

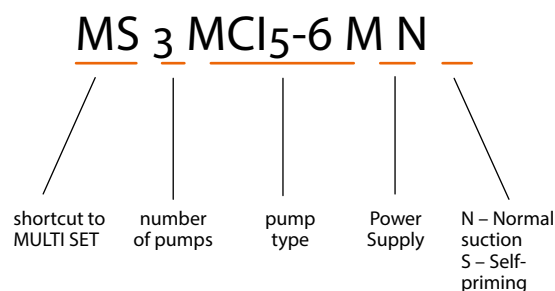
MULTI SET



MULTI SET

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IBO MULTI SET set markings



Example: IBO MS-2-HP1500-M-S:

A 2-pump set based on HP1500 pumps with a 230 V power supply, self-priming (pump with diffuser).

Compact hydrophore sets with pressure stabilization

IBO MULTI SET hydrophore sets are compact pumping devices designed to supply clean water to buildings with various requirements: single-family houses, multi-storey buildings, industry, agriculture. MS can be used to draw clean water from your own intake (well) or as pressure boosting systems from the water supply network. The sets are available in 230 V or 400 V versions.

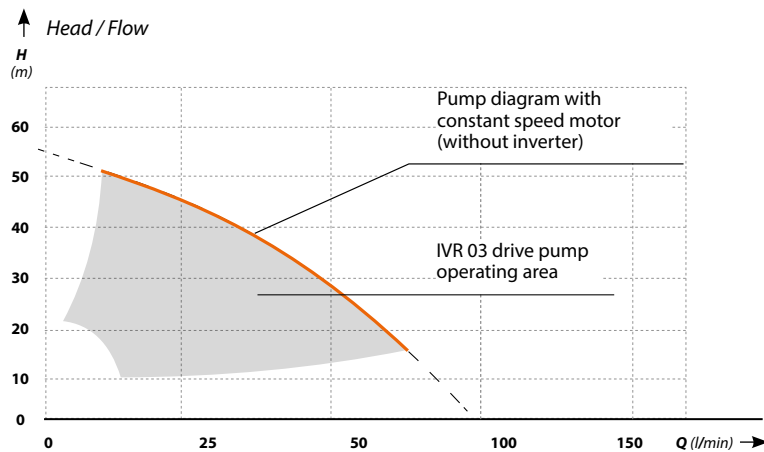
MS are devices that are extremely easy to use, and at the same time meet all the requirements of hydrophores designed for continuous operation.

They guarantee:

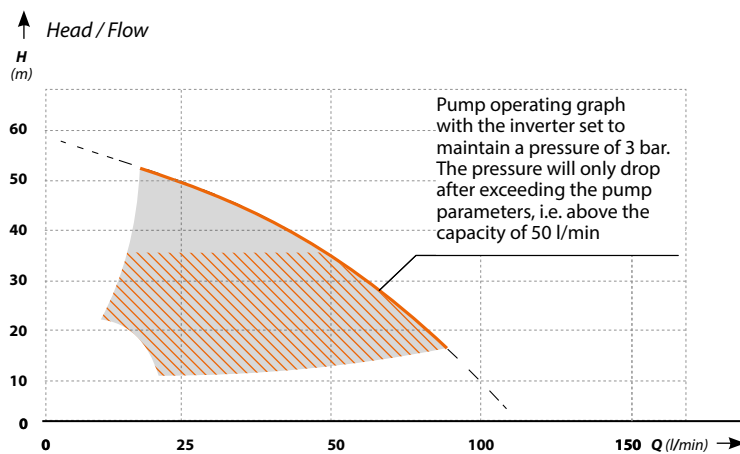
- alternate operation,
- the possibility of having a reserve pump,
- simple maintenance and easy disassembly of components,
- they have a number of safeguards.

Each IBO MULTI SET is equipped with an IVR 03 frequency converter, which ensures pressure stabilization and low electricity consumption. Intelligent IVR inverters extend the life of pumps, eliminate hydraulic impacts and, above all, expand the operating range of each pump. Below is a graph of the H_{max} , Q_{max} pump without a frequency converter and with the IVR inverter option.





The pressure of a pump operating without a frequency converter is closely related to the number of open taps. When the demand for water is low, the working pressure is very high. When the demand increases, the pressure drops. The only limitation to the pressure increase is the maximum parameters of the pump (hydraulic curve).



IVR inverters ensure that the change of engine operating parameters is smooth. The pump engine with a frequency converter operates at variable speeds, maintaining the set pressure. The pump accelerates or decelerates, depending on the current water demand.

If the desired operating point is below the maximum capacity of the operating pump, the device will operate at a frequency below 50 Hz, drawing less current.

The graph shows a pump maintaining a constant pressure of 3 bar in the capacity range of 20–50 l/min. If the difference between the minimum and maximum water demand exceeds the operating range of a single pump, a multi-pump version should be selected.

