

# **BOSS-2 MULTI V** 204/EC-1PH 80460228

Customer BSS Project Customer no. Project no. Contact Location Care of Date

Care of		Date Page 1 /			je 1 / 2
I te m	Qty.	Description	Price gr	. Price [GBP]	Price [GBP]
		BOSS-2 MULTI V 204/EC-1PH 80460228  Description: Fully automatic self contained two 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.  Accessories:  Commissioning 80418417 - First item on site 80418428 - Subsequent items on site 80460357 - BOSS CAVSA Valve  Operational Cycle: 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. If the demand exceeds capacity of duty pump, the assist pump will ramp up in speed ensuring duty point is maintained. When the system demand reduces to zero, the pumps will ramp down until they stop. If the duty pump should fail, the assist pump will start and run until pressure is restored. The Duty pump is rotated between pumps after each operational cycle to ensure even wear.			
		Specification: Pumps: Vertical multi stage design of stainless steel construction, WRAS approved. Motor: Totally enclosed fan cooled (TEFC), IP55, class F, 230 volts, three phase, direct on line (DOL) starting via pipe mounted inverter. IE2 Motor Efficiency. Inverter: Each pump has a dedicated pipe mounted inverter, giving maximum reliability and flexibility. Pipe Work: 304 stainless steel, sized in accordance with the overall hydraulic performance of the unit. Valves: Nickel-plated brass full flow isolation and non-return valves. Accumulator: 1 x 8 litre MWP 8 bar, WRAS approved c/w through flow shutoff valve for testing and draining. Control Panel: 230V Termination box with protection per pump all mounted on base frame with anti-vibration mounts. Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. Display: System pressure, set point			



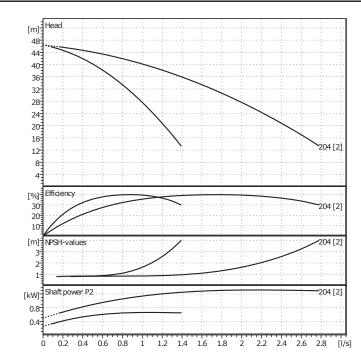
## BOSS-2 MULTI V 204/EC-1PH 80460228

Customer no.
Contact

Care of

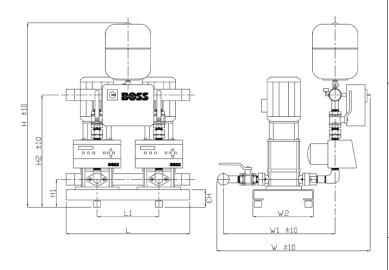
Project
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Position no.
Location

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Optimum selection band (but not limited to):

Flow: 0.1 - 2.4 Head: 20 - 40



Requested data		
Flow	0	l/s
Head	0	m
Fluid	Water, pure	
Fluid temperature	20	С
Density	998.3	kg/m³
Kinematic viscosity	1.005	$m m^2/s$
Vapor pressure	2.337	kPa

Pump data			
Make	BOSS		
Туре	BOSS-2 MULTI V 204/EC-1PH		
Design	Booster Set		
Pumpe type	Multi-pump set		
Pressure rating	PN10		
Min. fluid temperature	0	С	
Max. fluid temperature	40	С	

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	2" BSP
Discharge side	2" BSP
Weight	<sup>85</sup> kg

Electrical Data		
Rated power P2	1.5	kW
Nominal speed	2900	1/min
Rated voltage	‰230 V, 50 Hz	
Max.current/Min.protection	10.0/32.0	Α
Degree of protection	IP55	
Permitted voltage tolerance -	+/- 10%	

Н	995	H1	120	H2	580		
H3	75	L	600	L1	300	Item no. of standard version	29990348
W	750	W1	500	W2	300		



