



**BOSS-3 MULTI V
204/EC-VFC-1PH
80460294**

Customer BSS
Customer no.
Contact
Care of

Project
Project no.
Location
Date

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Item	Qty.	Description	Price gr.	Price [GBP]	Price [GBP]
		<p>BOSS-3 MULTI V 204/EC-VFC-1PH 80460294</p> <p>Description: Fully automatic self contained three 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>Accessories:</p> <p>Commissioning 80418417 - First item on site 80418428 - Subsequent items on site</p> <p>80460357 - BOSS CAVSA Valve</p> <p>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.</p> <p>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: 3x dedicated pipe mounted electro controllers with two line back lit LCD display and user interface. Contains electronic regulation system utilising pressure, flow sensors and frequency inverter to maintain constant pressure according to the set point pressure (automatic mode). Hand mode also available for pump testing. Electro Controller protects pump against: dry running (if float switch not used), over current, too high water temperature, frost, short-circuits, over/under voltages 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: IP55, 230v terminal box with individual pump MCB's and door interlocked isolator. Additional wiring box with volt free contact for general fault indication. Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. Display: System pressure, set point</p>			

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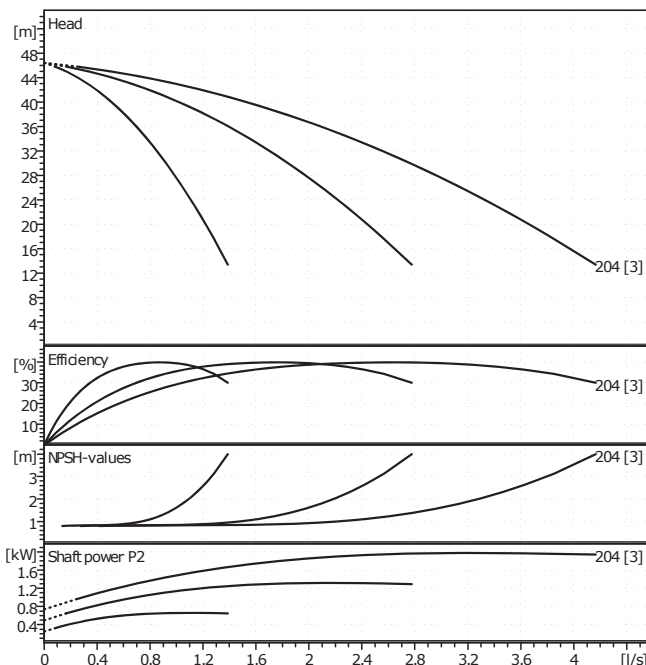
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Position no.

Location

Date

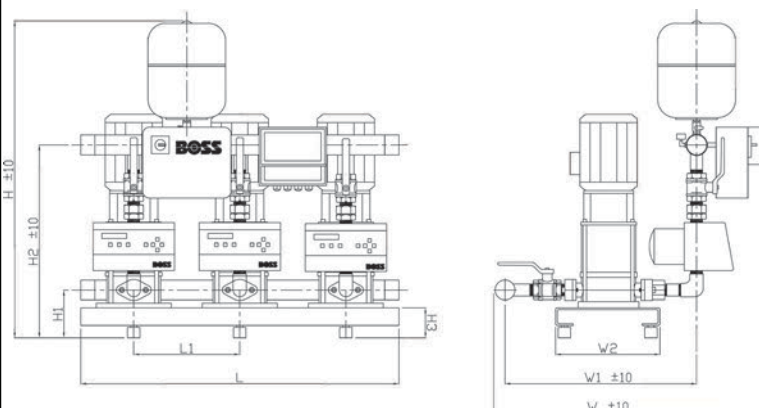
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Optimum selection band (but not limited to):

Flow: 0.1 – 3.6

Head: 20 – 40



Requested data

Flow	0 l/s
Head	0 m
Fluid	Water, pure
Fluid temperature	20 c
Density	998.3 kg/m ³
Kinematic viscosity	1.005 mm ² /s
Vapor pressure	2.337 kPa