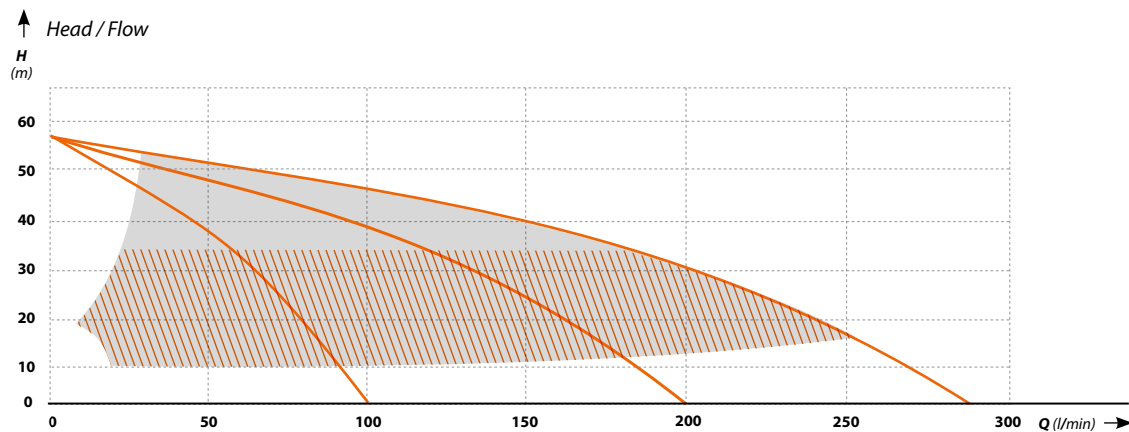


Diagram of a 3-pump system. At low flow, one pump will work. The next ones will start when the maximum parameters of the currently working pump are reached. The order of pump operation changes every 48 hours, thanks to which the pump wear is even.

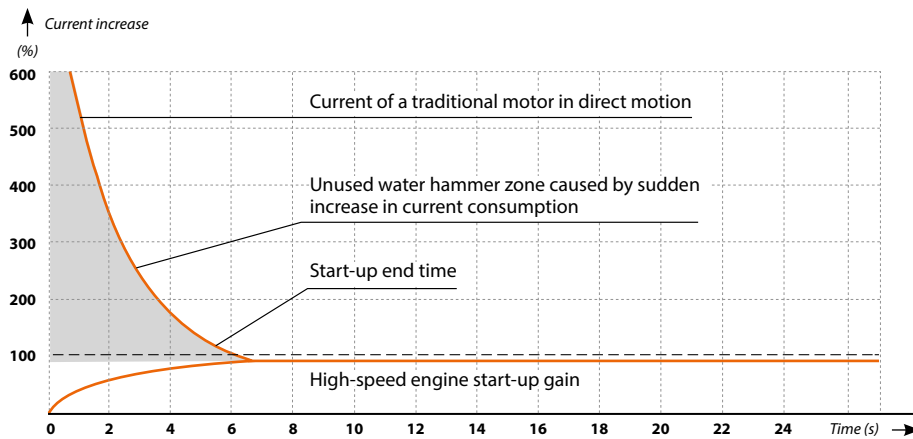
IBO MULTI SETS are available in 1, 2 and 3-pump versions with a maximum capacity of up to 600 l/min. A wide range of capacities means that the possibilities of using and adjusting the right solution are almost unlimited.

Advantages of IBO MULTI SETS

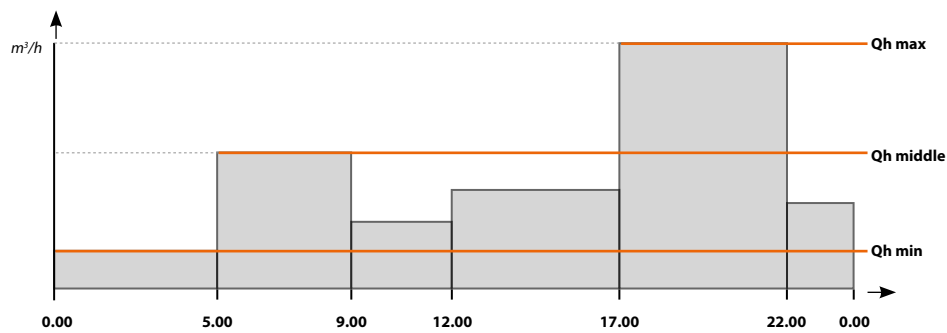
Pressure stabilization on all draw-off valves, according to the set pressure values, by using variable speed pump motors in IBO Multi SET sets.

No water hammers, thanks to the use of soft-start in IVR 03 inverters and the selection of IQ PR FIX vessels with the appropriate capacity.