# BOSS-2 MULTI V 206/EC-1PH 80460239

Customer BSS Project
Customer no. Project no.
Contact Location
Care of Date

Care of	Date			Page 1 / 2			
I te m	Qty.	Description	Price gr	. Price [GBP]	Price [GBP]		
		Description: Fully automatic self contained two 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.  Accessories:  Commissioning 80418417 - First item on site 80418428 - Subsequent items on site 80460357 - BOSS CAVSA Valve  Operational Cycle: 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. If the demand exceeds capacity of duty pump, the assist pump will ramp up in speed ensuring duty point is maintained. When the system demand reduces to zero, the pumps will ramp down until they stop. If the duty pump should fail, the assist pump will start and run until pressure is restored. The Duty pump is rotated between pumps after each operational cycle to ensure even wear.					
		Specification: Pumps: Vertical multi stage design of stainless steel construction, WRAS approved. Motor: Totally enclosed fan cooled (TEFC), IP55, class F, 230 volts, three phase, direct on line (DOL) starting via pipe mounted inverter. IE2 Motor Efficiency. Inverter: Each pump has a dedicated pipe mounted inverter, giving maximum reliability and flexibility. Pipe Work: 304 stainless steel, sized in accordance with the overall hydraulic performance of the unit. Valves: Nickel-plated brass full flow isolation and non-return valves. Accumulator: 1 x 8 litre MWP 8 bar, WRAS approved c/w through flow shutoff valve for testing and draining. Control Panel: 230V Termination box with protection per pump all mounted on base frame with anti-vibration mounts. Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. Display: System pressure, set point					



## BOSS-2 MULTI V 206/EC-1PH 80460239

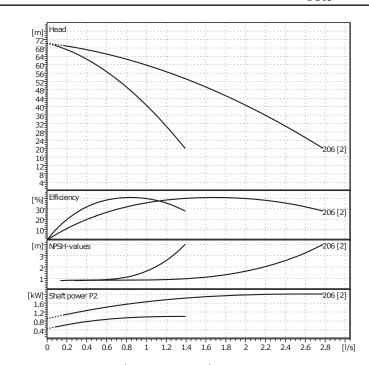
Customer no.
Contact

Care of

Project
Project no.
Position no.
Location

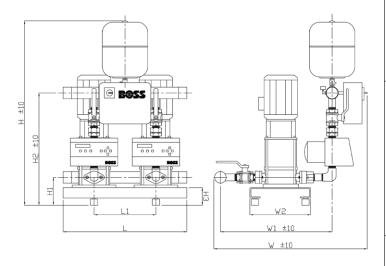
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Optimum selection band (but not limited to):

Flow: 0.1 - 2.6 Head: 24 - 60



Requested data		
Flow	0	l/s
Head	0	m
Fluid	Water, pure	
Fluid temperature	20	С
Density	998.3	kg/m³
Kinematic viscosity	1.005	m m <sup>2</sup> /s
Vapor pressure	2.337	kPa

Pump data		
Make	BOSS	
Туре	BOSS-2 MULTI V 206/EC-1PH	
Design	Booster Set	
Pumpe type	Multi-pump set	
Pressure rating	PN10	
Min. fluid temperature	0	С
Max. fluid temperature	40	С

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	2" BSP
Discharge side	2" BSP
Weight	<sup>85</sup> kg

Εl	ect	rical	Data
_			_

Rated power P2 2.2 kW
Nominal speed 2900 1/min
Rated voltage %~230 V, 50 Hz
Max.current/Min.protection 13.0/32.0 A
Degree of protection 1P55
Permitted voltage tolerance +/- 10%