Pump data

Make	BOSS
Type	BOSS-3 MULTI V 204/EC-VFC-1PH
Design	80460294
Pumpe type	Booster Set
Pressure rating	Multi-pump set
Min. fluid temperature	PN10
Max. fluid temperature	0 C
	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	2" BSP
Discharge side	2" BSP
Weight	115 kg

Electrical Data

Rated power P2	2.25 kW
Nominal speed	2900 1/min
Rated voltage	1~230 V, 50 Hz
Max.current/Min.protection	15.0/48.0 A
Degree of protection	IP55
Permitted voltage tolerance +/- 10%	

Item no. of standard version	29990400
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**BOSS-3 MULTI V
206/EC-VFC-1PH
80460302**

Customer BSS
Customer no.
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Project no.
Location
Date

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Item	Qty.	Description	Price gr.	Price [GBP]	Price [GBP]
		<p>BOSS-3 MULTI V 206/EC-VFC-1PH 80460302</p> <p>Description: Fully automatic self contained three 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>Accessories:</p> <p>Commissioning 80418417 - First item on site 80418428 - Subsequent items on site</p> <p>80460357 - BOSS CAVSA Valve</p> <p>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.</p> <p>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: 3x dedicated pipe mounted electro controllers with two line back lit LCD display and user interface. Contains electronic regulation system utilising pressure, flow sensors and frequency inverter to maintain constant pressure according to the set point pressure (automatic mode). Hand mode also available for pump testing. Electro Controller protects pump against: dry running (if float switch not used), over current, too high water temperature, frost, short-circuits, over/under voltages 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: IP55, 230v terminal box with individual pump MCB's and door interlocked isolator. Additional wiring box with volt free contact for general fault indication. Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. Display: System pressure, set point</p>			



BOSS-3 MULTI V
206/EC-VFC-1PH
80460302

Customer **BSS**

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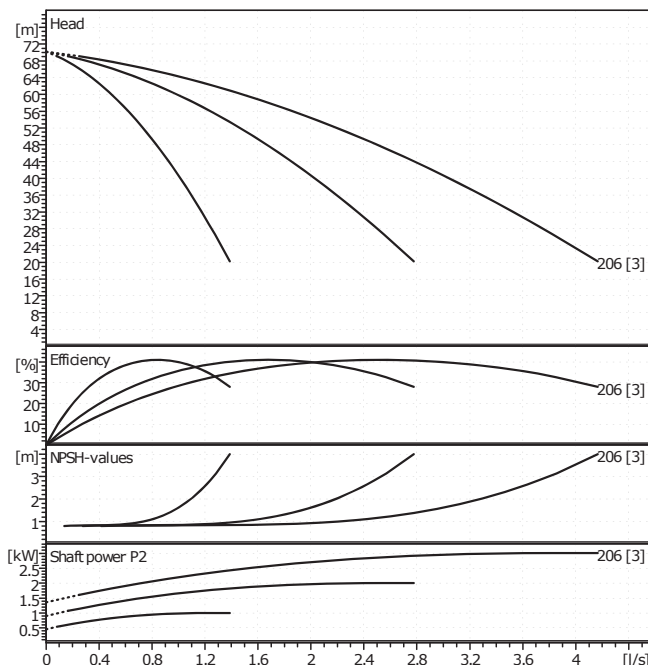
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Location

Date

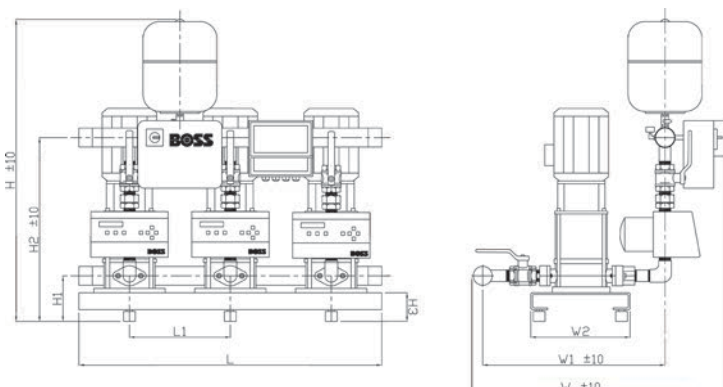
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Optimum selection band (but not limited to):