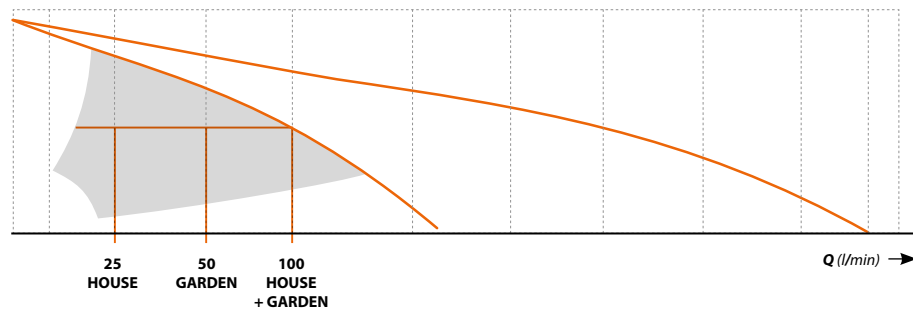


Power consumption reduced to 60%



Universal application: water collection from deep wells, pressure increase from water supply network

Wide range of capacity adjustment: from 45 l/min to 600 l/min, depending on the purpose of the installation and time of day.



Even wear thanks to the alternating operation of the pumps included in the set – the factory default setting for alternating operation is 48 hours. This is a parameter that we can modify at any time.
In multi-pump versions, a backup pump is always available in the event of a failure of one of the devices.

Top quality components from IBO and iQ PR

230 V and 400 V versions available

Compact design – we deliver the sets assembled by qualified Dambat employees. Deliveries on a pallet with collectors and connection and cut-off fittings. The sets are ready to connect.

The sets are equipped as standard with differential protection and main switches for quick disconnection of the power supply.

A number of protections, including against dry running, overload, phase failure, voltage drop.



Protection function against:

- Dry running
- Short circuit
- Overload
- Pump overload
- Sudden voltage surge
- Voltage too low
- Voltage too high

Collectors made of stainless steel, other elements in contact with the pumped medium are made of brass.

Maintenance-free FIX expansion tanks with a permissible working pressure of up to 10 bar.



Offered sets



MS 1 (1 PUMP)



MS 2 (2 PUMPS)

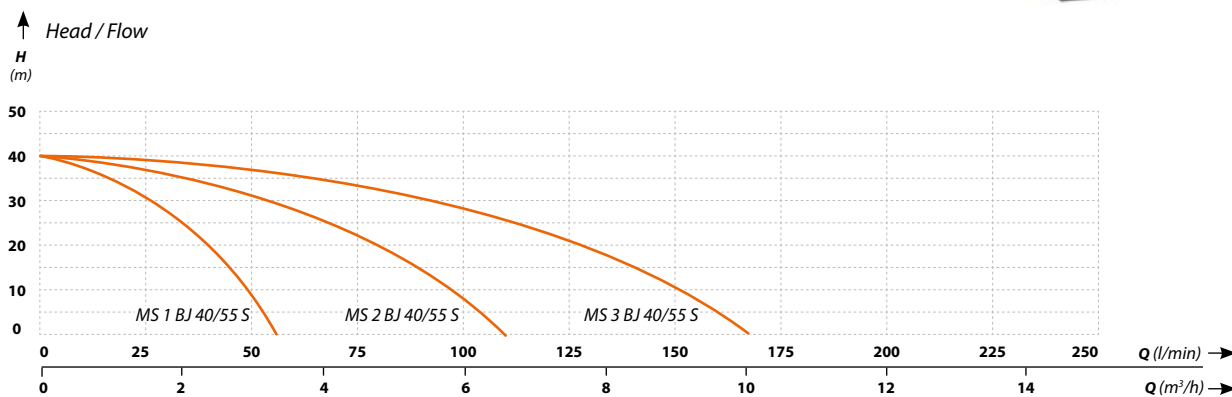


MS 3 (3 PUMPS)

Model	Power supply (V)	Max. capacity of the set (l/min)		
		MS 1 (1 pump)	MS 2 (2 pumps)	MS 3 (3 pumps)
BJ 40/55 S	230	55	110	165
IWH 2-03 S	230	70	140	210
IWH 3-04 S	230	80	160	240
HP 1500 INOX S	230	110	220	330
MULTI SET MH-X 1300 PRO	230	100	200	300
MH PRO 120/65 S	230	120	240	360
MH PRO 200/60 S	230	200	400	600
MH PRO 120/65 T-S	400	120	240	360
MH PRO 120/80 T-S	400	120	240	360
MH PRO 200/55 T-S	400	200	400	600
MH PRO 200/90 T-S	400	200	400	600
MCI 1-4	230 / 400	50	100	150
MCI 1-7	230 / 400	50	100	150
MCI 3-3	230 / 400	85	170	255
MCI 3-7	230 / 400	85	170	255
MCI 5-3	230 / 400	130	260	390
MCI 5-5	230 / 400	130	260	390
MCI 5-7	230 / 400	130	260	390