Item	no.	of	standard	version

UK

29990349

995

75

Н

НЗ

Н1

L

W1

120

600

500

H2

L1

580

300

300



# **BOSS-2 MULTI V** 404/EC-1PH 80460250

Customer BSS Project Customer no. Project no. Contact Location Care of Date

BOSS-2 MULTI V 404/EC-1PH 80460250  Description: Fully automatic self contained two 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 baselong of some jet comic technology giving reliability and simple on wite adjustment.  Accessories: Commissioning 80418417 - First item on site 80460357 - BOSS CAVSA Valve  Operational Cycle: 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 on match of the control of the pump will continue to run, varying its speed for match by the pumps will ramp down until the system demand reduces to zero, the pumps will arm pump will ramp und the speed demanding duty point is maintained. When the system demand reduces to zero, the pumps will ramp down until they stop, it the duty pump should fail, the assist pump will start and run until pressure is restored. The Duty pump is rotated between pumps after each operational cycle to ensure even wear.  Specification: Pumps: Vertical Pumit stage design of stainless steel construction. WRAS approved. Motor: Totally enclosed fan cooled (TEFC), IP55, class F, 230 volts, three phase, direct on line (DOL) starting via pipe mounted inverter. IE2 Motor Efficiency, interesting and provided pipe mounted inverter. IE2 Motor Efficiency, interesting and provided pipe mounted inverter. IE2 Motor Efficiency, interesting and provided pipe mounted inverter. IE2 Motor Efficiency, interesting and draining. Control Panel: 230 V Termination box with protection per pump all mounted on base frame with anti-i vibration mounts. Inverter Alarms: Dy running over-current, light water temp, frost profection, short circuit, over and under voltage.	Cale of		Date		rag	je 1 / 2
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			protection, short circuit, over and under voltage.			



### **BOSS-2 MULTI V** 404/EC-1PH 80460250

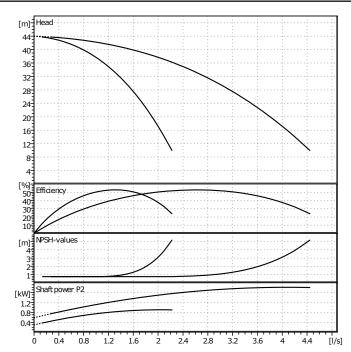
**BSS** Customer Customer no.

Contact Care of

Project Project no. Position no.

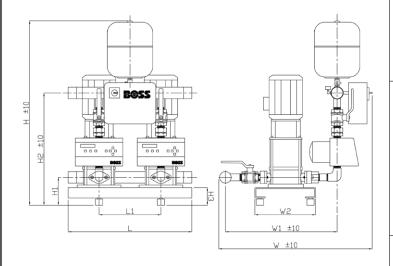
Location

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Optimum selection band (but not limited to):

Flow: 0.4 - 3.7 Head: 16 - 36



Requested data	
Flow	

0 Head Water, pure Fluid 20 <sub>C</sub> Fluid temperature Density 998.3 kg/m<sup>3</sup> Kinematic viscosity 1.005 m m <sup>2</sup>/s Vapor pressure 2.337 kPa

0 I/s

### Pump data

BOSS Make BOSS-2 MULTI V 404/EC-1PH Type Booster Set Design Multi-pump set Pumpe type PN10 Pressure rating Min. fluid temperature 0 C Max. fluid temperature 40 C

#### Hydraulic data (duty point)

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

### Materials / Shaft seal

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

2" BSP Suction side 2" BSP Discharge side 95 kg Weight

#### **Electrical Data**

2.2 kW Rated power P2 2900 Nominal speed 1/min %~230 V, 50 Hz Rated voltage Max.current/Min.protection 13.0/32.0 д IP55 Degree of protection