Flow: 0.1 - 3.7

Head: 24 - 60



Requested data

Flow	0 l/s
Head	0 m
Fluid	Water, pure
Fluid temperature	20 c
Density	998.3 kg/m ³
Kinematic viscosity	1.005 mm ² /s
Vapor pressure	2.337 kPa

Pump data

Make	BOSS
Type	BOSS-3 MULTI V 206/EC-VFC-1PH
Design	80460302
Pumpe type	Booster Set
Pressure rating	Multi-pump set
Min. fluid temperature	PN10
Max. fluid temperature	0 C
	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	2" BSP
Discharge side	2" BSP
Weight	115 kg

Electrical Data

Rated power P2	3.3 kW
Nominal speed	2900 1/min
Rated voltage	1~230 V, 50 Hz
Max.current/Min.protection	19.5/48.0 A
Degree of protection	IP55
Permitted voltage tolerance +/- 10%	

H	995	H1	120	H2	580
H3	75	L	900	L1	300
W	750	W1	500	W2	300

Item no. of standard version	29990401
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**BOSS-3 MULTI V
404/EC-VFC-1PH
80460313**

Customer BSS

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Customer no.

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Location

Care of

Date

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Item	Qty.	Description	Price gr.	Price [GBP]	Price [GBP]
		<p>BOSS-3 MULTI V 404/EC-VFC-1PH 80460313</p> <p>Description: Fully automatic self contained three 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>Accessories:</p> <p>Commissioning 80418417 - First item on site 80418428 - Subsequent items on site</p> <p>80460357 - BOSS CAVSA Valve</p> <p>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.</p> <p>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: 3x dedicated pipe mounted electro controllers with two line back lit LCD display and user interface. Contains electronic regulation system utilising pressure, flow sensors and frequency inverter to maintain constant pressure according to the set point pressure (automatic mode). Hand mode also available for pump testing. Electro Controller protects pump against: dry running (if float switch not used), over current, too high water temperature, frost, short-circuits, over/under voltages 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: IP55, 230v terminal box with individual pump MCB's and door interlocked isolator. Additional wiring box with volt free contact for general fault indication. Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. Display: System pressure, set point</p>			

Customer **BSS**

Customer no.

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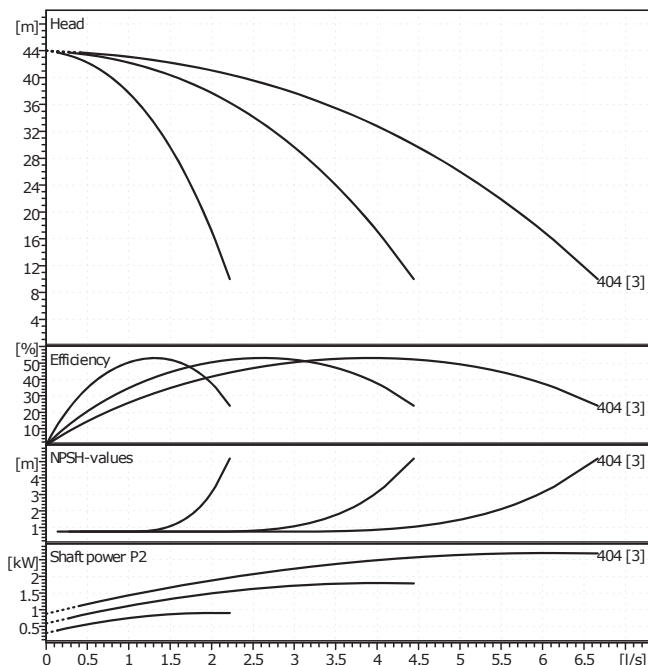
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Position no.