MULTI SET BJ 40/55 S

230 V hydrophore sets based
on a self-priming pump
BJ 40/55



Zestawy

MS 1 BJ 40/55 S

- Flow (Q_{max}): 55 l/min
- Head: (H_{max}): 40 m
- Motor power: 0,55 kW
- Current consumption: 3,8 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 BJ 40/55 S

- Flow (Q_{max}): 110 l/min
- Head: (H_{max}): 40 m
- Motor power: 1,1 kW
- Current consumption: 7,6 A
- Connection, intake manifold: 1½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 8 L iQ PR FIX

MS 3 BJ 40/55 S

- Flow (Q_{max}): 165 l/min
- Head: (H_{max}): 40 m
- Motor power: 1,65 kW
- Current consumption: 11,4 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 12 L iQ PR FIX

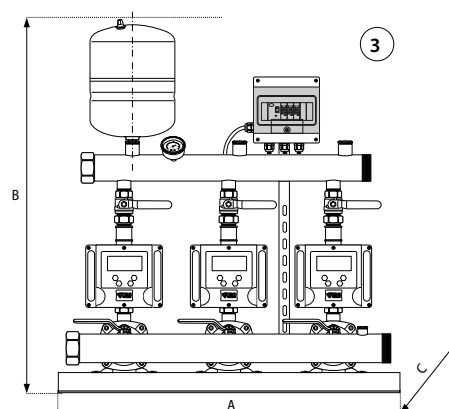
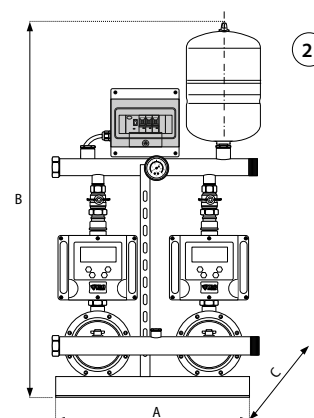
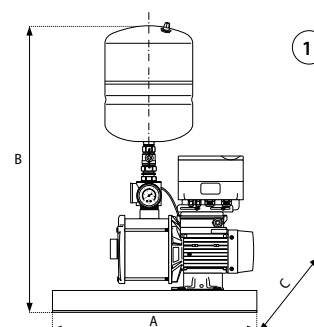
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

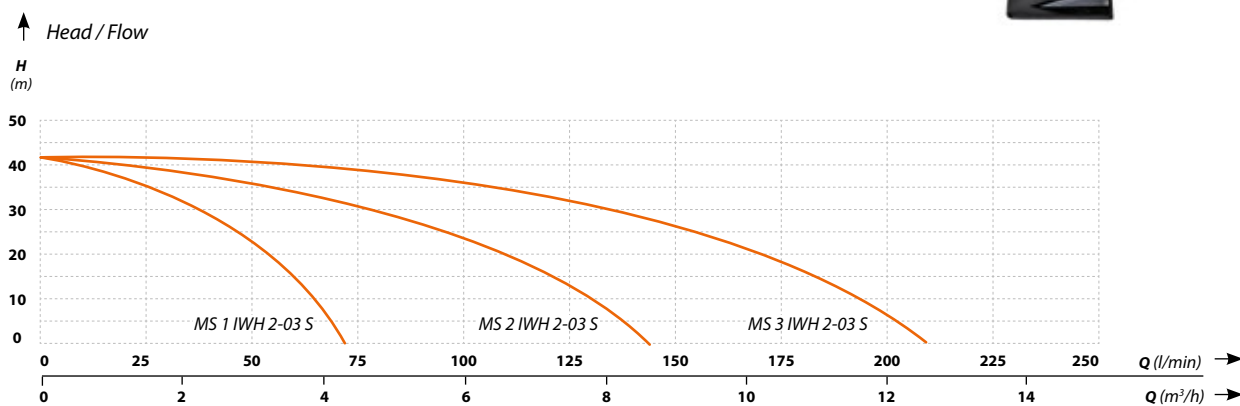
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Discharge manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 BJ 40/55 S	31,5	80	55
MS 2 BJ 40/55 S	55,5	110	60
MS 3 BJ 40/55 S	90	120	65

MULTI SET IWH 2-03 S

230 V hydrophore sets based on a self-priming pump IWH 2-03 S



Zestawy

MS 1 IWH 2-03 S

- Flow (Q_{max}): 70 l/min
- Head: (H_{max}): 42 m
- Motor power: 0,75 kW
- Current consumption: 5,2 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 IWH 2-03 S

- Flow (Q_{max}): 140 l/min
- Head: (H_{max}): 42 m
- Motor power: 1,5 kW
- Current consumption: 10,4 A
- Connection, intake manifold: 1½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 8 L iQ PR FIX

MS 3 IWH 2-03 S

- Flow (Q_{max}): 210 l/min
- Head: (H_{max}): 42 m
- Motor power: 2,25 kW
- Current consumption: 15,6 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 12 L iQ PR FIX

