

BS

Fixed speed pump units**Variable speed pump units with frequency converter**

Index

 calpeda®

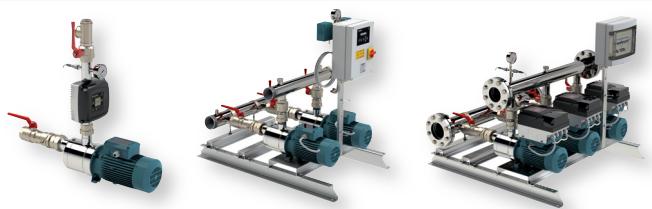


Pressure boosting sets with **NM,NMD**

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BS .F fixed speed 2/3 pumps

variable speed with **I-MAT** 2/3 pumps



Pressure boosting sets with **MXH**

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BS .F fixed speed 2/3 pumps

variable speed with **EASYMAT** 1/3 pumps

variable speed with **I-MAT** 2/3 pumps



Pressure boosting sets with **MPSU**

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variable speed with **EASYMAT** 2/3 pumps



Pressure boosting sets with **MXVB**

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variable speed with **I-MAT** 2/3 pumps



Pressure boosting sets with **MXV**

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BS .F fixed speed 1/3 pumps

variable speed with **I-MAT** 2/3 pumps

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Pressure Boosting Sets

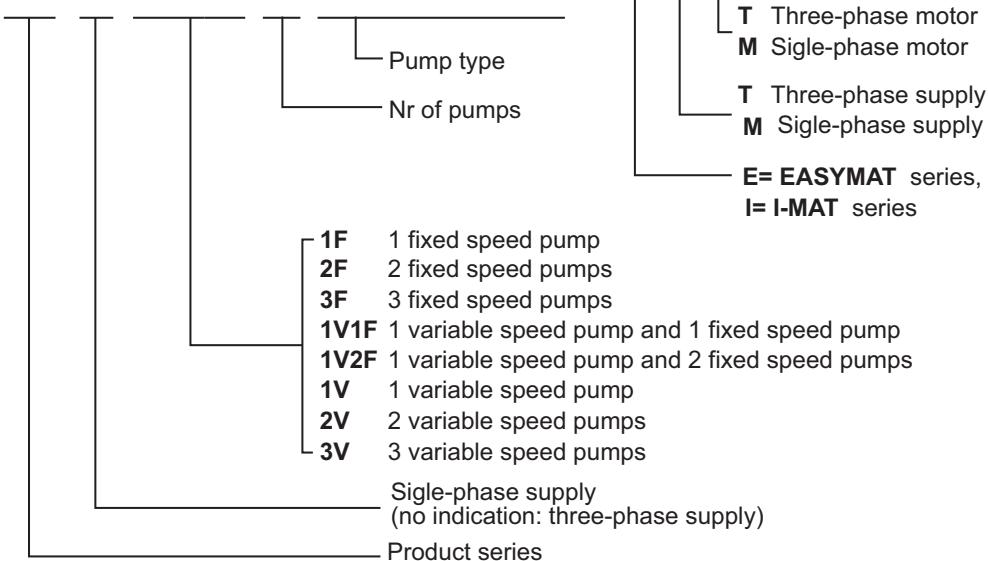


Designation

BS M 2V 2 MXV 25/204 - I TT

BS M 1V 1F 2 MXV 25/204 - E MM

BS M 2F 2 MXV 25/204



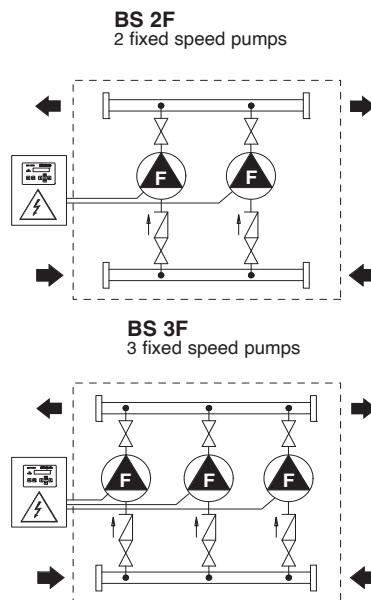
To select a Pressure Boosting Set see technical appendix at page 607.
For booster sets with 4, 5 and 6 pumps contact our Technical Sales Department.

BSF

with 2 and 3 fixed speed pumps

Construction

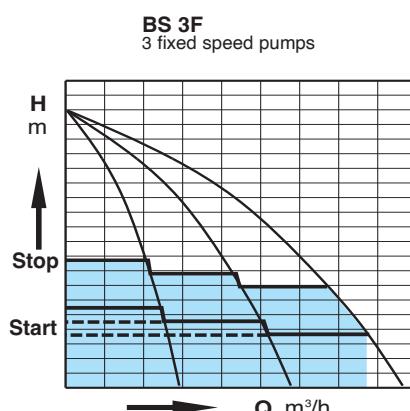
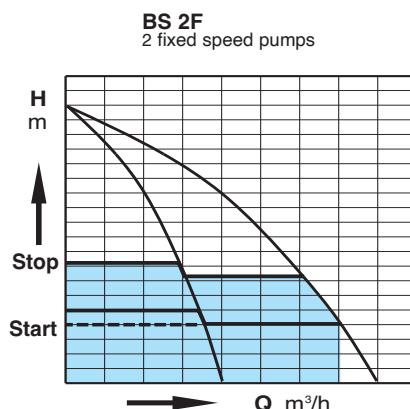
Pressure boosting sets with automatic operation, consisting in 2 and 3 pumps on a common baseplate, with suction and delivery manifolds, gate and non-return valves, pressure switches, pressure gauge, control panel and from 100 to 1000 litres diaphragm tank (on request).



Operation

The control panel, with electronic card, manages the pump operation, the changeover of pump starting sequence and it stops the system when there is no air in the tank (patented system).

Pumps starting in a cascade sequence, with a signal from the pressure switches.

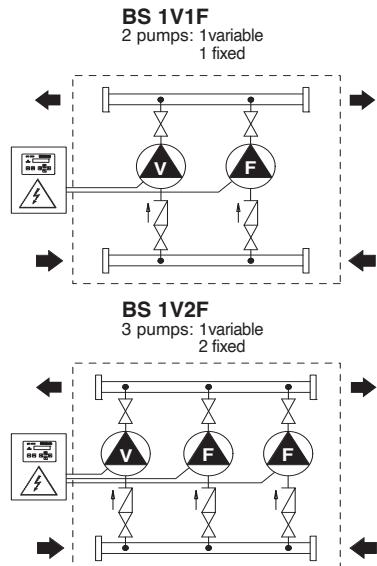


BSV.F.

1 variable speed pump (with frequency converter)
1 to 5 fixed speed pumps

Construction

Pressure boosting sets with automatic operation, consisting of 1 variable speed pump with frequency converter and from 1 to 5 fixed speed pumps, assembled on a common baseplate, with suction and delivery manifolds, gate and non-return valves, pressure gauge, control panel and 20 litres diaphragm tank (on request).

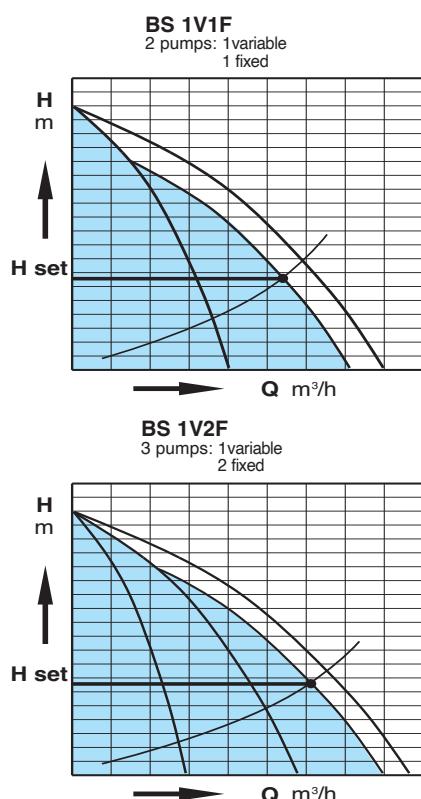


Operation

The control panel, with electronic card, manages the pump operation, the changeover of fixed speed pumps starting sequence

Pumps starting is in a cascade sequence, with a signal from the pressure transducer.

Constant pressure is guaranteed by the variable speed pumps, while fixed speed pumps start when the request is higher than the capacity of the variable speed pump.

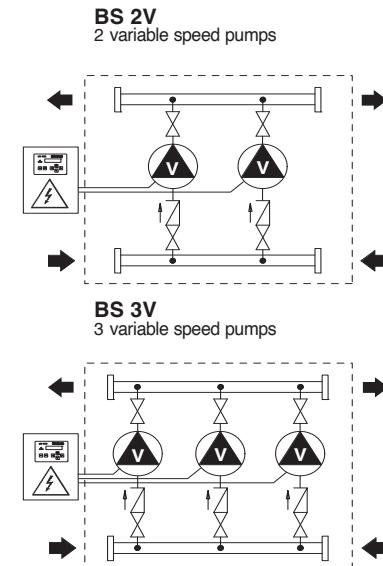


BSV

2-6 variable speed pumps (with frequency converter)

Construction

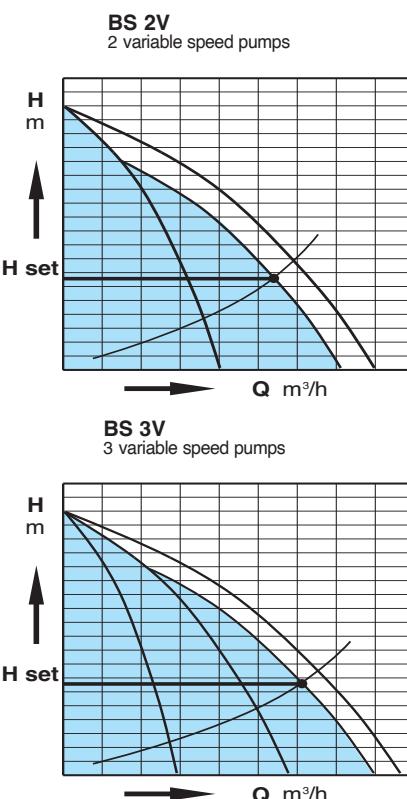
Pressure boosting sets with automatic operation, consisting of variable speed pumps (from 1 to 6) with frequency converter, assembled on a common baseplate, with suction and delivery manifolds, gate and non-return valves, pressure transducer, pressure gauge, control panel and 20 litres diaphragm tank (on request).



Operation

The control panel, with electronic card, manages the pump operation, the changeover of pumps starting sequence.

Pumps starting in a cascade sequence, with a signal from the pressure transducer.



Pressure Boosting Sets



Fixed speed pump units

New electrical control panels for fixed speed pump units.

New electrical control panels for pressurisation units, all with electronic card with microprocessors, for managing pump operation.

The **microprocessor** carries out continuous secure checks during all the various work phases of the pumps and incorporates all necessary functions, thus reducing electrical and electronic components inside the panel.

In particular:

- pumps starting in a cascade sequence according to water demand.
- changeover of pump starting sequence.
- delay start-up of the 2nd/3rd pump in case of breakdown of pressure switch 1 or after a power cut.
- avoid pump starting in case of water hammering.
- activate the alarm when pressure 1 fails.
- activate the alarm when air cushion in the vessel drops.
- stop the pump when air cushion is over.

Maximum clarity for all signals

The status of the unit can easily be identified on the front of the electronic card with the following signals:

- Power on.
- No water.
- Failure.
- Pump running.
- Thermal block.
- Pump automatic operation.
- Pump stop.

Maximum simplicity of control

The front of electronic card features the following signals and controls:

- AUT-STOP push-button (1 for each pump)
- MAN push-button (1 for each pump)
- RESET push-button.

Optional remote control

The RA 100 panel enables a remote warning light and acoustic signal.

Control panel for units up to 6 pumps

Using the MPS 6000 (Multi Pumps System) electronic card it is possible to control pressure units up to a maximum of 6 fixed speed pumps with a single pressure calibration.

Automatic air supply systems

The pump control panels are completed by microprocessor controlled systems for automatic air supply in the pressure vessels by means of a compressor or solenoid valve.

Operation

For booster sets made up to three pumps: according to the pressure decrease in the system, the pressure switches (pressure transducer for 3-pump sets) make the pumps to start in cascade mode and the starting changeover is made by the microprocessor.

For sets made of 4, 5, 6 pumps: Operation controlled by a microprocessor with signal from a pressure transducer. The pumps operate with only one pressure setting.



Pressure Boosting Sets



Variable speed pump units with frequency converter

New electrical control panels for variable speed pump units.

New electrical control panels for pressurisation units with variable speed pumps.

These are indispensable in all those cases where constant pressure is required and when high pressure pumps are being controlled.

All the various working phases are managed and controlled by the MPS 4000 (Multi Pumps System) electronic card with microprocessor, which can operate up to 6 pumps working simultaneously.

Maximum clarity of signals

All the various calibration parameters appear as messages on the display of the MPS 4000 electronic card.

If there are any faults or defects a message appears on the display giving details of the problem.

Possibility of remote control

The pump status can be displayed and the unit can be controlled by means of a special computer program.

It is possible to obtain a remote warning light and acoustic signal on the RA 100 panel.

Constant or increased pressure

All the pumps can work with the same pressure value (set point), or, for systems with high head losses, the pressure can be increased depending on the number of pumps operating.

Silent operation

Motors working at reduced speed and check valves that close gradually mean that operation is particularly quiet.

Long life for pumps

All the mechanical components of the pumps and motors are stressed to a minimum, due to the variable speed operation.

Energy savings

The motors consume only the precise level of power necessary moment to moment, in order to supply the quantity of water required by the system.

No more high capacity vessels

The use of inverters means that high capacity pressure vessels and membrane vessels are no longer necessary. Even units with high flowrate pumps only require a small number of 20 litre membrane vessels.

Great versatility

The great versatility of the MPS 4000 electronic card enables the construction of special units with operational logics different from those of normal pressurisation units, depending on the requirements and characteristics of the systems.

Operation

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.



Pressure Boosting Sets



Variable speed pump units with EASYMAT

EASYMAT

for variable speed pump units.

Variable speed system driven by frequency converter, for the pressure control in domestic and residential plants.

The system maintains constant pressure whilst the controlling the pump operation against changing system demand.

Maximum clarity of signals

Easymat is equipped with a control panel for simple system programming and parameter monitoring.

The **2 scroll buttons** are used to scroll the different operating parameters that EASYMAT can show.

At the same time you can use the 2 scroll buttons to move in the set up menu and to change the different options.

The LCD custom display gives an easy overview of the system situation and of the operating parameters.

The icons on the top and below the display area explain in which way EASYMAT is working and if there are problems on the system.

The four set-up buttons allow the operator to move between and set-up the menu's and to start and stop the pump. The symbols help to make the function of each button clear.

With **these 4 buttons and the 2 scroll buttons** you can manage all the set-up and operating parameters without the use of an other control panel or computer



Operation

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.



CONSTANT PRESSURE MODE:

The system keeps the pressure constant when the quantity of water requested by the user changes.
The user can choose the operating pressure according his needs.



FIXED SPEED MODE:

The system works at a fixed speed that user can choose according his needs.

The system is connected to the delivery pipe providing for simple installation and better cooling (patented) making the unit more compact and easy to assemble.

Easymat is supplied with one pressure transducer, G 1/4 connection and 1.5 m cable length.

For protection of the pumps:

- Against dry running
- Against operations with closed connection ports
- Against overcurrent of the motor
- Against overvoltage and undervoltage of the power supply

Silent operation

Motors working at reduced speed and check valves that close gradually mean that operation is particularly quite.

Long life for pumps

All the mechanical components of the pumps and motors are stressed to a minimum, due to the variable speed operation.

Energy savings

The motors consume only the precise level of power necessary moment to moment, in order to supply the quantity of water required by the system.

No more high capacity vessels

The use of inverters means that high capacity pressure vessels and membrane vessels are no longer necessary. Even units with high flowrate pumps only require a small number of 20 litre membrane vessels.

Pressure Boosting Sets



Variable speed pump units with I-MAT

I-MAT

for variable speed pump units.

Variable speed system driven by frequency converter, for the pressure control in domestic and residential plants.

The system maintains constant pressure whilst the controlling the pump operation against changing system demand.

Maximum clarity of signals

I-MAT is equipped with a control panel that allows to carry out the set-up of the system and to monitor all system parameters. The control panel is inside a IP55 enclosure which is possible to rotate and install in remote positions.

It is possible use the control panel in remote positions by means a cable with M12 connectors (standard cable).

The LCD custom display gives an easy overview of the system situation and of the operating parameters.

The icons on the top and below the display area explain in which way I-MAT is working and if there are some problems on the system.

The 2 scroll buttons are used to scroll the different operating parameters that I-MAT can show. At the same time you can use the 2 scroll buttons to move in the set up menu and to change the different options.

The 4 set-up buttons are created to enter and to move on the set-up menus and to start and to stop the pump. The symbols help to understand the function of each button. With these 4 buttons and the 2 scroll buttons you can manage all the set-up and operating parameters without the use of another control panel or computers.



Operation

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.



Constant pressure mode

Constant pressure keeps the pressure constant at a fixed value set by the user. This value of pressure is automatically kept by the system to provide to the final user a constant pressure even with different water demand, within the maximum performance of the motor-pump system.



Proportional pressure modes

Proportional pressure reduces the pressure of the pump (and as a consequence, the operating frequency) proportionally with the water demand of the system.



Constant temperature mode

In this operating mode the system is used to keep the temperature at a constant value in a specified system point.



Constant flow mode

Constant flow mode grants that system change the speed of the pump in order to keep constant the flow which pass inside a flow meter.



Fixed speed mode

In this operating mode the system work as a fixed speed pump. The speed of the pump could be set by the user between a range of speeds, or controlled by an external signal.



Night mode

The night mode is an optional mode which allows to reduce the speed of the pump if the temperature in the system decreases below a set value, this operating mode can be used with all operating modes over described.

Silent operation

Motors working at reduced speed and check valves that close gradually mean that operation is particularly quite.

Long life for pumps

All the mechanical components of the pumps and motors are stressed to a minimum, due to the variable speed operation.

Energy savings

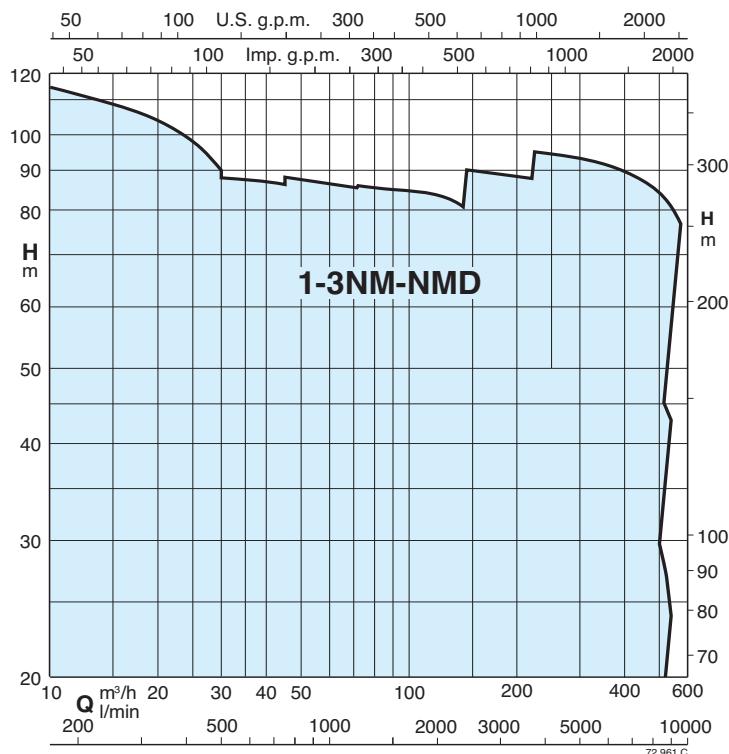
The motors consume only the precise level of power necessary moment to moment, in order to supply the quantity of water required by the system.

No more high capacity vessels

The use of inverters means that high capacity pressure vessels and membrane vessels are no longer necessary. Even units with high flowrate pumps only require a small number of 20 litre membrane vessels.



Coverage chart



Operation

BS 2-6F Pressure boosting sets with 2 to 6 fixed speed pump.

Sets with 4,5 and 6 pumps on request.

Depending on the reduction of the pressure in the system, the pressure switches (pressure transducer for 3-pump sets) determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS2-3V Pressure boosting sets with 2 to 3 variable speed pumps (with I-MAT).

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Construction

- Automatic pressure boosting plant consisting of 1 to 6 centrifugal pumps complete with ball, non return valve on the suction side and ball valves on the delivery side.

Suction and delivery manifolds for boosting sets with 2,3 pumps:

- stainless steel AISI 304 up to 2NM 40.. and 3NM 32...
- steel S235JR from 2NM 50.. and 3NM 40... .

Connections are located on the delivery manifold for the installation of vessels G1 connection.

Electrical control boards:

- with microprocessor for fixed speed pump units. Motor starting is D.O.L. up to 5,5 kW and Y/Δ for power rating 7,5 up to 55 kW.
- with frequency converter for variable speed pump units.

The unit includes one pressure gauge and three adjustable differential pressure switches or pressure transducer.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n \approx 2900$ rpm, suitable for operation with frequency converter.

- Three-phase 230/400V $\pm 10\%$ up to 3 kW;
- 400/690V $\pm 10\%$ for 4 kW to 55 kW;

Insulation class F.

Protection IP 54.

Constructed in accordance with: IEC 60034.

Other voltages and frequencies on request.

Vessels on request

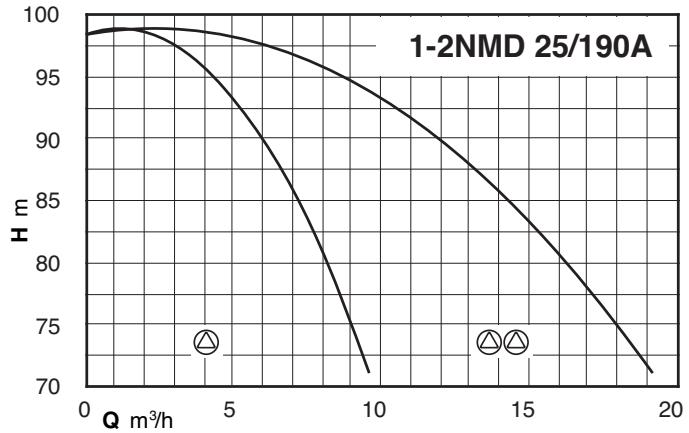
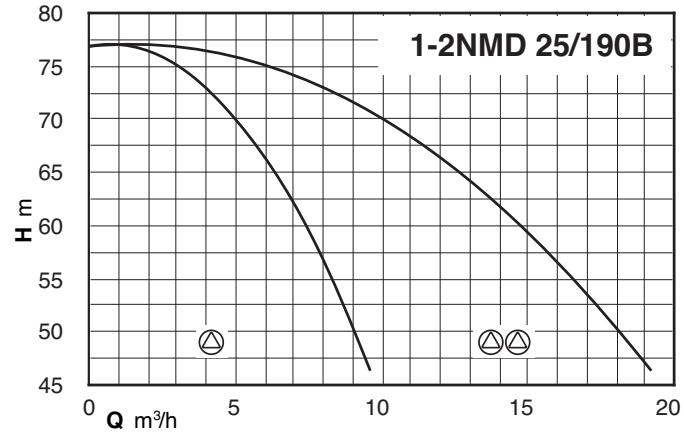
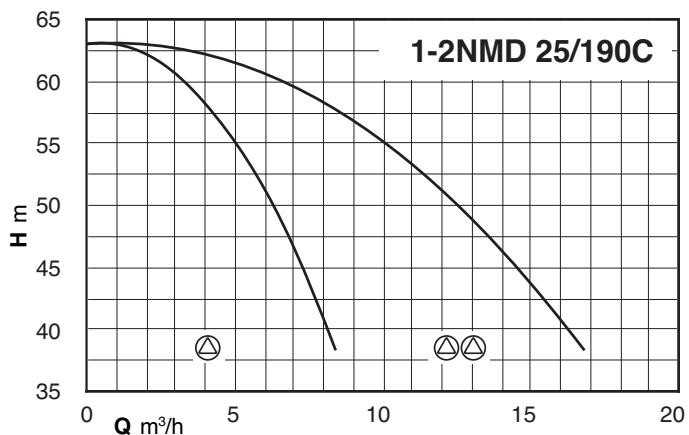
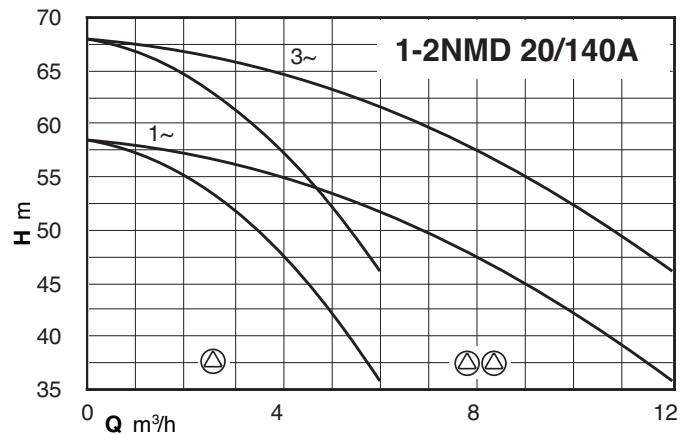
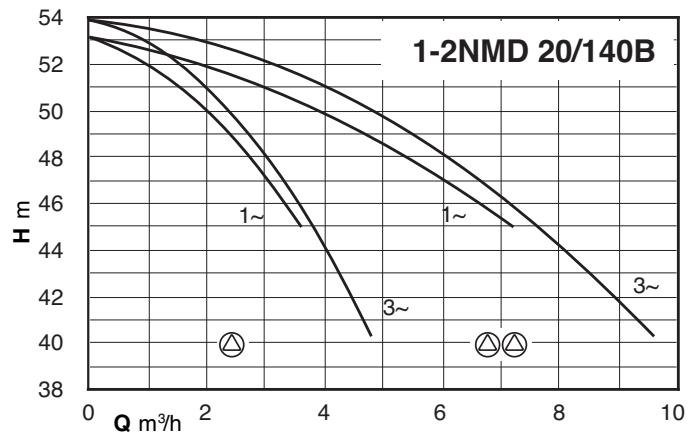
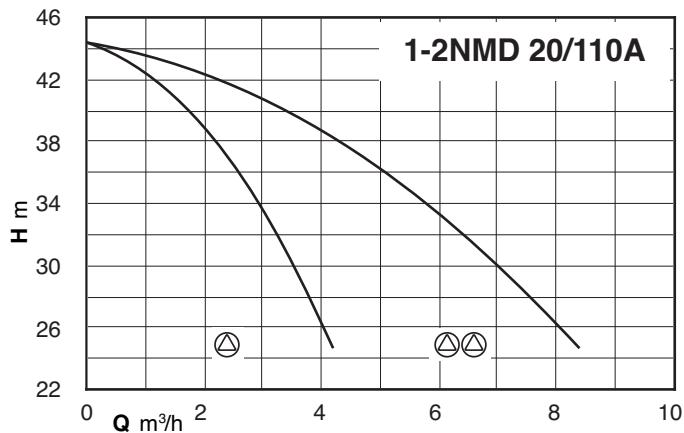
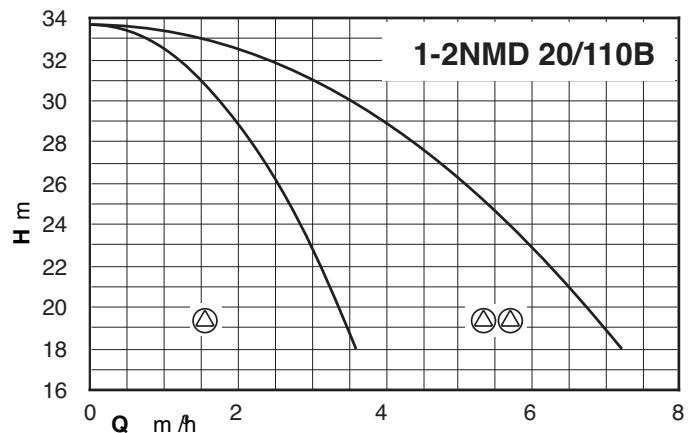
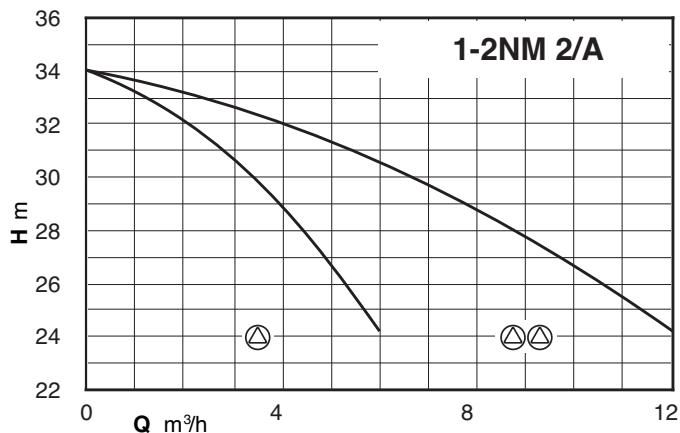
When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.

The recommended sizes are shown in the following page.

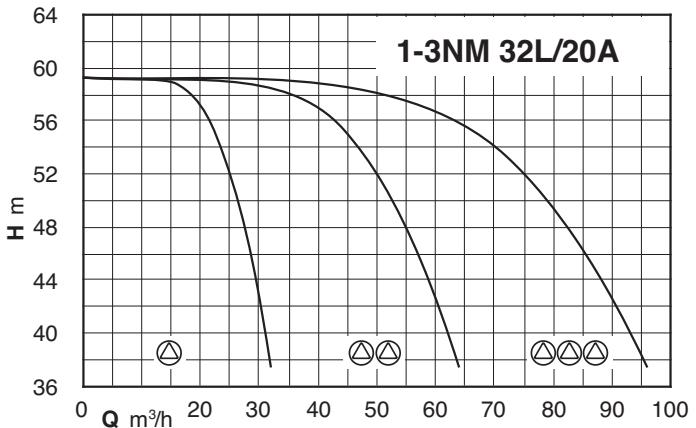
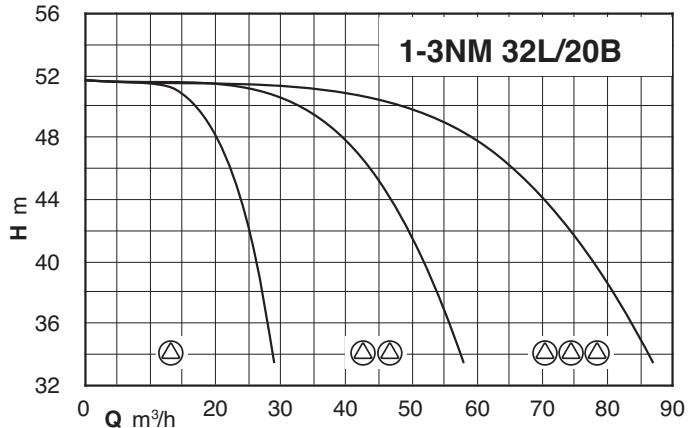
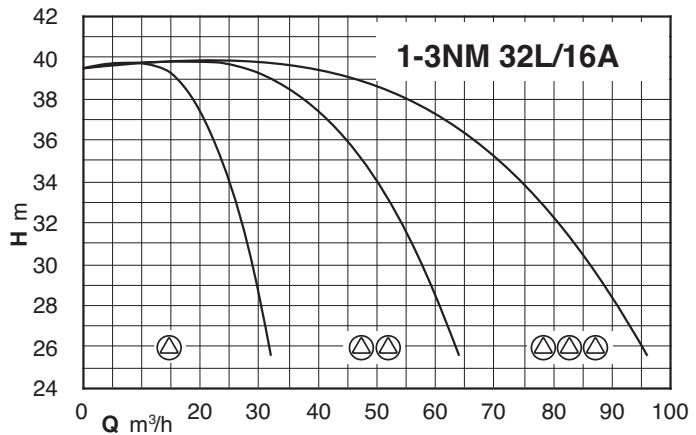
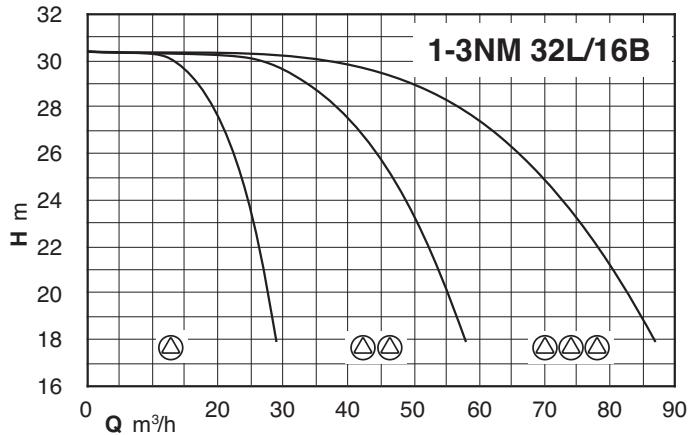
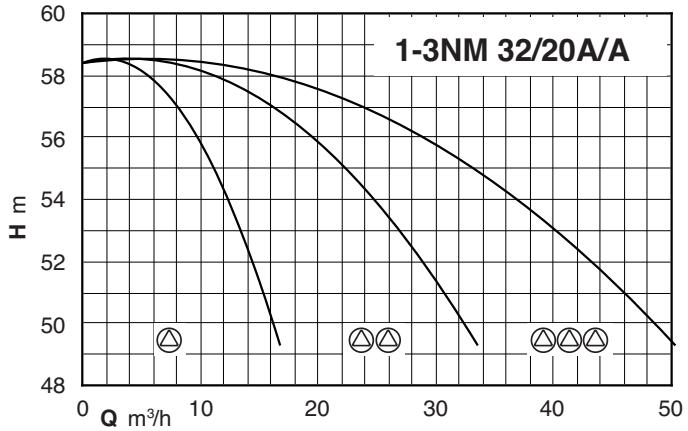
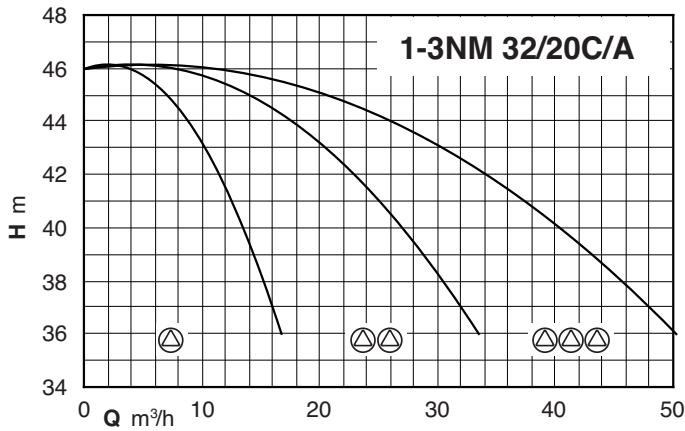
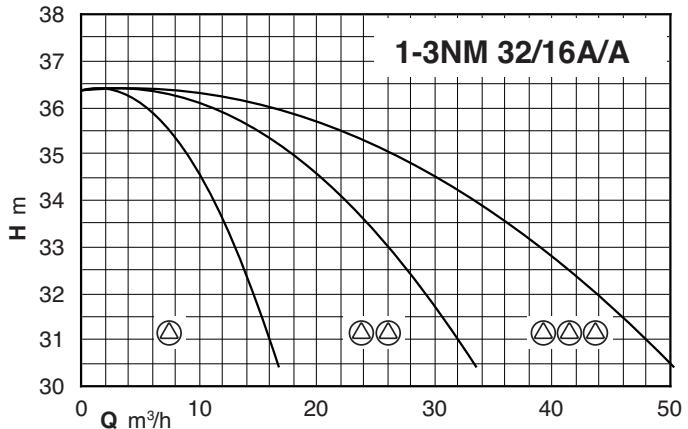
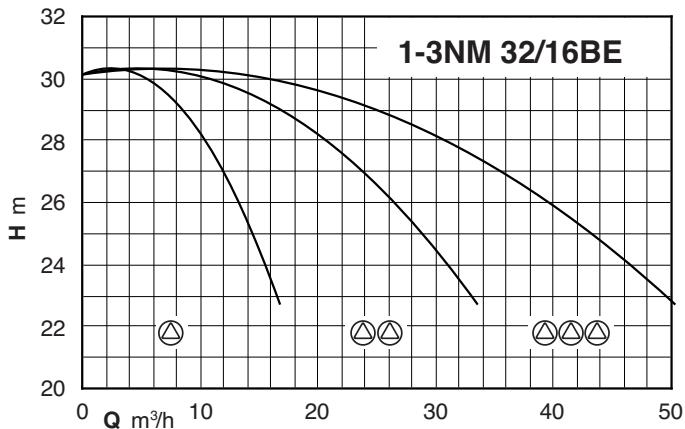
Special features on request

Pressure boosting sets with 4,5 and 6 pumps.