Location

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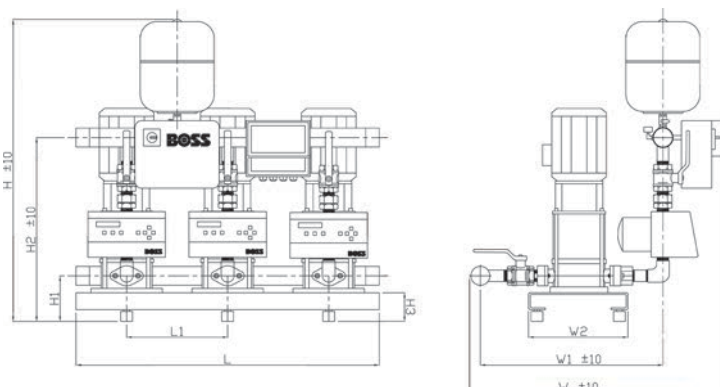
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Optimum selection band (but not limited to):

Flow: 0.2 – 5.7

Head: 16 – 36



Requested data

Flow	0 l/s
Head	0 m
Fluid	Water, pure
Fluid temperature	20 c
Density	998.3 kg/m ³
Kinematic viscosity	1.005 mm ² /s
Vapor pressure	2.337 kPa

Pump data

Make	BOSS
Type	BOSS-3 MULTI V 404/EC-VFC-1PH
Design	80460313
Pumpe type	Booster Set
Pressure rating	Multi-pump set
Min. fluid temperature	PN10
Max. fluid temperature	0 C
	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	2" BSP
Discharge side	2" BSP
Weight	127 kg

Electrical Data

Rated power P2	3.3 kW
Nominal speed	2900 1/min
Rated voltage	1~230 V, 50 Hz
Max.current/Min.protection	19.5/48.0 A
Degree of protection	IP55
Permitted voltage tolerance +/- 10%	

Item no. of standard version	29990402
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**BOSS-3 MULTI V
406/EC-VFC-1PH
80460324**

Customer BSS

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Care of

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Item	Qty.	Description	Price gr.	Price [GBP]	Price [GBP]
		<p>BOSS-3 MULTI V 406/EC-VFC-1PH 80460324</p> <p>Description: Fully automatic self contained three 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>Accessories:</p> <p>Commissioning 80418417 - First item on site 80418428 - Subsequent items on site</p> <p>80460357 - BOSS CAVSA Valve</p> <p>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.</p> <p>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: 3x dedicated pipe mounted electro controllers with two line back lit LCD display and user interface. Contains electronic regulation system utilising pressure, flow sensors and frequency inverter to maintain constant pressure according to the set point pressure (automatic mode). Hand mode also available for pump testing. Electro Controller protects pump against: dry running (if float switch not used), over current, too high water temperature, frost, short-circuits, over/under voltages 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: IP55, 230v terminal box with individual pump MCB's and door interlocked isolator. Additional wiring box with volt free contact for general fault indication. Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. Display: System pressure, set point</p>			

Customer **BSS**

Customer no.

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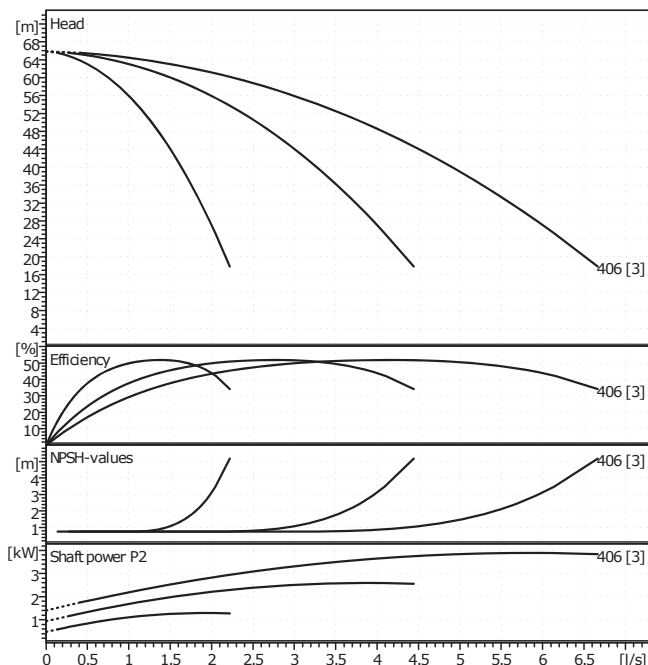
Project no.