Permitted voltage tolerance +/- 10%

UK

Н	995	H1	120	H2	580
H3	75	L	600	L1	300
W	750	W1	500	W2	300

29990350 Item no. of standard version



# **BOSS-2 MULTI V** 406/EC-1PH 80460261

Customer BSS Project Customer no. Project no. Contact Location Care of Date

Care of		Date	Page 1 / 2			
I te m	Qty.	Description	Price gr	. Price [GBP]	Price [GBP]	
		BOSS-2 MULTI V 406/EC-1PH 80460261  Description: Fully automatic self contained two 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.  Accessories:  Commissioning 80418417 - First item on site 80418428 - Subsequent items on site 80460357 - BOSS CAVSA Valve  Operational Cycle: 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. If the demand exceeds capacity of duty pump, the assist pump will ramp up in speed ensuring duty point is maintained. When the system demand reduces to zero, the pumps will ramp down until they stop. If the duty pump sbould fail, the assist pump will start and run until pressure is restored. The Duty pump is rotated between pumps after each operational cycle to ensure even wear.				
		Specification: Pumps: Vertical multi stage design of stainless steel construction, WRAS approved. Motor: Totally enclosed fan cooled (TEFC), IP55, class F, 230 volts, three phase, direct on line (DOL) starting via pipe mounted inverter. IE2 Motor Efficiency. Inverter: Each pump has a dedicated pipe mounted inverter, giving maximum reliability and flexibility. Pipe Work: 304 stainless steel, sized in accordance with the overall hydraulic performance of the unit. Valves: Nickel-plated brass full flow isolation and non-return valves. Accumulator: 1 x 8 litre MWP 8 bar, WRAS approved c/w through flow shutoff valve for testing and draining. Control Panel: 230V Termination box with protection per pump all mounted on base frame with anti-vibration mounts. Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. Display: System pressure, set point				



### **BOSS-2 MULTI V** 406/EC-1PH 80460261

**BSS** Customer Customer no.

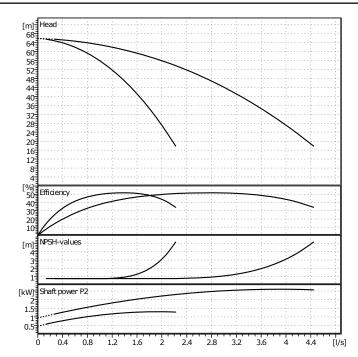
Contact Care of

Project Project no. Position no.

Location

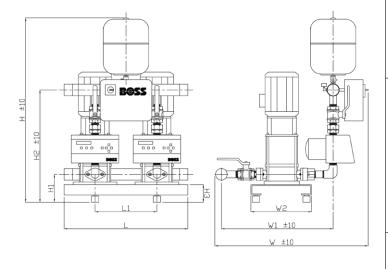
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Optimum selection band (but not limited to):

Flow: 0.2 - 4.0 Head: 28 - 56



R	e	q	u	e	S	t٠	е	d	d	a	t a	
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0 I/s Flow 0 Head Water, pure Fluid 20 <sub>C</sub> Fluid temperature 998.3 kg/m<sup>3</sup> Density Kinematic viscosity 1.005 m m <sup>2</sup>/s 2.337 kPa Vapor pressure

#### Pump data

BOSS Make BOSS-2 MULTI V 406/EC-1PH Type Booster Set Design Multi-pump set Pumpe type PN10 Pressure rating Min. fluid temperature 0 C Max. fluid temperature 40 C

#### Hydraulic data (duty point)

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

#### Materials / Shaft seal

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

2" BSP Suction side 2" BSP Discharge side 95 kg Weight

#### **Electrical Data**

3.0 kW Rated power P2 2900 Nominal speed 1/min %~230 V, 50 Hz Rated voltage 18.0/32.0 A Max. current IP55 Degree of protection