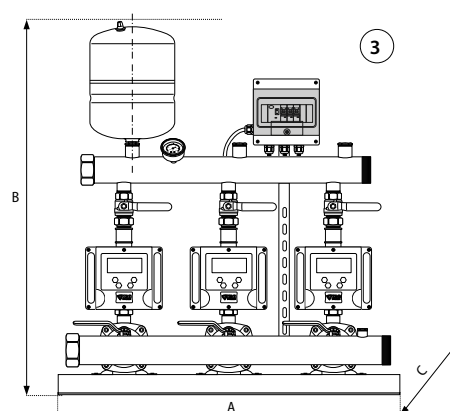
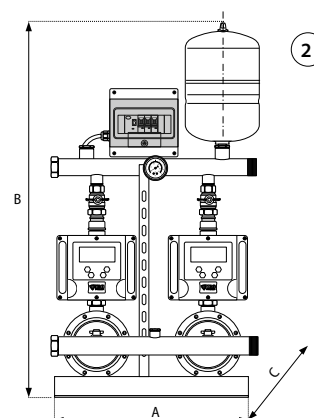
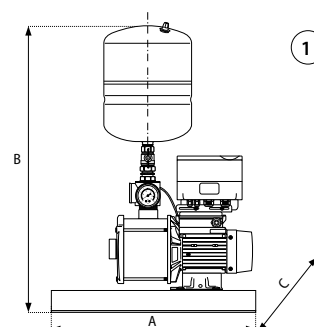
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

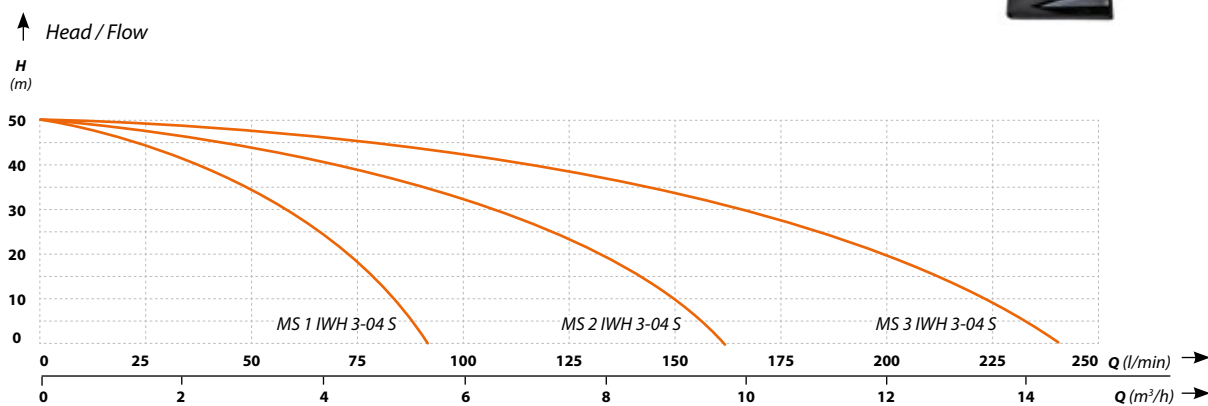
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 IWH 2-03 S	31,5	80	55
MS 2 IWH 2-03 S	55,5	110	60
MS 3 IWH 2-03 S	90	120	65

MULTI SET IWH 3-04 S

230 V hydrophore sets based
on a self-priming pump
IWH 3-04 S



Sets

MS 1 IWH 3-04 S

- Flow (Q_{max}): 80 l/min
- Head: (H_{max}): 50 m
- Motor power: 1,1 kW
- Current consumption: 6,2 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 IWH 3-04 S

- Flow (Q_{max}): 160 l/min
- Head: (H_{max}): 50 m
- Motor power: 2,2 kW
- Current consumption: 12,4 A
- Connection, intake manifold: 1½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 8 L iQ PR FIX

MS 3 IWH 3-04 S

- Flow (Q_{max}): 165 l/min
- Head: (H_{max}): 40 m
- Motor power: 1,65 kW
- Current consumption: 11,4 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 12 L iQ PR FIX

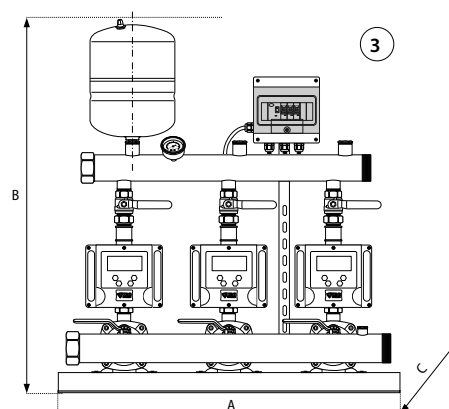
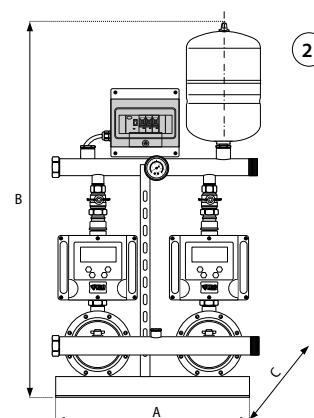
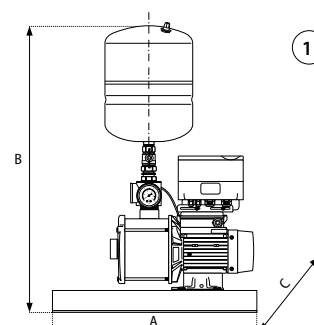
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