Position no.

Location

Date

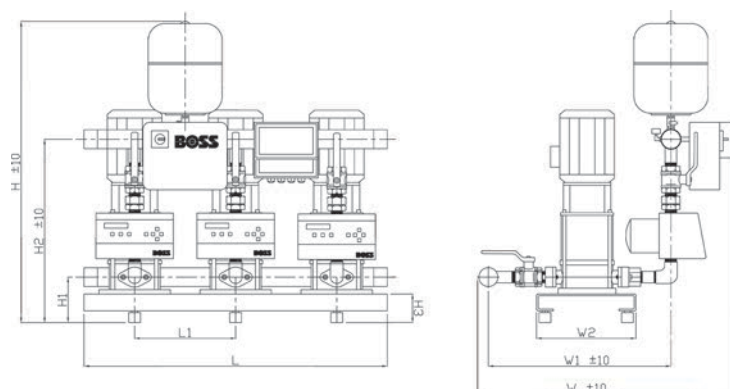
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Optimum selection band (but not limited to):

Flow: 0.2 - 5.9

Head: 28 - 56



Requested data

Flow	0 l/s
Head	0 m
Fluid	Water, pure
Fluid temperature	20 c
Density	998.3 kg/m ³
Kinematic viscosity	1.005 mm ² /s
Vapor pressure	2.337 kPa

Pump data

Make	BOSS
Type	BOSS-3 MULTI V 406/EC-VFC-1PH
Design	80460324
Pumpe type	Booster Set
Pressure rating	Multi-pump set
Min. fluid temperature	PN10
Max. fluid temperature	0 C
	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	2" BSP
Discharge side	2" BSP
Weight	127 kg

Electrical Data

Rated power P2	4.5 kW
Nominal speed	2900 1/min
Rated voltage	1~230 V, 50 Hz
Max.current/Min.protection	27.0/48.0 A
Degree of protection	IP55
Permitted voltage tolerance +/- 10%	

H	995	H1	120	H2	580
H3	75	L	900	L1	300
W	750	W1	500	W2	300

Item no. of standard version	29990403
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**BOSS-3 MULTI V
804/EC-VFC-1PH
80460335**

Customer BSS
Customer no.
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Care of

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Project no.
Location
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Item	Qty.	Description	Price gr.	Price [GBP]	Price [GBP]
		<p>BOSS-3 MULTI V 804/EC-VFC-1PH 80460335</p> <p>Description: Fully automatic self contained three 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>Accessories:</p> <p>Commissioning 80418417 - First item on site 80418428 - Subsequent items on site</p> <p>80460357 - BOSS CAVSA Valve</p> <p>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.</p> <p>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: 3x dedicated pipe mounted electro controllers with two line back lit LCD display and user interface. Contains electronic regulation system utilising pressure, flow sensors and frequency inverter to maintain constant pressure according to the set point pressure (automatic mode). Hand mode also available for pump testing. Electro Controller protects pump against: dry running (if float switch not used), over current, too high water temperature, frost, short-circuits, over/under voltages 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: IP55, 230v terminal box with individual pump MCB's and door interlocked isolator. Additional wiring box with volt free contact for general fault indication. Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. Display: System pressure, set point</p>			



BOSS-3 MULTI V 804/EC-VFC-1PH 80460335

Customer BSS

Project

Customer no.

Project no.