Permitted voltage tolerance +/- 10%

UK

Н	995	H1	120	H2	580
H3	75	L	600	L1	300
W	750	W1	500	W2	300

29990351 Item no. of standard version



# **BOSS-2 MULTI V** 804/EC-1PH 80460272

Customer BSS Project Customer no. Project no. Contact Location Care of Date

Qty.	Description  BOSS-2 MULTI V 804/EC-1PH 80460272	Price gr	. Price [GBP]	Price [GBP
	Description: Fully automatic self contained two 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.			
	Accessories:			
	Commissioning 80418417 - First item on site 80418428 - Subsequent items on site			
	80460357 - BOSS CAVSA Valve			
	Operational Cycle: 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. If the demand exceeds capacity of duty pump, the assist pump will ramp up in speed ensuring duty point is maintained. When the system demand reduces to zero, the pumps will ramp down until they stop. If the duty pump should fail, the assist pump will start and run until pressure is restored. The Duty pump is rotated between pumps after each operational cycle to ensure even wear.			
	Specification: Pumps: Vertical multi stage design of stainless steel construction, WRAS approved. Motor: Totally enclosed fan cooled (TEFC), IP55, class F, 230 volts, three phase, direct on line (DOL) starting via pipe mounted inverter. IE2 Motor Efficiency. Inverter: Each pump has a dedicated pipe mounted inverter, giving maximum reliability and flexibility. Pipe Work: 304 stainless steel, sized in accordance with the overall hydraulic performance of the unit. Valves: Nickel-plated brass full flow isolation and non-return valves. Accumulator: 1 x 8 litre MWP 8 bar, WRAS approved c/w through flow shutoff valve for testing and draining. Control Panel: 230V Termination box with protection per pump all mounted on base frame with anti-vibration mounts. Inverter Alarms: Dry running, over-current, high water temp, frost			
		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.  Accessories:  Commissioning 80418417 - First item on site 80418428 - Subsequent items on site 80460357 - BOSS CAVSA Valve  Operational Cycle: 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. If the demand exceeds capacity of duty pump, the assist pump will ramp up in speed ensuring duty point is maintained. When the system demand reduces to zero, the pumps will ramp down until they stop. If the duty pump should fail, the assist pump will start and run until pressure is restored. The Duty pump is rotated between pumps after each operational cycle to ensure even wear.  Specification: Pumps: Vertical multi stage design of stainless steel construction, WRAS approved. Motor: Totally enclosed fan cooled (TEFC), IP55, class F, 230 volts, three phase, direct on line (DOL) starting via pipe mounted inverter. IE2 Motor Efficiency. Inverter: Each pump has a dedicated pipe mounted inverter, giving maximum reliability and flexibility. Pipe Work: 304 stainless steel, sized in accordance with the overall hydraulic performance of the unit. Valves: Nickel-plated brass full flow isolation and non-return valves. Accumulator: 1 x 8 litre MWP 8 bar, WRAS approved c/w through flow shutoff valve for testing and draining. Control Panel: 230V Termination box with protection per pump all mounted on base frame with anti-vibration mounts.	quiet running, making it suitable for use in domestic, commercial and industrial applications. 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## **BOSS-2 MULTI V** 804/EC-1PH 80460272

BSS Customer Customer no. Contact

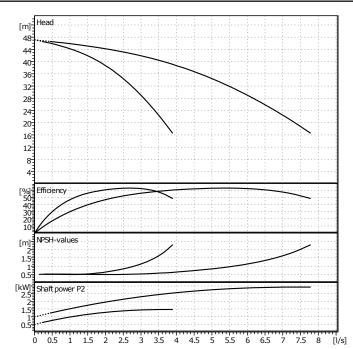
Care of

Project Project no. Position no.

> Location Date

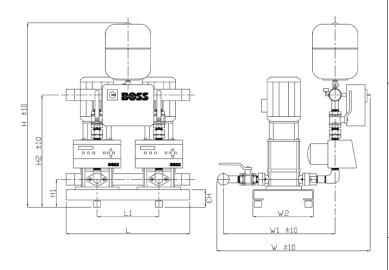
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Vapor pressure



Optimum selection band (but not limited to):

Flow: 0.4 - 6.7 Head: 24 - 40



Requested data		
Flow	0	l/s
Head	0	m
Fluid	Water, pure	
Fluid temperature	20	С
Density	998.3	kg/m³
Kinematic viscosity	1.005	$m m^2/s$

2.337 kPa

Pump data			
Make	BOSS		
Type	BOSS-2 MULTI V 804/EC-1PH		
Design	Booster Set		
Pumpe type	Multi-pump set		
Pressure rating	PN10		
Min. fluid temperature	0	С	
Max. fluid temperature	40	С	

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	2" BSP
Discharge side	2" BSP
Weight	<sup>115</sup> kg

Electrical	Data

3.0 kW Rated power P2 2900 Nominal speed 1/min %~230 V, 50 Hz Rated voltage 18.0/32.0 A Max.current/Min.protection IP55 Degree of protection Permitted voltage tolerance +/- 10%