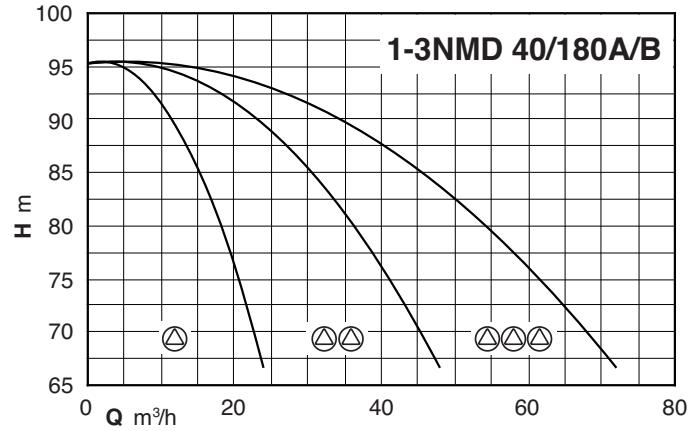
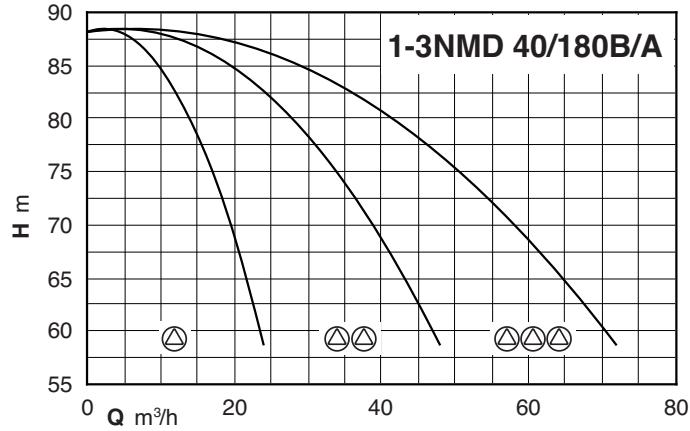
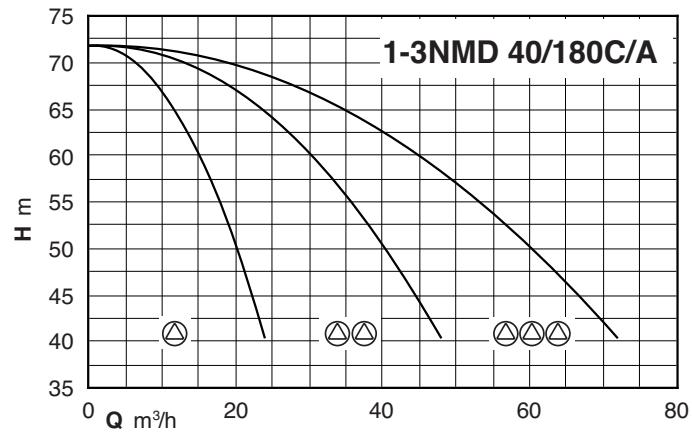
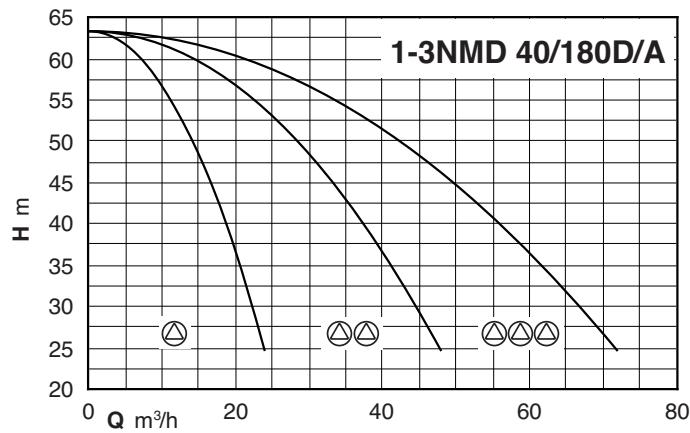
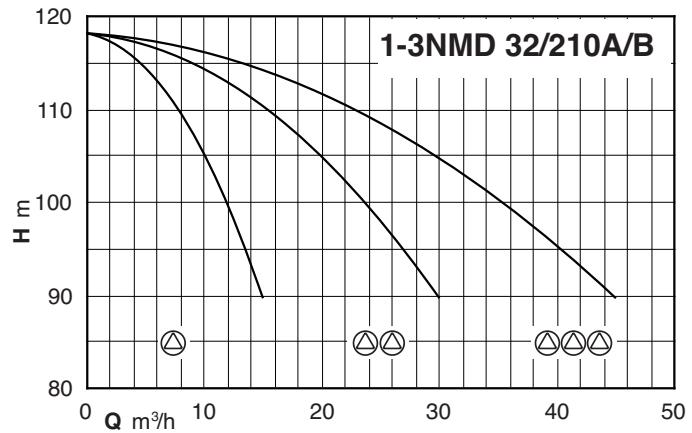
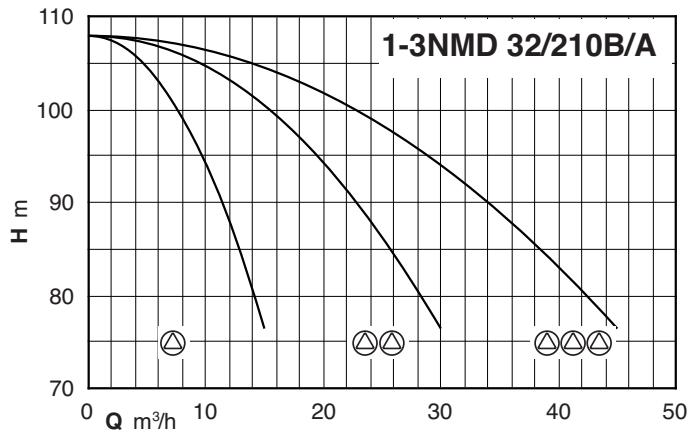
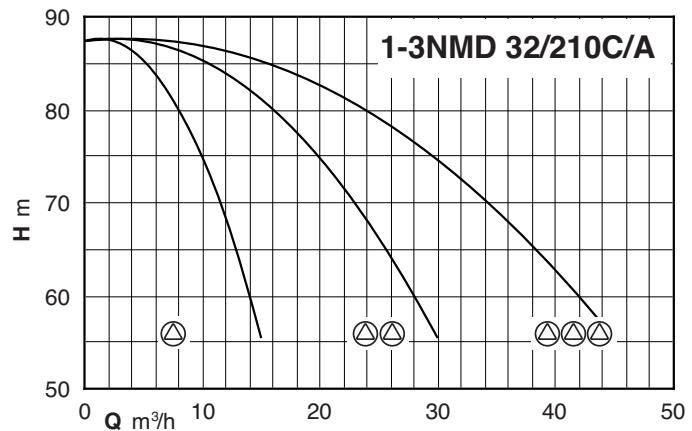
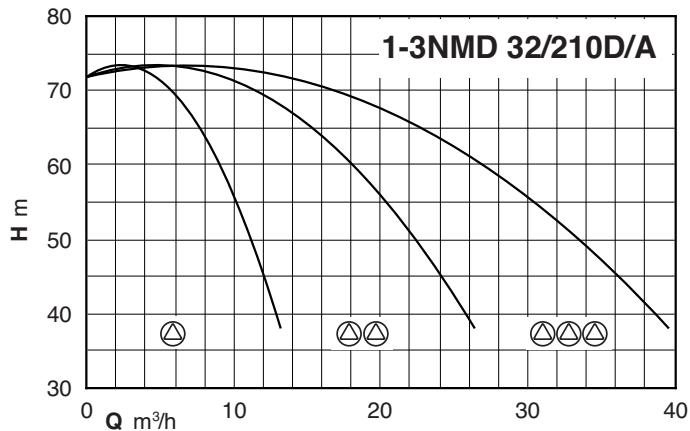
Coverage chart



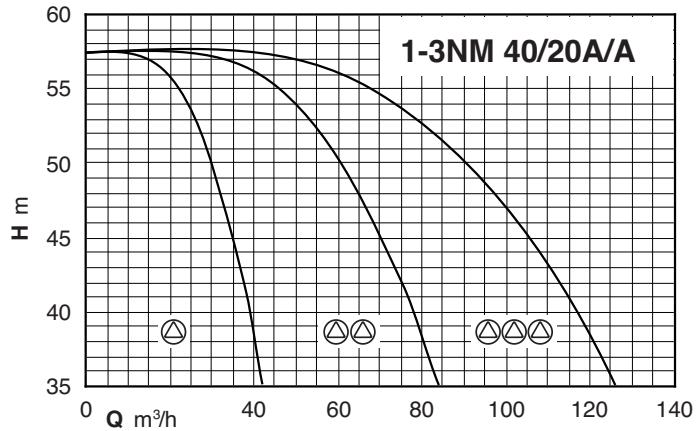
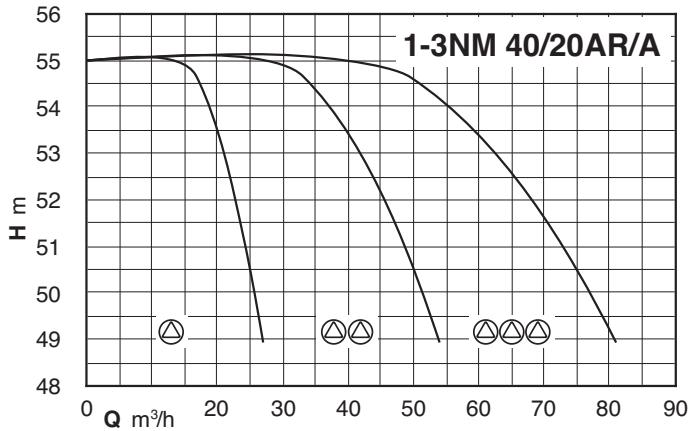
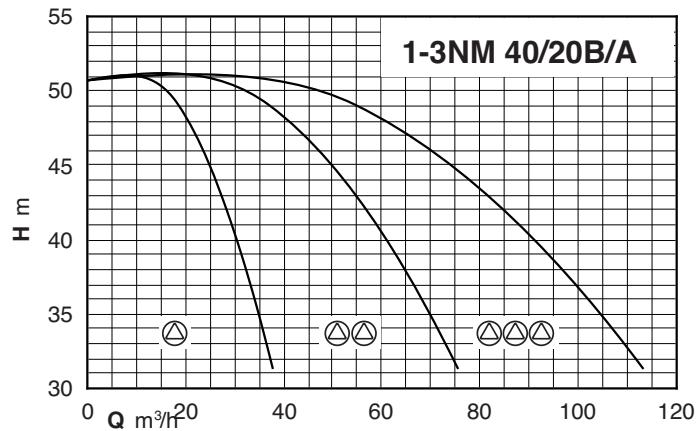
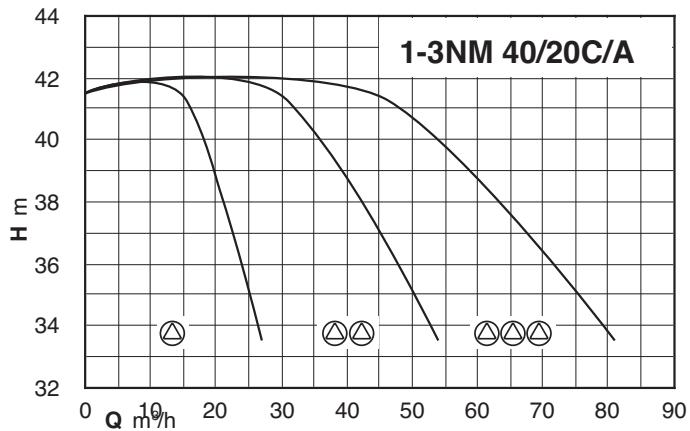
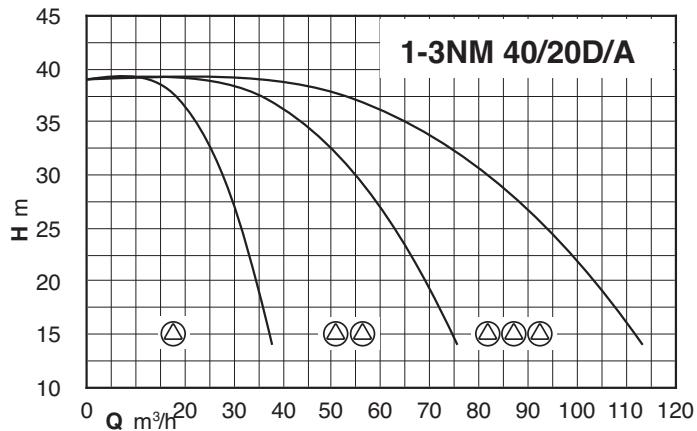
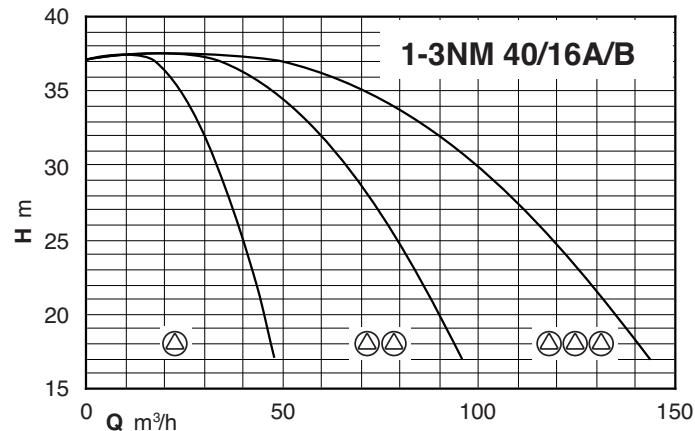
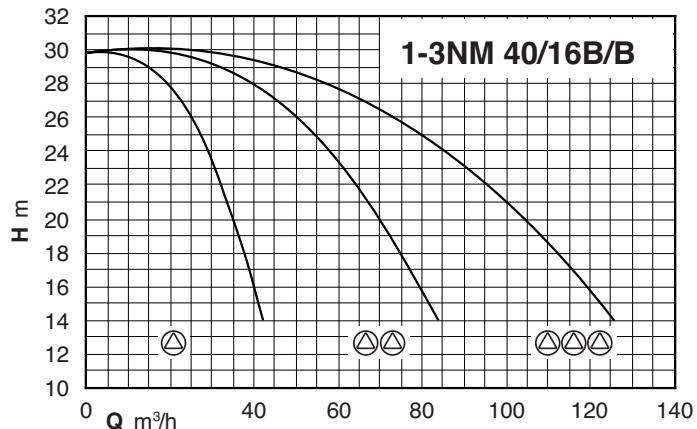
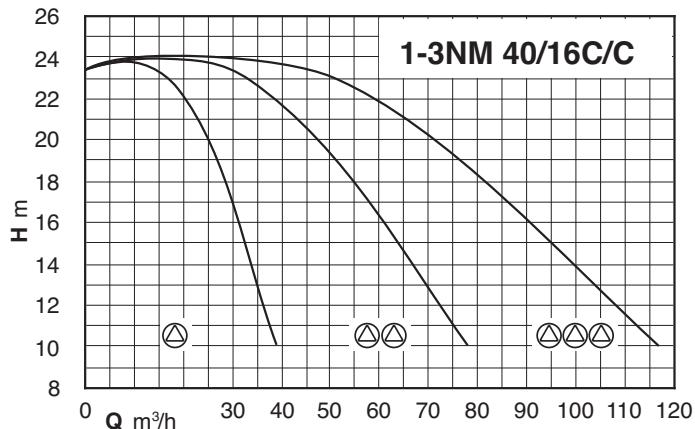
Coverage chart



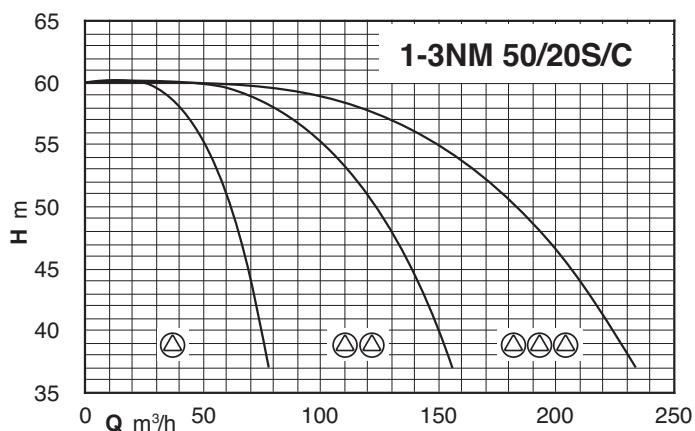
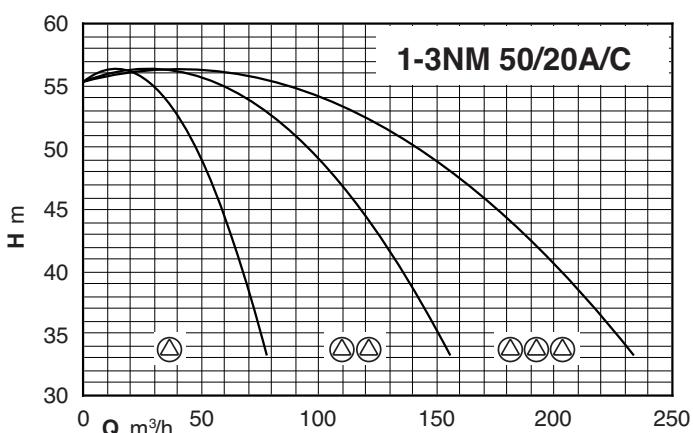
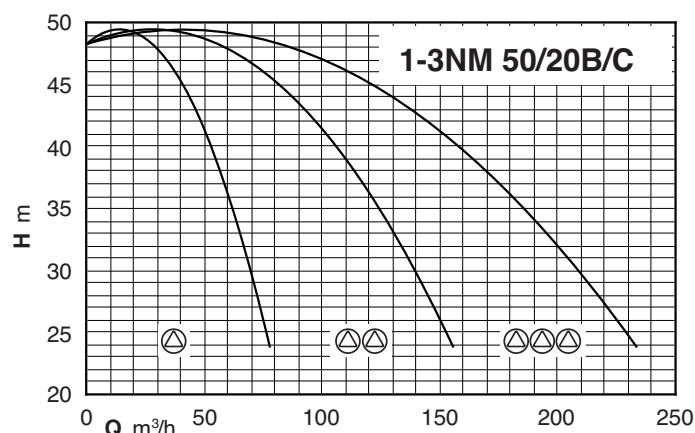
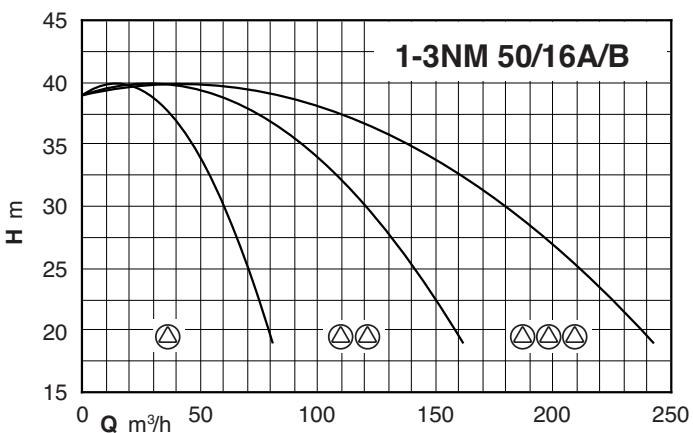
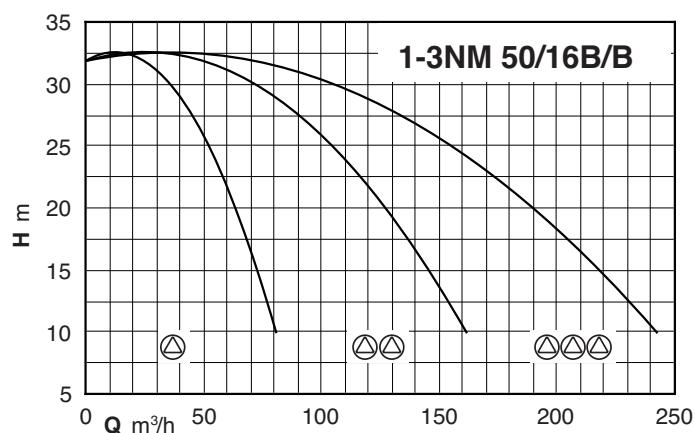
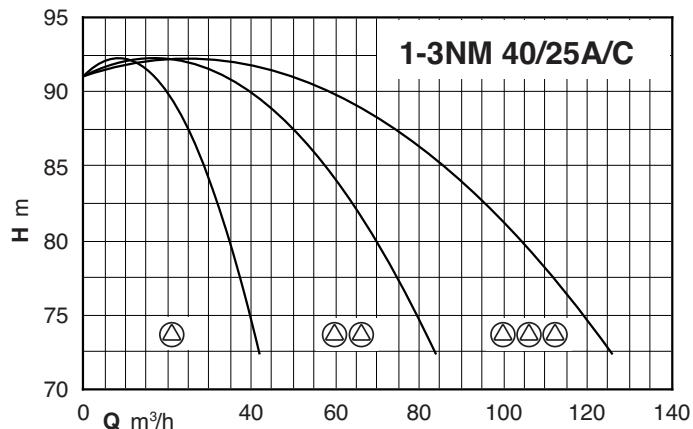
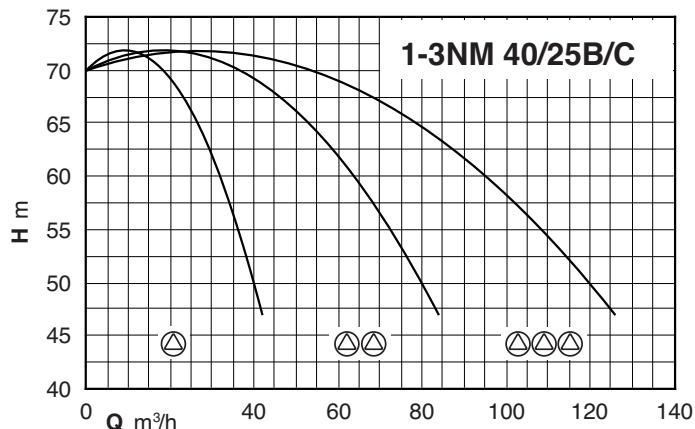
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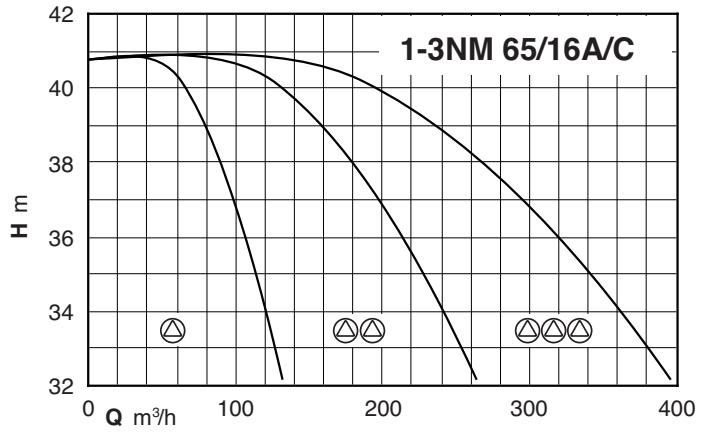
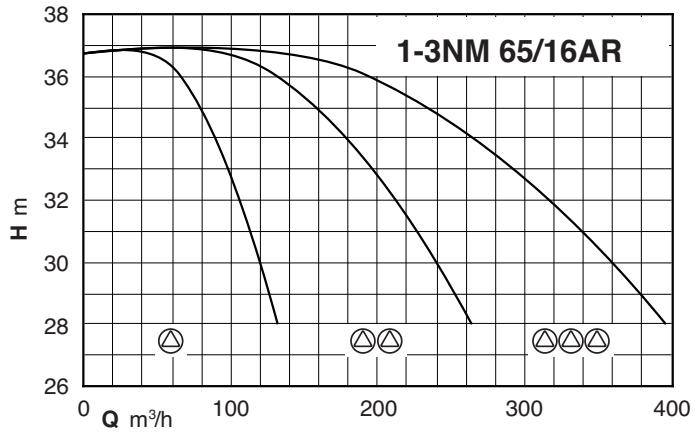
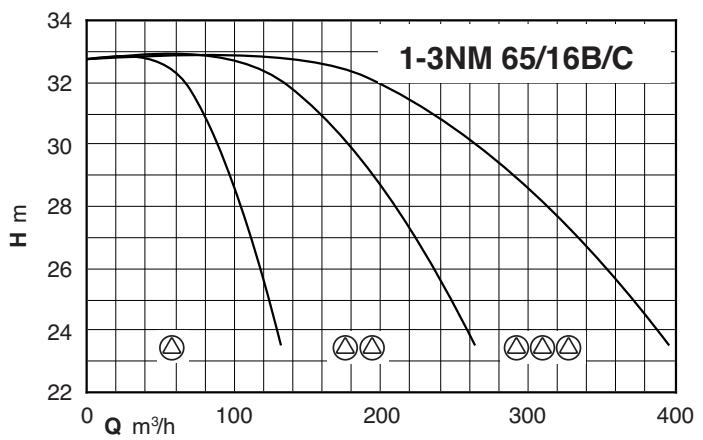
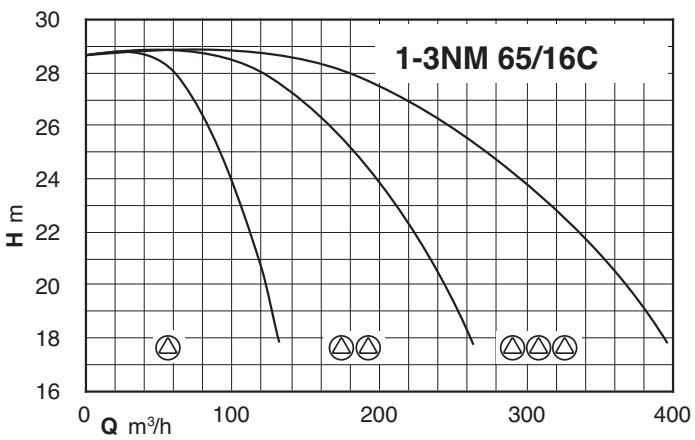
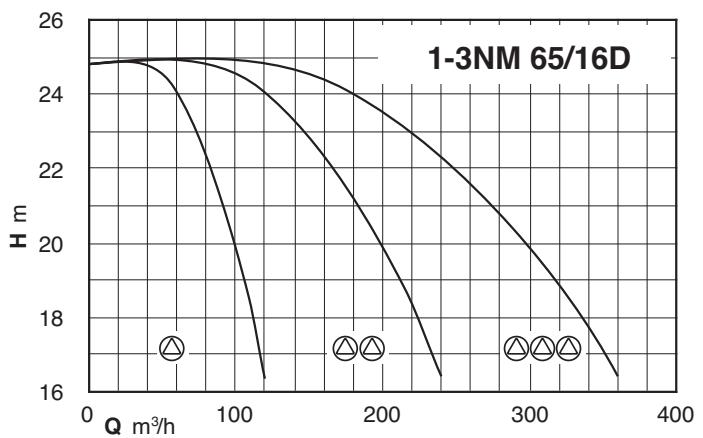
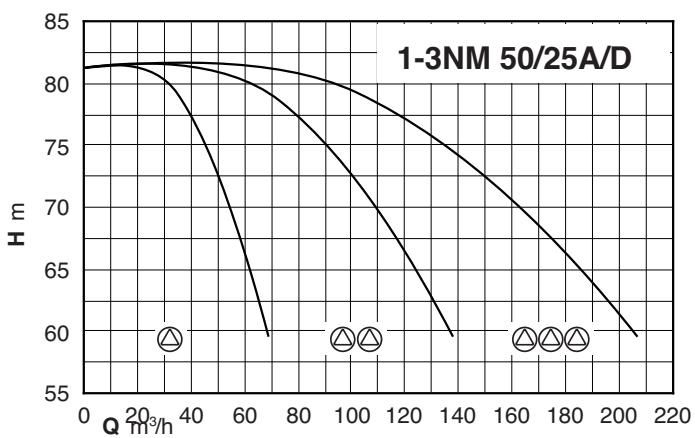
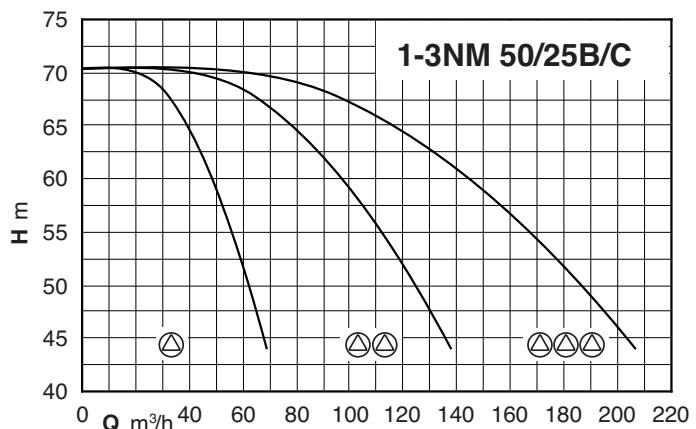
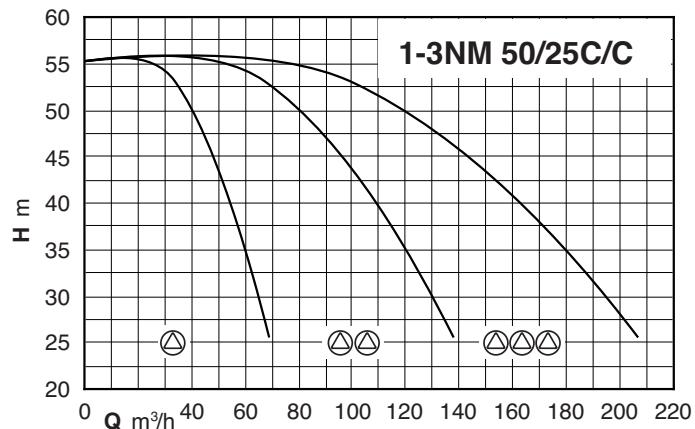
Coverage chart



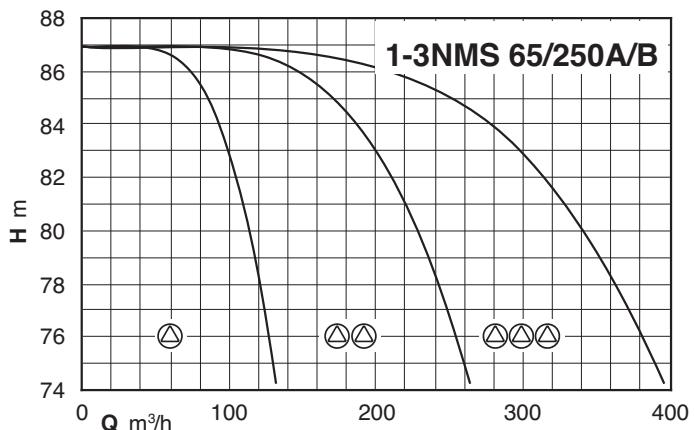
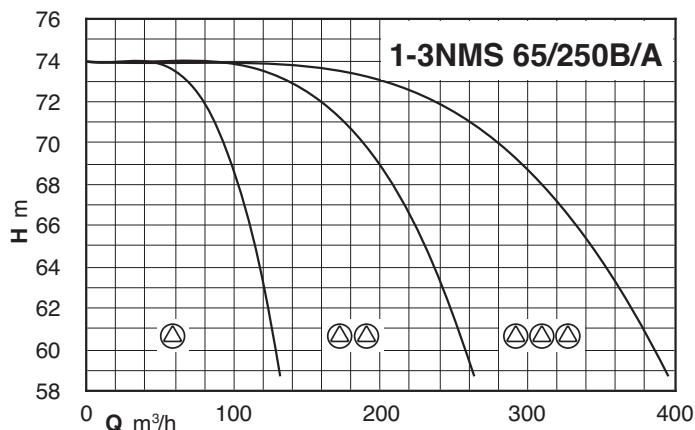
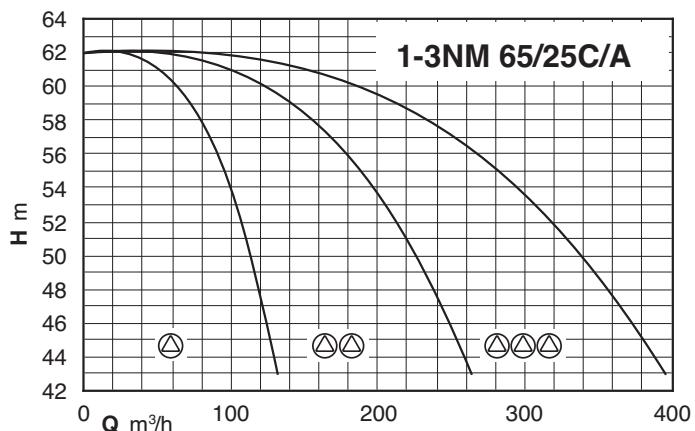
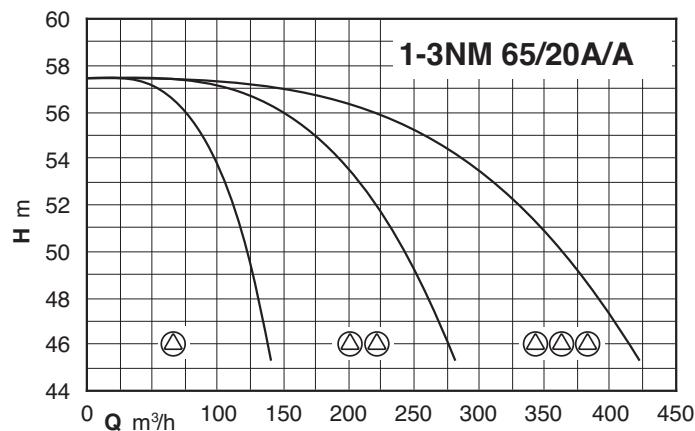
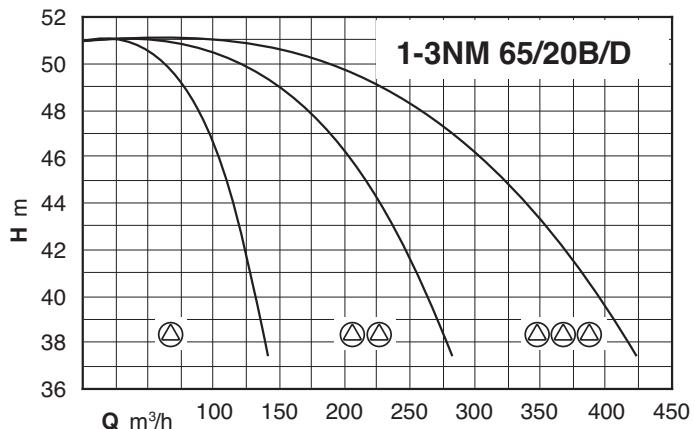
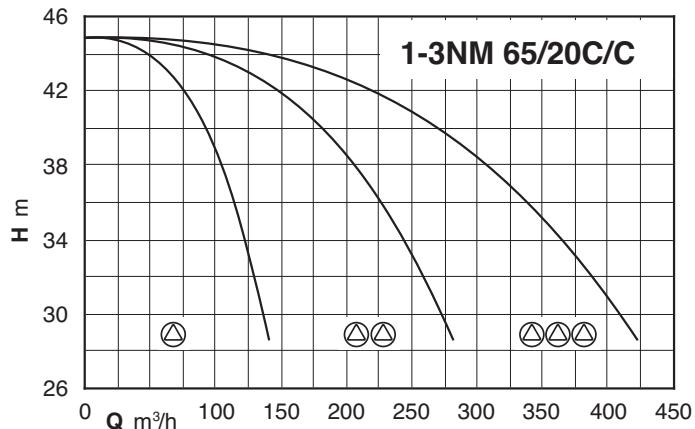
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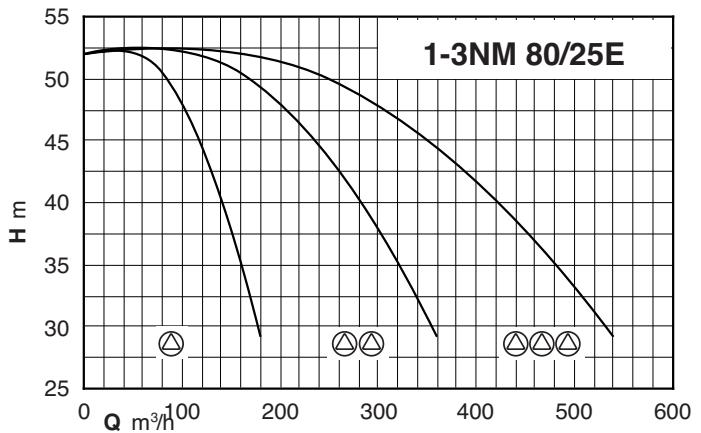
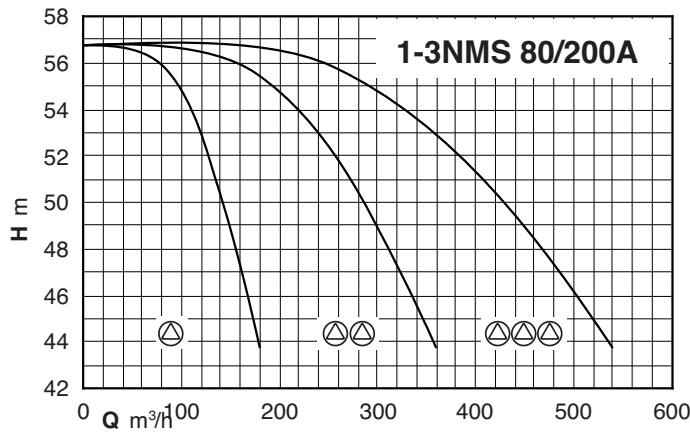
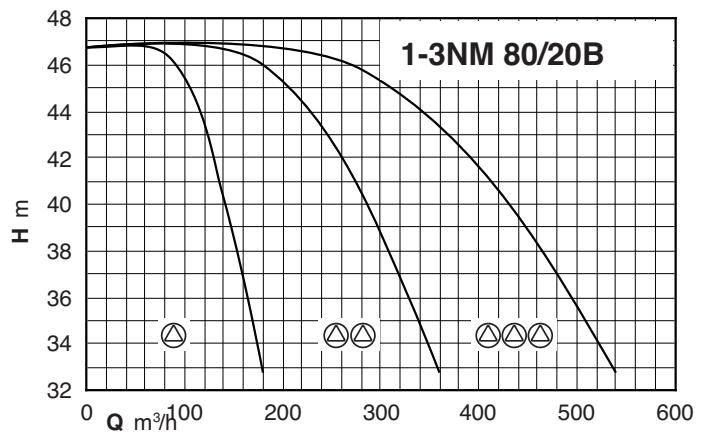
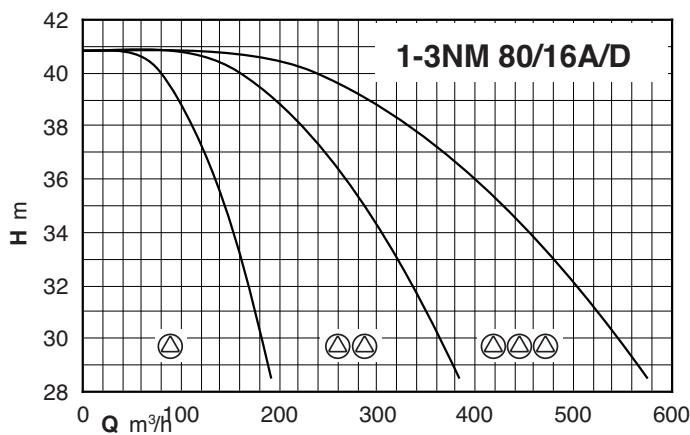
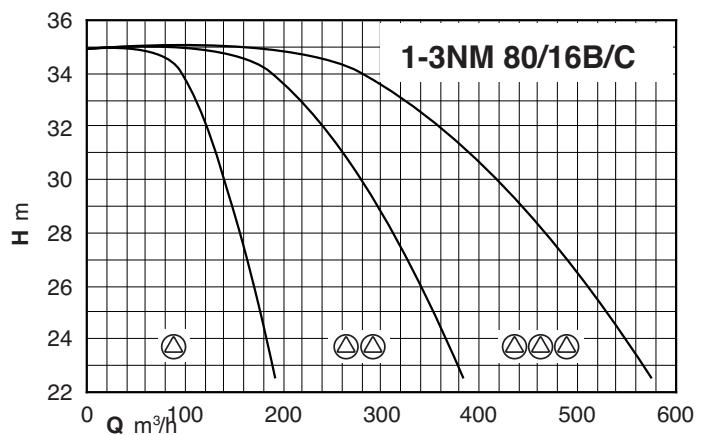
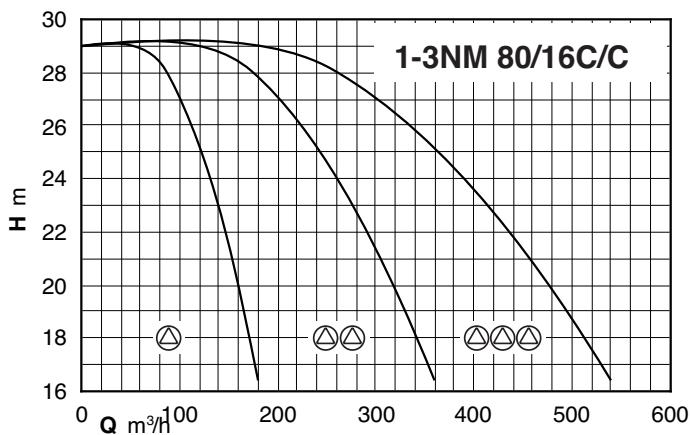
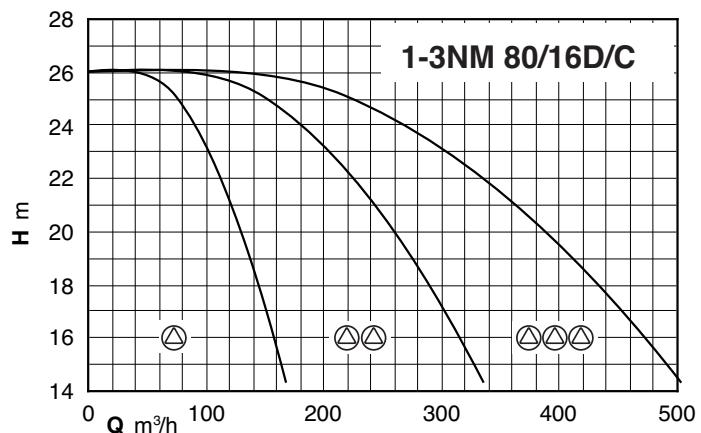
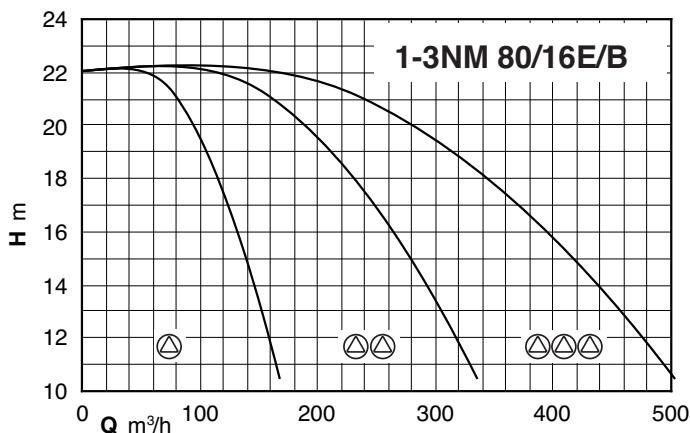
Coverage chart