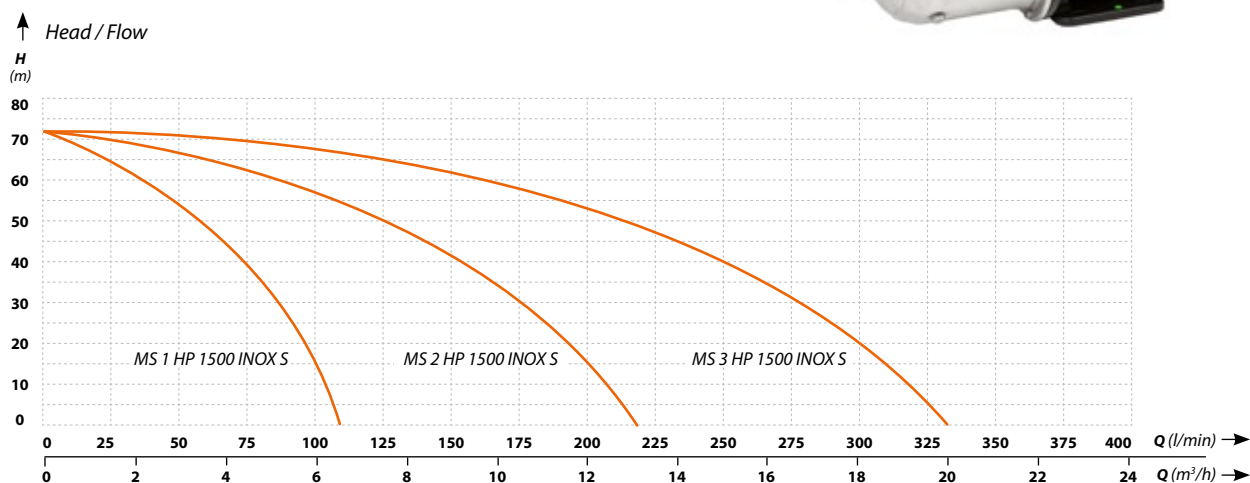
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 IWH 3-04 S	31,5	80	55
MS 2 IWH 3-04 S	55,5	110	60
MS 3 IWH 3-04 S	90	120	65

MULTI SET HP 1500 INOX S

230 V hydrophore sets based
on a self-priming pump
HP 1500 INOX S



Sets

MS 1 HP 1500 INOX S

- Flow (Q_{max}): 110 l/min
- Head: (H_{max}): 62 m
- Motor power: 1,5 kW
- Current consumption: 9,6 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 HP 1500 INOX S

- Flow (Q_{max}): 220 l/min
- Head: (H_{max}): 62 m
- Motor power: 3 kW
- Current consumption: 19,2 A
- Connection, intake manifold: 2"
- Connection, discharge manifold: 2"
- Vessel capacity: 8 L iQ PR FIX

MS 3 HP 1500 INOX S

- Flow (Q_{max}): 330 l/min
- Head: (H_{max}): 62 m
- Motor power: 4,5 kW
- Current consumption: 28,8 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 12 L iQ PR FIX

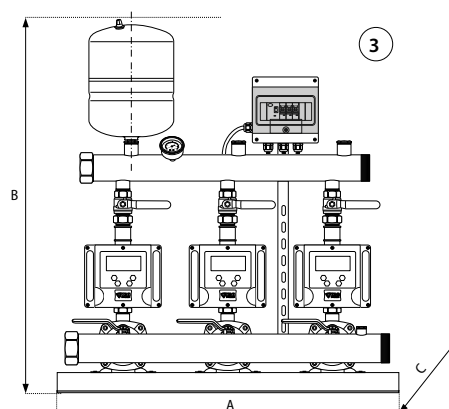
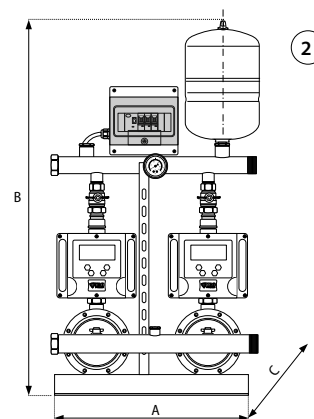
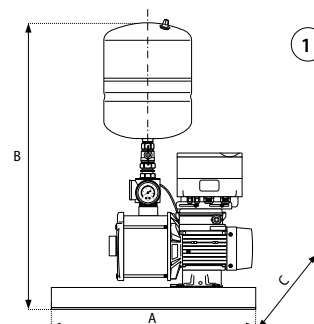
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 40°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2850 RPM