Н	1030	H1	165	H2	630	
H3	80	L	600	L1	300	

29990352 Item no. of standard version

UK



# **BOSS-2 MULTI V** 806/EC-1PH 80460283

Customer BSS Project Customer no. Project no. Contact Location Care of Date

e m	Qty.	Description	D		
		S es es specialists	Price gr.	. Price [GBP]	Price [GBF
		BOSS-2 MULTI V 806/EC-1PH 80460283			
		Description: Fully automatic self contained two 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.			
		Accessories:			
		Commissioning 80418417 - First item on site 80418428 - Subsequent items on site			
		80460357 - BOSS CAVSA Valve			
		Operational Cycle: 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. If the demand exceeds capacity of duty pump, the assist pump will ramp up in speed ensuring duty point is maintained. When the system demand reduces to zero, the pumps will ramp down until they stop. If the duty pump should fail, the assist pump will start and run until pressure is restored. The Duty pump is rotated between pumps after each operational cycle to ensure even wear.			
		Specification: Pumps: Vertical multi stage design of stainless steel construction, WRAS approved. Motor: Totally enclosed fan cooled (TEFC), IP55, class F, 230 volts, three phase, direct on line (DOL) starting via pipe mounted inverter. IE2 Motor Efficiency. Inverter: Each pump has a dedicated pipe mounted inverter, giving maximum reliability and flexibility. Pipe Work: 304 stainless steel, sized in accordance with the overall hydraulic performance of the unit. Valves: Nickel-plated brass full flow isolation and non-return valves. Accumulator: 1 x 8 litre MWP 8 bar, WRAS approved c/w through flow shutoff valve for testing and draining. Control Panel: 230V Termination box with protection per pump all mounted on base frame with anti-vibration mounts.			
		Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage.  Display: System pressure, set point			



### **BOSS-2 MULTI V** 806/EC-1PH 80460283

Customer **BSS** Customer no. Contact

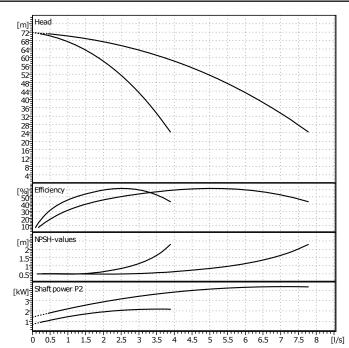
Care of

Project Project no. Position no.

Date

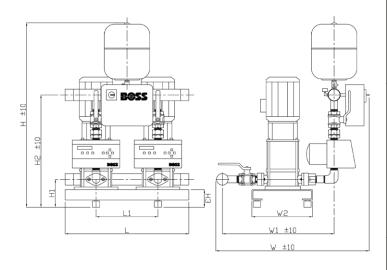
Location

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Optimum selection band (but not limited to):

Flow: 0.4 - 7.0 Head: 32 - 60



Requested data		
Flow	0	l/s
Head	0	m
Fluid	Water, pure	
Fluid temperature	20	С
Density	998.3	kg/m³
Kinematic viscosity	1.005	m m <sup>2</sup> /s

2.337 kPa Vapor pressure

Pump data Make

BOSS BOSS-2 MULTI V 806/EC-1PH Type Booster Set Design Multi-pump set Pumpe type PN10 Pressure rating Min. fluid temperature 0 C Max. fluid temperature 40 C

Hydraulic data (duty point)

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

Materials / Shaft seal

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

2" BSP Suction side 2" BSP Discharge side 115 kg Weight

**Electrical Data** 

4.4 kW Rated power P2 2900 Nominal speed 1/min %~230 V, 50 Hz Rated voltage 26.0/32.0 A Max.current/Min.protection Degree of protection IP55

Permitted voltage tolerance +/- 10%

UK

Н	1030	H1	165	H2	630
H3	80	L	600	L1	300
W	800	W1	570	W2	450

29990353 Item no. of standard version