Contact

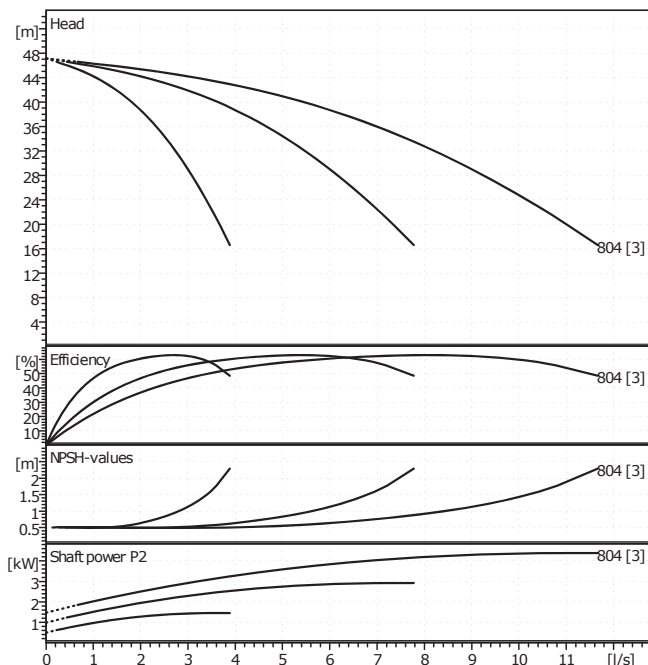
Position no.

Care of

Location

Date

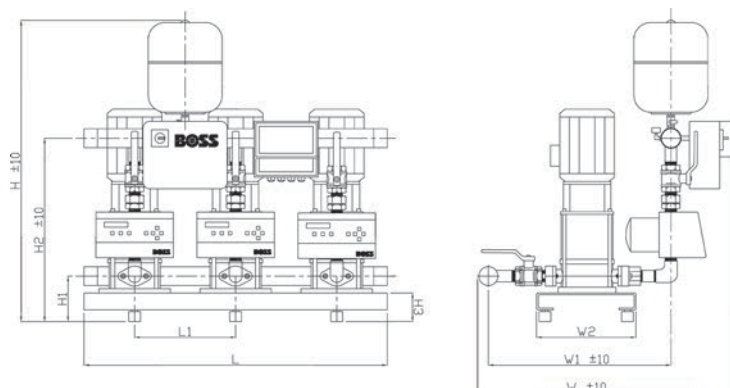
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Optimum selection band (but not limited to):

Flow: 0.4 - 10.0

Head: 24 - 40



Requested data

Flow	0 l/s
Head	0 m
Fluid	Water, pure
Fluid temperature	20 c
Density	998.3 kg/m ³
Kinematic viscosity	1.005 mm ² /s
Vapor pressure	2.337 kPa

Pump data

Make	BOSS
Type	BOSS-3 MULTI V 804/EC-VFC-1PH 80460335
Design	Booster Set
Pumpe 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	2.5" BSP
Discharge side	2.5" BSP
Weight	153 kg

Electrical Data

Rated power P2	4.5 kW
Nominal speed	2900 1/min
Rated voltage	1~230 V, 50 Hz
Max.current/Min.protection	27.0/48.0 A
Degree of protection	IP55
Permitted voltage tolerance +/-	10%

Item no. of standard version	29990404
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**BOSS-3 MULTI V
806/EC-VFC-1PH
80460346**

Customer BSS

Project

Customer no.

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Location

Care of

Date

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Item	Qty.	Description	Price gr.	Price [GBP]	Price [GBP]
		<p>BOSS-3 MULTI V 806/EC-VFC-1PH 80460346</p> <p>Description: Fully automatic self contained three 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>Accessories:</p> <p>Commissioning 80418417 - First item on site 80418428 - Subsequent items on site</p> <p>80460357 - BOSS CAVSA Valve</p> <p>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.</p> <p>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: 3x dedicated pipe mounted electro controllers with two line back lit LCD display and user interface. Contains electronic regulation system utilising pressure, flow sensors and frequency inverter to maintain constant pressure according to the set point pressure (automatic mode). Hand mode also available for pump testing. Electro Controller protects pump against: dry running (if float switch not used), over current, too high water temperature, frost, short-circuits, over/under voltages 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: IP55, 230v terminal box with individual pump MCB's and door interlocked isolator. Additional wiring box with volt free contact for general fault indication. Inverter Alarms: Dry running, over-current, high water temp, frost protection, short circuit, over and under voltage. Display: System pressure, set point</p>			