Materials:

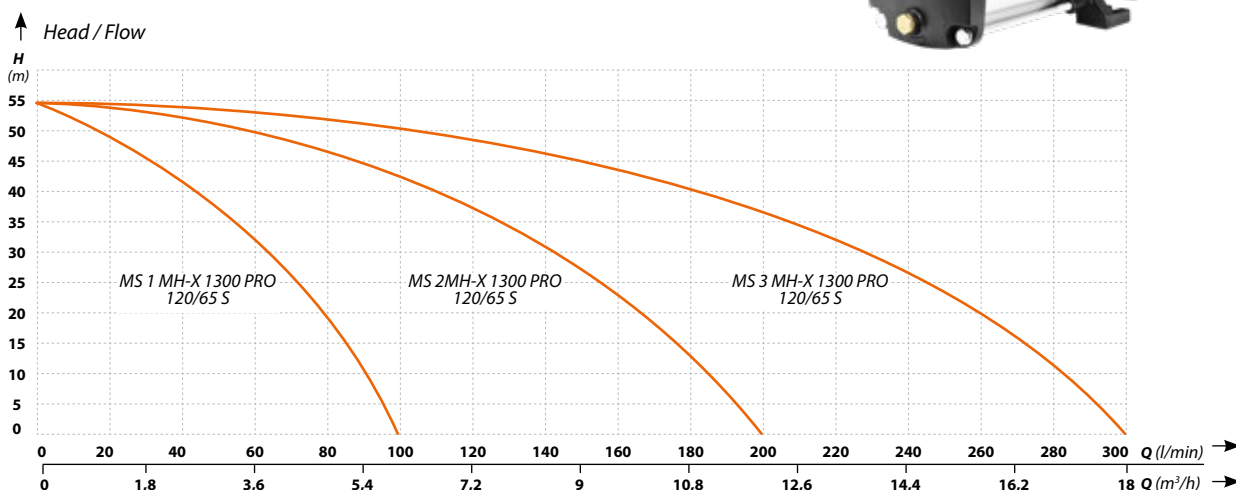
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 HP 1500 INOX S	31,5	80	55
MS 2 HP 1500 INOX S	55,5	110	60
MS 3 HP 1500 INOX S	90	120	65

MULTI SET MH-X 1300 PRO

230 V hydrophore sets based on a self-priming pump MH-X 1300 PRO



Sets

MS 1 MH-X 1300 PRO 120/65 S

- Flow (Q_{max}): 100 l/min
- Head: (H_{max}): 55 m
- Motor power: 1,3 kW
- Current consumption: 6,1 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MH-X 1300 PRO 120/65 S

- Flow (Q_{max}): 200 l/min
- Head: (H_{max}): 55 m
- Motor power: 2,6 kW
- Current consumption: 12,2 A
- Connection, intake manifold: 1½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 8 L iQ PR FIX

MS 3 MH-X 1300 PRO 120/65 S

- Flow (Q_{max}): 300 l/min
- Head: (H_{max}): 55 m
- Motor power: 3,9 kW
- Current consumption: 18,3 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 2½"
- Vessel capacity: 12 L iQ PR FIX

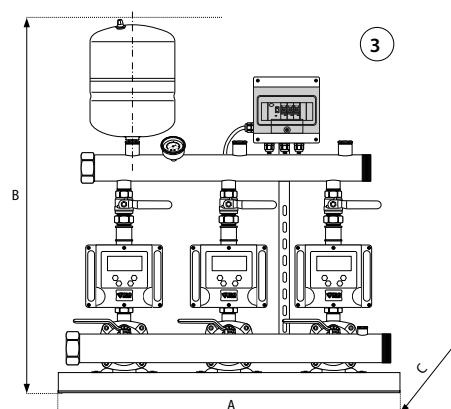
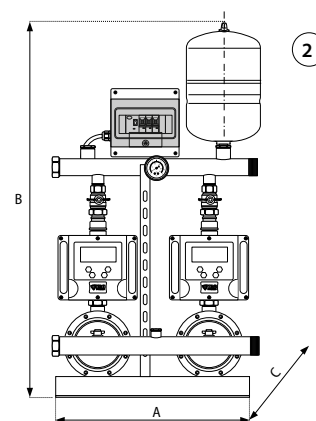
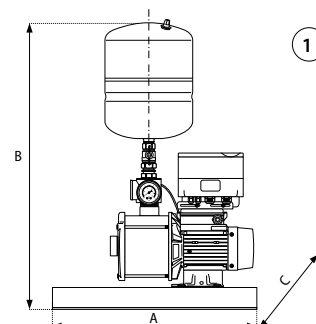
Pump