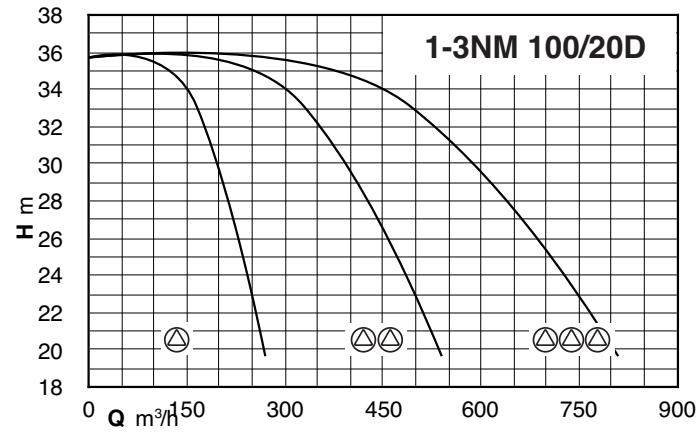
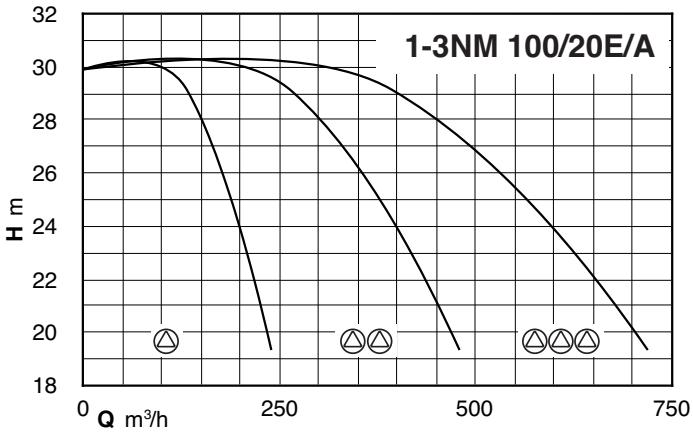
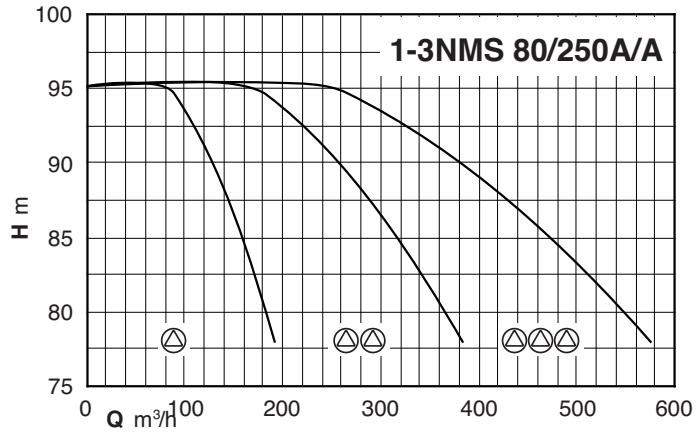
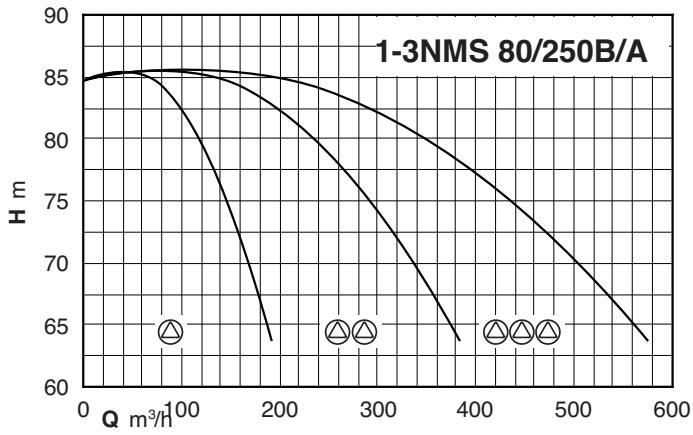
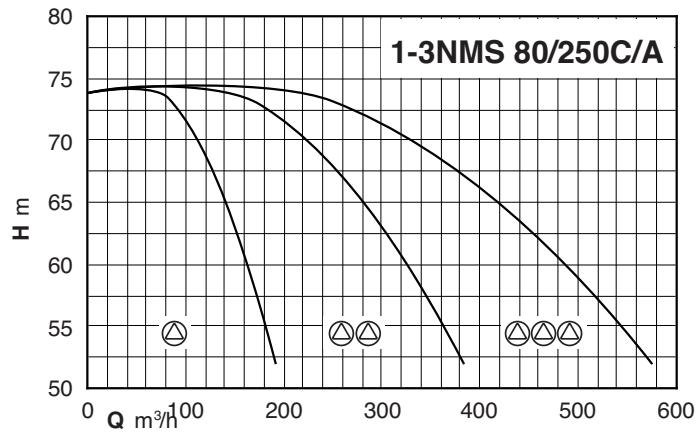
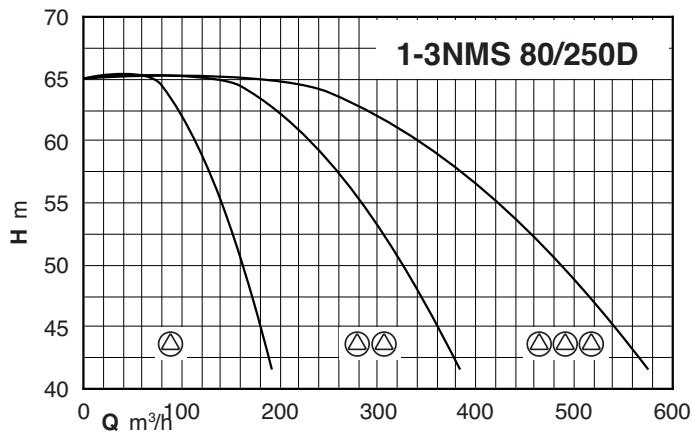
Coverage chart



Coverage chart



Coverage chart



Performance

BS2F

Mains: 400V 3~ Motor: 400V 3~	Motor		Pres. switch 1 bar		Pres. switch 2 bar		Vessel Membrane litre	Vessel litre
	kW	HP	min	max	min	max		
BS2F 2NMD 20/110B/A	0,45 x2	0,6 x2	2.1	2.9	1.8	2.6	24x2	100
BS2F 2NMD 20/110A/B	0,75 x2	1 x2	3	3.9	2.7	3.6	60	100
BS2F 2NMD 20/140B/A	1,1 x2	1,5 x2	3.3	4.8	3	4.5	80	200
BS2F 2NMD 20/140A/A	1,5 x2	2 x2	4.3	6	4.1	5.7	100	200
BS2F 2NMD 25/190C/B	2,2 x2	3 x2	3.9	5.5	3.7	5.2	200	300
BS2F 2NMD 25/190B/A	3 x2	4 x2	5	6.8	4.8	6.5	200	300
BS2F 2NMD 25/190A/B	4 x2	5,5 x2	6.8	8.8	6.5	8.5	300	500
BS2F 2NM 32/16B/A	1,5 x2	2 x2	1.8	2.6	1.5	2.3	500	800
BS2F 2NM 32/16A/B	2,2 x2	3 x2	2.4	3.2	2.1	2.9	500	1000
BS2F 2NM 32/20C/A	3 x2	4 x2	3.1	4	2.8	3.7	500	1000
BS2F 2NM 32/20A/B	4 x2	5,5 x2	3.6	5.2	3.3	4.9	750	1000
BS2F 2NM 32L/16B	3 x2	4 x2	1.9	2.7	1.6	2.4	750	1500
BS2F 2NM 32L/16A	4 x2	5,5 x2	2.8	3.6	2.5	3.3	1000	2000
BS2F 2NM 32L/20B	5,5 x2	7,5 x2	3.2	4.7	2.9	4.4	750	1000
BS2F 2NM 32L/20A	7,5 x2	10 x2	3.7	5.4	3.5	5.1	1000	1500
BS2F 2NMD 32/210D/B	4 x2	5,5 x2	4.7	6.4	4.4	6.1	500	500
BS2F 2NMD 32/210C/A	5,5 x2	7,5 x2	5.7	7.6	5.5	7.3	500	800
BS2F 2NMD 32/210B/A	7,5 x2	10 x2	7.3	9.4	7	9.1	750	1000
BS2F 2NMD 32/210A/B	9,2 x2	12,5 x2	8.8	10.3	8.5	10	1000	1500
BS2F 2NM 40/180D/B	4 x2	5,5 x2	3.8	5.4	3.5	5.1	500	1000
BS2F 2NMD 40/180C/A	5,5 x2	7,5 x2	4.5	6.2	4.3	5.9	750	1500
BS2F 2NMD 40/180B/A	7,5 x2	10 x2	5.9	7.8	5.7	7.5	1000	2000
BS2F 2NMD 40/180A/B	9,2 x2	12,5 x2	6.5	8.5	6.2	8.2	1500	2000
BS2F 2NM 40/16B/B	3 x2	4 x2	1.8	2.6	1.5	2.3	750	1500
BS2F 2NM 40/16A/C	4 x2	5,5 x2	2.5	3.3	2.2	3	1000	2000
BS2F 2NM 40/20B/A	5,5 x2	7,5 x2	3	4.5	2.7	4.2	1500	3000
BS2F 2NM 40/20A/A	7,5 x2	10 x2	3.6	5.1	3.3	4.8	2000	4000
BS2F 2NM 40/25B/C	11 x2	15 x2	4.5	6.2	4.3	5.9	3000	5000
BS2F 2NM 40/25A/C	15 x2	20 x2	6.1	8.1	5.9	7.8	4000	-
BS2F 2NM 50/16B/B	5,5 x2	7,5 x2	2	2.8	1.7	2.5	2000	4000
BS2F 2NM 50/16A/B	7,5 x2	10 x2	2.6	3.4	2.3	3.1	3000	5000
BS2F 2NM 50/20B/C	9,2 x2	12,5 x2	3.4	4.3	3.1	4	3000	5000
BS2F 2NM 50/20A/C	11 x2	15 x2	3.3	4.9	3.1	4.6	4000	-
BS2F 2NM 50/25C/C	11 x2	15 x2	3.4	4.9	3.1	4.6	4000	-
BS2F 2NM 50/25B/C	15 x2	20 x2	4.5	6.2	4.2	5.9	4000	-
BS2F 2NM 50/25A/D	18,5 x2	25 x2	5.4	7.2	5.1	6.9	5000	-
BS2F 2NM 65/16B/C	11 x2	15 x2	2.1	2.9	1.8	2.6	4000	-
BS2F 2NM 65/16AR	15 x2	15 x2	2.4	3.2	2.1	2.9	5000	-
BS2F 2NM 65/16A/C	15 x2	15 x2	2.8	3.6	2.5	3.3	5000	--
BS2F 2NM 65/20C/C	15 x2	20 x2	3	3.9	2.7	3.6	-	-
BS2F 2NM 65/20B/D	18,5 x2	25 x2	2.9	4.4	2.6	4.1	-	-
BS2F 2NM 65/20A/A	22 x2	30 x2	3.5	5	3.2	4.7	-	-
BS2F 2NM 65/25C/A	22 x2	30 x2	4.1	5.7	3.8	5.4	-	-
BS2F 2NMS 65/250B/A	30 x2	40 x2	5.3	7.1	5	6.8	-	-
BS2F 2NMS 65/250A/B	37 x2	50 x2	6.1	8.1	5.9	7.8	-	-
BS2F 2NM 80/16B/C	15 x2	20 x2	2.3	3.1	2	2.8	-	-
BS2F 2NM 80/16A/D	18,5 x2	25 x2	2.7	3.5	2.4	3.2	-	-
BS2F 2NM 80/20B	22 x2	30 x2	3.2	4.1	2.9	3.8	-	-
BS2F 2NMS 80/200A	30 x2	40 x2	3.4	5	3.1	4.7	-	-
BS2F 2NM 80/25E	22 x2	30 x2	3	4.5	2.7	4.2	-	-
BS2F 2NMS 80/250D	30 x2	40 x2	4.1	5.8	3.9	5.5	-	-
BS2F 2NMS 80/250C/A	37 x2	50 x2	4.8	6.6	4.5	6.3	-	-
BS2F 2NMS 80/250B/A	45 x2	60 x2	5.7	7.6	5.4	7.3	-	-
BS2F 2NMS 80/250A/A	55 x2	75 x2	6.6	8.6	6.3	8.3	-	-

Performance

BS3F

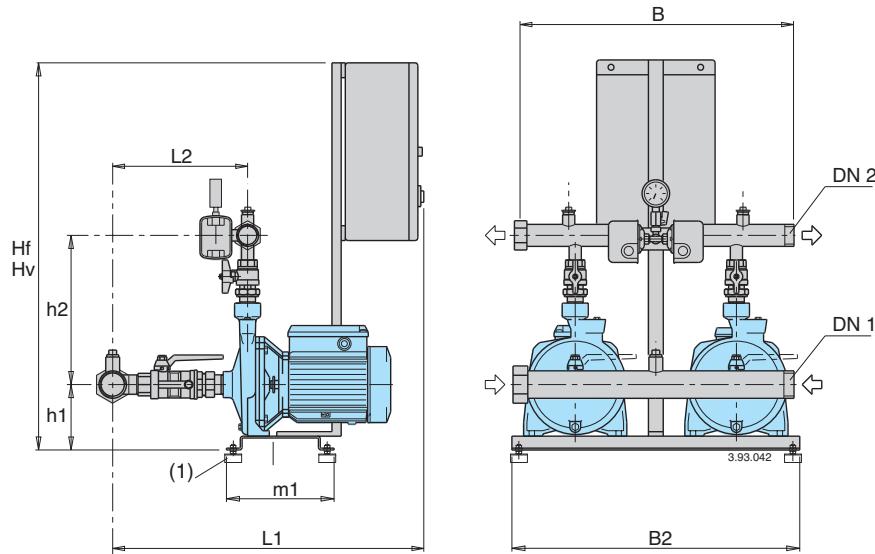
Mains: 400V 3~ Motor: 400V 3~	Motor		pressure transducer bar		Vessel Membrane litre	Vessel litre
	kW	HP	min	max		
BS3F 3NM 32L/16B	3 x2	4 x2	1,3	2,7	750	2000
BS3F 3NM 32L/16A	4 x2	5,5 x2	2,2	3,6	750	2000
BS3F 3NM 32L/20B	5,5 x2	7,5 x2	2,6	4,7	750	2000
BS3F 3NM 32L/20A	7,5 x2	10 x2	3,2	5,4	750	2000
BS3F 3NM 40/16B/B	3 x3	4 x3	1,8	2,6	750	2000
BS3F 3NM 40/16A/C	4 x3	5,5 x3	2,5	3,3	1500	3000
BS3F 3NM 40/20B/A	5,5 x3	7,5 x3	3	4,5	1000	2000
BS3F 3NM 40/20A/A	7,5 x3	10 x3	3,5	5,1	1500	3000
BS3F 3NM 40/25B/C	11 x3	15 x3	4,5	6,2	2000	3000
BS3F 3NM 40/25A/C	15 x3	20 x3	6,1	8,1	3000	4000
BS3F 3NM 50/16B/B	5,5 x3	7,5 x3	2	2,8	2000	4000
BS3F 3NM 50/16A/B	7,5 x3	10 x3	2,6	3,4	3000	6000
BS3F 3NM 50/20B/C	9,2 x3	12,5 x3	3,4	4,3	-	6000
BS3F 3NM 50/20A/C	11 x3	15 x3	3,4	4,9	3000	5000
BS3F 3NM 50/25C/C	11 x3	15 x3	3,4	4,9	3000	5000
BS3F 3NM 50/25B/C	15 x3	20 x3	4,5	6,2	-	6000
BS3F 3NM 50/25A/D	18,5 x3	25 x3	5,4	7,2	-	8000
BS3F 3NM 65/16B/C	11 x3	15 x3	2,1	2,9	-	10000
BS3F 3NM 65/16AR	15 x3	20 x3	2,4	3,2	-	-
BS3F 3NM 65/16A/C	15 x3	20 x3	2,8	3,6	-	-
BS3F 3NM 65/20C/C	15 x3	20 x3	3	3,9	-	-
BS3F 3NM 65/20B/D	18,5 x3	25 x3	2,9	4,4	-	-
BS3F 3NM 65/20A/A	22 x3	30 x3	3,5	5	-	-
BS3F 3NM 65/25C/A	22 x3	30 x3	4	5,7	-	-
BS3F 3NMS 65/250B/A	30 x3	40 x3	5,3	7,1	-	-
BS3F 3NMS 65/250A/A	37 x3	50 x3	6,1	8,1	-	-
BS3F 3NM 80/16B/C	15 x3	20 x3	2,3	3,1	-	-
BS3F 3NM 80/16A/C	18,5 x3	25 x3	2,7	3,5	-	-
BS3F 3NM 80/20B	22 x3	30 x3	3,2	4,1	-	-
BS3F 3NMS 80/200A	30 x3	40 x3	3,4	4,9	-	-
BS3F 3NM 80/25E	22 x3	30 x3	3	4,5	-	-
BS3F 3NMS 80/250D	30 x3	40 x3	4,1	5,8	-	-
BS3F 3NMS 80/250C/A	37 x3	50 x3	4,8	6,6	-	-
BS3F 3NMS 80/250B/A	45 x3	60 x3	5,7	7,6	-	-
BS3F 3NMS 80/250A/A	55 x3	75 x3	6,6	8,6	-	-

Performance

BS.. ..-ITT

PUMPS Nos		PUMP TYPE	P_2 For each pump	
2	3		kW	HP
BS2V -ITT	BS3V -ITT	NM 32/16B/A-ITT	1,5	2
		NM 32/16A/B-ITT	2,2	3
		NM 32/20D/B-ITT	2,2	3
		NM 32/20C/A-ITT	3	4
		NM 32/20A/B-ITT	4	5,5
		NM 32L/16B-ITT	3	4
		NM 32L/16A-ITT	4	5,5
		NM 32L/20B-ITT	5,5	7,5
		NM 32L/20A-ITT	7,5	10
		NM 40/16C/C-ITT	2,2	3
		NM 40/16B/B-ITT	3	4
		NM 40/16A/C-ITT	4	5,5
		NM 40/20D/B-ITT	4	5,5
		NM 40/20C/B-ITT	4	5,5
		NM 40/20B/A-ITT	5,5	7,5
		NM 40/20AR/A-ITT	5,5	7,5
		NM 40/20A/A-ITT	7,5	10
		NM 40/25C/C-ITT	9,2	12,5
		NM 40/25B/C-ITT	11	15
		NM 40/25A/C-ITT	15	20
		NM 50/16B/B-ITT	5,5	7,5
		NM 50/16A/B-ITT	7,5	10
		NM 50/20B/C-ITT	9,2	12,5
		NM 50/20A/C-ITT	11	15
		NM 50/20S/C-ITT	15	20
		NM 50/25C/C-ITT	11	15
		NM 50/25B/C-ITT	15	20
		NM 50/25A/D-ITT	18,5	25
		NM 65/16D/B-ITT	7,5	10
		NM 65/16C/C-ITT	9,2	12,5
		NM 65/16B/C-ITT	11	15
		NM 65/16AR-ITT	15	20
		NM 65/16A/C-ITT	15	20
		NM 65/20C/C-ITT	15	20
		NM 65/20B/D-ITT	18,5	25
		NM 65/20A/A-ITT	22	30
		NM 65/25C/A-ITT	22	30
		NM 80/16E/B-ITT	7,5	10
		NM 80/16D/C-ITT	9,2	12,5
		NM 80/16C/C-ITT	11	15
		NM 80/16B/C-ITT	15	20
		NM 80/16A/D-ITT	18,5	25
		NM 80/20B-ITT	22	30
		NM 80/25E-ITT	22	30
		NM 100/20E/A-ITT	18,5	25
		NM 100/20D-ITT	22	30

Dimensions and weights



TYPE	Connection		mm									weight kg
	DN 1	DN 2	H_f	H_v	h_1	h_2	L_1	L_2	m_1	B	B_2	
BS.. 2NMD 20/110B/A	G 2	G 1 1/2	840		129	277	670	315	235	600	625	51
BS.. 2NMD 20/110A/B					129	277	670	315				55
BS.. 2NMD 20/140B/A	G 2	G 1 1/2	840		146	295	670	320				72
BS.. 2NMD 20/140A/A					146	295	670	320				77
BS.. 2NMD 25/190C/B					175	330	760	407				71
BS.. 2NMD 25/190B/A	G 2 1/2	G 2	840		175	330	760	407	235	600	625	76
BS.. 2NMD 25/190A/B					175	330	760	407				108
BS.. 2NM 32/16B/A	G 3	G 2 1/2	830	1210	266	345	304	389	476	600	625	123
BS.. 2NM 32/16A/B			830	1210	266	345	304	389				132
BS.. 2NM 32/20C/A	G 3	G 2 1/2	830	1210	294	365	324	389				
BS.. 2NM 32/20A/B			830	1210	294	365	324	389	476	600	625	
BS.. 2NMD 32/210D/B			890	1270	245			420				
BS.. 2NMD 32/210C/A			890	1370	272	380	460	440				
BS.. 2NMD 32/210B/A	G 3	G 2 1/2	1370	1370	272	460	440	550	700	800		
BS.. 2NMD 32/210A/B			1370	1670	307			515				
BS.. 2NMD 40/180D/B			890	1270	245			415				
BS.. 2NMD 40/180C/A			890	1370	272	460	475	435				
BS.. 2NMD 40/180B/A	G 3	G 2 1/2	1370	1370	272	460	475	435	550	700	800	
BS.. 2NMD 40/180A/B			1370	1670	307			510				

Dimensions not binding to be verified when ordering

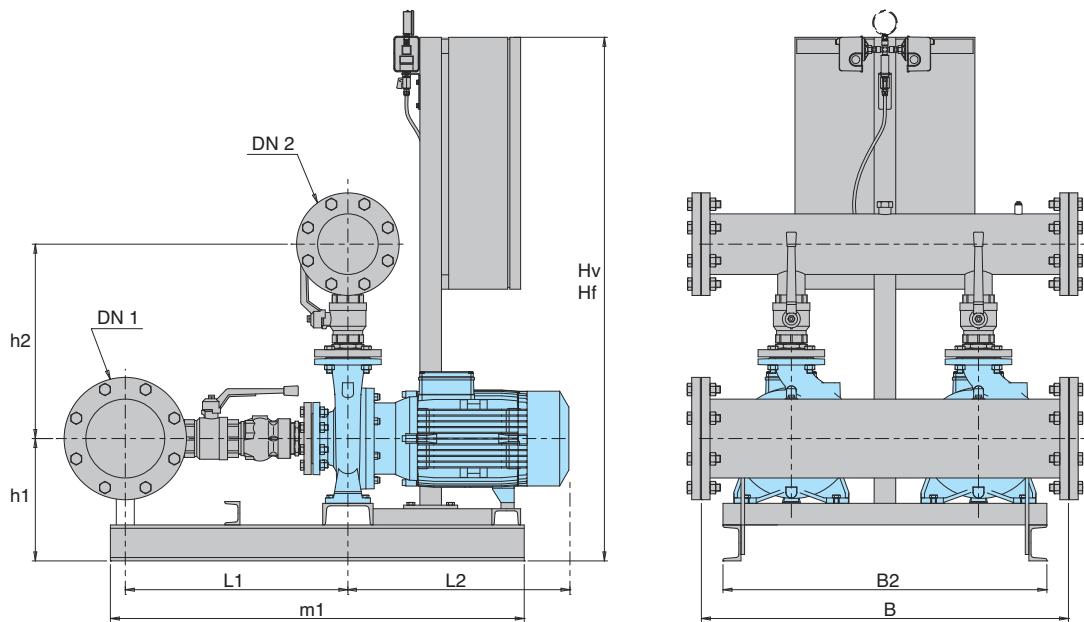
(1) Anti-vibration pads kit supplied loose as standard

Dimensions on request

Hf= Fixed speed boosting sets

Hv= Variable speed boosting sets

Dimensions and weights



TYPE	Connection		mm									weight kg
	DN 1	DN 2	Hf	Hv	h1	h2	L1	L2	m1	B	B2	
BS.. 2NM 32L/16B	100	80	830	1210	280	387	487	330	476	820	800	-
BS.. 2NM 32L/16A			830	1210	280			370				
BS.. 2NM 32L/20B	100	80	830	1310	320	407	507	395				
BS.. 2NM 32L/20A			1310	1310	320			395				
BS.. 2NM 40/16B/B	100	80	830	1210	280	387	487	395				
BS.. 2NM 40/16A/C			830	1210	280			395				
BS.. 2NM 40/20B/A	100	80	830	1310	320	407	507	425				
BS.. 2NM 40/20A/A			1310	1310	320			425				
BS.. 2NM 40/25B/C	100	80	1455	1755	340	452	507	540				
BS.. 2NM 40/25A/C			1455	1755	340			615				
BS.. 2NM 50/16B/B	125	100	975	1455	315	435	515	425				
BS.. 2NM 50/16A/B			1455	1455	315			425				
BS.. 2NM 50/20B/C	125	100	1455	1755	315	455	515	540				
BS.. 2NM 50/20A/C			1455	1755	315			540				
BS.. 2NM 50/25C/D	125	100	1455	1755	340			545				
BS.. 2NM 50/25B/C			1455	1755	340	480	515	620				
BS.. 2NM 50/25A/D			1455	1855	340			620				
BS.. 2NM 65/16B/C	200	150	1455	1755	320			540				
BS.. 2NM 65/16AR			1455	1755	320	525	625	540				
BS.. 2NM 65/16A/C			1455	1755	320			615				
BS.. 2NM 65/20C/C	200	150	1455	1755	340			615				
BS.. 2NM 65/20B/C			1455	1855	340	550	625	615				
BS.. 2NM 65/20A/A			1655	1855	340			725				
BS.. 2NM 65/25C/A	200	150	1655	1855	360			725				
BS.. 2NMS 65/250B/A			1655	1855	360	575	625	725				
BS.. 2NMS 65/250A/A			1855	1600*	360			975				
BS.. 2NM 80/16B/C	250	200	1455	1755	340			620				
BS.. 2NM 80/16A/D			1455	1855	340	615	730	620				
BS.. 2NM 80/20B	250	200	1655	1855	360	640	730	725				
BS.. 2NMS 80/200A			1655	1855	360			725				
BS.. 2NM 80/25E	250	200	1655	1855	360			725				
BS.. 2NMS 80/250D			1655	1855	360			725				
BS.. 2NMS 80/250C/A			1855	1600*	310	670	730	975				
BS.. 2NMS 80/250B/A			1400*	2100*	310			1040				
BS.. 2NMS 80/250A/A			1400*	2100*	310			1110				

Dimensions not binding to be verified when ordering

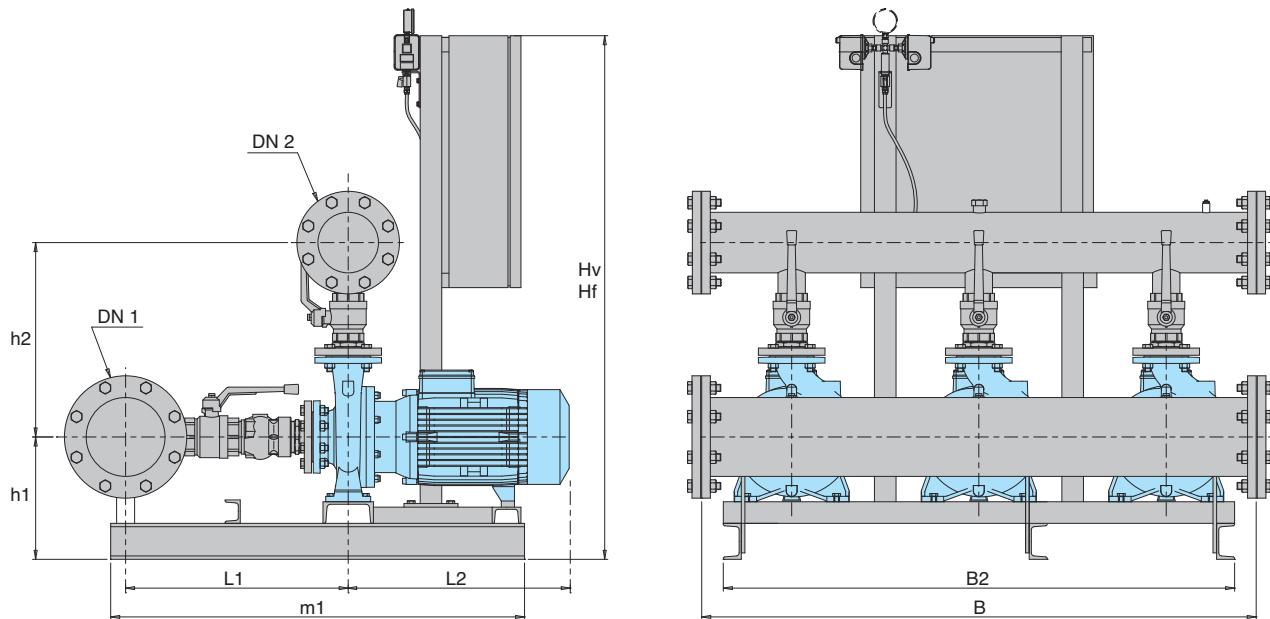
Dimensions on request

Hf= Fixed speed boosting sets

Hv= Variable speed boosting sets

* Cabinet version

Dimensions and weights



TYPE	Connection		mm									weight kg
	DN 1	DN 2	Hf	Hv	h1	h2	L1	L2	m1	B	B2	
BS.. 3NM 40/16B/B			830	1310	292			395				-
BS.. 3NM 40/16A/C	125	100	830	1310	292	400	500	395	1100	1340	1400	-
BS.. 3NM 40/20B/A			830	1610	320			425				-
BS.. 3NM 40/20A/A	125	100	1410	1610	320	420	520	425	1100	1340	1400	-
BS.. 3NM 40/25B/B			1555	1700*	340			540				-
BS.. 3NM 40/25A/B	125	100	1555	1700*	340	465	520	615	1100	1340	1400	-
BS.. 3NM 50/16B/B			975	1755	315			425				-
BS.. 3NM 50/16A/B	150	125	1555	1755	315	448	525	425		1340	-	-
BS.. 3NM 50/20B/C			1555	1700*	315			540				-
BS.. 3NM 50/20A/C	150	125	1555	1700*	315	468	525	540		1340	-	-
BS.. 3NM 50/25C/D			1555	1700*	340			545				-
BS.. 3NM 50/25B/C	150	125	1555	1700*	340	493	525	620		1440	-	-
BS.. 3NM 50/25A/D			1755	1700*	340			620				-
BS.. 3NM 65/16B/C			1555	1700*	320			540				-
BS.. 3NM 65/16AR	250	200	1555	1700*	320	555	650	540		1540	-	-
BS.. 3NM 65/16A/C			1555	1700*	320			615				-
BS.. 3NM 65/20C/C			1555	1700*	340			615				-
BS.. 3NM 65/20B/C	250	200	1755	1700*	340	580	650	615		1540	-	-
BS.. 3NM 65/20A/A			1855	1700*	340			725				-
BS.. 3NM 65/25C/A			1855	1700*	360			725				-
BS.. 3NMS 65/250B/A	250	200	1855	1700*	260	605	650	725		1900	-	-
BS.. 3NMS 65/250A/A			1545	-	310			975				-
BS.. 3NM 80/16B/C			1555	1700*	340			620				-
BS.. 3NM 80/16A/D	300	250	1755	1700*	240	645	755	620		1900	-	-
BS.. 3NM 80/20B			1855	1700*	360			725				-
BS.. 3NMS 80/200A	300	250	1855	1700*	260	670	755	725		1900	-	-
BS.. 3NM 80/25E			1855	1700*	360			725				-
BS.. 3NMS 80/250D			1855	1700*	260			725				-
BS.. 3NMS 80/250C/A	300	250	1400*	-	310	700	755	975		1900	-	-
BS.. 3NMS 80/250B/A			1400*	-	310			1040				-
BS.. 3NMS 80/250A/A			1400*	-	310			1110				-

Dimensions not binding to be verified when ordering

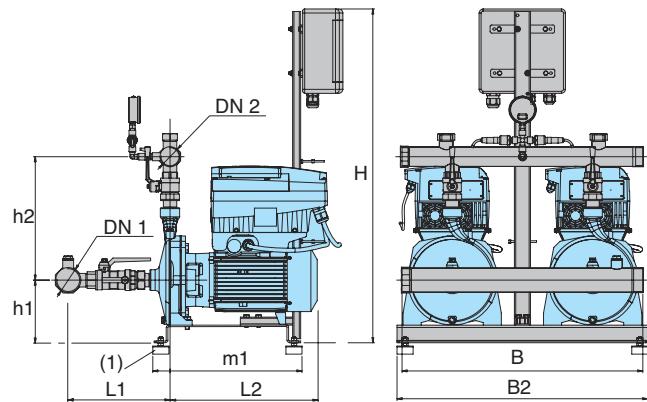
Dimensions on request

Hf= Fixed speed boosting sets

Hv= Variable speed boosting sets

* Cabinet version

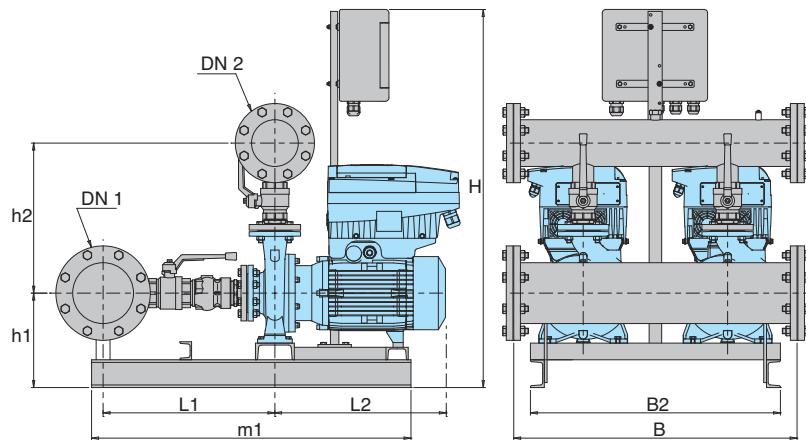
Dimensions and weights



TYPE	Motor			Connection		mm							weight kg	
	kW	HP	A	DN 1	DN 2	H	h1	h2	L1	L2	m1	B	B2	
BS2V 2NM 32/16B/A-ITT	1,5 x2	2 x2	4,3 x2			876					330			
BS2V 2NM 32/16A/B-ITT	2,2 x2	3 x2	5,3 x2	G 3	G 2 1/2	876					370			
BS2V 2NM 32/20D/B-ITT	2,2 x2	3 x2	5,3 x2			876	266	304	389		476	600	625	
BS2V 2NM 32/20C/A-ITT	3 x2	4 x2	6,6 x2	G 3	G 2 1/2	876	294	324	389		395			
BS2V 2NM 32/20A/B-ITT	4 x2	5,5 x2	9,6 x2			876					395	476	600	625

