.H. PUMP SUPPLY & REPAIR LTD</p> <p>The Warehouse, Church Street, Thornes, Wakefield WF1 5QY Tel: (01924) 368773/376216 fax: (01924) 382229 www.ajhpumpsupply.co.uk info@ajhpumpsupply.co.uk</p>	<p>DRAWN BY Josh T</p>
		<p>DATE 17/10/2022</p>
	<p>SP3V-CR-10-10-MAB-T/24</p>	<p>SHEET 1 / 1</p>