BOSS-3 MULTI V
806/EC-VFC-1PH
80460346

Customer **BSS**

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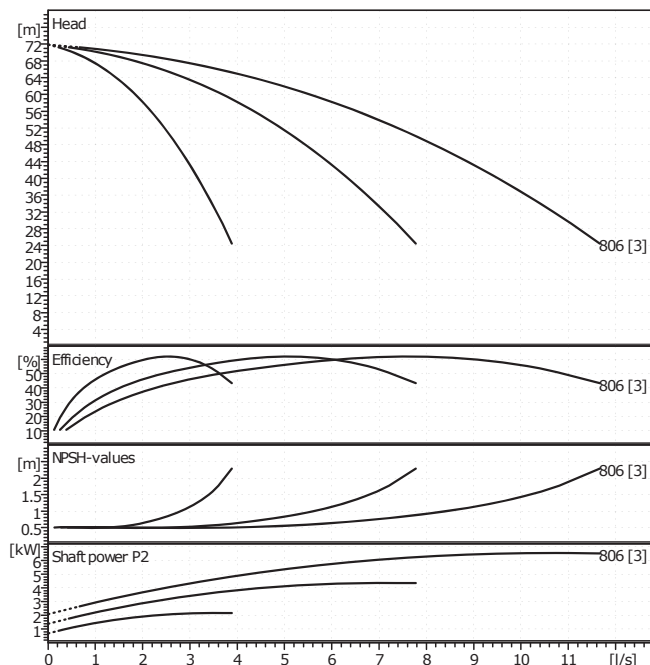
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Position no.

Location

Date

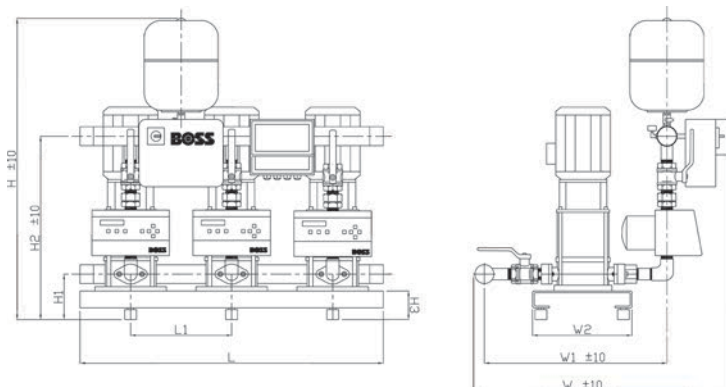
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Optimum selection band (but not limited to):

Flow: 0.4 – 10.8

Head: 32 – 60



Requested data

Flow	0 l/s
Head	0 m
Fluid	Water, pure
Fluid temperature	20 c
Density	998.3 kg/m ³
Kinematic viscosity	1.005 mm ² /s
Vapor pressure	2.337 kPa

Pump data

Make	BOSS
Type	BOSS-3 MULTI V 806/EC-VFC-1PH
Design	80460346
Pumpe type	Booster Set
Pressure rating	Multi-pump set
Min. fluid temperature	PN10
Max. fluid temperature	0 C
	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	2.5" BSP
Discharge side	2.5" BSP
Weight	153 kg

Electrical Data

Rated power P2	6.6 kW
Nominal speed	2900 1/min
Rated voltage	1~230 V, 50 Hz
Max.current/Min.protection	39.0/48.0 A
Degree of protection	IP55
Permitted voltage tolerance +/- 10%	

Item no. of standard version	29990405
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