(1) Anti-vibration pads kit supplied loose as standard

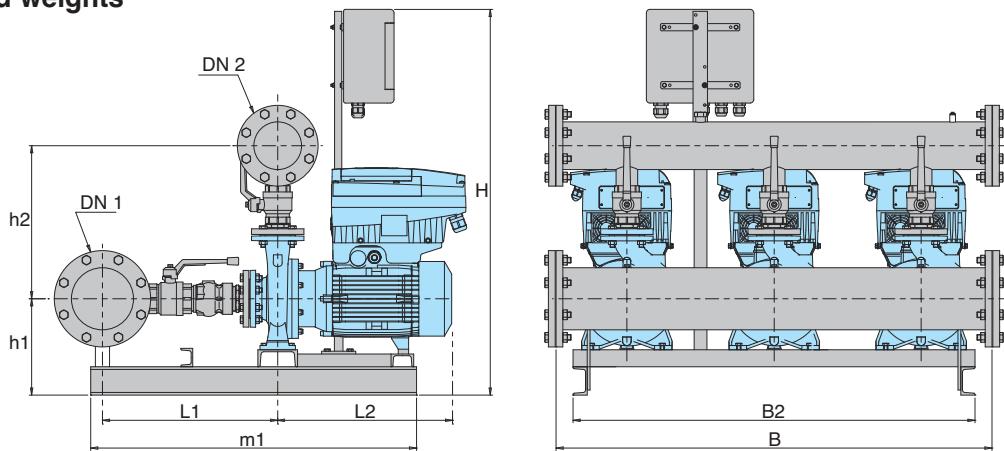
Dimensions and weights



TYPE	Motor			Connection		mm								weight kg
	kW	HP	A	DN 1	DN 2	H	h1	h2	L1	L2	m1	B	B2	
BS2V 2NM 32L/16B-ITT	3 x2	4 x2	6,6 x2			897	280	387	487	330	476	820	800	
BS2V 2NM 32L/16A-ITT	4 x2	5,5 x2	9,6 x2	100	80	897	280	370						
BS2V 2NM 32L/20B-ITT	5,5 x2	7,5 x2	10,8 x2	100	80	897	320	407	507	395				
BS2V 2NM 32L/20A-ITT	7,5 x2	10 x2	14,3 x2			897	320	395						
BS2V 2NM 40/16C/C-ITT	2,2 x2	3 x2	5,3 x2			897	280			370				
BS2V 2NM 40/16B/B-ITT	3 x2	4 x2	6,6 x2	100	80	897	280	387	487	395	476	820	800	
BS2V 2NM 40/16A/C-ITT	4 x2	5,5 x2	9,6 x2			897	280			395				
BS2V 2NM 40/20D/B-ITT	4 x2	5,5 x2	9,6 x2			897	309			395	476		800	
BS2V 2NM 40/20C/B-ITT	4 x2	5,5 x2	9,6 x2			897	309			395	476		800	
BS2V 2NM 40/20B/A-ITT	5,5 x2	7,5 x2	10,8 x2	100	80	897	320	407	507	425	1040	820	900	
BS2V 2NM 40/20A/R/A-ITT	5,5 x2	7,5 x2	10,8 x2			897	320			425	1040		900	
BS2V 2NM 40/20A/A-ITT	7,5 x2	10 x2	14,3 x2			897	320			425	1040		900	
BS2V 2NM 40/25C/C-ITT	9,2 x2	12,5 x2	18,5 x2			977	340			540				
BS2V 2NM 40/25B/C-ITT	11 x2	15 x2	21,5 x2	100	80	977	340	452	507	590	1040	820	-	
BS2V 2NM 40/25A/C-ITT	15 x2	20 x2	27,3 x2			977	340			615				
BS2V 2NM 50/16B/B-ITT	5,5 x2	7,5 x2	10,8 x2			977	315			425				
BS2V 2NM 50/16A/B-ITT	7,5 x2	10 x2	14,3 x2	125	100	977	315	435	515	425		920	-	
BS2V 2NM 50/20B/C-ITT	9,2 x2	12,5 x2	18,5 x2			977	315			540				
BS2V 2NM 50/20A/C-ITT	11 x2	15 x2	21,5 x2	125	100	977	315	455	515	590		920	-	
BS2V 2NM 50/20S/C-ITT	15 x2	20 x2	27,3 x2			977	315			620				
BS2V 2NM 50/25C/C-ITT	11 x2	15 x2	21,5 x2			977	340			595				
BS2V 2NM 50/25B/C-ITT	15 x2	20 x2	27,3 x2	125	100	977	340	480	515	620		920	-	
BS2V 2NM 50/25A/D-ITT	18,5 x2	25 x2	34 x2			977	340			620				
BS2V 2NM 65/16D/B-ITT	7,5 x2	10 x2	14,3 x2			977	320			425				
BS2V 2NM 65/16C/C-ITT	9,2 x2	12,5 x2	18,5 x2			977	320			540				
BS2V 2NM 65/16B/C-ITT	11 x2	15 x2	21,5 x2	200	150	977	320	525	625	540		1020	-	
BS2V 2NM 65/16AR-ITT	15 x2	20 x2	27,3 x2			977	320			540				
BS2V 2NM 65/16A/C-ITT	15 x2	20 x2	27,3 x2			977	320			615				
BS2V 2NM 65/20C/C-ITT	15 x2	20 x2	27,3 x2	200	150	977	340			445		1020		
BS2V 2NM 65/20B/D-ITT	18,5 x2	25 x2	34 x2			977	340	550		570		1200	-	
BS2V 2NM 65/20A/A-ITT	22 x2	30 x2	41 x2			977	360		730	620		1200		
BS2V 2NM 65/25C/A-ITT	22 x2	30 x2	41 x2	200	150	977	360	575		725		1200	-	
BS2V 2NM 80/16E/B-ITT	7,5 x2	10 x2	14,3 x2			977	-			420		1050		
BS2V 2NM 80/16D/C-ITT	9,2 x2	12,5 x2	18,5 x2			977	-			545		1050		
BS2V 2NM 80/16C/C-ITT	11 x2	15 x2	21,5 x2	250	200	977	-	615		595		1050	-	
BS2V 2NM 80/16B/C-ITT	15 x2	20 x2	27,3 x2			977	340			620		1050		
BS2V 2NM 80/16A/D-ITT	18,5 x2	25 x2	34 x2			977	340			620		1200		
BS2V 2NM 80/20B-ITT	22 x2	30 x2	41 x2	250	200	-	360	640		725		1200	-	
BS2V 2NM 80/25E-ITT	22 x2	30 x2	41 x2	250	200	-	360	670		725		1200	-	
BS2V 2NM 100/20E/A-ITT	18,5 x2	25 x2	34 x2	300	250	1490	410	770	1083	662	1835	1200	1200	
BS2V 2NM 100/20D-ITT	22 x2	30 x2	41 x2											

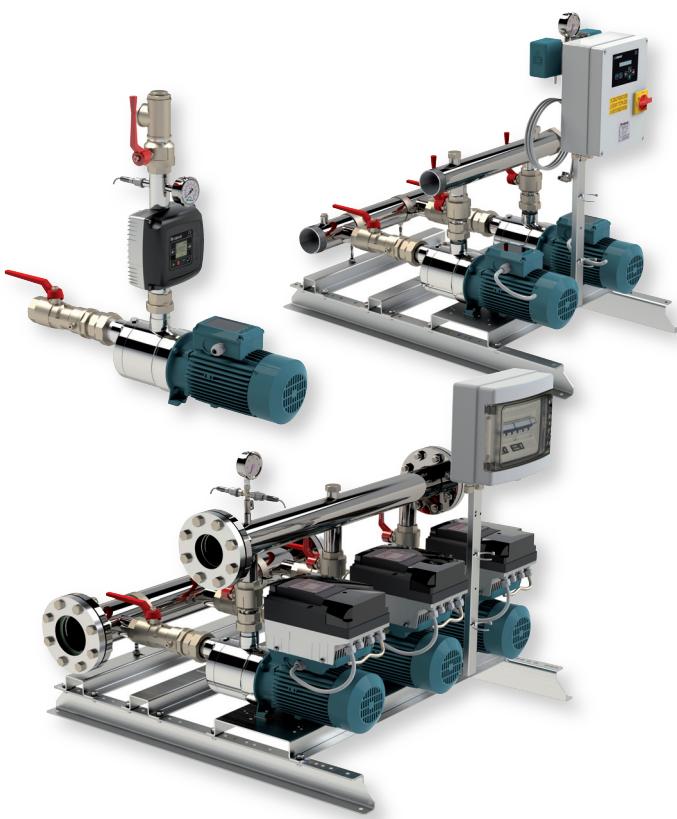
Dimensions not binding to be verified when ordering

Dimensions and weights

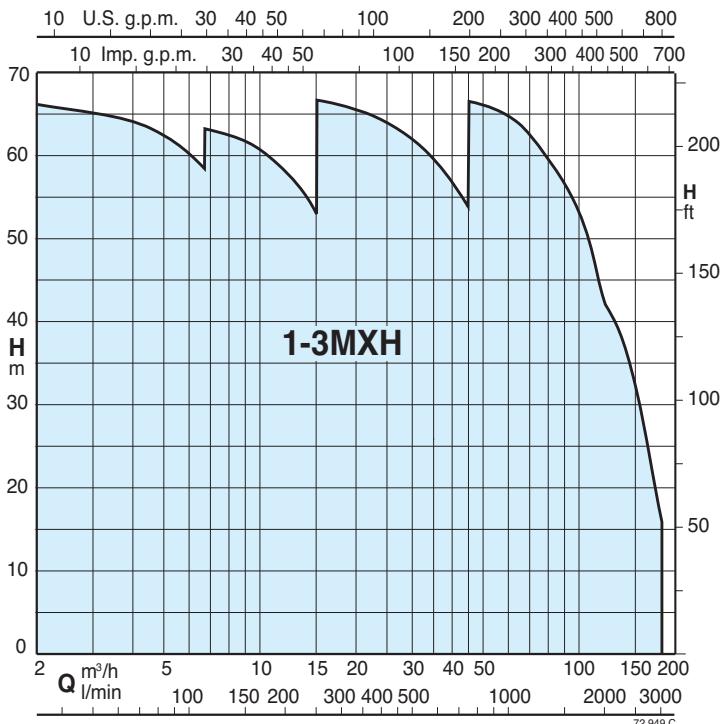


TYPE	Motor			Connection		mm								weight kg
	kW	HP	A	DN 1	DN 2	H	h1	h2	L1	L2	m1	B	B2	
BS3V 3NM 32/16B/A-ITT	1,5 x3	2 x3	4,3 x3	100	80	876	165	-	-	330	476	950	1000	
BS3V 3NM 32/16A/B-ITT	2,2 x3	3 x3	5,3 x3			876	165			370				
BS3V 3NM 32/20D/B-ITT	2,2 x3	3 x3	5,3 x3			876	195			370				
BS3V 3NM 32/20C/A-ITT	3 x3	4 x3	6,6 x3	100	80	876	195	-	-	395	476	950	1000	
BS3V 3NM 32/20A/B-ITT	4 x3	5,5 x3	9,6 x3			876	195			395				
BS3V 3NM 32L/16B-ITT	3 x3	4 x3	6,6 x3			876	292			330				
BS3V 3NM 32L/16A-ITT	4 x3	5,5 x3	9,6 x3	125	100	876	292	400	500	370	1100	1340	1400	
BS3V 3NM 32L/20B-ITT	5,5 x3	7,5 x3	10,8 x3			876	320			395				
BS3V 3NM 32L/20A-ITT	7,5 x3	10 x3	14,3 x3	125	100	876	320	420	500	395	1100	1340	1400	
BS3V 3NM 40/16C/C-ITT	2,2 x3	3 x3	5,3 x3			897	292			370				
BS3V 3NM 40/16B/B-ITT	3 x3	4 x3	6,6 x3	125	100	897	292	400	500	395	1100	1340	1400	
BS3V 3NM 40/16A/C-ITT	4 x3	5,5 x3	9,6 x3			897	292			395				
BS3V 3NM 40/20D/B-ITT	4 x3	5,5 x3	9,6 x3			897	320			395				
BS3V 3NM 40/20C/B-ITT	4 x3	5,5 x3	9,6 x3			897	320			395				
BS3V 3NM 40/20B/A-ITT	5,5 x3	7,5 x3	10,8 x3	125	100	897	320	420	520	425	1100	1340	1400	
BS3V 3NM 40/20AR/A-ITT	5,5 x3	7,5 x3	10,8 x3			897	320			425				
BS3V 3NM 40/20A/A-ITT	7,5 x3	10 x3	14,3 x3			897	320			425				
BS3V 3NM 40/25C/C-ITT	9,2 x3	12,5 x3	18,5 x3			977	340			540				
BS3V 3NM 40/25B/C-ITT	11 x3	15 x3	21,5 x3	125	100	977	340	465	520	590	1100	1340	1400	
BS3V 3NM 40/25A/D-ITT	15 x3	20 x3	27,3 x3			977	340			615				
BS3V 3NM 50/16B/B-ITT	5,5 x3	7,5 x3	10,8 x3			977	315			425				
BS3V 3NM 50/16A/B-ITT	7,5 x3	10 x3	14,3 x3	150	125	977	315	448	525	425	-	1340	-	
BS3V 3NM 50/20B/C-ITT	9,2 x3	12,5 x3	18,5 x3			977	315			540				
BS3V 3NM 50/20A/C-ITT	11 x3	15 x3	21,5 x3	150	125	977	315	468	525	590	-	1340	-	
BS3V 3NM 50/20S/C-ITT	15 x3	20 x3	27,3 x3			977	315			620				
BS3V 3NM 50/25C/C-ITT	11 x3	15 x3	21,5 x3			977	340			595		1440		
BS3V 3NM 50/25B/C-ITT	15 x3	20 x3	27,3 x3	150	125	977	340	493	525	620	-	1440	-	
BS3V 3NM 50/25A/D-ITT	18,5 x3	25 x3	34 x3			977	340			620		-		
BS3V 3NM 65/16D/B-ITT	7,5 x3	10 x3	14,3 x3			977	320			425				
BS3V 3NM 65/16C/C-ITT	9,2 x3	12,5 x3	18,5 x3			977	320			540				
BS3V 3NM 65/16B/C-ITT	11 x3	15 x3	21,5 x3	250	200	977	320	555	650	540	-	1540	-	
BS3V 3NM 65/16AR-ITT	15 x3	20 x3	27,3 x3			977	320			540				
BS3V 3NM 65/16A/C-ITT	15 x3	20 x3	27,3 x3			977	320			615				
BS3V 3NM 65/20C/C-ITT	15 x3	20 x3	27,3 x3	250	200	977	340			445		1540		
BS3V 3NM 65/20B/D-ITT	18,5 x3	25 x3	34 x3			977	340	580		570	-	1900	-	
BS3V 3NM 65/20A/A-ITT	22 x3	30 x3	41 x3			977	340			755	620	1900		
BS3V 3NM 65/25C/A-ITT	22 x3	30 x3	41 x3	250	200	977	360	605	-	725	-	1900	-	
BS3V 3NM 80/16E/B-ITT	7,5 x3	10 x3	14,3 x3			977	340			420				
BS3V 3NM 80/16D/C-ITT	9,2 x3	12,5 x3	18,5 x3			977	340			545				
BS3V 3NM 80/16C/C-ITT	11 x3	15 x3	21,5 x3	300	250	977	340	645	-	595	-	1900	-	
BS3V 3NM 80/16B/C-ITT	15 x3	20 x3	27,3 x3			977	340			620				
BS3V 3NM 80/16A/D-ITT	18,5 x3	25 x3	34 x3			977	340			620				
BS3V 3NM 80/20B-ITT	22 x3	30 x3	41 x3	300	250	-	360	670	-	725	-	1900	-	
BS3V 3NM 80/25E-ITT	22 x3	30 x3	41 x3	300	250	-	360	700	-	725	-	1900	-	
BS3V 3NM 100/20E/A-ITT	18,5 x3	25 x3	34 x3	350	300	-	-	-	-	662	-	1900	-	
BS3V 3NM 100/20D-ITT	22 x3	30 x3	41 x3			-	-	-	-	-				

Dimensions not binding to be verified when ordering



Coverage chart



Operation

BS 2-6F Pressure boosting sets with 2 to 6 fixed speed pump.

Sets with 4,5 and 6 pumps on request.

Depending on the reduction of the pressure in the system, the pressure switches (pressure transducer for 3-pump sets) determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS2-3V Pressure boosting sets with 2 to 3 variable speed pumps (with I-MAT).

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

BS1-3V Pressure boosting sets with 1 to 3 variable speed pumps (with EASYMAT).

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Construction

- Automatic pressure boosting plant consisting of 1 to 6 horizontal multi-stage pumps complete with ball, non return valve on the suction side and ball valves on the delivery side.

Suction and delivery manifolds for boosting sets with 2,3 pumps:

- stainless steel AISI 304.

Connections are located on the delivery manifold for the installation of vessels G1 connection.

Electrical control boards:

- with microprocessor for fixed speed pump units. Motor starting is D.O.L. up to 5,5 kW and Y/Δ for power rating 7,5 kW.
- with frequency converter for variable speed pump units.

The unit includes one pressure gauge and three adjustable differential pressure switches or pressure transducer.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n \approx 2900$ rpm, suitable for operation with frequency converter.

- Three-phase 230/400V $\pm 10\%$ up to 3 kW;
400/690V $\pm 10\%$ for 4 kW to 7,5 kW;
- Single-phase 230 V $\pm 10\%$, with thermal protector.

Insulation class F.

Protection IP 54.

Constructed in accordance with: IEC 60034.

Other voltages and frequencies on request.

Vessels on request

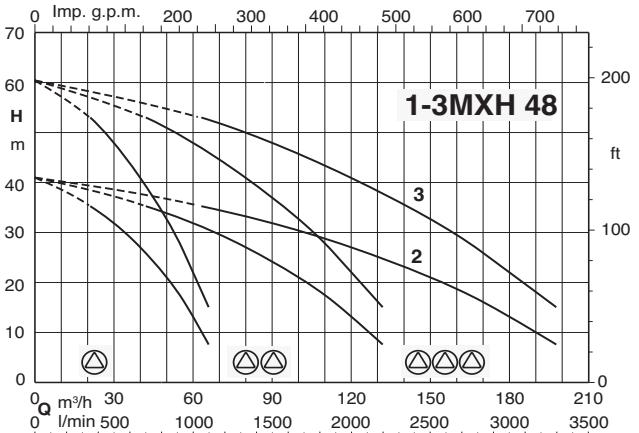
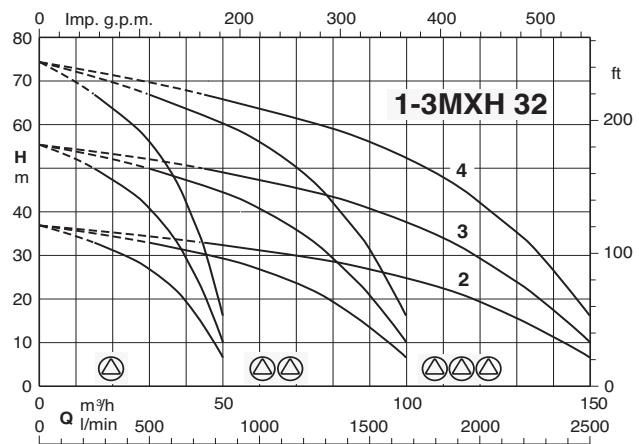
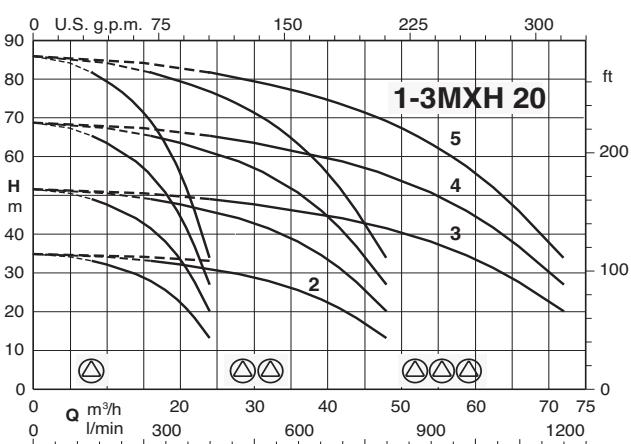
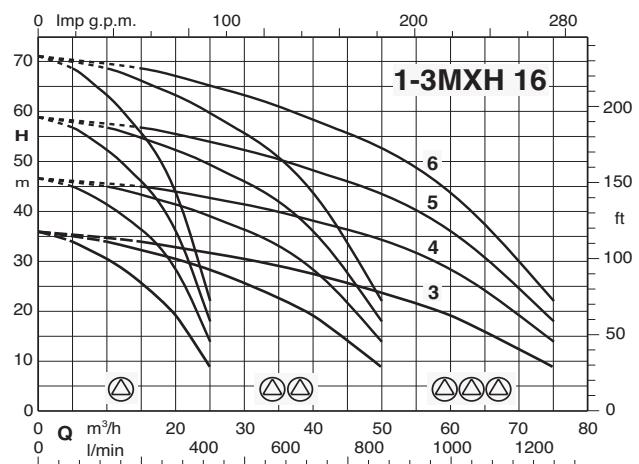
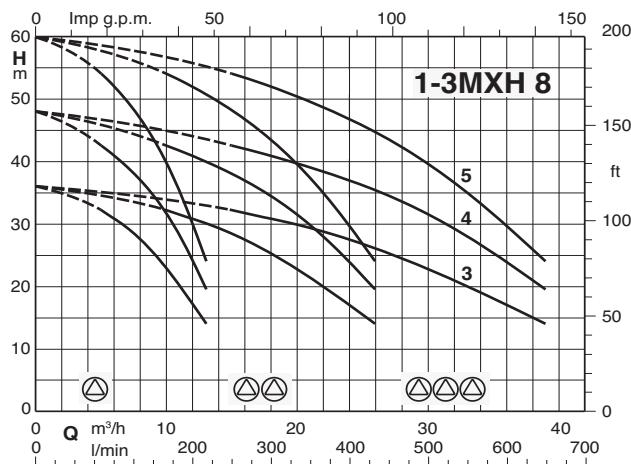
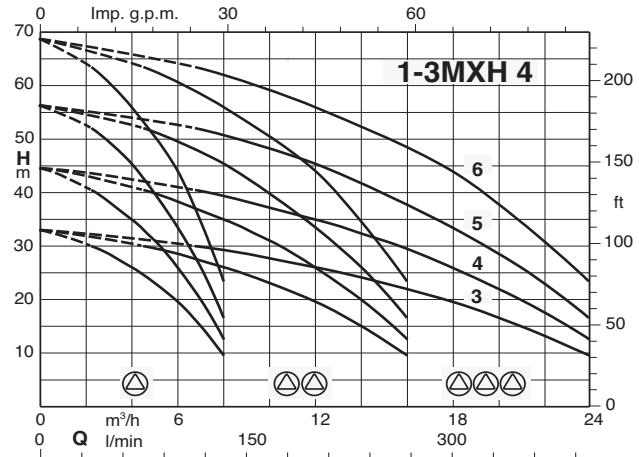
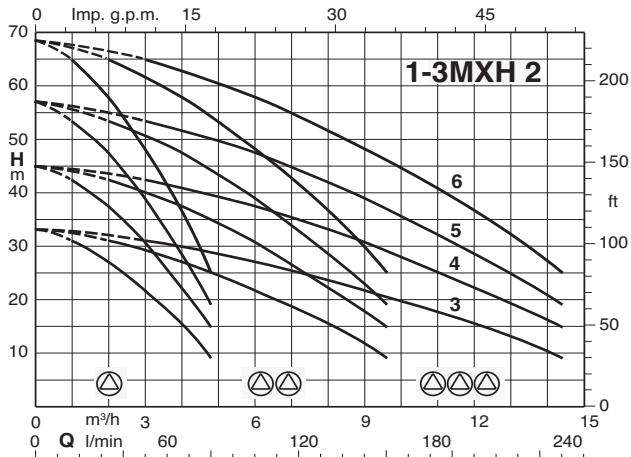
When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.

The recommended sized are shown in the following page.

Special features on request

Pressure boosting sets with 4,5 and 6 pumps.

Coverage chart



Performance

BS1F

BSM1F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Pres. switch 1 bar		Vessel Membrane litre	Vessel litre
		kW	HP	min	max		
BS1F 1MXH 203E	BSM1F 1MXHM 203E	0,37	0,5	2	2,8	24	100
BS1F 1MXH 204/A	BSM1F 1MXHM 204/A	0,55	0,75	3	3,9	40	100
BS1F 1MXH 205/B	BSM1F 1MXHM 205/A	0,75	1	3,3	4,9	50	100
BS1F 1MXH 206/C	BSM1F 1MXHM 206	1,1	1,5	4,3	5,9	50	100
BS1F 1MXH 403/A	BSM1F 1MXHM 403/A	0,55	0,75	1,9	2,7	60	100
BS1F 1MXH 404/B	BSM1F 1MXHM 404/A	0,75	1	2,9	3,7	80	200
BS1F 1MXH 405/C	BSM1F 1MXHM 405	1,1	1,5	3,2	4,7	100	200
BS1F 1MXH 406/A	BSM1F 1MXHM 406	1,5	2	4,1	5,7	100	200
BS1F 1MXH 803/A	BSM1F 1MXHM 803	1,1	1,5	2,1	2,9	100	300
BS1F 1MXH 804/A	BSM1F 1MXHM 804	1,5	2	3	3,9	200	300
BS1F 1MXH 805/B		1,8	2,5	3,4	4,9	200	500
BS1F 1MXH 1603/B		1,8	2,5	2,3	3,1	300	500
BS1F 1MXH 1604/A		3	4	3,3	4,2	500	1000
BS1F 1MXH 1605/B		3,7	5	3,7	5,2	500	1000
BS1F 1MXH 1606/B		4	5,5	4,5	6,2	500	800
BS1F 1MXH 2002/A		1,8	2,5	2,1	2,9	300	500
BS1F 1MXH 2003		3	4	3	4,5	500	1000
BS1F 1MXH 2004/A		4	5,5	4,3	5,9	1000	1500
BS1F 1MXH 2005		5,5	7,5	5,5	7,4	1000	1500
BS1F 1MXH-F 3202/B		4	5,5	2,2	3	1000	2000
BS1F 1MXH-F 3203/A		5,5	7,5	3,1	4,6	1000	2000
BS1F 1MXH-F 3204/A		7,5	10	4,4	6,1	1500	3000
BS1F 1MXH-F 4802/A		5,5	7,5	2,4	3,2	1500	2000
BS1F 1MXH-F 4803/A		7,5	10	3,3	4,8	2000	3000

BS2F

BSM2F

Mains: 400V 3~ Motor: 400V 3~	Alimentazione 230V 1~ Motore 230V 1~	Motor		Pres. switch 1 bar		Pres. switch 2 bar		Vessel Membrane litre	Vessel litre
		kW	HP	min	max	min	max		
BS2F 2MXH 203E	BSM2F 2MXHM 203E	0,37 x2	0,5 x2	2	2,8	1,7	2,5	24	100
BS2F 2MXH 204/A	BSM2F 2MXHM 204/A	0,55 x2	0,75 x2	3	3,9	2,7	3,6	40	100
BS2F 2MXH 205/B	BSM2F 2MXHM 205/A	0,75 x2	1 x2	3,3	4,9	3,1	4,6	50	100
BS2F 2MXH 206/C	BSM2F 2MXHM 206	1,1 x2	1,5 x2	4,3	5,9	4	5,6	50	100
BS2F 2MXH 403/A	BSM2F 2MXHM 403/A	0,55 x2	0,75 x2	1,9	2,7	1,6	2,4	60	100
BS2F 2MXH 404/B	BSM2F 2MXHM 404/A	0,75 x2	1 x2	2,9	3,7	2,6	3,4	80	200
BS2F 2MXH 405/C	BSM2F 2MXHM 405	1,1 x2	1,5 x2	3,2	4,7	2,9	4,4	100	200
BS2F 2MXH 406/A	BSM2F 2MXHM 406	1,5 x2	2 x2	4,1	5,7	3,8	5,4	100	200
BS2F 2MXH 803/A	BSM2F 2MXHM 803	1,1 x2	1,5 x2	0,4	1,9	0,1	1,6	100	300
BS2F 2MXH 804/A	BSM2F 2MXHM 804	1,5 x2	2 x2	2,1	2,9	1,8	2,6	200	300
BS2F 2MXH 805/B	BSM2F 2MXHM 804	1,8 x2	2,5 x2	3	3,9	2,7	3,6	200	500
BS2F 2MXH 1603/B		1,8 x2	2,5 x2	2,3	3,1	2	2,8	300	500
BS2F 2MXH 1604/A		3 x2	4 x2	3,3	4,2	3	3,9	500	1000
BS2F 2MXH 1605/B		3,7 x2	5 x2	3,7	5,2	3,4	4,9	500	1000
BS2F 2MXH 1606/B		4 x2	5,5 x2	4,5	6,2	4,2	5,9	500	800
BS2F 2MXH 2002/A		1,8 x2	2,5 x2	2,1	2,9	1,8	2,6	300	500
BS2F 2MXH 2003		3 x2	4 x2	3	4,5	2,7	4,2	500	1000
BS2F 2MXH 2004/A		4 x2	5,5 x2	4,3	5,9	4	5,6	1000	1500
BS2F 2MXH 2005		5,5 x2	7,5 x2	5,5	7,4	5,3	7,1	1000	1500
BS2F 2MXH-F 3202/B		4 x2	5,5 x2	2,2	3	1,9	2,7	1000	2000
BS2F 2MXH-F 3203/A		5,5 x2	7,5 x2	3,1	4,6	2,8	4,3	1000	2000
BS2F 2MXH-F 3204/A		7,5 x2	10 x2	4,4	6,1	4,1	5,8	1500	3000
BS2F 2MXH-F 4802/A		5,5 x2	7,5 x2	2,4	3,2	2,1	2,9	1500	2000
BS2F 2MXH-F 4803/A		7,5 x2	10 x2	3,3	4,8	3	4,5	2000	3000

BS3F

Mains: 400V 3~ Motor: 400V 3~	Motor		Pressure transducer bar		Vessel Membrane litre	Vessel litre
	kW	HP	min	max		
BS3F 3MXH 203E	0,37 x3	0,5 x3	2	2,8	24x2	100
BS3F 3MXH 204/A	0,55 x3	0,75 x3	2,9	3,8	24x2	100
BS3F 3MXH 205/B	0,75 x3	1 x3	3,3	4,8	24x2	100
BS3F 3MXH 206/C	1,1 x3	1,5 x3	4,2	5,9	60	100
BS3F 3MXH 403/A	0,55 x3	0,75 x3	1,9	2,7	80	200
BS3F 3MXH 404/B	0,75 x3	1 x3	2,8	3,6	100	200
BS3F 3MXH 405/C	1,1 x3	1,5 x3	3,2	4,7	100	200
BS3F 3MXH 406/A	1,5 x3	2 x3	4	5,7	150	200
BS3F 3MXH 803/A	1,1 x3	1,5 x3	2,1	2,9	200	500
BS3F 3MXH 804/A	1,5 x3	2 x3	2,9	3,8	300	500
BS3F 3MXH 805/B	1,8 x3	2,5 x3	3,4	4,9	300	500
BS3F 3MXH 1603/B	1,8 x3	2,5 x3	2,2	3	300	800
BS3F 3MXH 1604/A	3 x3	4 x3	3,3	4,2	500	1000
BS3F 3MXH 1605/B	3,7 x3	5 x3	3,6	5,2	500	1000
BS3F 3MXH 1606/B	4 x3	5,5 x3	4,4	6,1	500	1000
BS3F 3MXH 2003	3 x3	4 x3	3,4	4,3	500	800
BS3F 3MXH 2004/A	4 x3	5,5 x3	4,1	5,8	500	1000
BS3F 3MXH 2005	5,5 x3	7,5 x3	5,4	7,3	750	1500
BS3F 3MXH-F 3202/B	4 x3	5,5 x3	2,1	2,9	1000	2000
BS3F 3MXH-F 3203/A	5,5 x3	7,5 x3	2,9	4,4	1000	2000
BS3F 3MXH-F 3204/A	7,5 x3	10 x3	4,3	6	1500	3000
BS3F 3MXH-F 4802/A	5,5 x3	7,5 x3	2,3	3,1	1500	3000
BS3F 3MXH-F 4803/A	7,5 x3	10 x3	3,2	4,7	1500	3000

Performance

BS.. ..-ITT

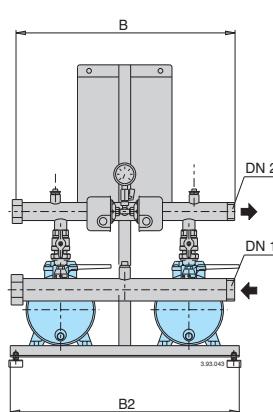
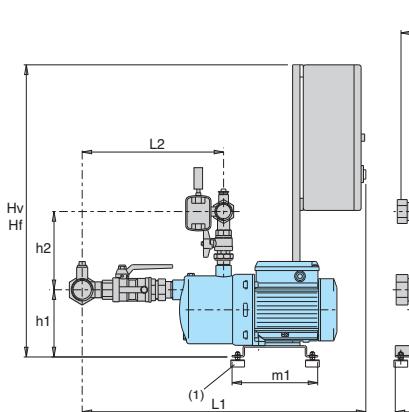
PUMPS Nos		PUMP TYPE	P ₂ For each pump	
2	3		kW	HP
BS2V -ITT	BS3V -ITT	MXH 204/A-ITT	0,55	0,75
		MXH 205/B-ITT	0,75	1
		MXH 206/C-ITT	1,1	1,5
		MXH 403/A-ITT	0,55	0,75
		MXH 404/B-ITT	0,75	1
		MXH 405/C-ITT	1,1	1,5
		MXH 406/A-ITT	1,5	2
		MXH 803/A-ITT	1,1	1,5
		MXH 804/A-ITT	1,5	2
		MXH 805/B-ITT	1,8	2,5
		MXH 1603/B-ITT	1,8	2,5
		MXH 1604/A-ITT	3	4
		MXH 1605/B-ITT	3,7	5
		MXH 1606/B-ITT	4	5,5
		MXH 2002/A-ITT	1,8	2,5
		MXH 2003-ITT	3	4
		MXH 2004/A-ITT	4	5,5
		MXH 2005-ITT	5,5	7,5
		MXH-F 3202/B-ITT	4	5,5
		MXH-F 3203/A-ITT	5,5	7,5
		MXH-F 3204/A-ITT	7,5	10
		MXH-F 4802/A-ITT	5,5	7,5
		MXH-F 4803/A-ITT	7,5	10

BS.. ..-EMT, EMM

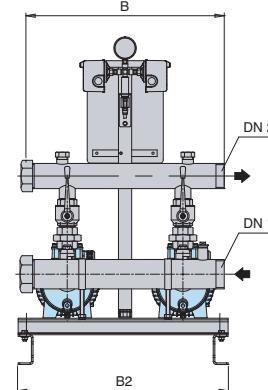
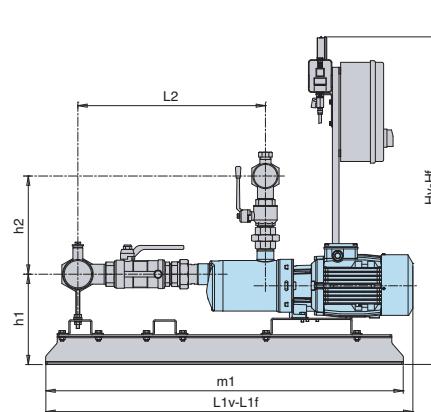
PUMPS Nos			PUMP TYPE	P ₂ For each pump	
1	2	3		kW	HP
BSM1V -EMT -EMM	BSM2V -EMT	BSM3V -EMT	MXH 203E-EMT	0,37	0,5
			MXH 204/A-EMT	0,55	0,75
			MXH 205/B-EMT	0,75	1
			MXH 206/C-EMT	1,1	1,5
			MXH 403/A-EMT	0,55	0,75
			MXH 404/B-EMT	0,75	1
			MXH 405/C-EMT	1,1	1,5
			MXH 406/A-EMT	1,5	2
			MXH 803/A-EMT	1,1	1,5
			MXH 804/A-EMT	1,5	2
			MXH 805/B-EMT	1,8	2,5
			MXH 1603/B-EMT	1,8	2,5

Dimensions and weights

BS.. 2MXH 2,4,8



BS.. 2MXH 16



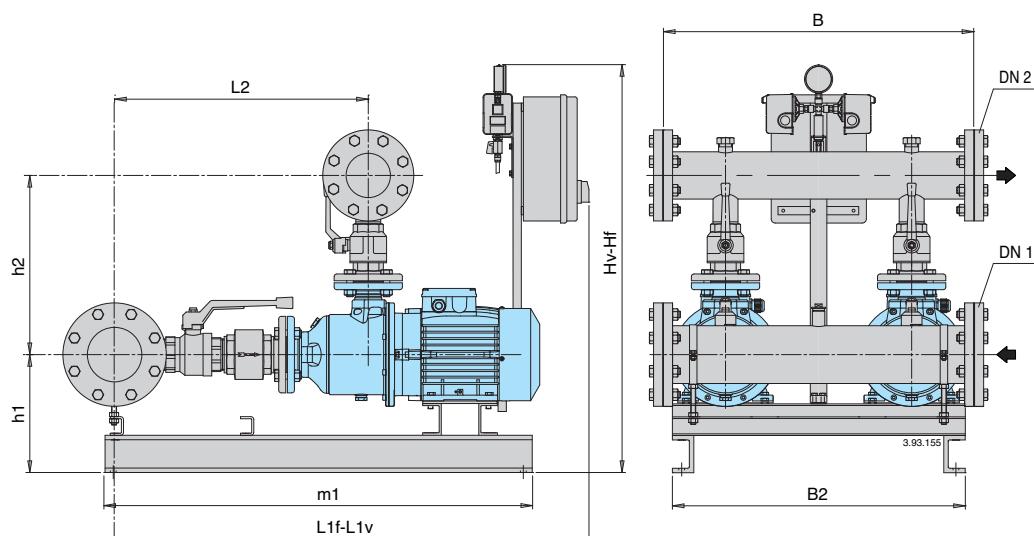
TYPE	Connection		mm									weight kg	
	DN 1	DN 2	Hf	Hv	h1	h2	L1f	L1v	L2	m1	B2	B	
BS.. 2MXH 203E	G 2	G 11/2	840	-	162	202	773	-	323				42
BS.. 2MXH 204/A	G 2	G 11/2	840	-	162	202	796	-	347				47
BS.. 2MXH 205/B	G 2	G 11/2	840	-	162	202	820	-	371				50
BS.. 2MXH 206/C	G 2	G 11/2	840	-	162	202	845	-	395				54
BS.. 2MXH 403/A	G 2	G 11/2	840	-	162	202	773	-	323				46
BS.. 2MXH 404/B	G 2	G 11/2	840	-	162	202	796	-	347				49
BS.. 2MXH 405/C	G 2	G 11/2	840	-	162	202	820	-	371				53
BS.. 2MXH 406/A	G 2	G 11/2	840	-	162	202	845	-	395				57
BS.. 2MXH 803/A	G 2 1/2	G 2	840	-	162	208	866	-	386				61
BS.. 2MXH 804/A	G 2 1/2	G 2	840	-	162	208	896	-	416				66
BS.. 2MXH 805/B	G 2 1/2	G 2	840	-	162	208	926	-	446				68
BS.. 2MXH 1603/B	G 3	G 2 1/2	1040	980	258	281	1050	1115	490				-
BS.. 2MXH 1604/A	G 3	G 2 1/2	1040	980	273	281	1085	1150	530	1090	625	600	-
BS.. 2MXH 1605/B	G 3	G 2 1/2	1040	980	273	281	1120	1185	565				-
BS.. 2MXH 1606/B	G 3	G 2 1/2	1040	980	273	281	1178	1245	605				-
BS.. 2MXH 2002/A	G 3	G 2 1/2	1040	980	220	351	1155	1220	484				-
BS.. 2MXH 2003	G 3	G 2 1/2	1040	980	230	351	1155	1220	503	1090	625	600	-
BS.. 2MXH 2004/A	G 3	G 2 1/2	1040	980	230	351	1180	1245	537				-
BS.. 2MXH 2005	G 3	G 2 1/2	1040	980	252	351	1230	1295	572				-

