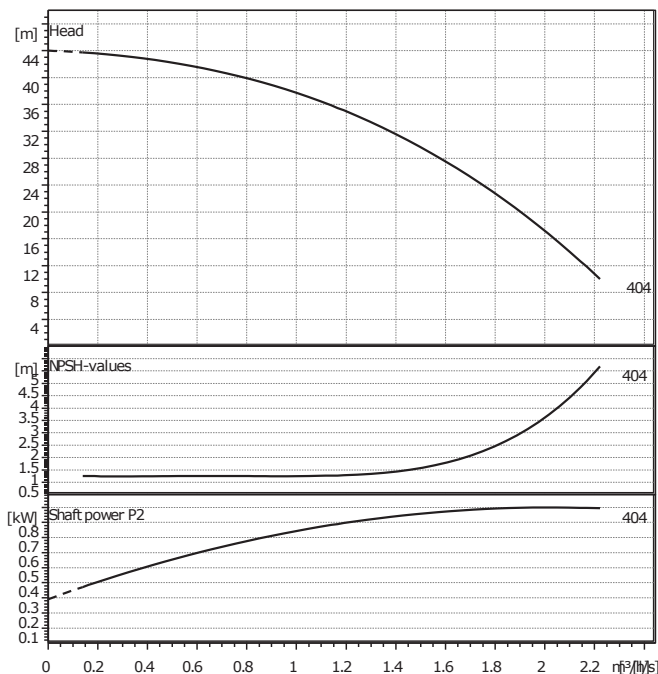




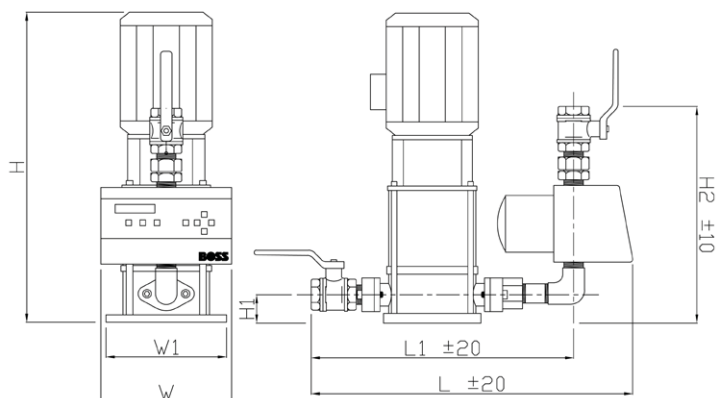
**BOSS-1 MULTI V**  
**404/EC2-1PH**  
**80460464**

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Item	Description			
	<p><b>BOSS-1 MULTI V 404/EC2-1PH</b> <b>80460464</b></p> <p><b>Description:</b> Fully automatic self contained single pump booster set designed to provide reliable constant pressure water supply. The set is quiet running, making it suitable for use in domestic, commercial and industrial applications. The control system is based on proven electronic technology giving reliability and simple on site adjustment.</p> <p><b>Accessories:</b></p> <p>Commissioning 80418398 - First item on site 80418406 - Subsequent items on site</p> <p>80460357 - BOSS CAVSA Valve</p> <p><b>Operational Cycle:</b> System pressure is maintained by a hydraulic accumulator and monitored by integrated pressure sensor, keeping the system ready for instant draw off. When demand causes pressure to drop the duty pump starts and will ramp up in speed to match the system demand. The pump will continue to run, varying its speed to match the varying demand of the system. When the system demand reduces to zero, the pump will ramp down until it stops.</p> <p><b>Specification:</b> <b>Pump:</b> Vertical multi stage design of stainless steel construction, WRAS approved. <b>Motor:</b> Totally enclosed fan cooled (TEFC), IP55, class F, 230 volts, three phase, direct on line (DOL) starting via pipe mounted inverter. IE2 Motor Efficiency <b>Inverter:</b> The pump has a dedicated pipe mounted inverter, giving maximum reliability and flexibility. <b>Pipe Work:</b> 304 stainless steel, sized in accordance with the overall hydraulic performance of the unit. <b>Valves:</b> Nickel-plated brass full flow isolation and non-return valves. <b>Accumulator:</b> 1 x 8 litre MWP 8 bar, WRAS approved c/w through flow shutoff valve for testing and draining. <b>Control Panel:</b> 230V Termination box with protection per pump all mounted on base frame with anti-vibration mounts. <b>Inverter Alarms:</b> Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. <b>Display:</b> System pressure, set point</p>			



Optimum selection band (but not limited to):  
Flow: 0.2 - 2.1  
Head: 16 - 36



#### Requested data

Flow	0	l/s
Head	0	m
Fluid	Water, pure	
Fluid temperature	20	°C
Density	998.3	kg/m³
Kinematic viscosity	1.005	mm²/s
Vapor pressure	2.337	kPa

#### Pump data

Make	BOSS	
Type	BOSS-1 MULTI V 404/EC2-1PH	
Design	Booster Set	
Pump type	Multi-pump set	
Pressure rating	PN10	
Min. fluid temperature	0	°C
Max. fluid temperature	40	°C

#### Hydraulic data (duty point)

Flow	0	l/s
Head	0	m
Speed	2900	1/min
Shaft power P2		kW
NPSH		m

#### Materials / Shaft seal

Housing	1.4301
Shaft	1.4301
Impeller	1.4301
Stage chambers	1.4301
Mechanical seal	Carbon/ceramic
Unit pipework	1.4301

Suction side	1.25" BSP
Discharge side	1.25" BSP
Weight	42.5 kg

#### Electrical Data

Rated power P2	1.1	kW
Nominal speed	2900	1/min
Rated voltage	1~230 V, 50 Hz	
Max. current/Min. protection	6.5/16.0	A
Degree of protection	IP55	
Permitted voltage tolerance	+/- 10 %	

Item no. of standard version	29990344
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