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard

Hf= Fixed speed boosting sets

Hv= Variable speed boosting sets



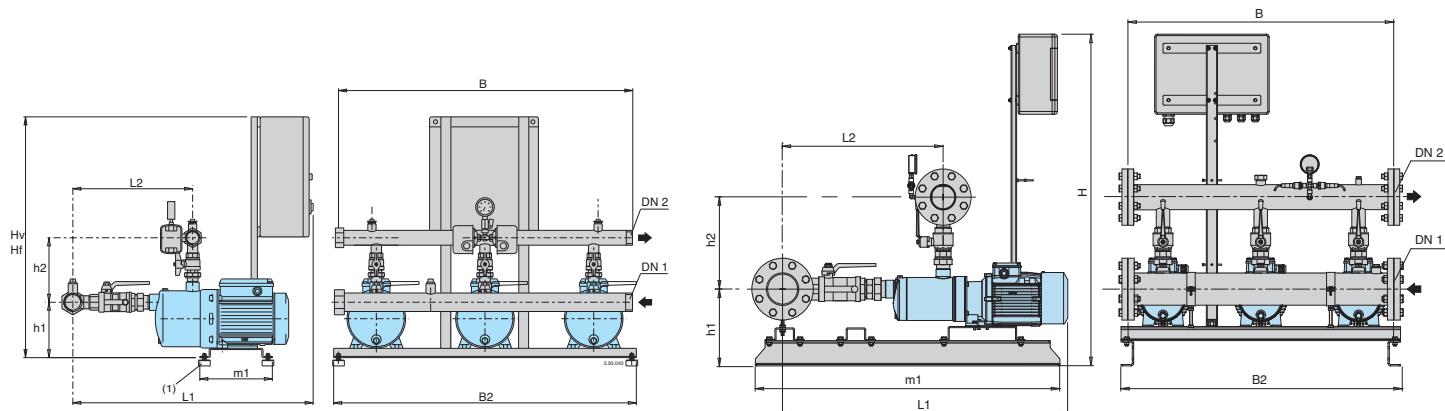
TYPE	Connection		mm									weight kg	
	DN 1	DN 2	Hf	Hv	h1	h2	L1f	L1v	L2	m1	B2	B	
BS.. 2MXH-F 3202/B	100	80	1510	-	298	402	1265	-	558	1175			214
BS.. 2MXH-F 3203	100	80	1510	-	298	402	1270	-	604	1150	750	750	243
BS.. 2MXH-F 3204/A	100	80	1510	-	298	402	1320	-	650	1175			260
BS.. 2MXH-F 4802/A	125	100	1510	-	298	465	1380	-	654	1175			268
BS.. 2MXH-F 4803/A	125	100	1510	-	298	465	1420	-	716	1220			286

Dimensions not binding to be verified when ordering

Dimensions and weights

BS.. 3MXH 2,4,8

BS.. 3MXH 16



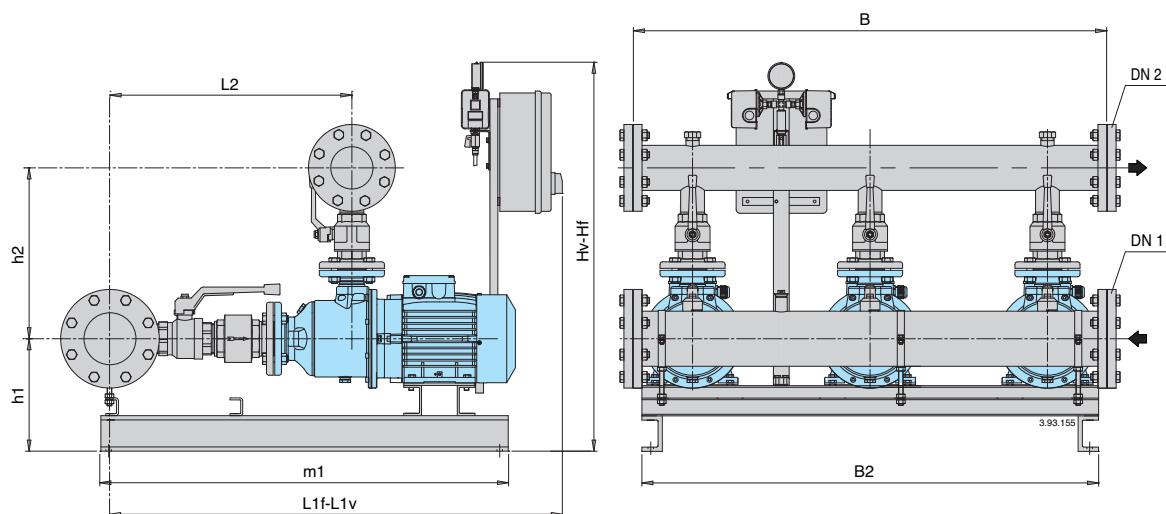
TYPE	Connection		mm								weight kg	
	DN 1	DN 2	Hf	Hv	h1	h2	L1f	L1v	L2	m1	B2	B
BS.. 3MXH 203E	G 2 1/2	G 2	840	-	178	202	773	-	335			-
BS.. 3MXH 204/A	G 2 1/2	G 2	840	-	178	202	796	-	358			
BS.. 3MXH 205/B	G 2 1/2	G 2	840	-	178	202	820	-	382			
BS.. 3MXH 206/C	G 2 1/2	G 2	840	-	178	202	845	-	406			
BS.. 3MXH 403/A	G 2 1/2	G 2	840	-	178	202	773	-	335			
BS.. 3MXH 404/B	G 2 1/2	G 2	840	-	178	202	796	-	358			
BS.. 3MXH 405/C	G 2 1/2	G 2	840	-	178	202	820	-	382	305	1000	950
BS.. 3MXH 406/A	G 2 1/2	G 2	840	-	178	202	845	-	406			
BS.. 3MXH 803/A	G 3	G 2 1/2	840	-	178	208	866	-	428			
BS.. 3MXH 804/A	G 3	G 2 1/2	840	-	178	208	896	-	458			
BS.. 3MXH 805/B	G 3	G 2 1/2	840	-	178	208	926	-	488			
BS.. 3MXH 1603/B	DN 100	DN 80	1060	1550	258	327	1096	1100	500			
BS.. 3MXH 1604/A	DN 100	DN 80	1060	1550	273	327	1131	1135	538	1090	1000	950
BS.. 3MXH 1605/B	DN 100	DN 80	1060	1550	273	327	1167	1171	575			
BS.. 3MXH 1606/B	DN 100	DN 80	1060	1550	273	327	1227	1231	613			
BS.. 3MXH 2002/A	DN 100	DN 80	1060	1550	290	398	1166	1170	499			
BS.. 3MXH 2003	DN 100	DN 80	1060	1550	290	398	1166	1170	518	1090	1000	950
BS.. 3MXH 2004/A	DN 100	DN 80	1060	1550	290	398	1226	1230	553			
BS.. 3MXH 2005	DN 100	DN 80	1060	1550	252	398	1241	1245	587			

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard

Hf= Fixed speed boosting sets

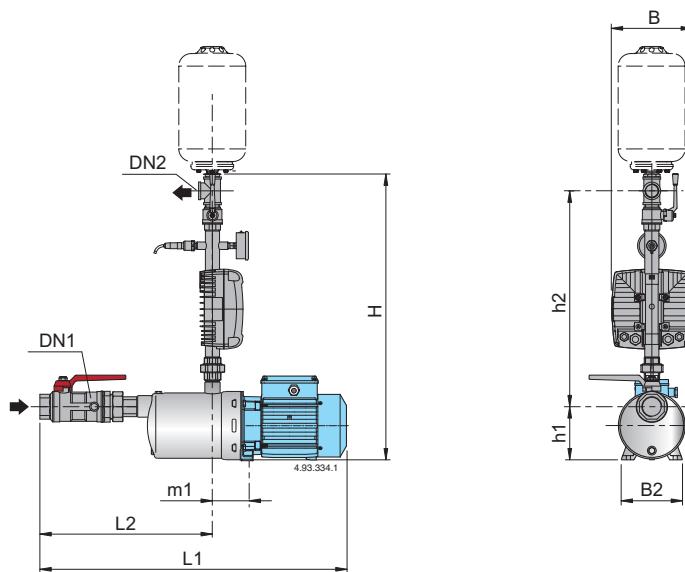
Hv= Variable speed boosting sets



TYPE	Connection		mm								weight kg	
	DN 1	DN 2	Hf	Hv	h1	h2	L1f	L1v	L2	m1	B2	B
BS.. 3MXH-F 3202/B	125	100	1510	-	318	415	1265	-	565	1175		-
BS.. 3MXH-F 3203/A	125	100	1510	-	318	415	1270	-	617	1060		
BS.. 3MXH-F 3204/A	125	100	1510	-	318	415	1320	-	660	1175	1150	1200
BS.. 3MXH-F 4802/A	150	125	1510	-	318	465	1380	-	665	1175		
BS.. 3MXH-F 4803/A	150	125	1510	-	318	465	1420	-	725	1220		

Dimensions not binding to be verified when ordering

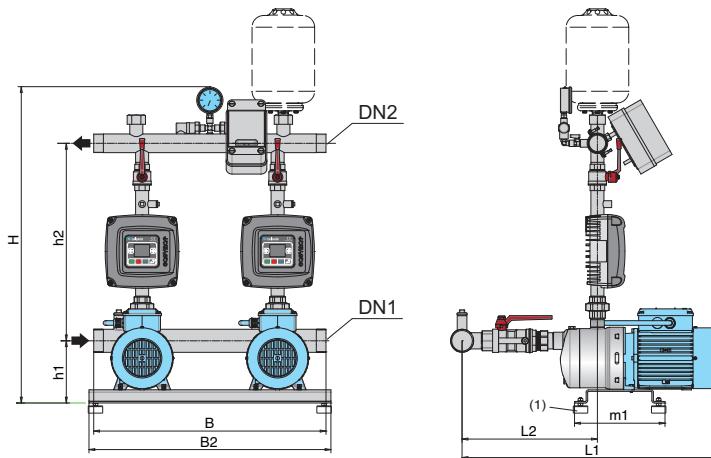
Characteristic and dimensions



Mains: 1~ 230V Motor: 3~ 230V	mains		Mains: 1~ 230V Motor: 1~ 230V		P2		Connection		mm							
	A	A	A		kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B	B2
BSM1V 1MXH 203E-EMT	3,2	2,4	BSM1V 1MXHM 203E-EMM	3	0,37	0,5						511	274			
BSM1V 1MXH 204/A-EMT	4	2,8	BSM1V 1MXHM 204/A-EMM	4,2	0,55	0,75	G 1 1/4	G 1	708	127	516	561	298	88	165	146
BSM1V 1MXH 205/B-EMT	5	3,5	BSM1V 1MXHM 205/A-EMM	5,4	0,75	1						585	322			
BSM1V 1MXH 206/C-EMT	6,3	4,7	BSM1V 1MXHM 206-EMM	7,4	1,1	1,5						609	346			
BSM1V 1MXH 403/A-EMT	4	2,8	BSM1V 1MXHM 403/A-EMM	4,2	0,55	0,75						537	274			
BSM1V 1MXH 404/B-EMT	5	3,5	BSM1V 1MXHM 404/A-EMM	5,4	0,75	1	G 1 1/4	G 1	708	127	516	561	298	88	165	146
BSM1V 1MXH 405/C-EMT	6,7	4,7	BSM1V 1MXHM 405-EMM	7,4	1,1	1,5						585	322			
BSM1V 1MXH 406/A-EMT	8	6,2			1,5	2						680	346			
BSM1V 1MXH 803/A-EMT	7,1	5	BSM1V 1MXHM 803-EMM	7,4	1,1	1,5						657	323			
BSM1V 1MXH 804/A-EMT	8,6	6,2			1,5	2	G 1 1/2	G 1	708	127	516	687	353	88	165	146
BSM1V 1MXH 805/B-EMT	10,7	7,5			1,8	2,5						717	383			
BSM1V 1MXH 1603/B-EMT	10,7	7,5			1,8	2,5	G 2	G 1 1/2	750	117	560	752	404	101	165	146

Dimensions not binding to be verified when ordering

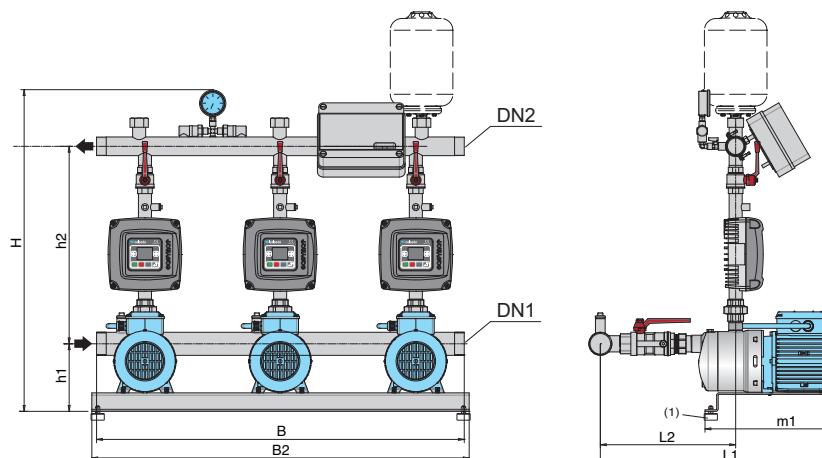
Characteristic and dimensions



Mains: 1~ 230V Motor: 3~ 230V	mains A	motor A	P2		Connection		mm							
			kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B	B2
BSM2V 2MXH 203E-EMT	3,2 x 2	2,4 x 2	0,37 x 2	0,5 x 2						560	323			
BSM2V 2MXH 204/A-EMT	4 x 2	2,8 x 2	0,55 x 2	0,75 x 2						610	347			
BSM2V 2MXH 205/B-EMT	5 x 2	3,5 x 2	0,75 x 2	1 x 2						633	371			
BSM2V 2MXH 206/C-EMT	6,3 x 2	4,7 x 2	1,1 x 2	1,5 x 2						729	395			
BSM2V 2MXH 403/A-EMT	4 x 2	2,8 x 2	0,55 x 2	0,75 x 2	G 2	G 1 1/2	800	162	486	586	323			
BSM2V 2MXH 404/B-EMT	5 x 2	3,5 x 2	0,75 x 2	1 x 2	G 2	G 1 1/2	800	162	486	610	347			
BSM2V 2MXH 405/C-EMT	6,7 x 2	4,7 x 2	1,1 x 2	1,5 x 2						705	371			
BSM2V 2MXH 406/A-EMT	8 x 2	6,2 x 2	1,5 x 2	2 x 2						729	395			
BSM2V 2MXH 803/A-EMT	7,1 x 2	5 x 2	1,1 x 2	1,5 x 2						730	386			
BSM2V 2MXH 804/A-EMT	8,6 x 2	6,2 x 2	1,5 x 2	2 x 2	G 2 1/2	G 2	806	162	492	760	416			
BSM2V 2MXH 805/B-EMT	10,7 x 2	7,5 x 2	1,8 x 2	2,5 x 2						830	446			
BSM2V 2MXH 1603/B-EMT	10,7 x 2	7,5 x 2	1,8 x 2	2,5 x 2	G 3	G 2 1/2	974	258	563	872	490	1090	600	625

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard



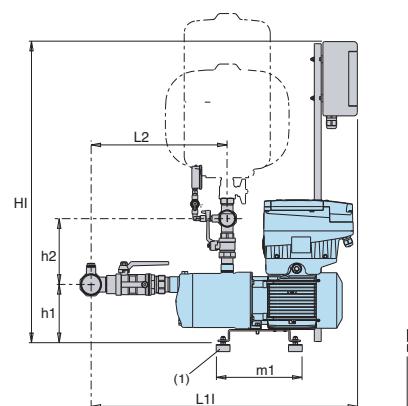
Mains: 1~ 230V Motor: 3~ 230V	mains A	motor A	P2		Connection		mm							
			kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B	B2
BSM3V 3MXH 203E-EMT	3,2 x 3	2,4 x 3	0,37 x 3	0,5 x 3						568	331			
BSM3V 3MXH 204/A-EMT	4 x 3	2,8 x 3	0,55 x 3	0,75 x 3						618	355			
BSM3V 3MXH 205/B-EMT	5 x 3	3,5 x 3	0,75 x 3	1 x 3	G 2 1/2	G 2	821	178	492	642	379			
BSM3V 3MXH 206/C-EMT	6,3 x 3	4,7 x 3	1,1 x 3	1,5 x 3						737	403			
BSM3V 3MXH 403/A-EMT	4 x 3	2,8 x 3	0,55 x 3	0,75 x 3						594	331			
BSM3V 3MXH 404/B-EMT	5 x 3	3,5 x 3	0,75 x 3	1 x 3	G 2 1/2	G 2	821	178	492	618	355			
BSM3V 3MXH 405/C-EMT	6,7 x 3	4,7 x 3	1,1 x 3	1,5 x 3						713	379			
BSM3V 3MXH 406/A-EMT	8 x 3	6,2 x 3	1,5 x 3	2 x 3						737	403			
BSM3V 3MXH 803/A-EMT	7,1 x 3	5 x 3	1,1 x 3	1,5 x 3						736	402			
BSM3V 3MXH 804/A-EMT	8,6 x 3	6,2 x 3	1,5 x 3	2 x 3	G 3	G 2 1/2	845	178	512	766	432			
BSM3V 3MXH 805/B-EMT	10,7 x 3	7,5 x 3	1,8 x 3	2,5 x 3						836	462			
BSM3V 3MXH 1603/B-EMT	10,7 x 3	7,5 x 3	1,8 x 3	2,5 x 3	DN 100	DN 80	1136	258	609	886	498	1090	1000	1000

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard

Dimensions and weights

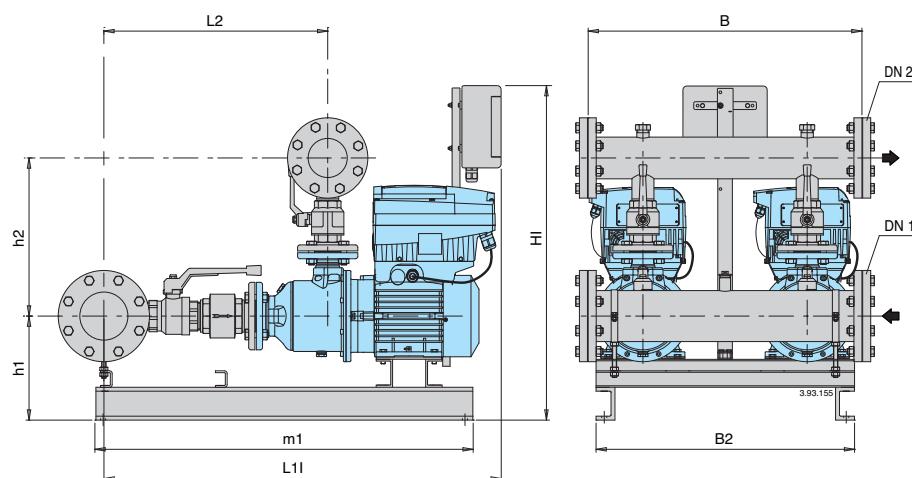
BS.. 2MXH 2,4,8



TYPE	Motor			Connection		mm							weight kg	
	kW	HP	A	DN 1	DN 2	H1	h1	h2	L1I	L2	m1	B2	B	
BS2V 2MXH 204/A-ITT	0,55 x2	0,75 x2	1,6 x2	G 2	G 1 1/2	848	162	187	725	347				47
BS2V 2MXH 205/B-ITT	0,75 x2	1 x2	2 x2	G 2	G 1 1/2	848	162	187	749	371				50
BS2V 2MXH 206/C-ITT	1,1 x2	1,5 x2	2,7 x2	G 2	G 1 1/2	848	162	187	773	395				54
BS2V 2MXH 403/A-ITT	0,55 x2	0,75 x2	1,6 x2	G 2	G 1 1/2	848	162	187	701	323				46
BS2V 2MXH 404/B-ITT	0,75 x2	1 x2	2 x2	G 2	G 1 1/2	848	162	187	725	347				49
BS2V 2MXH 405/C-ITT	1,1 x2	1,5 x2	2,7 x2	G 2	G 1 1/2	848	162	187	749	371	235	625	600	53
BS2V 2MXH 406/A-ITT	1,5 x2	2 x2	3,6 x2	G 2	G 1 1/2	848	162	187	773	395				57
BS2V 2MXH 803/A-ITT	1,1 x2	1,5 x2	2,7 x2	G 2 1/2	G 2	848	162	193	764	386				61
BS2V 2MXH 804/A-ITT	1,5 x2	2 x2	3,6 x2	G 2 1/2	G 2	848	162	193	794	416				66
BS2V 2MXH 805/B-ITT	1,8 x2	2,5 x2	4,3 x2	G 2 1/2	G 2	848	162	193	830	446				68
BS2V 2MXH 1603/B-ITT	1,8 x2	2,5 x2	4,3 x2	G 3	G 2 1/2	980	258	281	1065	490				87
BS2V 2MXH 1604/A-ITT	3 x2	4 x2	6,6 x2	G 3	G 2 1/2	980	273	281	1100	530				114
BS2V 2MXH 1605/B-ITT	3,7 x2	5 x2	9,6 x2	G 3	G 2 1/2	980	273	281	1133	565				122
BS2V 2MXH 1606/B-ITT	4 x2	5,5 x2	9,6 x2	G 3	G 2 1/2	980	273	281	1192	605	1090	625	600	124
BS2V 2MXH 2002/A-ITT	1,8 x2	2,5 x2	5,3 x2	G 3	G 2 1/2	980	220	351	1170	484				
BS2V 2MXH 2003-ITT	3 x2	4 x2	6,6 x2	G 3	G 2 1/2	980	230	351	1170	503				
BS2V 2MXH 2004/A-ITT	4 x2	5,5 x2	9,6 x2	G 3	G 2 1/2	980	230	351	1195	537				
BS2V 2MXH 2005-ITT	5,5 x2	7,5 x2	10,9 x2	G 3	G 2 1/2	980	252	351	1245	572				

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard

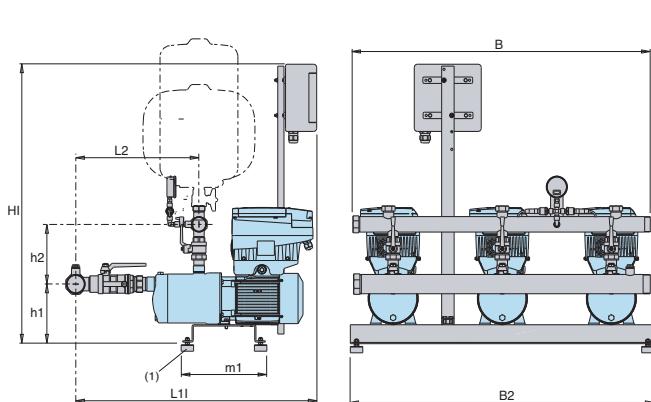


TYPE	Motor			Connection		mm							weight kg	
	kW	HP	A	DN 1	DN 2	H1	h1	h2	L1I	L2	m1	B2	B	
BS2V 2MXH-F 3202/B-ITT	4 x2	5,5 x2	9,6 x2	100	80	1180	298	402	1180	558	1010			243
BS2V 2MXH-F 3203/A-ITT	5,5 x2	7,5 x2	10,9 x2	100	80	1180	298	402	1274	604	1050			260
BS2V 2MXH-F 3204/A-ITT	7,5 x2	10 x2	14,3 x2	100	80	1180	298	402	1320	650	1110	750	750	286
BS2V 2MXH-F 4802/A-ITT	5,5 x2	7,5 x2	10,9 x2	125	100	1198	298	468	1306	654	1065			
BS2V 2MXH-F 4803/A-ITT	7,5 x2	10 x2	14,3 x2	125	100	1198	298	468	1367	716	1110			

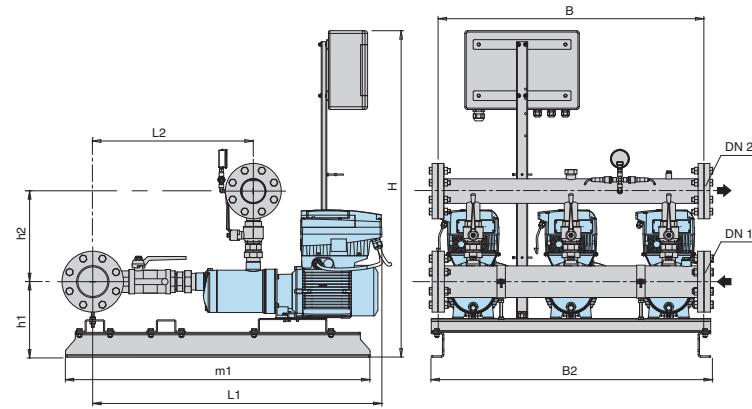
Dimensions not binding to be verified when ordering

Dimensions and weights

BS.. 3MXH 2,4,8



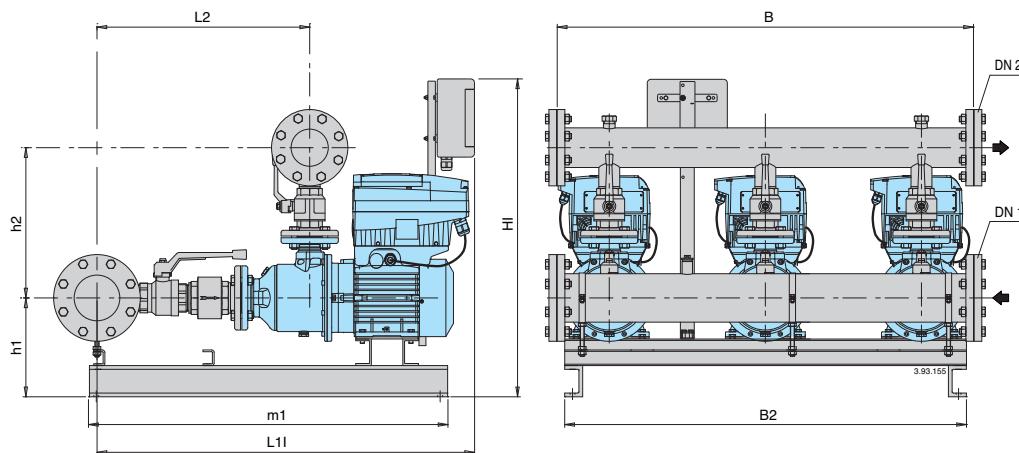
BS.. 3MXH 16



TYPE	Motor			Connection		mm							weight kg	
	kW	HP	A	DN 1	DN 2	HI	h1	h2	L11	L2	m1	B2	B	
BS3V 3MXH 204/A-ITT	0,55 x3	0,75 x3	1,6 x3	G 2 1/2	G 2	913	178	193	857	356				-
BS3V 3MXH 205/B-ITT	0,75 x3	1 x3	2 x3	G 2 1/2	G 2	913	178	193	881	380				
BS3V 3MXH 206/C-ITT	1,1 x3	1,5 x3	2,7 x3	G 2 1/2	G 2	913	178	193	905	404				
BS3V 3MXH 403/A-ITT	0,55 x3	0,75 x3	1,6 x3	G 2 1/2	G 2	913	178	193	833	332				
BS3V 3MXH 403/B-ITT	0,75 x3	1 x3	2 x3	G 2 1/2	G 2	913	178	193	857	356				
BS3V 3MXH 405/C-ITT	1,1 x3	1,5 x3	2,7 x3	G 2 1/2	G 2	913	178	193	881	390	423	1000	950	
BS3V 3MXH 406/A-ITT	1,5 x3	2 x3	3,6 x3	G 2 1/2	G 2	913	178	193	905	404				
BS3V 3MXH 803/A-ITT	1,1 x3	1,5 x3	2,7 x3	G 3	G 2 1/2	913	178	193	905	404				
BS3V 3MXH 804/A-ITT	1,5 x3	2 x3	3,6 x3	G 3	G 2 1/2	913	178	193	933	432				
BS3V 3MXH 805/B-ITT	1,8 x3	2,5 x3	4,3 x3	G 3	G 2 1/2	913	178	193	950	449				
BS3V 3MXH 1603/B-ITT	1,8 x3	2,5 x3	4,3 x3	DN 100	DN 80	980	258	321	1100	500				
BS3V 3MXH 1604/A-ITT	3 x3	4 x3	6,6 x3	DN 100	DN 80	980	273	321	1135	538				
BS3V 3MXH 1605/B-ITT	3,7 x3	5 x3	9,6 x3	DN 100	DN 80	980	273	321	1171	575				
BS3V 3MXH 1606/B-ITT	4 x3	5,5 x3	9,6 x3	DN 100	DN 80	980	273	321	1231	613				
BS3V 3MXH 2002/A-ITT	1,8 x3	2,5 x3	5,3 x3	DN 100	DN 80	980	290	391	1170	499	1090	1000	950	
BS3V 3MXH 2003-ITT	3 x3	4 x3	6,6 x3	DN 100	DN 80	980	290	391	1170	518				
BS3V 3MXH 2004/A-ITT	4 x3	5,5 x3	9,6 x3	DN 100	DN 80	980	290	391	1230	553				
BS3V 3MXH 2005-ITT	5,5 x3	7,5 x3	10,9 x3	DN 100	DN 80	980	252	391	1245	587				

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard

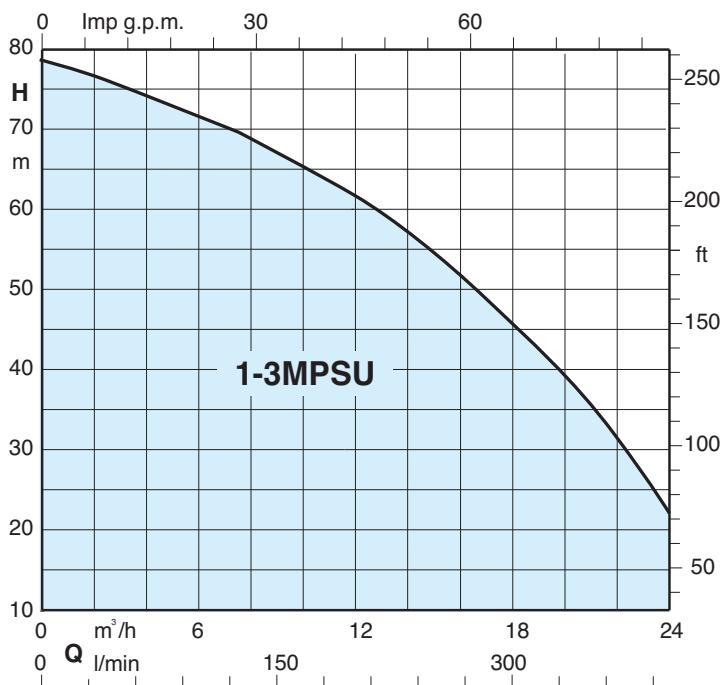


TYPE	Motor			Connection		mm							weight kg	
	kW	HP	A	DN 1	DN 2	HI	h1	h2	L11	L2	m1	B2	B	
BS3V 3MXH-F 3202/B-ITT	4 x3	5,5 x3	9,6 x3	125	100	1246	318	415	1180	571	1065			-
BS3V 3MXH-F 3203/A-ITT	5,5 x3	7,5 x3	10,9 x3	125	100	1246	318	415	1096	617	1060			
BS3V 3MXH-F 3204/A-ITT	7,5 x3	10 x3	14,3 x3	125	100	1246	318	415	1320	663	1110	1150	1200	
BS3V 3MXH-F 4802/A-ITT	5,5 x3	7,5 x3	10,9 x3	150	125	1246	316	480	1320	668	1065			
BS3V 3MXH-F 4803/A-ITT	7,5 x3	10 x3	14,3 x3	150	125	1246	316	480	1381	750	1110			

Dimensions not binding to be verified when ordering



Coverage chart



Operation

BS 2-6F Pressure boosting sets with 2 to 6 fixed speed pump.

Sets with 4,5 and 6 pumps on request.

Depending on the reduction of the pressure in the system, the pressure switches (pressure transducer for 3-pump sets) determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS1-3V Pressure boosting sets with 1 to 3 variable speed pumps (with EASYMAT).

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Construction

- Automatic pressure boosting plant consisting of 1 to 6 vertical multi-stage close coupled pumps complete with ball, non return valve on the suction side and ball valves on the delivery side.

Suction and delivery manifolds for boosting sets with 2,3 pumps:

- stainless steel AISI 304.

Connections are located on the delivery manifold for the installation of vessels G1 connection.

Electrical control boards:

- with microprocessor for fixed speed pump units.
- with frequency converter for variable speed pump units.

The unit includes one pressure gauge and three adjustable differential pressure switches or pressure transducer.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n \approx 2900$ rpm, suitable for operation with frequency converter.

- Three-phase 230V - 400V $\pm 10\%$;
- Single-phase 230 V $\pm 10\%$.

Insulation class F.

Protection IP 68.

Constructed in accordance with: IEC 60034.

Other voltages and frequencies on request.

Vessels on request

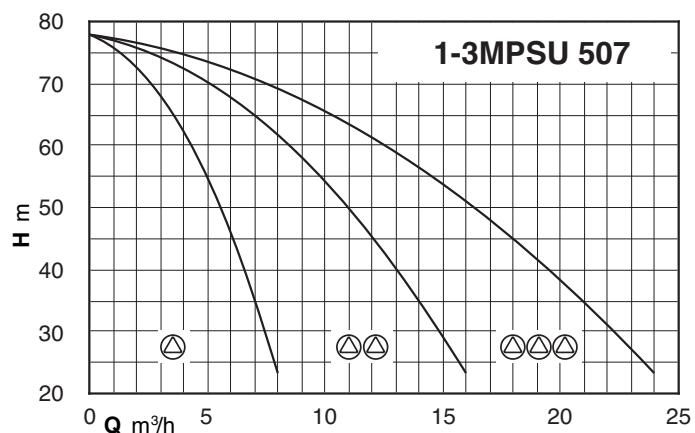
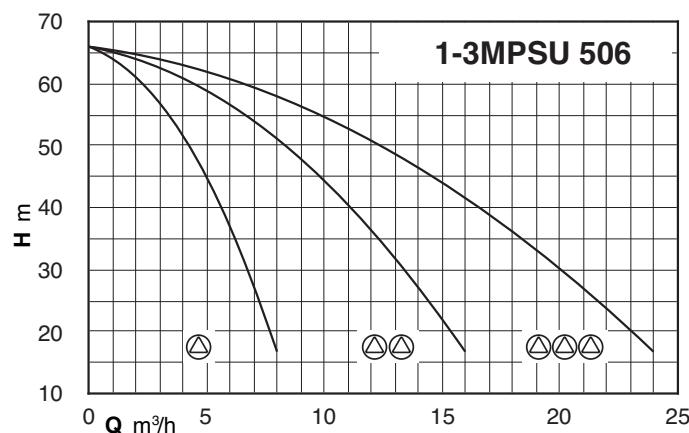
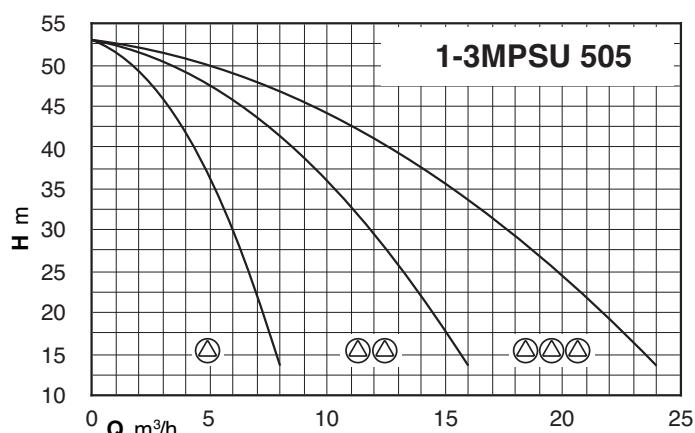
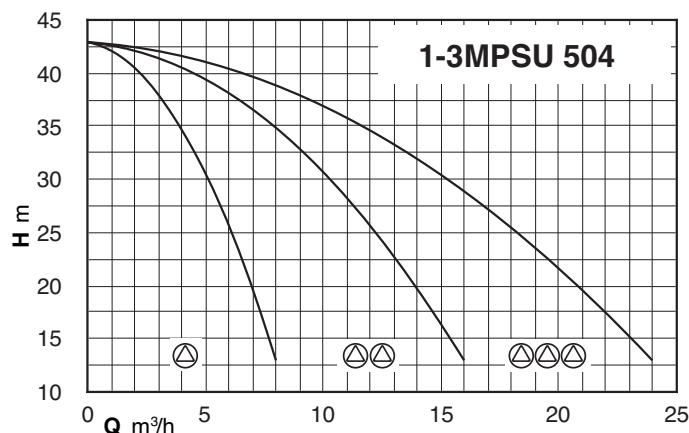
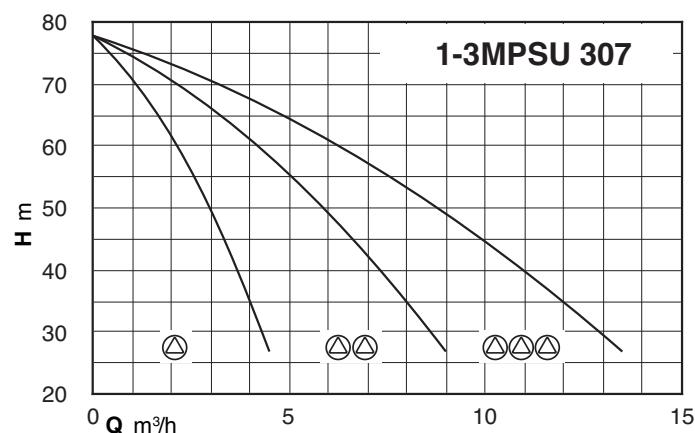
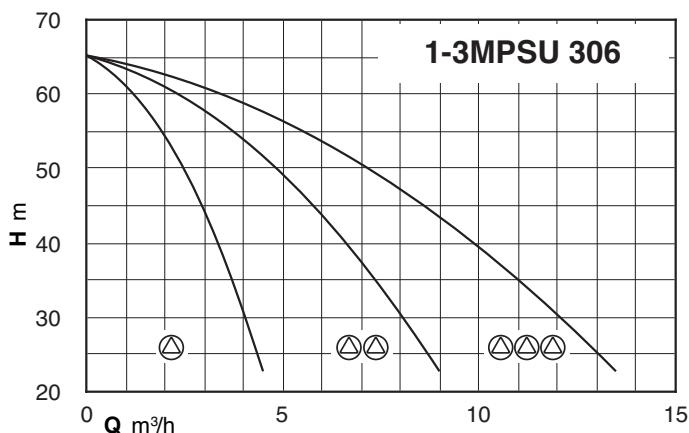
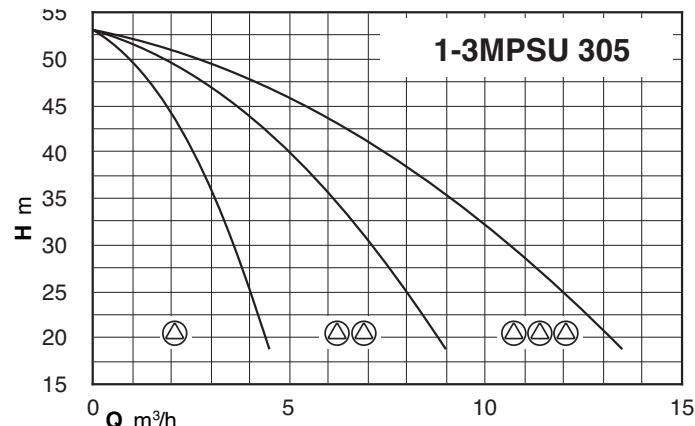
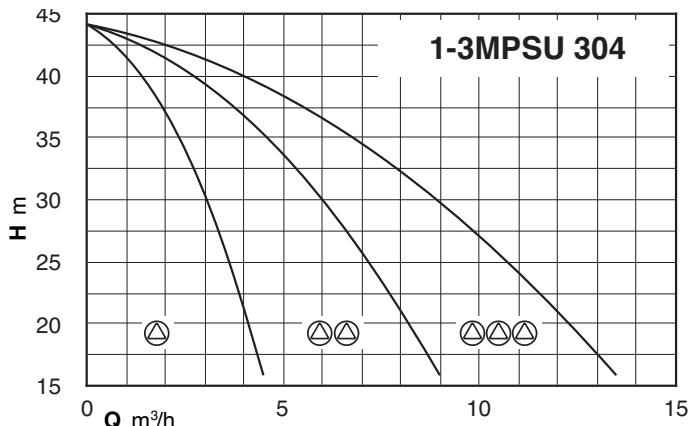
When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.

The recommended sizes are shown in the following page.

Special features on request

Pressure boosting sets with 4,5 and 6 pumps.

Coverage chart



Performance

BS2F

BSM2F

Mains: 400V 3~ Motor: 400V 3~	Alimentazione 230V 1~ Motore 230V 1~	Motor		Pres. switch 1 bar		Pres. switch 2 bar		Vessel Membrane litre	Vessel litre
		kW	HP	min	max	min	max		
BS2F 2MPSU 304	BSM2F 2MPSUM 304	0,55 x2	0,75 x2	1,8	2,6	1,5	2,3	40	100
BS2F 2MPSU 305	BSM2F 2MPSUM 305	0,75 x2	1 x2	2,3	3,1	2	2,8	40	100
BS2F 2MPSU 306	BSM2F 2MPSUM 306	0,9 x2	1,2 x2	3	3,9	2,7	3,6	50	100
BS2F 2MPSU 307	BSM2F 2MPSUM 307	0,9 x2	1,2 x2	2,9	4,4	2,6	4,1	50	100
BS2F 2MPSU 504	BSM2F 2MPSUM 504	0,9 x2	1,2 x2	2,7	3,5	2,4	3,2	60	100
BS2F 2MPSU 505	BSM2F 2MPSUM 505	1,1 x2	1,5 x2	3,4	4,3	3,1	4	80	200
BS2F 2MPSU 506	BSM2F 2MPSUM 506	1,1 x2	1,5 x2	3,6	5,2	3,4	4,9	150	200
BS2F 2MPSU 507	BSM2F 2MPSUM 507	1,5 x2	2 x2	4,6	6,3	4,3	6	150	200

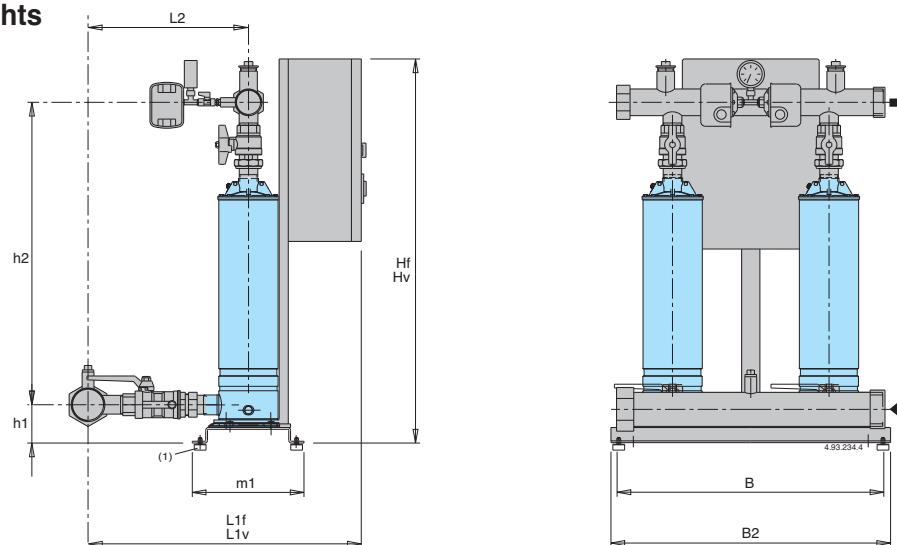
BS3F

Mains: 400V 3~ Motor: 400V 3~	Motor		Pressure transducer bar		Vessel Membrane litre	Vessel litre
	kW	HP	min	max		
BS3F 3MPSU 304	0,55 x3	0,75 x3	1,8	2,6	24x2	100
BS3F 3MPSU 305	0,75 x3	1 x3	2,3	3,1	24x2	100
BS3F 3MPSU 306	0,9 x3	1,2 x3	3	3,9	24x2	100
BS3F 3MPSU 307	0,9 x3	1,2 x3	2,9	4,4	24x2	100
BS3F 3MPSU 504	0,9 x3	1,2 x3	2,7	3,5	150	200
BS3F 3MPSU 505	1,1 x3	1,5 x3	3,4	4,3	150	200
BS3F 3MPSU 506	1,1 x3	1,5 x3	3,6	5,2	150	200
BS3F 3MPSU 507	1,5 x3	2 x3	4,6	6,3	150	200

BS.. --EMT, EMM

PUMPS Nos			PUMP TYPE	P ₂ For each pump	
1	2	3		kW	HP
BS1V -EMT -EMM	BS2V -EMT	BS3V -EMT	MPSU 304-EMT	0,55	0,75
			MPSU 305-EMT	0,75	1
			MPSU 306-EMT	0,9	1,2
			MPSU 307-EMT	0,9	1,2
			MPSU 504-EMT	0,9	1,2
			MPSU 505-EMT	1,1	1,5
			MPSU 506-EMT	1,1	1,5
			MPSU 507-EMT	1,5	2

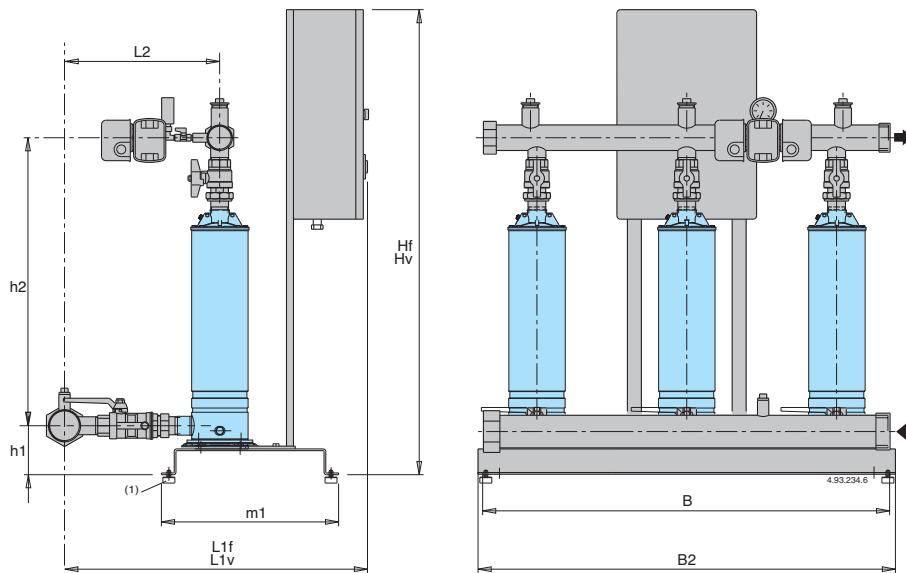
Dimensions and weights



TYPE	TYPE	Connection		mm										weight kg
		DN 1	DN 2	Hf	Hv	h1	h2	L1f	L1v	L2	m1	B	B2	
BS.. 2MPSU 304	BSM.. 2MPsum 304					629								50 - 50
BS.. 2MPSU 305	BSM.. 2MPsum 305					698								52 - 52
BS.. 2MPSU 306	BSM.. 2MPsum 306					722								54 - 55
BS.. 2MPSU 307	BSM.. 2MPsum 307					746								56 - 58
BS.. 2MPSU 504	BSM.. 2MPsum 504	G 2	G 2	865	1135	84	674	690	740	320	240	600	625	52 - 52
BS.. 2MPSU 505	BSM.. 2MPsum 505					698								54 - 54
BS.. 2MPSU 506	BSM.. 2MPsum 506					767								56 - 57
BS.. 2MPSU 507	BSM.. 2MPsum 507					816								58 - 60

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard



TYPE	Connection		mm										weight kg	
	DN 1	DN 2	Hf	Hv	h1	h2	L1f	L1v	L2	m1	B	B2		
BS.. 3MPSU 304					636									85
BS.. 3MPSU 305					705									88
BS.. 3MPSU 306					729									91
BS.. 3MPSU 307					753									94
BS.. 3MPSU 504	G 2 1/2	G 2	1090	1260	105	681	735	805	329	406	950	1000		87
BS.. 3MPSU 505					705									90
BS.. 3MPSU 506					774									93
BS.. 3MPSU 507					823									96

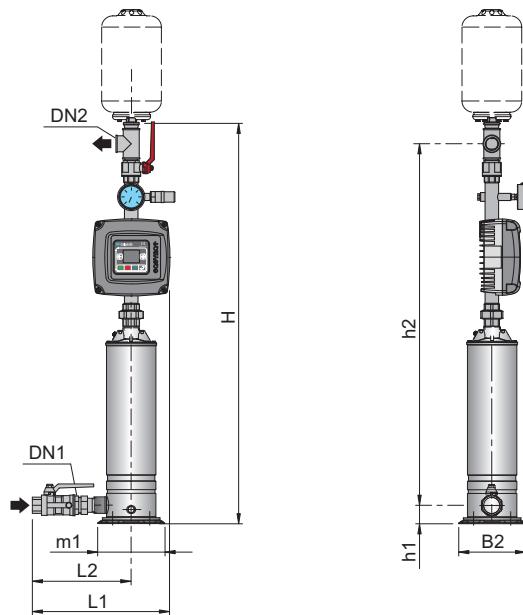
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(1) Anti-vibration pads kit supplied loose as standard

Hf= Fixed speed boosting sets

Hv= Variable speed boosting sets

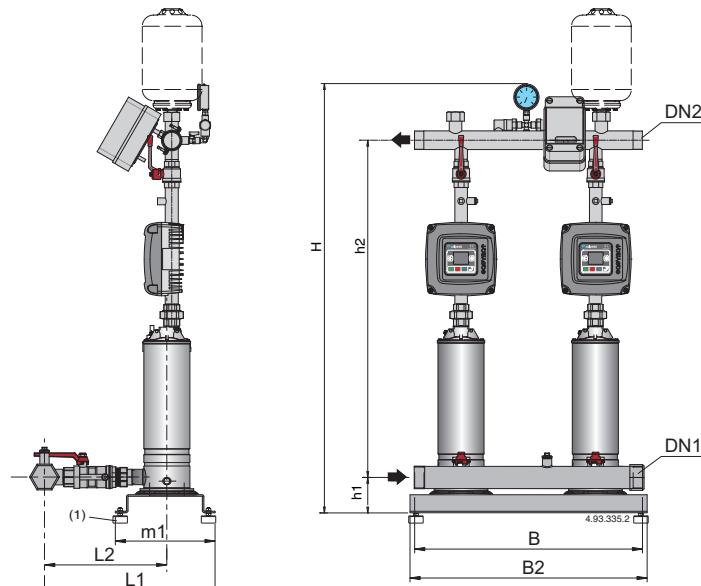
Characteristic and dimensions



Mains: 1~ 230V Motor: 3~ 230V	mains		Mains: 1~ 230V Motor: 1~ 230V		P2		Connection		mm					
	A	A	A	kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B2
BSM1V 1MPSU 304-EMT	3,9	2,8	BSM1V 1MPSUM 304-EMM	4,1	0,55	0,75		1055		952				
BSM1V 1MPSU 305-EMT	4,7	3,3	BSM1V 1MPSUM 305-EMM	5	0,75	1		1124	50	1021				
BSM1V 1MPSU 306-EMT	5,4	3,8	BSM1V 1MPSUM 306-EMM	6	0,9	1,2	G 1 1/4	1148		1045	376	286	180	205
BSM1V 1MPSU 307-EMT	6,4	4,5	BSM1V 1MPSUM 307-EMM	6,6	0,9	1,2		1172		1069				
BSM1V 1MPSU 504-EMT	6,4	3,8	BSM1V 1MPSUM 504-EMM	6	0,9	1,2		1100		997				
BSM1V 1MPSU 505-EMT	6,4	4,5	BSM1V 1MPSUM 505-EMM	7	1,1	1,5	G 1 1/4	1124	50	1021				
BSM1V 1MPSU 506-EMT	6,9	4,8			1,1	1,5	G 1 1/4	1193		1090	376	286	180	205
BSM1V 1MPSU 507-EMT	9,7	6,8				1,5		1142		1139				

Dimensions not binding to be verified when ordering

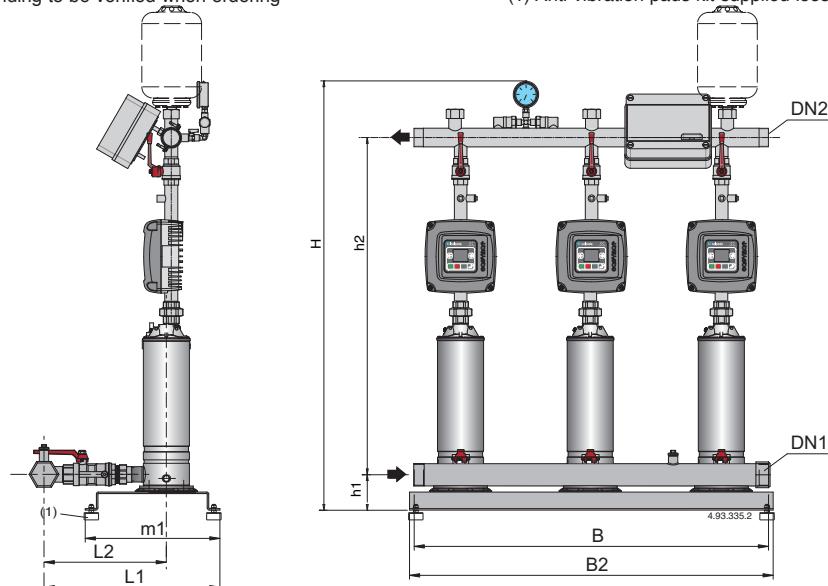
Characteristic and dimensions



Mains: 1~ 230V Motor: 3~ 230V			P2		Connection		mm							
	mains A	motor A	kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B	B2
BSM2V 2MPSU 304-EMT	2x3,9	2x2,8	2x0,55	2x0,75			1130		932					
BSM2V 2MPSU 305-EMT	2x4,7	2x3,3	2x0,75	2x1			1199		1001					
BSM2V 2MPSU 306-EMT	2x5,4	2x3,8	2x0,9	2x1,2	G 2	G 2	1223	84	1025	420	320	240	600	625
BSM2V 2MPSU 307-EMT	2x6,4	2x4,5	2x0,9	2x1,2			1247		1049					
BSM2V 2MPSU 504-EMT	2x6,4	2x3,8	2x0,9	2x1,2			1175		977					
BSM2V 2MPSU 505-EMT	2x6,4	2x4,5	2x1,1	2x1,5	G 2	G 2	1199	84	1001	420	320	240	600	625
BSM2V 2MPSU 506-EMT	2x6,9	2x4,8	2x1,1	2x1,5			1268		1070					
BSM2V 2MPSU 507-EMT	2x9,7	2x6,8	2x1,5	2x2			1317		1119					

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard



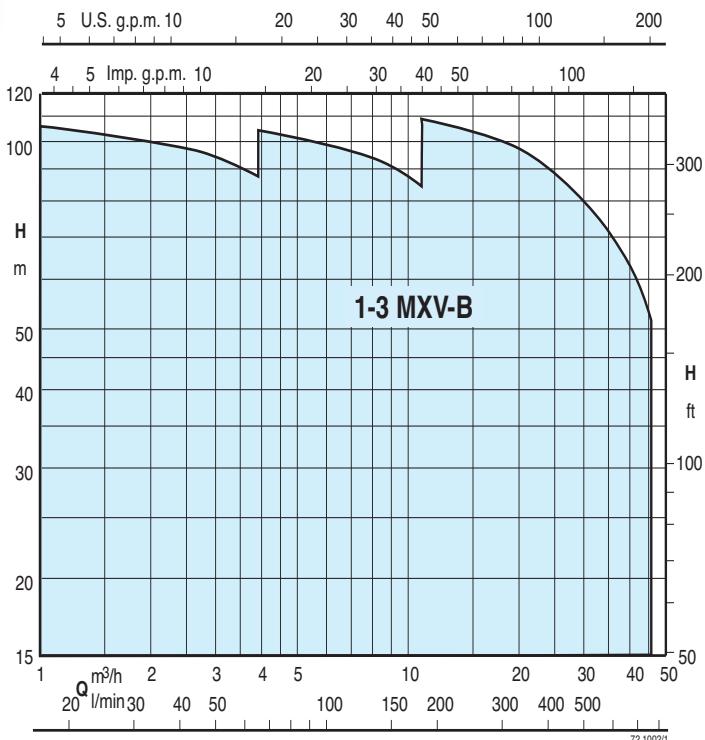
Mains: 1~ 230V Motor: 3~ 230V			P2		Connection		mm							
	mains A	motor A	kW	HP	DN1	DN2	H	h1	h2	L1	L2	m1	B	B2
BSM3V 3MPSU 304-EMT	3x3,9	3x2,8	3x0,55	3x0,75			1151		953					
BSM3V 3MPSU 305-EMT	3x4,7	3x3,3	3x0,75	3x1	G 2 1/2	G 2	1120	105	1022	566	329	406	950	1000
BSM3V 3MPSU 306-EMT	3x5,4	3x3,8	3x0,9	3x1,2			1244		1046					
BSM3V 3MPSU 307-EMT	3x6,4	3x4,5	3x0,9	3x1,2			1268		1070					
BSM3V 3MPSU 504-EMT	3x6,4	3x3,8	3x0,9	3x1,2			1196		998					
BSM3V 3MPSU 505-EMT	3x6,4	3x4,5	3x1,1	3x1,5	G 2 1/2	G 2	1220	105	1022	566	329	406	950	1000
BSM3V 3MPSU 506-EMT	3x6,9	3x4,8	3x1,1	3x1,5			1286		1091					
BSM3V 3MPSU 507-EMT	3x9,7	3x6,8	3x1,5	3x2			1338		1140					

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard



Coverage chart



Operation

BS1-3V Pressure boosting sets with 1 to 3 variable speed pumps (with EASYSAT).

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Construction

- Automatic pressure boosting plant consisting of 1 to 6 vertical multi-stage pumps complete with ball, non return valve on the suction side and ball valves on the delivery side.

Suction and delivery manifolds for boosting sets with 2,3 pumps:

- stainless steel AISI 304.

Connections are located on the delivery manifold for the installation of vessels G1 connection.

Electrical control boards:

- with microprocessor for fixed speed pump units. Motor starting is D.O.L.
- with frequency converter for variable speed pump units.

The unit includes one pressure gauge and three adjustable differential pressure switches or pressure transducer.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n \approx 2900$ rpm, suitable for operation with frequency converter.

- Three-phase 230/400V $\pm 10\%$.
- Single-phase 230 V $\pm 10\%$, with thermal protector.

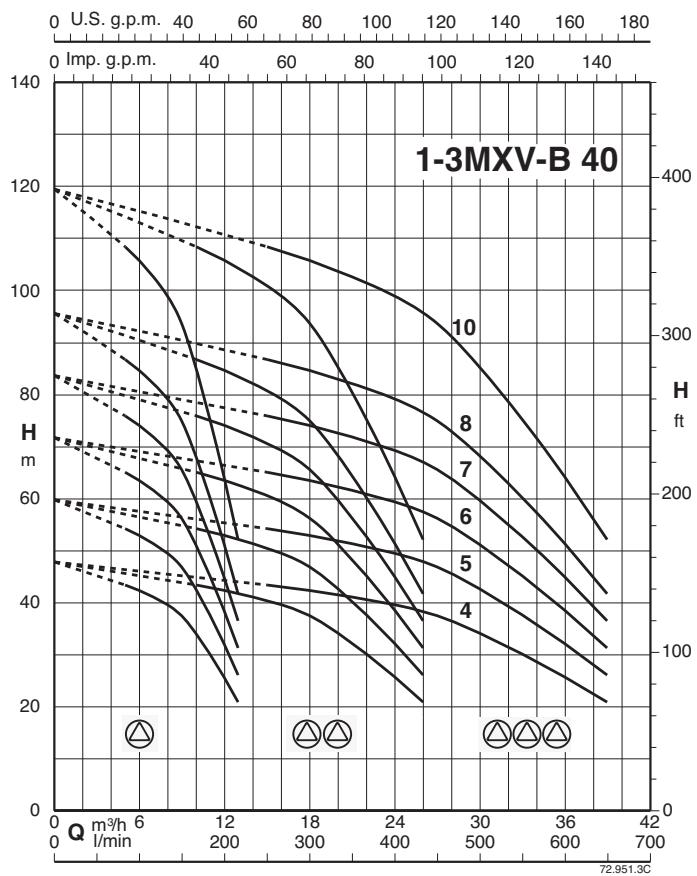
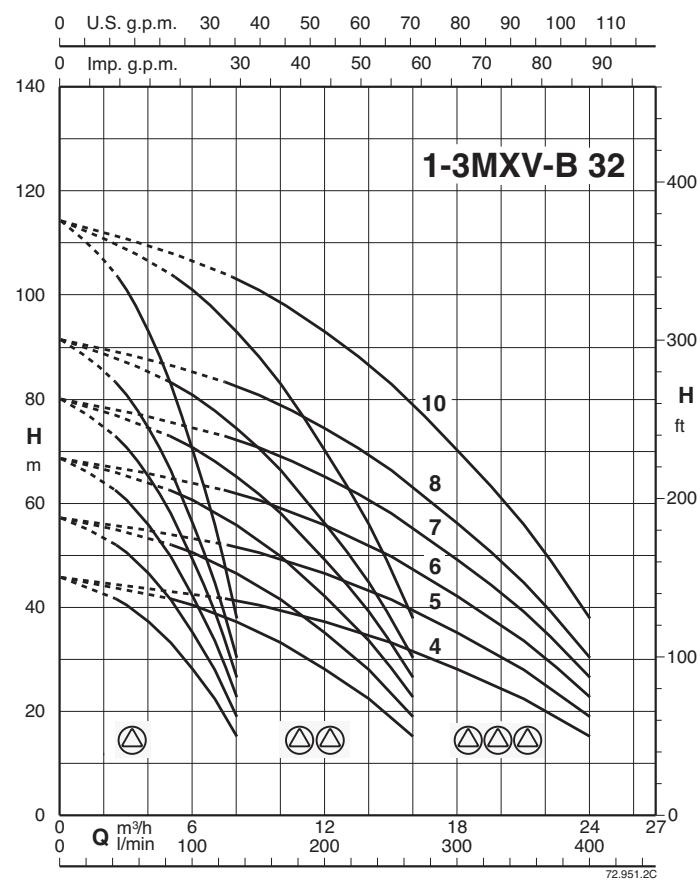
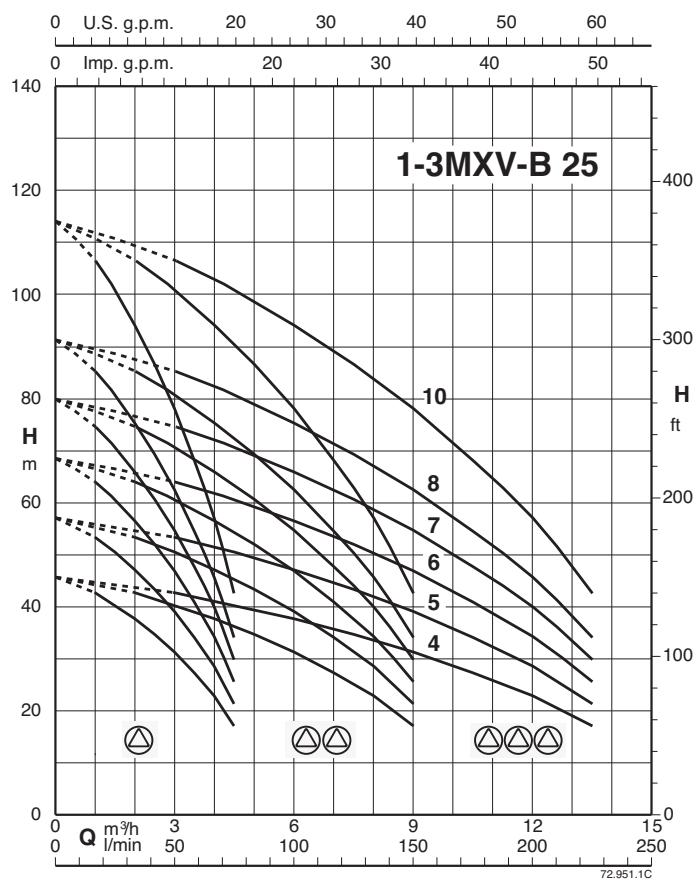
Insulation class F.

Protection IP 54.

Constructed in accordance with: IEC 60034.

Other voltages and frequencies on request.

Coverage chart

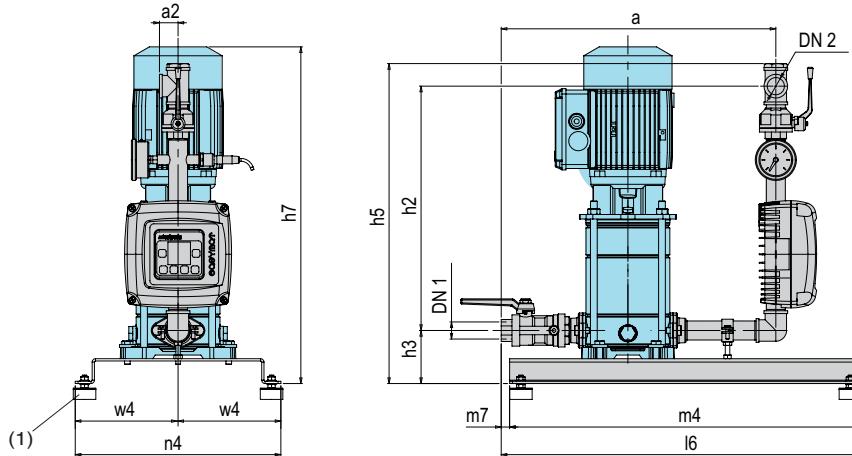


Performance

BS.. ..-EMT, EMM

PUMPS Nos			PUMP TYPE	P ₂ For each pump	
1	2	3		kW	HP
BS1V -EMT -EMM	BS2V -EMT	BS3V -EMT	MXV-B 25-304 O-EMT	0,75	1
			MXV-B 25-305 O-EMT	0,75	1
			MXV-B 25-306 O-EMT	1,1	1,5
			MXV-B 25-307 O-EMT	1,1	1,5
			MXV-B 25-308 O-EMT	1,5	2
			MXV-B 25-310 O-EMT	1,5	2
			MXV-B 32-504 O-EMT	1,1	1,5
			MXV-B 32-505 O-EMT	1,1	1,5
			MXV-B 32-506 O-EMT	1,5	2
			MXV-B 32-507 O-EMT	1,5	2
			MXV-B 32-508 O-EMT	2,2	3
			MXV-B 32-510 O-EMT	2,2	3
			MXV-B 40-904 O-EMT	1,5	2
			MXV-B 40-905 O-EMT	2,2	3
			MXV-B 40-906 O-EMT	2,2	3

Characteristic and dimensions



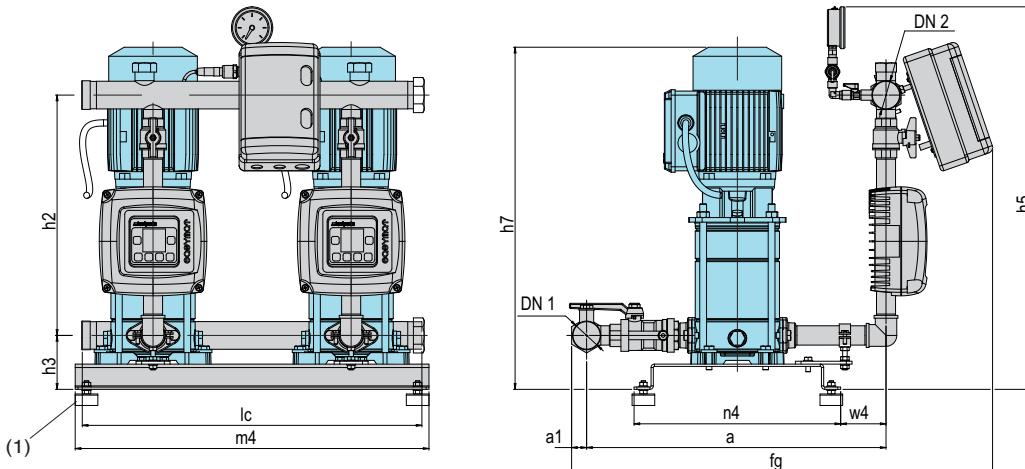
Mains: 1~ 230V Motor: 1~ 230V	A	P2		Connection		mm											
		kW	HP	DN1	DN2	h3	h7	l6	m4	m7	n4	w4	h2	h5	a2	a	
BSM1V 1 MXV-BM 25-304 O-EMM	5,8	0,75	1			597											
BSM1V 1 MXV-BM 25-305 O-EMM	5,8	0,75	1	G 1	G 1	621											
BSM1V 1 MXV-BM 25-306 O-EMM	7,4	1,1	1,5			645											
BSM1V 1 MXV-BM 25-307 O-EMM	7,4	1,1	1,5			669											
BSM1V 1 MXV-BM 32-504 O-EMM	7,4	1,1	1,5	G 1 1/4	G 1 1/4	645											
BSM1V 1 MXV-BM 32-505 O-EMM	7,4	1,1	1,5			669											

Mains: 1~ 230V Motor: 3~ 230V	mains A	motor A	P2		Connection		mm											
			kW	HP	DN1	DN2	h3	h7	l6	m4	m7	n4	w4	h2	h5	a2	a	
BSM1V 1 MXV-B 25-304 O-EMT	5,4	3,3	0,75	1			597											
BSM1V 1 MXV-B 25-305 O-EMT	5,4	3,3	0,75	1	G 1	G 1	621											
BSM1V 1 MXV-B 25-306 O-EMT	7,1	4,7	1,1	1,5			645											
BSM1V 1 MXV-B 25-307 O-EMT	7,1	4,7	1,1	1,5			669											
BSM1V 1 MXV-B 25-308 O-EMT	10,8	7,5	1,5	2			693											
BSM1V 1 MXV-B 25-310 O-EMT	10,8	7,5	1,5	2			741											
BSM1V 1 MXV-B 32-504 O-EMT	7,1	4,7	1,1	1,5			597											
BSM1V 1 MXV-B 32-505 O-EMT	7,1	4,7	1,1	1,5	G 1 1/4	G 1 1/4	621											
BSM1V 1 MXV-B 32-506 O-EMT	10,8	7,5	1,5	2			645											
BSM1V 1 MXV-B 32-507 O-EMT	10,8	7,5	1,5	2			669											
BSM1V 1 MXV-B 32-508 O-EMT	13,2	9,15	2,2	3			733											
BSM1V 1 MXV-B 32-510 O-EMT	13,2	9,15	2,2	3			781											
BSM1V 1 MXV-B 40-904 O-EMT	10,8	7,5	1,5	2			645											
BSM1V 1 MXV-B 40-905 O-EMT	13,2	9,15	2,2	3	G 1 1/2	G 1 1/2	715											
BSM1V 1 MXV-B 40-906 O-EMT	13,2	9,15	2,2	3			745											

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard

Characteristic and dimensions

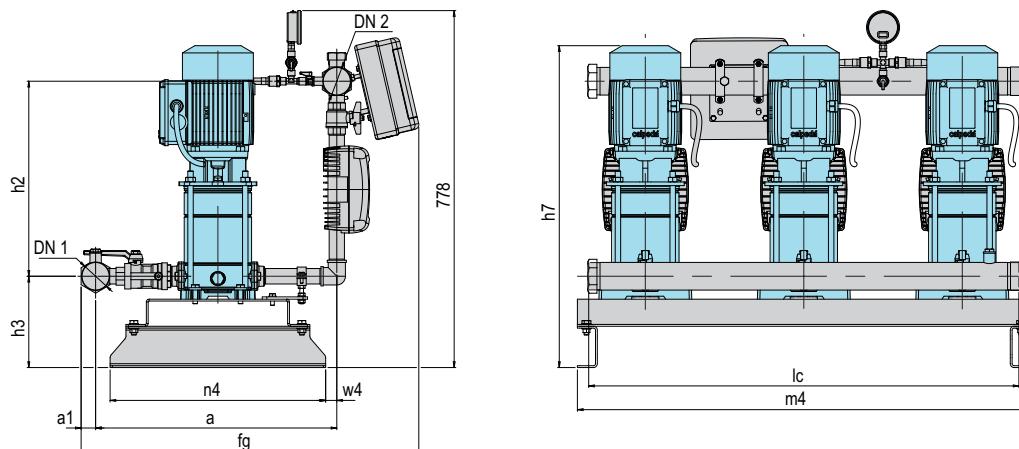


Mains: 1~ 230V Motor: 3~ 230V	mains A	motor A	P2		Connection		mm											
			kW	HP	DN1	DN2	a	a1	fg	h2	h3	h7	l2	m4	m7	n4	w4	h5
BSM2V 2 MXV-B 25-304 O-EMT	2 x 5,4	2 x 3,3	2 x 0,75	2 x 1								597						
BSM2V 2 MXV-B 25-305 O-EMT	2 x 5,4	2 x 3,3	2 x 0,75	2 x 1								621						
BSM2V 2 MXV-B 25-306 O-EMT	2 x 7,1	2 x 4,7	2 x 1,1	2 x 1,5								645						
BSM2V 2 MXV-B 25-307 O-EMT	2 x 7,1	2 x 4,7	2 x 1,1	2 x 1,5								669						
BSM2V 2 MXV-B 25-308 O-EMT	2 x 10,8	2 x 7,5	2 x 1,5	2 x 2								693						
BSM2V 2 MXV-B 25-310 O-EMT	2 x 10,8	2 x 7,5	2 x 1,5	2 x 2								741						
BSM2V 2 MXV-B 32-504 O-EMT	2 x 7,1	2 x 4,7	2 x 1,1	2 x 1,5								597						
BSM2V 2 MXV-B 32-505 O-EMT	2 x 7,1	2 x 4,7	2 x 1,1	2 x 1,5								621						
BSM2V 2 MXV-B 32-506 O-EMT	2 x 10,8	2 x 7,5	2 x 1,5	2 x 2								645						
BSM2V 2 MXV-B 32-507 O-EMT	2 x 10,8	2 x 7,5	2 x 1,5	2 x 2								669						
BSM2V 2 MXV-B 32-508 O-EMT	2 x 13,2	2 x 9,15	2 x 2,2	2 x 3								733						
BSM2V 2 MXV-B 32-510 O-EMT	2 x 13,2	2 x 9,15	2 x 2,2	2 x 3								781						
BSM2V 2 MXV-B 40-904 O-EMT	2 x 10,8	2 x 7,5	2 x 1,5	2 x 2								645						
BSM2V 2 MXV-B 40-905 O-EMT	2 x 13,2	2 x 9,15	2 x 2,2	2 x 3								715						
BSM2V 2 MXV-B 40-906 O-EMT	2 x 13,2	2 x 9,15	2 x 2,2	2 x 3								745						

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard

Characteristic and dimensions

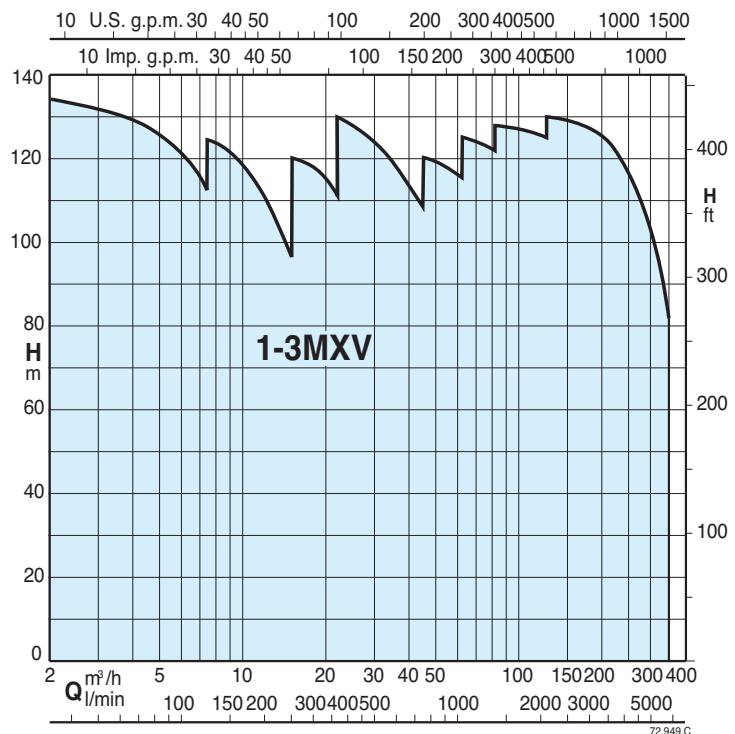


Mains: 1~ 230V Motor: 3~ 230V	mains A	motor A	P2		Connection		mm										
			kW	HP	DN1	DN2	a	a1	fg	h2	h3	h7	lc	m4	m7	n4	w4
BSM3V 3 MXV-B 25-304 O-EMT	3 x 5,4	3 x 3,3	3 x 0,75	3 x 1							702						
BSM3V 3 MXV-B 25-305 O-EMT	3 x 5,4	3 x 3,3	3 x 0,75	3 x 1							726						
BSM3V 3 MXV-B 25-306 O-EMT	3 x 7,1	3 x 4,7	3 x 1,1	3 x 1,5							750						
BSM3V 3 MXV-B 25-307 O-EMT	3 x 7,1	3 x 4,7	3 x 1,1	3 x 1,5							774						
BSM3V 3 MXV-B 25-308 O-EMT	3 x 10,8	3 x 7,5	3 x 1,5	3 x 2							798						
BSM3V 3 MXV-B 25-310 O-EMT	3 x 10,8	3 x 7,5	3 x 1,5	3 x 2							846						
BSM3V 3 MXV-B 32-504 O-EMT	3 x 7,1	3 x 4,7	3 x 1,1	3 x 1,5							702						
BSM3V 3 MXV-B 32-505 O-EMT	3 x 7,1	3 x 4,7	3 x 1,1	3 x 1,5							726						
BSM3V 3 MXV-B 32-506 O-EMT	3 x 10,8	3 x 7,5	3 x 1,5	3 x 2							750						
BSM3V 3 MXV-B 32-507 O-EMT	3 x 10,8	3 x 7,5	3 x 1,5	3 x 2							774						
BSM3V 3 MXV-B 32-508 O-EMT	3 x 13,2	3 x 9,15	3 x 2,2	3 x 3							838						
BSM3V 3 MXV-B 32-510 O-EMT	3 x 13,2	3 x 9,15	3 x 2,2	3 x 3							886						
BSM3V 3 MXV-B 40-904 O-EMT	3 x 10,8	3 x 7,5	3 x 1,5	3 x 2							750						
BSM3V 3 MXV-B 40-905 O-EMT	3 x 13,2	3 x 9,15	3 x 2,2	3 x 3							820						
BSM3V 3 MXV-B 40-906 O-EMT	3 x 13,2	3 x 9,15	3 x 2,2	3 x 3							850						

Dimensions not binding to be verified when ordering



Coverage chart



Operation

BS 1-6F Pressure boosting sets with 1 to 6 fixed speed pump.

Sets with 4,5 and 6 pumps on request.

Depending on the reduction of the pressure in the system, the pressure switches (pressure transducer for 3-pump sets) determine the starting up of the pumps in sequence and the microprocessor alternates the starts.

BS2-3V Pressure boosting sets with 2 to 3 variable speed pumps (with I-MAT).

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

Construction

- Automatic pressure boosting plant consisting of 1 to 6 vertical multi-stage pumps complete with ball, non return valve on the suction side and ball valves on the delivery side.

Suction and delivery manifolds for boosting sets with 2,3 pumps:

- stainless steel AISI 304.

Connections are located on the delivery manifold for the installation of vessels G1 connection.

Electrical control boards:

- with microprocessor for fixed speed pump units. Motor starting is D.O.L. up to 5,5 kW and Y/Δ for power rating 7,5 up to 37 kW.
 - with frequency converter for variable speed pump units.

The unit includes one pressure gauge and three adjustable differential pressure switches or pressure transducer.

Applications

To supply water in civil and industrial buildings.

As pressure boosting pump to increase water pressure when needed (follow local rules).

Motors

2-pole induction motors, 50 Hz, $n \approx 2900$ rpm, suitable for operation with frequency converter.

- Three-phase 230/400V $\pm 10\%$ up to 3 kW;
 400/690V $\pm 10\%$ for 4 kW to 37 kW;
- Single-phase 230 V $\pm 10\%$, (on request).

Insulation class F.

Protection IP 55.

Constructed in accordance with: IEC 60034.

Other voltages and frequencies on request.

Vessels on request

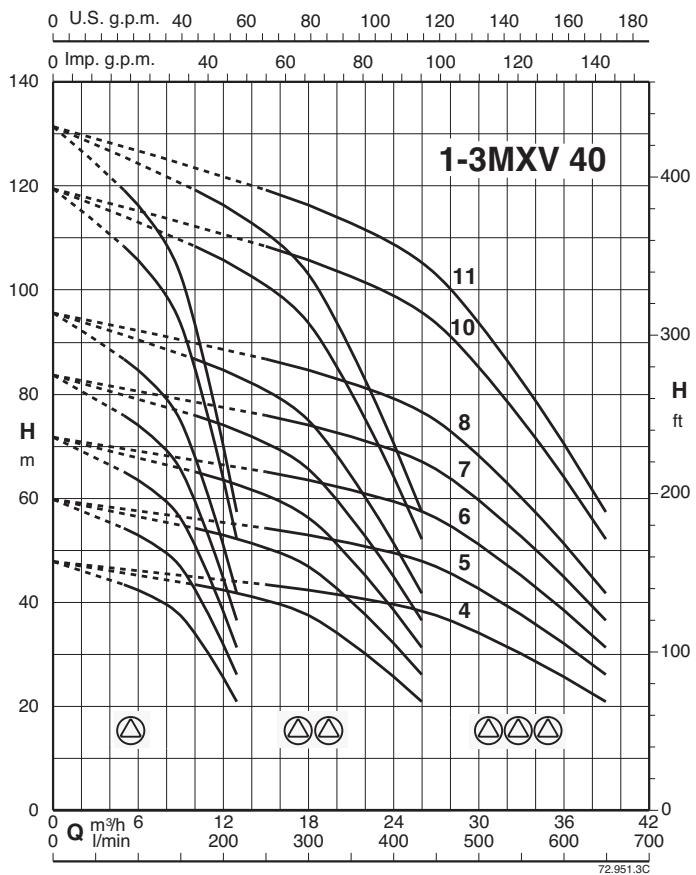
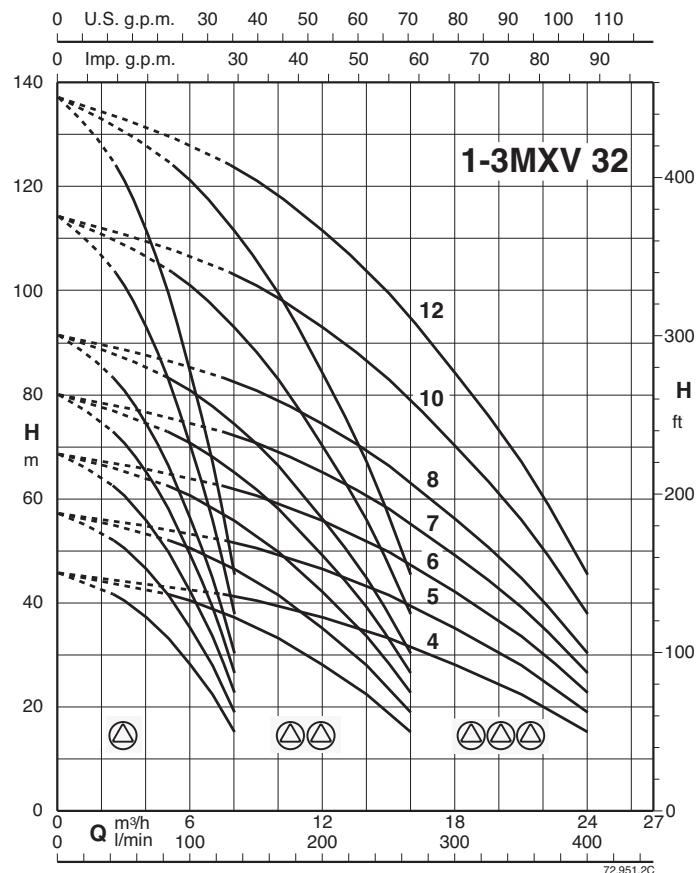
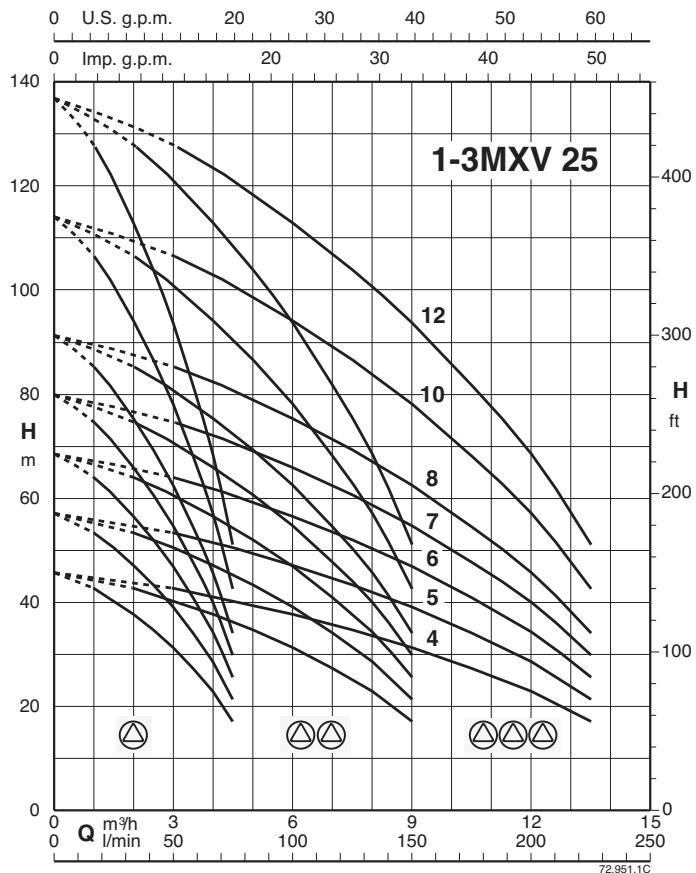
When installing the unit, connect in the delivery section to a diaphragm or galvanised tank.

The recommended sizes are shown in the following page.

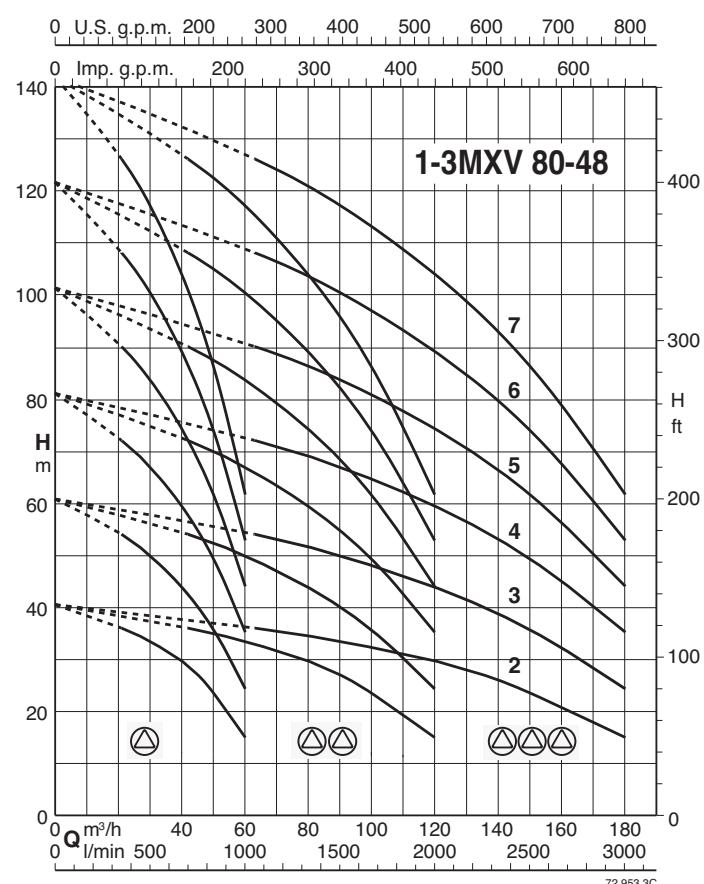
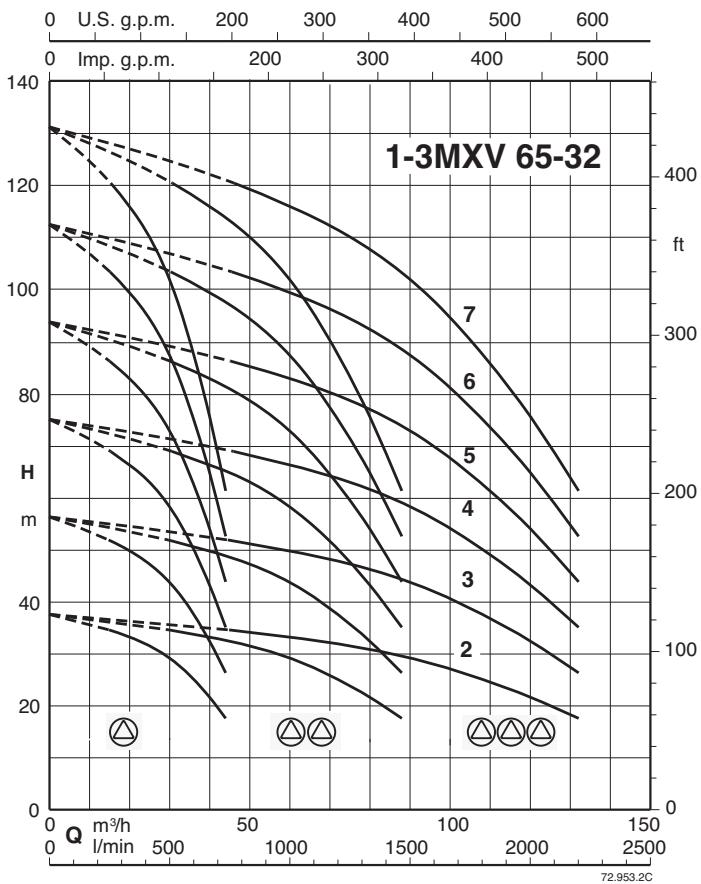
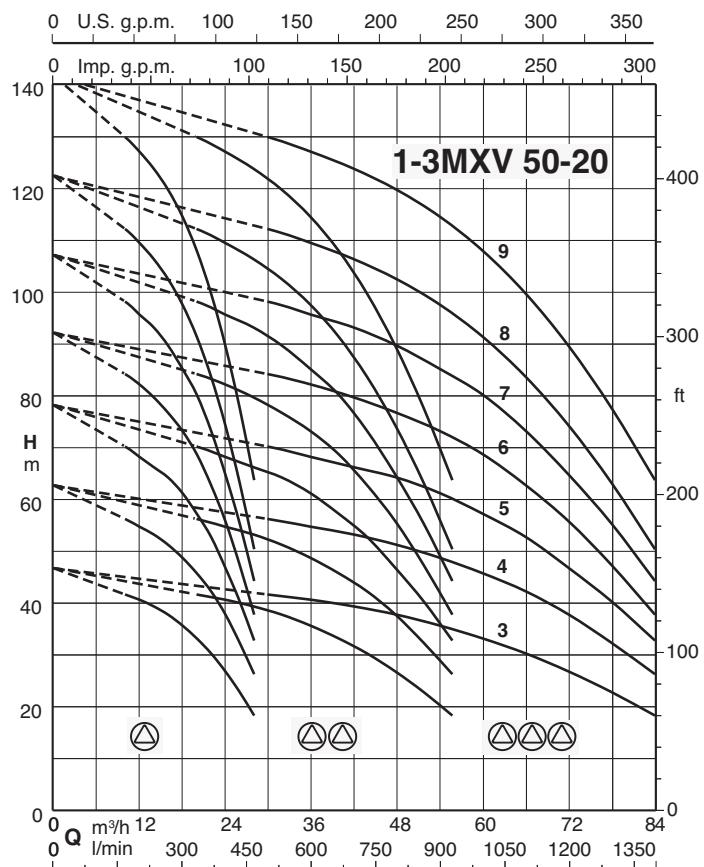
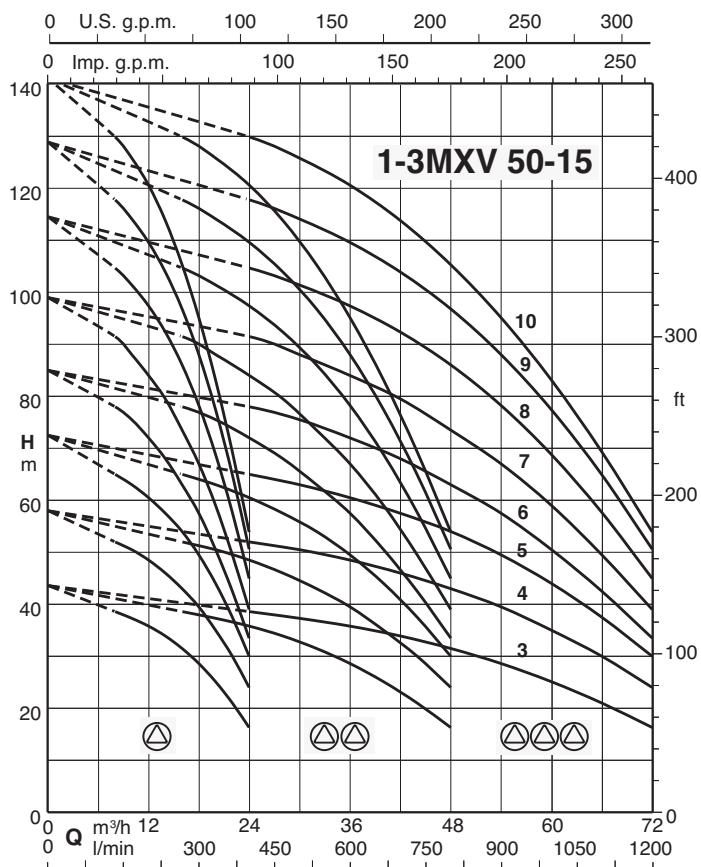
Special features on request

Pressure boosting sets with 4,5 and 6 pumps.

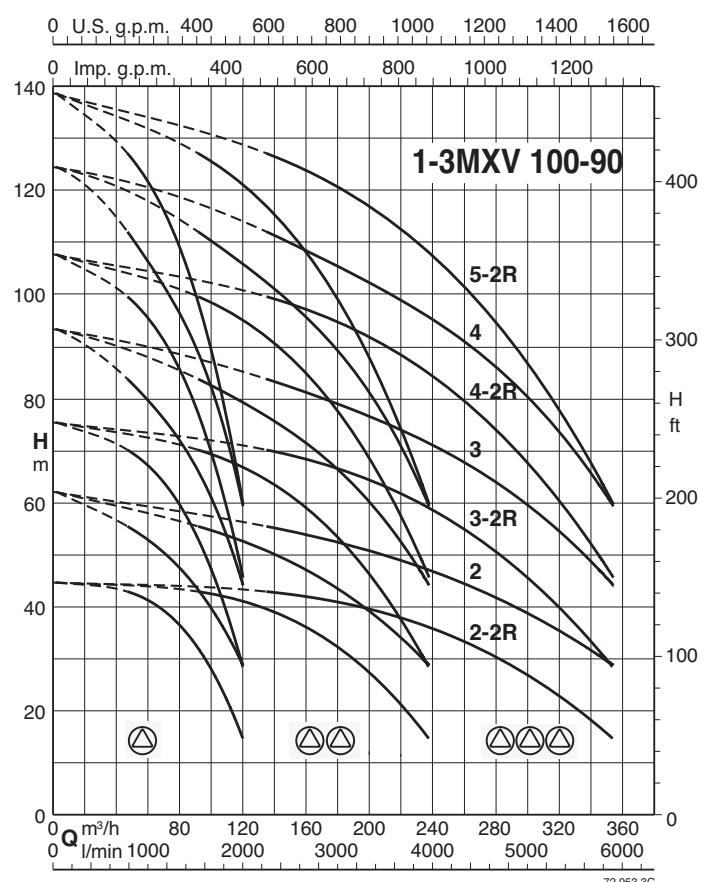
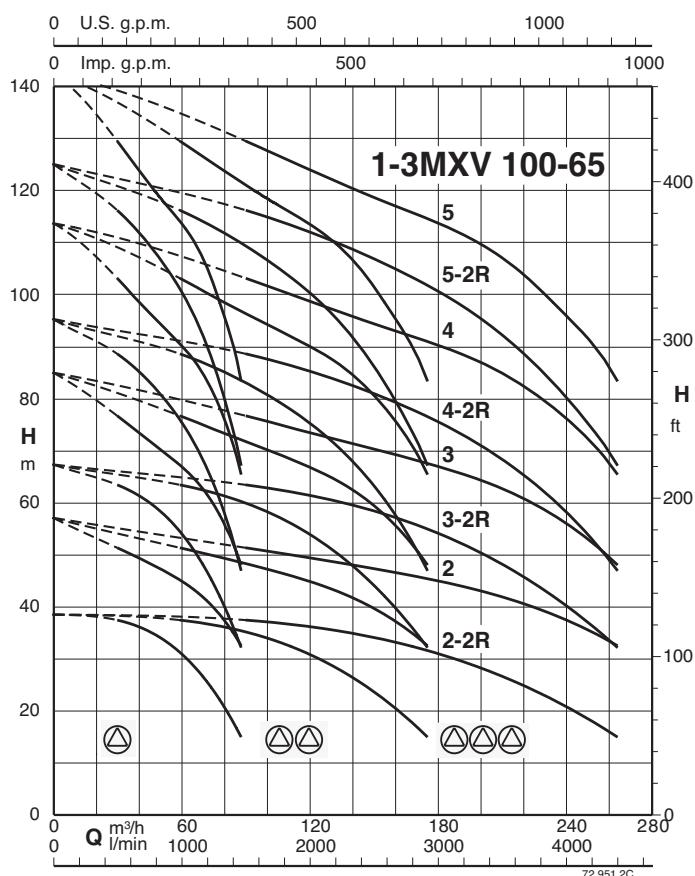
Coverage chart



Coverage chart



Coverage chart



Performance

BS1F

BSM1F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Pres. switch 1 bar		Vessel Membrane litre	Vessel litre
		kW	HP	min	max		
BS1F 1MXV 25-304 O	BSM1F 1MXV 25-304 O	0,75	1	3	3.9	40	100
BS1F 1MXV 25-305 O	BSM1F 1MXV 25-305 O	0,75	1	3.3	4.8	50	100
BS1F 1MXV 25-306 O	BSM1F 1MXV 25-306 O	1,1	1,5	4.1	5.8	50	100
BS1F 1MXV 25-307 O	BSM1F 1MXV 25-307 O	1,1	1,5	5	6.7	60	100
BS1F 1MXV 25-308 O	BSM1F 1MXV 25-308 O	1,5	2	5.9	7.8	100	100
BS1F 1MXV 25-310 O		1,5	2	7.5	9.7	100	200
BS1F 1MXV 25-312 O		2,2	3	10.1	11.6	200	200
BS1F 1MXV 32-504 O	BSM1F 1MXV 32-504 O	1,1	1,5	3	3.8	100	100
BS1F 1MXV 32-505 O	BSM1F 1MXV 32-505 O	1,1	1,5	3.2	4.7	100	200
BS1F 1MXV 32-506 O	BSM1F 1MXV 32-506 O	1,5	2	4	5.7	100	200
BS1F 1MXV 32-507 O	BSM1F 1MXV 32-507 O	1,5	2	4.9	6.6	100	200
BS1F 1MXV 32-508 O		2,2	3	5.7	7.6	200	300
BS1F 1MXV 32-510 O		2,2	3	7.4	9.5	300	500
BS1F 1MXV 32-512 O		3	4	9.8	11.3	300	500
BS1F 1MXV 40-904 O	BSM1F 1MXV 40-904 O	1,5	2	3	3.9	200	300
BS1F 1MXV 40-905 O		2,2	3	3.4	4.9	300	500
BS1F 1MXV 40-906 O		2,2	3	4.3	5.9	300	500
BS1F 1MXV 40-907 O		3	4	5.1	6.9	500	800
BS1F 1MXV 40-908 O		3	4	6	7.9	500	800
BS1F 1MXV 40-910 O		4	5,5	7.8	9.9	1000	1000
BS1F 1MXV 40-911 O		4	5,5	9.4	10.9	1000	1000
BS1F 1MXV 50-1503/A		2,2	3	2.7	3.5	500	1000
BS1F 1MXV 50-1504		3	4	3.2	4.7	500	1000
BS1F 1MXV 50-1505		4	5,5	4.3	5.9	500	1000
BS1F 1MXV 50-1506		5,5	7,5	5.3	7.1	500	1000
BS1F 1MXV 50-1507		5,5	7,5	6.4	8.3	750	1000
BS1F 1MXV 50-1508/A		5,5	7,5	7.5	9.6	750	1000
BS1F 1MXV 50-1509		7,5	10	9.3	10.8	1000	1500
BS1F 1MXV 50-1510		7,5	10	10.4	11.9	1000	1500
BS1F 1MXV 50-2003		3	4	3	3.8	750	1000
BS1F 1MXV 50-2004		4	5,5	3.5	5.1	750	1000
BS1F 1MXV 50-2005		5,5	7,5	4.7	6.4	750	1000
BS1F 1MXV 50-2006		7,5	10	5.8	7.7	750	1000
BS1F 1MXV 50-2007		7,5	10	6.9	8.9	1000	1500
BS1F 1MXV 50-2008		9,2	12,5	8.7	10.2	1000	2000
BS1F 1MXV 50-2009		9,2	12,5	10.4	11.9	1500	2000
BS1F 1MXV 65-3202/D		4	5,5	2.3	3.1	1000	2000
BS1F 1MXV 65-3203/C		5,5	7,5	3.1	4.7	1500	3000
BS1F 1MXV 65-3204/C		7,5	10	4.6	6.3	1500	3000
BS1F 1MXV 65-3205/D		11	15	5.9	7.8	2000	4000
BS1F 1MXV 65-3206/D		11	15	7.3	9.4	3000	4000
BS1F 1MXV 65-3207/D		15	20	9.5	5.5 - 11	4000	5000
BS1F 1MXV 80-4802/C		5,5	7,5	2.5	3.3	1500	3000
BS1F 1MXV 80-4803/C		7,5	10	3.4	4.9	2000	3000
BS1F 1MXV 80-4804/D		11	15	4.8	6.6	3000	4000
BS1F 1MXV 80-4805/D		15	20	6.3	8.2	4000	5000
BS1F 1MXV 80-4806/D		15	20	7.7	9.8	5000	-
BS1F 1MXV 80-4807/E		18,5	25	10	11.5	5000	-

Performance

BS2F

BSM2F

Mains: 400V 3~ Motor: 400V 3~	Mains: 230V 1~ Motor: 230V 1~	Motor		Pres. switch 1 bar		Pres. switch 2 bar		Vessel Membrane litre	Vessel litre
		kW	HP	min	max	min	max		
BS2F 2MXV 25-304 O	BSM2F 2MXV 25-304 O	0,75 x2	1 x2	3	3.9	2.7	3.6	40	100
BS2F 2MXV 25-305 O	BSM2F 2MXV 25-305 O	0,75 x2	1 x2	3.3	4.8	3	4.5	50	100
BS2F 2MXV 25-306 O	BSM2F 2MXV 25-306 O	1,1 x2	1,5 x2	4.1	5.8	3.9	5.5	50	100
BS2F 2MXV 25-307 O	BSM2F 2MXV 25-307 O	1,1 x2	1,5 x2	5	6.7	4.7	6.4	60	100
BS2F 2MXV 25-308 O	BSM2F 2MXV 25-308 O	1,5 x2	2 x2	5.9	7.8	5.6	7.5	100	100
BS2F 2MXV 25-310 O		1,5 x2	2 x2	7.5	9.7	7.3	9.4	100	200
BS2F 2MXV 25-312 O		2,2 x2	3 x2	10.1	11.6	9.8	11.3	200	200
BS2F 2MXV 32-504 O	BSM2F 2MXV 32-504 O	1,1 x2	1,5 x2	3	3.8	2.7	3.5	100	100
BS2F 2MXV 32-505 O	BSM2F 2MXV 32-505 O	1,1 x2	1,5 x2	3.2	4.7	2.9	4.4	100	200
BS2F 2MXV 32-506 O	BSM2F 2MXV 32-506 O	1,5 x2	2 x2	4	5.7	3.7	5.4	100	200
BS2F 2MXV 32-507 O	BSM2F 2MXV 32-507 O	1,5 x2	2 x2	4.9	6.6	4.6	6.3	100	200
BS2F 2MXV 32-508 O		2,2 x2	3 x2	5.7	7.6	5.4	7.3	200	300
BS2F 2MXV 32-510 O		2,2 x2	3 x2	7.4	9.5	7.1	9.2	300	500
BS2F 2MXV 32-512 O		3 x2	4 x2	9.8	11.3	9.5	11	300	500
BS2F 2MXV 40-904 O	BSM2F 2MXV 40-904 O	1,5 x2	2 x2	3	3.9	2.7	3.6	200	300
BS2F 2MXV 40-905 O		2,2 x2	3 x2	3.4	4.9	3.1	4.6	300	500
BS2F 2MXV 40-906 O		2,2 x2	3 x2	4.3	5.9	4	5.6	300	500
BS2F 2MXV 40-907 O		3 x2	4 x2	5.1	6.9	4.9	6.6	500	800
BS2F 2MXV 40-908 O		3 x2	4 x2	6	7.9	5.7	7.6	500	800
BS2F 2MXV 40-910 O		4 x2	5,5 x2	7.8	9.9	7.5	9.6	1000	1000
BS2F 2MXV 40-911 O		4 x2	5,5 x2	9.4	10.9	9.1	10.6	1000	1000
BS2F 2MXV 50-1503/A		2,2 x2	3 x2	2.7	3.5	2.4	3.2	500	1000
BS2F 2MXV 50-1504		3 x2	4 x2	3.2	4.7	2.9	4.4	500	1000
BS2F 2MXV 50-1505		4 x2	5,5 x2	4.3	5.9	4	5.6	500	1000
BS2F 2MXV 50-1506		5,5 x2	7,5 x2	5.3	7.1	5	6.8	500	1000
BS2F 2MXV 50-1507		5,5 x2	7,5 x2	6.4	8.3	6.1	8	750	1000
BS2F 2MXV 50-1508/A		5,5 x2	7,5 x2	7.5	9.6	7.2	9.3	750	1000
BS2F 2MXV 50-1509		7,5 x2	10 x2	9.3	10.8	9	10.5	1000	1500
BS2F 2MXV 50-1510		7,5 x2	10 x2	10.4	11.9	10.1	11.6	1000	1500
BS2F 2MXV 50-2003		3 x2	4 x2	3	3.8	2.7	3.5	750	1000
BS2F 2MXV 50-2004		4 x2	5,5 x2	3.5	5.1	3.3	4.8	750	1000
BS2F 2MXV 50-2005		5,5 x2	7,5 x2	4.7	6.4	4.4	6.1	750	1000
BS2F 2MXV 50-2006		7,5 x2	10 x2	5.8	7.7	5.5	7.4	750	1000
BS2F 2MXV 50-2007		7,5 x2	10 x2	6.9	8.9	6.6	8.6	100	1500
BS2F 2MXV 50-2008		9,2 x2	12,5 x2	8.7	10.2	8.4	9.9	1000	2000
BS2F 2MXV 50-2009		9,2 x2	12,5 x2	10.4	11.9	10.1	11.6	1500	2000
BS2F 2MXV 65-3202/D		4 x2	5,5 x2	2.3	3.1	2	2.8	1000	2000
BS2F 2MXV 65-3203/C		5,5 x2	7,5 x2	3.2	4.7	2.9	4.4	1500	3000
BS2F 2MXV 65-3204/C		7,5 x2	10 x2	4.6	6.3	4.3	6	1500	3000
BS2F 2MXV 65-3205/D		11 x2	15 x2	5.9	7.8	5.7	7.5	2000	4000
BS2F 2MXV 65-3206/D		11 x2	15 x2	7.3	9.4	7	9.1	3000	4000
BS2F 2MXV 65-3207/D		15 x2	20 x2	9.5	11	9.2	10.7	4000	5000
BS2F 2MXV 80-4802/C		5,5 x2	7,5 x2	2.5	3.3	2.2	3	1500	3000
BS2F 2MXV 80-4803/C		7,5 x2	10 x2	3.4	4.9	3.1	4.6	2000	3000
BS2F 2MXV 80-4804/D		11 x2	15 x2	4.8	6.6	4.5	6.3	3000	4000
BS2F 2MXV 80-4805/D		15 x2	20 x2	6.3	8.2	6	7.9	4000	5000
BS2F 2MXV 80-4806/D		15 x2	20 x2	7.7	9.8	7.4	9.5	5000	-
BS2F 2MXV 80-4807/E		18,5 x2	25 x2	8	11	7.5	10.5	5000	-
BS2F 2MXV 100-6502-2R/A		7,5 x2	10 x2	2.6	3.4	2.3	3.1	3000	-
BS2F 2MXV 100-6502/A		11 x2	15 x2	3.2	4.7	2.9	4.4	-	-
BS2F 2MXV 100-6503-2R/A		15 x2	20 x2	4.1	5.8	3.9	5.5	-	-
BS2F 2MXV 100-6503/B		18,5 x2	25 x2	5.1	6.9	4.9	6.6	-	-
BS2F 2MXV 100-6504-2R/B		18,5 x2	25 x2	6.1	8.1	5.9	7.8	-	-
BS2F 2MXV 100-6504/A		22 x2	30 x2	7.2	9.3	6.9	9	-	-
BS2F 2MXV 100-6505-2R/A		30 x2	40 x2	9.1	10.6	8.8	10.3	-	-
BS2F 2MXV 100-6505/A		30 x2	40 x2	10.3	11.8	10	11.5	-	-
BS2F 2MXV 100-9002-2R/A		11 x2	15 x2	3	3.9	2.7	3.6	-	-
BS2F 2MXV 100-9002/A		15 x2	20 x2	3.5	5.1	3.2	4.8	-	-
BS2F 2MXV 100-9003-2R/B		18,5 x2	25 x2	4.7	6.4	4.4	6.1	-	-
BS2F 2MXV 100-9003/A		22 x2	30 x2	5.8	7.7	5.5	7.4	-	-
BS2F 2MXV 100-9004-2R/A		30 x2	40 x2	7.1	9.1	6.8	8.8	-	-
BS2F 2MXV 100-9004/A		30 x2	40 x2	8.7	10.2	8.4	9.9	-	-
BS2F 2MXV 100-9005-2R/A		37 x2	50 x2	10.1	11.6	9.8	11.3	-	-

Performance

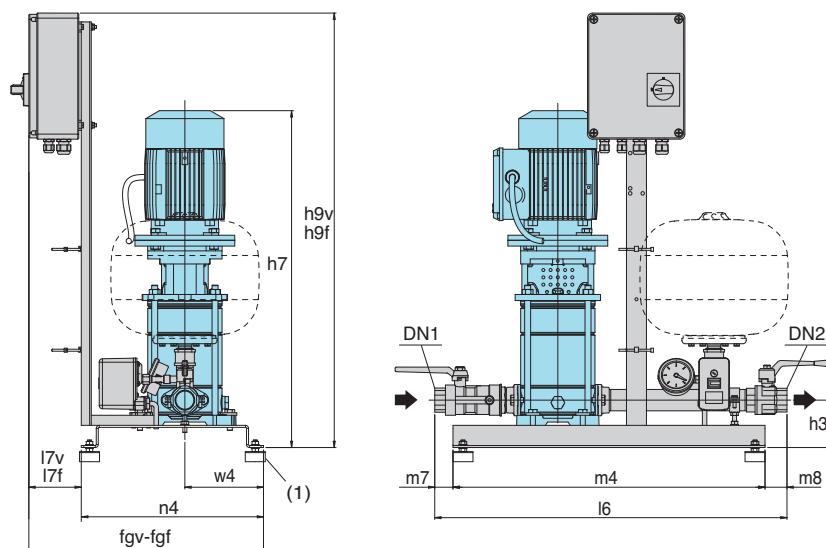
BS3F

Mains: 400V 3~ Motor: 400V 3~	Motor		Pressure transducer bar		Vessel Membrane litre	Vessel litre
	kW	HP	min	max		
BS3F 3MXV 25-304 O	0,75 x3	1 x3	3	3,9	60	100
BS3F 3MXV 25-305 O	0,75 x3	1 x3	3,3	4,8	80	100
BS3F 3MXV 25-306 O	1,1 x3	1,5 x3	4,1	5,8	80	100
BS3F 3MXV 25-307 O	1,1 x3	1,5 x3	5	6,7	100	100
BS3F 3MXV 25-308 O	1,5 x3	2 x3	5,9	7,8	100	100
BS3F 3MXV 25-310 O	1,5 x3	2 x3	7,5	9,7	150	200
BS3F 3MXV 25-312 O	2,2 x3	3 x3	10,1	11,6	200	300
BS3F 3MXV 32-504 O	1,1 x3	1,5 x3	3	3,8	300	500
BS3F 3MXV 32-505 O	1,1 x3	1,5 x3	3,2	4,7	200	300
BS3F 3MXV 32-506 O	1,5 x3	2 x3	4	5,7	200	300
BS3F 3MXV 32-507 O	1,5 x3	2 x3	4,9	6,6	300	500
BS3F 3MXV 32-508 O	2,2 x3	3 x3	5,7	7,6	300	500
BS3F 3MXV 32-510 O	2,2 x3	3 x3	7,4	9,5	200	300
BS3F 3MXV 32-512 O	3 x3	4 x3	9,8	11,3	300	500
BS3F 3MXV 40-904 O	1,5 x3	2 x3	3	3,9	500	800
BS3F 3MXV 40-905 O	2,2 x3	3 x3	3,4	4,9	500	800
BS3F 3MXV 40-906 O	2,2 x3	3 x3	4,3	5,9	500	800
BS3F 3MXV 40-907 O	3 x3	4 x3	5,1	6,9	750	1000
BS3F 3MXV 40-908 O	3 x3	4 x3	6	7,9	500	800
BS3F 3MXV 40-910 O	4 x3	5,5 x3	7,8	9,9	500	1000
BS3F 3MXV 40-911 O	4 x3	5,5 x3	9,4	10,9	1000	1500
BS3F 3MXV 50-1503/A	2,2 x3	3 x3	2,7	3,5	750	1500
BS3F 3MXV 50-1504	3 x3	4 x3	3,2	4,7	750	1500
BS3F 3MXV 50-1505	4 x3	5,5 x3	4,3	5,9	750	1500
BS3F 3MXV 50-1506	5,5 x3	7,5 x3	5,3	7,1	750	1500
BS3F 3MXV 50-1507	5,5 x3	7,5 x3	6,4	8,3	750	1500
BS3F 3MXV 50-1508/A	5,5 x3	7,5 x3	7,5	9,6	750	1500
BS3F 3MXV 50-1509	7,5 x3	10 x3	9,3	10,8	750	1500
BS3F 3MXV 50-1510	7,5 x3	10 x3	10,4	11,9	750	1500
BS3F 3MXV 50-2003	3 x3	4 x3	3	3,8	750	1500
BS3F 3MXV 50-2004	4 x3	5,5 x3	3,5	5,1	750	1500
BS3F 3MXV 50-2005	5,5 x3	7,5 x3	4,7	6,4	750	1500
BS3F 3MXV 50-2006	7,5 x3	10 x3	5,8	7,7	750	1500
BS3F 3MXV 50-2007	7,5 x3	10 x3	6,9	8,9	750	1500
BS3F 3MXV 50-2008	9,2 x3	12,5 x3	8,7	10,2	750	1500
BS3F 3MXV 50-2009	9,2 x3	12,5 x3	10,4	11,9	750	1500
BS3F 3MXV 65-3202/D	4 x3	5,5 x3	2,3	3,1	2000	4000
BS3F 3MXV 65-3203/C	5,5 x3	7,5 x3	3,2	4,7	2000	3000
BS3F 3MXV 65-3204/C	7,5 x3	10 x3	4,6	6,3	2000	4000
BS3F 3MXV 65-3205/D	11 x3	15 x3	5,9	7,8	3000	4000
BS3F 3MXV 65-3206/D	11 x3	15 x3	7,3	9,4	3000	5000
BS3F 3MXV 65-3207/D	15 x3	20 x3	9,5	11	-	6000
BS3F 3MXV 80-4802/C	5,5 x3	7,5 x3	2,5	3,3	3000	6000
BS3F 3MXV 80-4803/C	7,5 x3	10 x3	3,4	4,9	2000	4000
BS3F 3MXV 80-4804/D	11 x3	15 x3	4,8	6,6	3000	5000
BS3F 3MXV 80-4805/D	15 x3	20 x3	6,3	8,2	-	6000
BS3F 3MXV 80-4806/D	15 x3	20 x3	7,7	9,8	-	6000
BS3F 3MXV 80-4807/E	18,5 x3	25 x3	10	11,5	-	9000
BS3F 3MXV 100-6502-2R/A	7,5 x3	10 x3	2,6	3,4	-	-
BS3F 3MXV 100-6502/A	11 x3	15 x3	3,2	4,7	-	-
BS3F 3MXV 100-6503-2R/A	15 x3	20 x3	4,1	5,8	-	-
BS3F 3MXV 100-6503/B/A	18,5 x3	25 x3	5,1	6,9	-	-
BS3F 3MXV 100-6504-2R/B	18,5 x3	25 x3	6,1	8,1	-	-
BS3F 3MXV 100-6504/A	22 x3	30 x3	7,2	9,3	-	-
BS3F 3MXV 100-6505-2R/A	30 x3	40 x3	9,1	10,6	-	-
BS3F 3MXV 100-6505/A	30 x3	40 x3	10,3	11,8	-	-
BS3F 3MXV 100-9002-2R/A	11 x3	15 x3	3	3,9	-	-
BS3F 3MXV 100-9002/A	15 x3	20 x3	3,6	5,1	-	-
BS3F 3MXV 100-9003-2R/B	18,5 x3	25 x3	4,7	6,4	-	-
BS3F 3MXV 100-9003/A	22 x3	30 x3	5,8	7,7	-	-
BS3F 3MXV 100-9004-2R/A	30 x3	40 x3	7,1	9,1	-	-
BS3F 3MXV 100-9004/A	30 x3	40 x3	8,7	10,2	-	-
BS3F 3MXV 100-9005-2R/A	37 x3	50 x3	10,1	11,6	-	-

Performance

BS.. ..-ITT

PUMPS Nos		PUMP TYPE	P_2 For each pump	
2	3		kW	HP
BS2V -ITT	BS3V -ITT	MXV 25-304 O-ITT	0,75	1
		MXV 25-305 O-ITT	0,75	1
		MXV 25-306 O-ITT	1,1	1,5
		MXV 25-307 O-ITT	1,1	1,5
		MXV 25-308 O-ITT	1,5	2
		MXV 25-310 O-ITT	1,5	2
		MXV 25-312 O-ITT	2,2	3
		MXV 32-504 O-ITT	1,1	1,5
		MXV 32-505 O-ITT	1,1	1,5
		MXV 32-506 O-ITT	1,5	2
		MXV 32-507 O-ITT	1,5	2
		MXV 32-508 O-ITT	2,2	3
		MXV 32-510 O-ITT	2,2	3
		MXV 32-512 O-ITT	3	4
		MXV 40-904 O-ITT	1,5	2
		MXV 40-905 O-ITT	2,2	3
		MXV 40-906 O-ITT	2,2	3
		MXV 40-907 O-ITT	3	4
		MXV 40-908 O-ITT	3	4
		MXV 40-910 O-ITT	4	5,5
		MXV 40-911 O-ITT	4	5,5
		MXV 50-1503/A-ITT	2,2	3
		MXV 50-1504-ITT	3	4
		MXV 50-1505-ITT	4	5,5
		MXV 50-1506-ITT	5,5	7,5
		MXV 50-1507-ITT	5,5	7,5
		MXV 50-1508/A-ITT	5,5	7,5
		MXV 50-1509-ITT	7,5	10
		MXV 50-1510-ITT	7,5	10
		MXV 50-2003-ITT	3	4
		MXV 50-2004-ITT	4	5,5
		MXV 50-2005-ITT	5,5	7,5
		MXV 50-2006-ITT	7,5	10
		MXV 50-2007-ITT	7,5	10
		MXV 50-2008-ITT	9,2	12,5
		MXV 50-2009-ITT	9,2	12,5
		MXV 65-3202/D-ITT	4	5,5
		MXV 65-3203/C-ITT	5,5	7,5
		MXV 65-3204/C-ITT	7,5	10
		MXV 65-3205/D-ITT	11	15
		MXV 65-3206/D-ITT	11	15
		MXV 65-3207/D-ITT	15	20
		MXV 80-4802/C-ITT	5,5	7,5
		MXV 80-4803/C-ITT	7,5	10
		MXV 80-4804/D-ITT	11	15
		MXV 80-4805/D-ITT	15	20
		MXV 80-4806/D-ITT	15	20
		MXV 80-4807/E-ITT	18,5	25
		MXV 100-6501-ITT	5,5	7,5
		MXV 100-6502-2R/A-ITT	7,5	10
		MXV 100-6502/A-ITT	11	15
		MXV 100-6503-2R/A-ITT	15	20
		MXV 100-6503/B-ITT	18,5	25
		MXV 100-6504-2R/B-ITT	18,5	25
		MXV 100-6504/A-ITT	22	30
		MXV 100-9001/A-ITT	7,5	10
		MXV 100-9002-2R/A-ITT	11	15
		MXV 100-9002/A-ITT	15	20
		MXV 100-9003-2R/B-ITT	18,5	25
		MXV 100-9003/A-ITT	22	30

Dimensions and weights


TYPE	TYPE	Connection		mm													
		DN1	DN2	h9f	h9v	h7	h3	m4	m7	m8	l6	n4	w4	fgf	fgv	l7f	l7v
BS1. 1 MXV 25-304 O	BSM1. 1 MXV 25-304 O					666											
BS1. 1 MXV 25-305 O	BSM1. 1 MXV 25-305 O					690											
BS1. 1 MXV 25-306 O	BSM1. 1 MXV 25-306 O					714											
BS1. 1 MXV 25-307 O	BSM1. 1 MXV 25-307 O					738											
BS1. 1 MXV 25-308 O	BSM1. 1 MXV 25-308 O					762											
BS1. 1 MXV 25-310 O						811											
BS1. 1 MXV 25-312 O						899											
BS1. 1 MXV 32-504 O	BSM1. 1 MXV 32-504 O					666											
BS1. 1 MXV 32-505 O	BSM1. 1 MXV 32-505 O					690											
BS1. 1 MXV 32-506 O	BSM1. 1 MXV 32-506 O					714											
BS1. 1 MXV 32-507 O	BSM1. 1 MXV 32-507 O	G 1 1/4	G 1 1/4	862	1244	738											
BS1. 1 MXV 32-508 O						802											
BS1. 1 MXV 32-510 O						851											
BS1. 1 MXV 32-512 O						915											
BS1. 1 MXV 40-904 O	BSM1. 1 MXV 40-904 O					711											
BS1. 1 MXV 40-905 O						781											
BS1. 1 MXV 40-906 O						811											
BS1. 1 MXV 40-907 O		G 1 1/2	G 1 1/2	862	1244	857											
BS1. 1 MXV 40-908 O						887											
BS1. 1 MXV 40-910 O						947											
BS1. 1 MXV 40-911 O						977											

Dimensions not binding to be verified when ordering

(1) Anti-vibration pads kit supplied loose as standard

h9f-l7f= Fixed speed boosting sets

h9v-l7v= Variable speed boosting sets

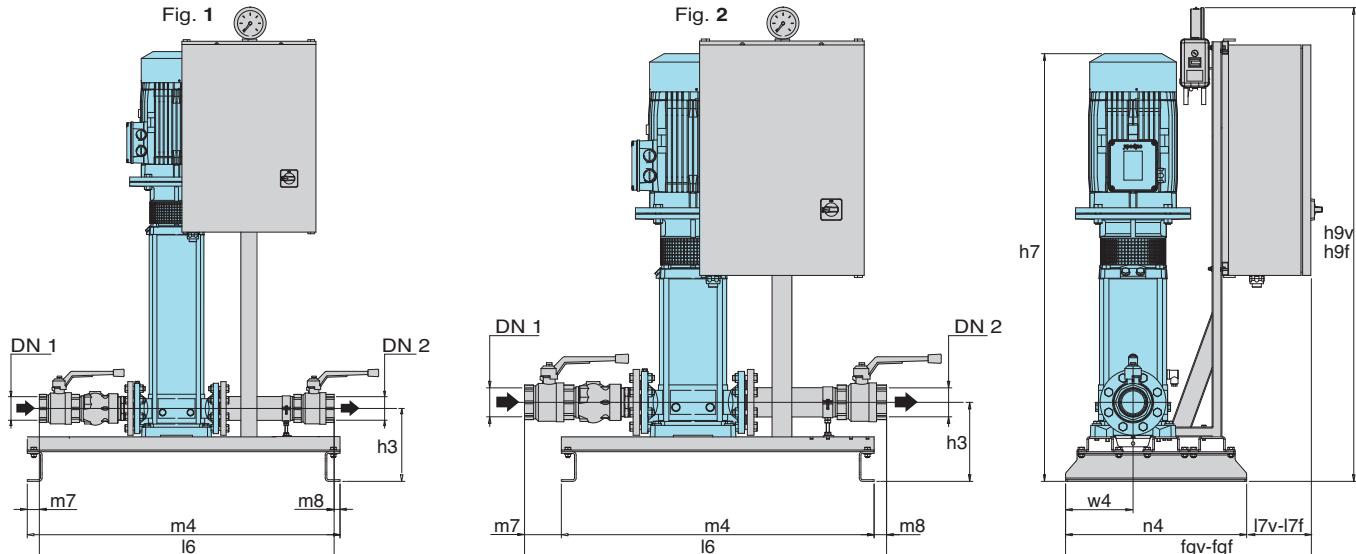
Dimensions and weights


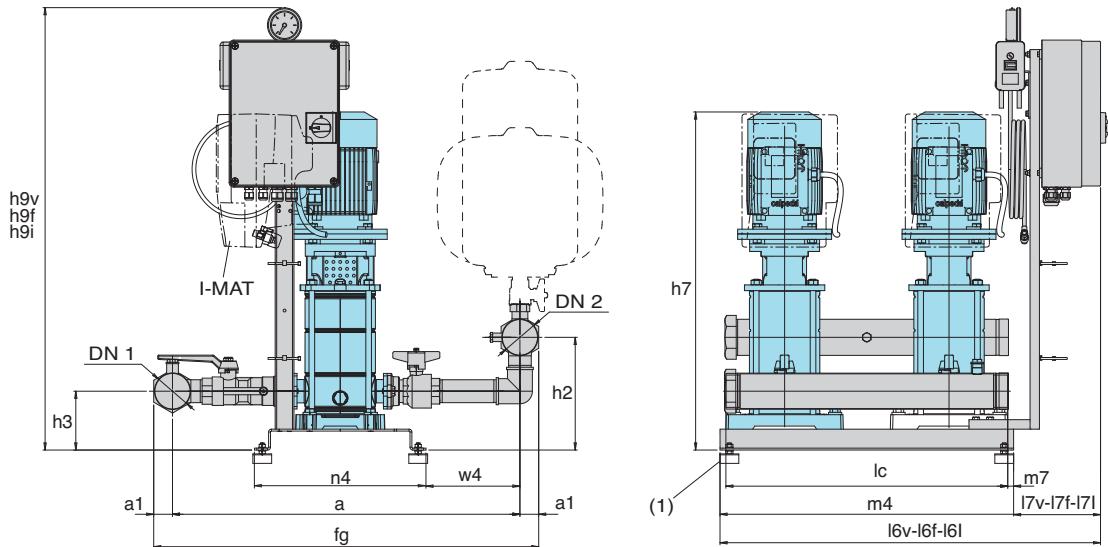
Fig.	TYPE	Connection		mm													
		DN 1	DN 2	h9v	h9f	h7	h3	m4	m7	m8	l6	n4	w4	fgv	fgf	l7v	l7f
1	BS1. 1MXV 50-1503/A	G 2	G 2	1335	1155	934								681	550	131	0
	BS1. 1MXV 50-1504			1335	1155	980								681	550	131	0
	BS1. 1MXV 50-1505			1344	1155	1028								745	550	195	0
	BS1. 1MXV 50-1506			1344	1155	1167								745	550	195	0
	BS1. 1MXV 50-1507			1344	1155	1215	225	950	27	4	919	550	205	745	550	195	0
	BS1. 1MXV 50-1508/A			1344	1420	1263								745	695	195	145
	BS1. 1MXV 50-1509			1344	1420	1311								745	695	195	145
	BS1. 1MXV 50-1510			1344	1420	1359								745	695	195	145
	BS1. 1MXV 50-2003			1335	1155	932								681	550	131	0
1	BS1. 1MXV 50-2004	G 2	G 2	1344	1155	967								745	550	195	0
	BS1. 1MXV 50-2005			1344	1155	1119								745	550	195	0
	BS1. 1MXV 50-2006			1344	1420	1167	225	950	27	4	919	550	205	745	695	195	145
	BS1. 1MXV 50-2007			1344	1420	1215								745	695	195	145
	BS1. 1MXV 50-2008			1344	1420	1367								745	695	195	145
	BS1. 1MXV 50-2009			1344	1420	1415								745	695	195	145
	BS1. 1MXV 65-3202/D	G 2 1/2	G 2 1/2	1344	1155	853								745	550	195	0
2	BS1. 1MXV 65-3203/C			1344	1155	947								745	550	195	0
	BS1. 1MXV 65-3204/C			1344	1420	993	240	950	68	27	1042	550	205	745	695	195	145
	BS1. 1MXV 65-3205/D			1344	1420	1189								745	695	195	145
	BS1. 1MXV 65-3206/D			1344	1420	1235								745	695	195	145
	BS1. 1MXV 65-3207/D			1344	1420	1306								745	695	195	145
	BS1. 1MXV 80-4802/C	G 3	G 3	1344	1155	940								745	550	195	0
2	BS1. 1MXV 80-4803/C			1344	1420	1001								745	695	195	145
	BS1. 1MXV 80-4804/D			1344	1420	1212	240	950	112	38	1100	550	205	745	695	195	145
	BS1. 1MXV 80-4805/D			1344	1420	1299								745	695	195	145
	BS1. 1MXV 80-4806/D			1344	1420	1360								745	695	195	145
	BS1. 1MXV 80-4807/E			1548	1420	1498								685	695	135	145

Dimensions not binding to be verified when ordering

h9f-fgf-l7f= Fixed speed boosting sets

h9v-fgv-l7v= Variable speed boosting sets

Dimensions and weights



TYPE	TYPE	Connection		mm																			
		DN 1	DN 2	h9f	h9v	h9i	h7	h3	h2	fg	a	a1	n4	w4	lc	m4	m7	l6f	l6v	l6i	l7f	l7v	l7i
BS.. 2MXV 25-304 O (-ITT)	BS.. 2MXV 25-304 O						666																
BS.. 2MXV 25-305 O (-ITT)	BS.. 2MXV 25-305 O						690																
BS.. 2MXV 25-306 O (-ITT)	BS.. 2MXV 25-306 O						714																
BS.. 2MXV 25-307 O (-ITT)	BS.. 2MXV 25-307 O	G 1 1/2	G 1 1/2	864	1252	884	738	94	170	642	589	27	365	140	600	625	13	810	959	825	185	334	200
BS.. 2MXV 25-308 O (-ITT)	BS.. 2MXV 25-308 O						762																
BS.. 2MXV 25-310 O (-ITT)	BS.. 2MXV 25-310 O						811																
BS.. 2MXV 25-312 O (-ITT)	BS.. 2MXV 25-312 O						899																
BS.. 2MXV 32-504 O (-ITT)	BS.. 2MXV 32-504 O						666																
BS.. 2MXV 32-505 O (-ITT)	BS.. 2MXV 32-505 O						690																
BS.. 2MXV 32-506 O (-ITT)	BS.. 2MXV 32-506 O						714																
BS.. 2MXV 32-507 O (-ITT)	BS.. 2MXV 32-507 O	G 2	G 2	864	1252	884	738	94	186	706	642	32	365	168	600	625	13	810	959	825	185	334	200
BS.. 2MXV 32-508 O (-ITT)							802																
BS.. 2MXV 32-510 O (-ITT)							851																
BS.. 2MXV 32-512 O (-ITT)							915																
BS.. 2MXV 40-904 O (-ITT)	BS.. 2MXV 40-904 O			931			711																
BS.. 2MXV 40-905 O (-ITT)				931			781																
BS.. 2MXV 40-906 O (-ITT)				931			811																
BS.. 2MXV 40-907 O (-ITT)				931	1252	884	857	124	238	820	740	40	365	200	600	625	13	810	959	825	185	334	200
BS.. 2MXV 40-908 O (-ITT)				931			887																
BS.. 2MXV 40-910 O (-ITT)				931			947																
BS.. 2MXV 40-911 O (-ITT)				1012			977																

Dimensions not binding to be verified when ordering

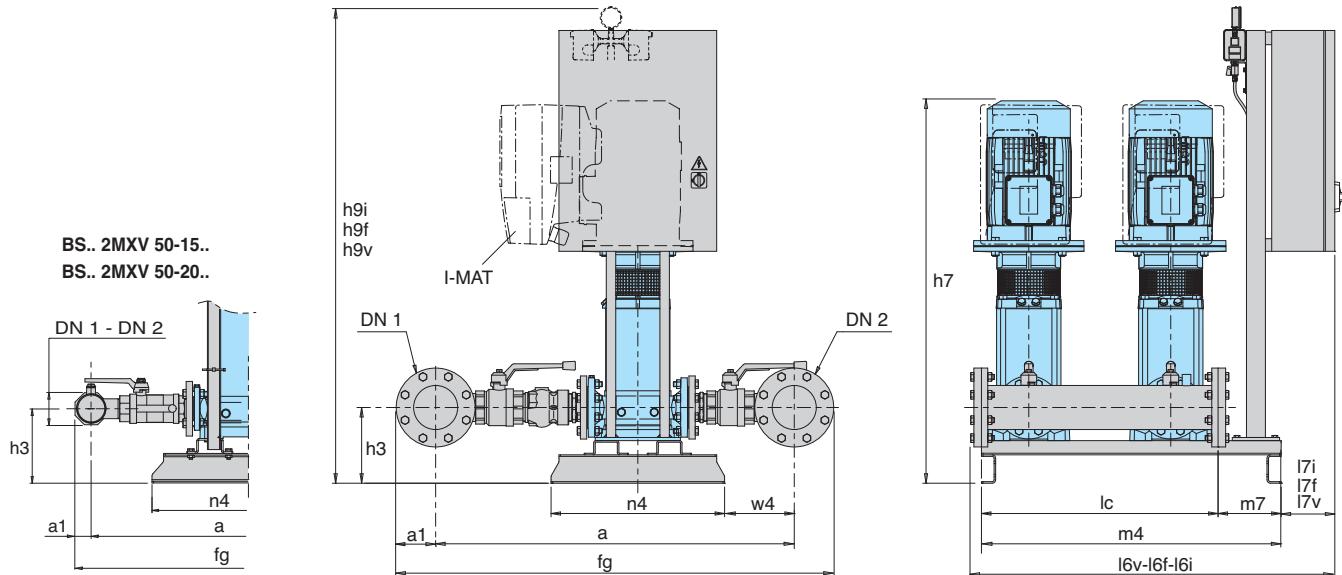
(1) Anti-vibration pads kit supplied loose as standard

h9f-l6f-l7f= Fixed speed boosting sets

h9v-l6v-l7v= Variable speed boosting sets

h9i-l6i-l7i= I-MAT boosting sets

Dimensions and weights



TYPE	Connection		mm																		
	DN1	DN2	h9f	h9v	h9i	h7	h3	fg	a	a1	n4	w4	l4	m4	m7	l6f	l6v	l6i	l7f	l7v	l7i
BS.. 2MXV 50-1503/A (ITT)	G 3	G 3	1015	1344	975	934	225	913	816	48	550	82	700	950	225	1080	1220	1110	130	270	145
BS.. 2MXV 50-1504 (ITT)			1015	1344	975	980										1080	1220	1110	130	270	145
BS.. 2MXV 50-1505 (ITT)			1015	1344	975	1028										1080	1220	1110	130	270	145
BS.. 2MXV 50-1506 (ITT)			1015	1344	975	1167										1080	1220	1110	130	270	145
BS.. 2MXV 50-1507 (ITT)			1015	1344	1175	1215										1080	1220	1110	130	270	145
BS.. 2MXV 50-1508/A (ITT)			1420	1344	1175	1263										1170	1220	1110	220	270	145
BS.. 2MXV 50-1509 (ITT)			1420	1344	1175	1311										1170	1220	1110	220	270	145
BS.. 2MXV 50-1510 (ITT)			1420	1344	1175	1359										1170	1220	1110	220	270	145
BS.. 2MXV 50-2003 (ITT)	G 3	G 3	1015	1344	975	932	225	913	816	48	550	82	700	950	225	1112	1252	1142	130	270	145
BS.. 2MXV 50-2004 (ITT)			1015	1344	975	967										1112	1252	1142	130	270	145
BS.. 2MXV 50-2005 (ITT)			1015	1344	975	1119										1112	1252	1142	130	270	145
BS.. 2MXV 50-2006 (ITT)			1420	1344	975	1167										1202	1252	1142	220	270	145
BS.. 2MXV 50-2007 (ITT)			1420	1344	1175	1215										1202	1252	1142	220	270	145
BS.. 2MXV 50-2008 (ITT)			1420	1648	1175	1367										1202	1202	1142	220	220	145
BS.. 2MXV 50-2009 (ITT)			1420	1648	1175	1415										1202	1202	1142	220	220	145
BS.. 2MXV 65-3202/D (ITT)			1015	1344	975	853										1114	1254	1144	130	270	145
BS.. 2MXV 65-3203/C (ITT)	100	100	1015	1344	975	947	240	1310	1090	110	550	231	750	950	200	1114	1254	1144	130	270	145
BS.. 2MXV 65-3204/C (ITT)			1420	1344	975	993										1204	1254	1154	220	270	145
BS.. 2MXV 65-3205/D (ITT)			1420	1648	1175	1189										1204	1204	1154	220	220	145
BS.. 2MXV 65-3206/D (ITT)			1420	1648	1175	1235										1204	1204	1154	220	220	145
BS.. 2MXV 65-3207/D (ITT)			1420	1648	1175	1306										1204	1204	1154	220	220	145
BS.. 2MXV 80-4802/C (ITT)			1015	1344	975	940										1080	1220	1110	130	270	145
BS.. 2MXV 80-4803/C (ITT)	125	125	1420	1344	975	1001	240	1441	1191	125	550	279	750	950	200	1170	1220	1110	220	270	145
BS.. 2MXV 80-4804/D (ITT)			1420	1648	1175	1212										1170	1170	1120	220	220	145
BS.. 2MXV 80-4805/D (ITT)			1420	1648	1175	1299										1170	1170	1120	220	220	145
BS.. 2MXV 80-4806/D (ITT)			1420	1648	1175	1360										1170	1170	1120	220	220	145
BS.. 2MXV 80-4807/E (ITT)			1420	*	1175	1498										1170	*	1120	220	*	145
BS.. 2MXV 100-6501/A-ITT						1302															
BS.. 2MXV 100-6502-2R/A (ITT)	150	150				1394	*	*	*	142,5	*	*	950	*	*	*	*	*	*		
BS.. 2MXV 100-6502/A (ITT)						1534															
BS.. 2MXV 100-6503-2R/A (ITT)						1651															
BS.. 2MXV 100-6503/B (ITT)				*	*	1705															
BS.. 2MXV 100-6504-2R/B (ITT)						1797															
BS.. 2MXV 100-6504/A (ITT)						1797															
BS.. 2MXV 100-6505-2R/A	200	200				1968	370	1883	1543	170	1050	260	950	1300	360	*	*	*	*	*	*
BS.. 2MXV 100-6505/A						1968															
BS.. 2MXV 100-9001-A-ITT						1306															
BS.. 2MXV 100-9002-2R/A (ITT)						1538															
BS.. 2MXV 100-9002/A (ITT)						1563															
BS.. 2MXV 100-9003-2R/B (ITT)						1709															
BS.. 2MXV 100-9003/A (ITT)	200	200		*	*	*	370	1883	1543	170	1050	260	950	1300	360	*	*	*	*	*	*
BS.. 2MXV 100-9004-2R/A						1904															
BS.. 2MXV 100-9004/A						1904															
BS.. 2MXV 100-9005-2R/A						1997															

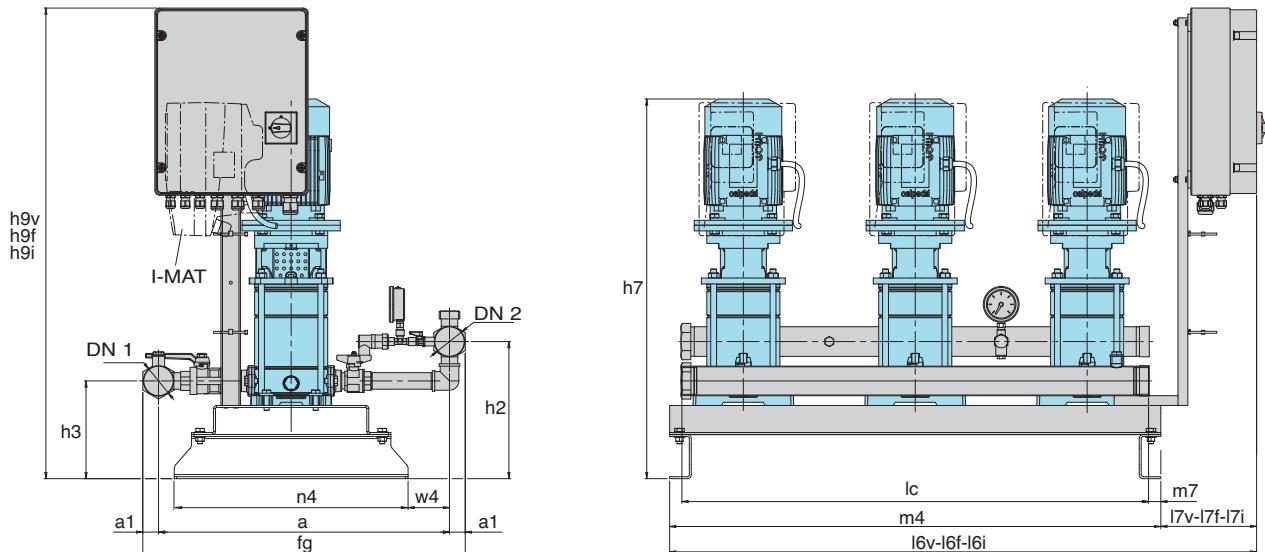
Dimensions not binding to be verified when ordering * Dimensions on request

h9f-l6f-l7f= Fixed speed boosting sets

h9v-l6v-l7v= Variable speed boosting sets

h9i-l6i-l7i= I-MAT boosting sets

Dimensions and weights



TYPE	Connection		mm																			
	DN 1	DN 2	h9f	h9v	h9i	h7	h3	h2	fg	a	a1	n4	w4	Ic	m4	m7	I6f	I6v	I6i	I7f	I7v	I7i
BS.. 3MXV 25-304 O (-ITT)				1357		771																
BS.. 3MXV 25-305 O (-ITT)				1357		795																
BS.. 3MXV 25-306 O (-ITT)				1357		819																
BS.. 3MXV 25-307 O (-ITT)	G 2	G 2	969	1357	989	843	199	279	657	593	32	476	84	950	1000	25	1195	1334	1200	195	334	200
BS.. 3MXV 25-308 O (-ITT)				1449		867																
BS.. 3MXV 25-310 O (-ITT)				1449		916																
BS.. 3MXV 25-312 O (-ITT)				1449		1004																
BS.. 3MXV 32-504 O (-ITT)				1357		771																
BS.. 3MXV 32-505 O (-ITT)				1357		795																
BS.. 3MXV 32-506 O (-ITT)				1449		819																
BS.. 3MXV 32-507 O (-ITT)	G 2 1/2	G 2 1/2	969	1449	989	843	199	299	730	650	40	476	113	950	1000	25	1195	1334	1200	195	334	200
BS.. 3MXV 32-508 O (-ITT)				1449		907																
BS.. 3MXV 32-510 O (-ITT)				1449		956																
BS.. 3MXV 32-512 O (-ITT)				1449		1020																
BS.. 3MXV 40-904 O (-ITT)						816																
BS.. 3MXV 40-905 O (-ITT)						886																
BS.. 3MXV 40-906 O (-ITT)						916																
BS.. 3MXV 40-907 O (-ITT)	G 3	G 3	969	1449	989	962	229	349	842	746	48	476	145	950	1000	25	1195	1334	1200	195	334	200
BS.. 3MXV 40-908 O (-ITT)						992																
BS.. 3MXV 40-910 O (-ITT)						1052																
BS.. 3MXV 40-911 O (-ITT)						1082																

Dimensions not binding to be verified when ordering

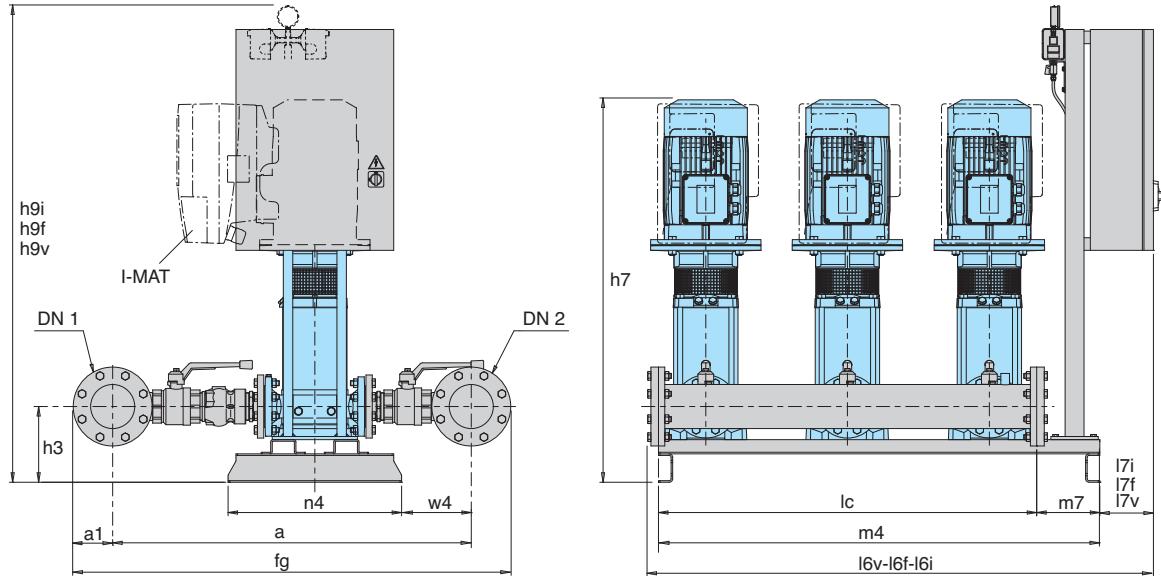
(1) Anti-vibration pads kit supplied loose as standard

h9f-l6f-l7f= Fixed speed boosting sets

h9v-l6v-l7v= Variable speed boosting sets

h9i-l6i-l7i= I-MAT boosting sets

Dimensions and weights



TYPE	Connection		mm																		
	DN1	DN2	h9f	h9v	h9i	h7	h3	fg	a	a1	n4	w4	lc	m4	m7	l6f	l6v	l6i	l7f	l7v	l7i
BS.. 3MXV 50-1503/A (ITT)	100	100	1020	1408	1040	1005	296	1100	880	110	550	94	1200	1400	200	1572	1652	1577	140	220	145
BS.. 3MXV 50-1504 (ITT)			1020	1408	1040	1051										1572	1652	1577	140	220	145
BS.. 3MXV 50-1505 (ITT)			1020	1408	1040	1099										1572	1652	1577	140	220	145
BS.. 3MXV 50-1506 (ITT)			1220	1408	1240	1239										1572	1652	1577	140	220	145
BS.. 3MXV 50-1507 (ITT)			1220	1408	1240	1287										1572	1652	1577	140	220	145
BS.. 3MXV 50-1508/A (ITT)			1408	*	1240	1335										1652	1652	1577	220	220	145
BS.. 3MXV 50-1509 (ITT)			1408	*	1240	1382										1652	1652	1577	220	220	145
BS.. 3MXV 50-1510 (ITT)			1408	*	1240	1430										1652	1652	1577	220	220	145
BS.. 3MXV 50-2003 (ITT)			1020	1408	1040	1003										1572	1652	1577	140	220	145
BS.. 3MXV 50-2004 (ITT)			1020	1408	1040	1038										1572	1652	1577	140	220	145
BS.. 3MXV 50-2005 (ITT)	100	100	1020	1408	*	1190	296	1100	880	110	550	94	1200	1400	200	1572	1652	1577	140	220	145
BS.. 3MXV 50-2006 (ITT)			1408	*	1240	1238										1572	1652	1577	140	220	145
BS.. 3MXV 50-2007 (ITT)			1408	*	1240	1286										1572	1652	1577	140	220	145
BS.. 3MXV 50-2008 (ITT)			*	*	*	1438										1652	QA	1577	220	QA	145
BS.. 3MXV 50-2009 (ITT)			*	*	*	1486										1652	QA	1577	220	QA	145
BS.. 3MXV 65-3202/D (ITT)	125	125	1500	1593	1020	903	291	1406	1156	125	550	284	1200	1400	200	1574	1654	1579	140	220	145
BS.. 3MXV 65-3203/C (ITT)			1500	1593	1020	997										1574	1654	1579	140	220	145
BS.. 3MXV 65-3204/C (ITT)			1500	1593	1020	1043										1574	1654	1579	140	220	145
BS.. 3MXV 65-3205/D (ITT)			1713	QA	1220	1239										1654	QA	1579	220	QA	145
BS.. 3MXV 65-3206/D (ITT)			1713	QA	1220	1285										1654	QA	1579	220	QA	145
BS.. 3MXV 65-3207/D (ITT)			1713	QA	1388	1356										1654	QA	1704	220	QA	270
BS.. 3MXV 80-4802/C (ITT)	150	150	1500	1593	1020	990	291	1525	1240	142,5	550	313	1200	1400	200	1577	1657	1582	140	220	145
BS.. 3MXV 80-4803/C (ITT)			1500	1593	1020	1051										1577	1657	1582	140	220	145
BS.. 3MXV 80-4804/D (ITT)			1713	QA	1220	1262										1657	QA	1582	220	QA	145
BS.. 3MXV 80-4805/D (ITT)			1713	QA	1388	1349										1657	QA	1707	220	QA	270
BS.. 3MXV 80-4806/D (ITT)			1713	QA	1388	1410										1657	QA	1707	220	QA	270
BS.. 3MXV 80-4807/E (ITT)			1713	QA	1388	1548										*	QA	1707	*	QA	270
BS.. 3MXV 100-6501/A-ITT	200	200				1322	386	1658	1318	170	900	65	1500	1650	175	*	*	*	*	*	*
BS.. 3MXV 100-6502-2R/A (ITT)						1414										*	*	*	*	*	*
BS.. 3MXV 100-6502/A (ITT)						1554										*	*	*	*	*	*
BS.. 3MXV 100-6503-2R/A (ITT)						1671										*	*	*	*	*	*
BS.. 3MXV 100-6503/B (ITT)			*	*	*	1725										*	*	*	*	*	*
BS.. 3MXV 100-6504-2R/B (ITT)						1817										*	*	*	*	*	*
BS.. 3MXV 100-6504/A (ITT)						1817										*	*	*	*	*	*
BS.. 3MXV 100-6505-2R/A						1988										*	*	*	*	*	*
BS.. 3MXV 100-6505/A						1988										*	*	*	*	*	*
BS.. 2MXV 100-9001/A-ITT						1326										*	*	*	*	*	*
BS.. 3MXV 100-9002-2R/A (ITT)	200	200				1558	390	1901	1561	170	1050	280	1500	1850	360	*	*	*	*	*	*
BS.. 3MXV 100-9002/A (ITT)						1583										*	*	*	*	*	*
BS.. 3MXV 100-9003-2R/B (ITT)						1729										*	*	*	*	*	*
BS.. 3MXV 100-9003/A (ITT)			*	*	*	1729										*	*	*	*	*	*
BS.. 3MXV 100-9004-2R/A						1924										*	*	*	*	*	*
BS.. 3MXV 100-9004/A						1924										*	*	*	*	*	*
BS.. 3MXV 100-9005-2R/A						2017										*	*	*	*	*	*

Dimensions not binding to be verified when ordering * Dimensions on request
QA Cabinet version

h9f-l6f-l7f= Fixed speed boosting sets
h9v-l6v-l7v= Variable speed boosting sets
h9i-l6i-l7i= I-MAT boosting sets