Technical data:

- Max. liquid temperature: 35°C
- Max. ambient temperature: 40°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IPX5
- Motor speed: 2850 RPM

Materials:

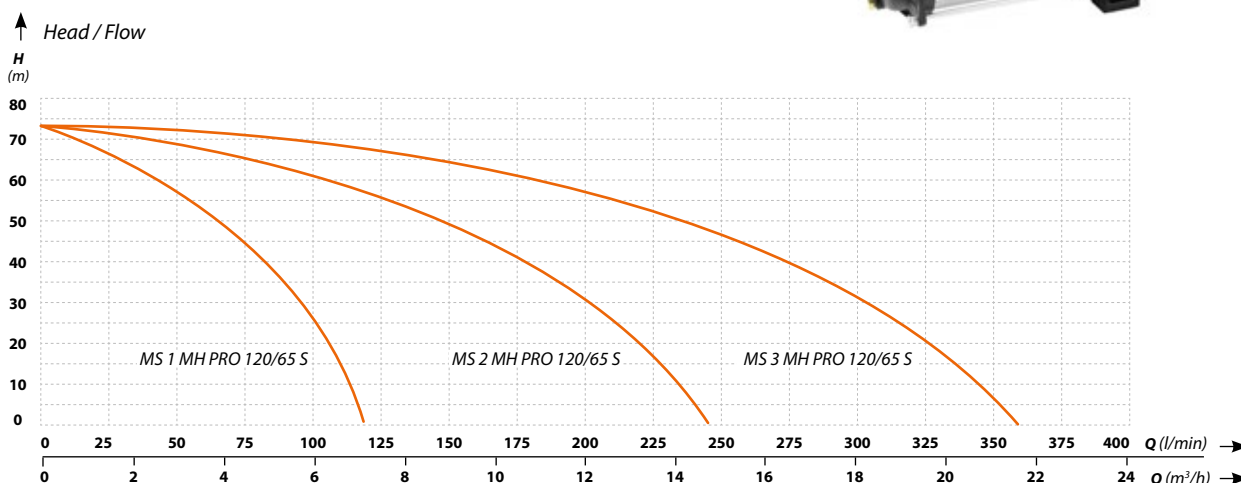
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: PPO polymer / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: PPO polymer
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Discharge manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MH-X 1300 PRO 120/65 S	31,5	80	55
MS 2 MH-X 1300 PRO 120/65 S	55,5	110	60
MS 3 MH-X 1300 PRO 120/65 S	90	120	65

MULTI SET MH PRO 120/65 S

230 V hydrophore sets based on a self-priming pump MH PRO 120/65 S



Sets

MS 1 MH PRO 120/65 S

- Flow (Q_{max}): 120 l/min
- Head: (H_{max}): 73 m
- Motor power: 1,5 kW
- Current consumption: 9,2 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MH PRO 120/65 S

- Flow (Q_{max}): 240 l/min
- Head: (H_{max}): 73 m
- Motor power: 3 kW
- Current consumption: 18,4 A
- Connection, intake manifold: 2"
- Connection, discharge manifold: 2"
- Vessel capacity: 8 L iQ PR FIX

MS 3 MH PRO 120/65 S

- Flow (Q_{max}): 360 l/min
- Head: (H_{max}): 73 m
- Motor power: 4,5 kW
- Current consumption: 27,6 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 12 L iQ PR FIX

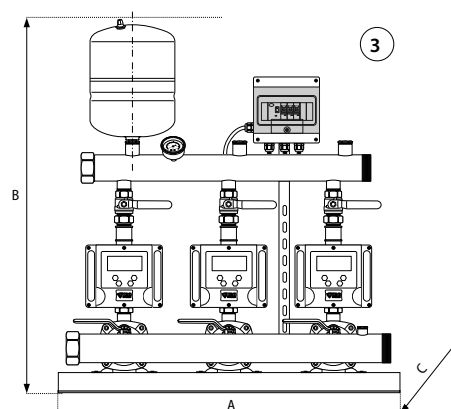
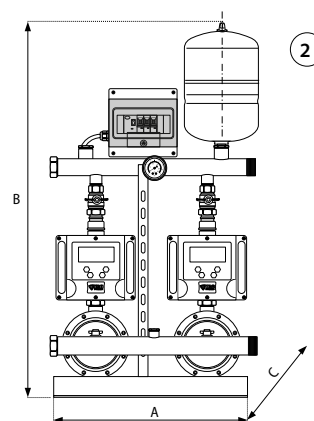
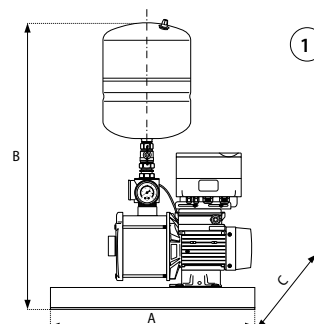
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

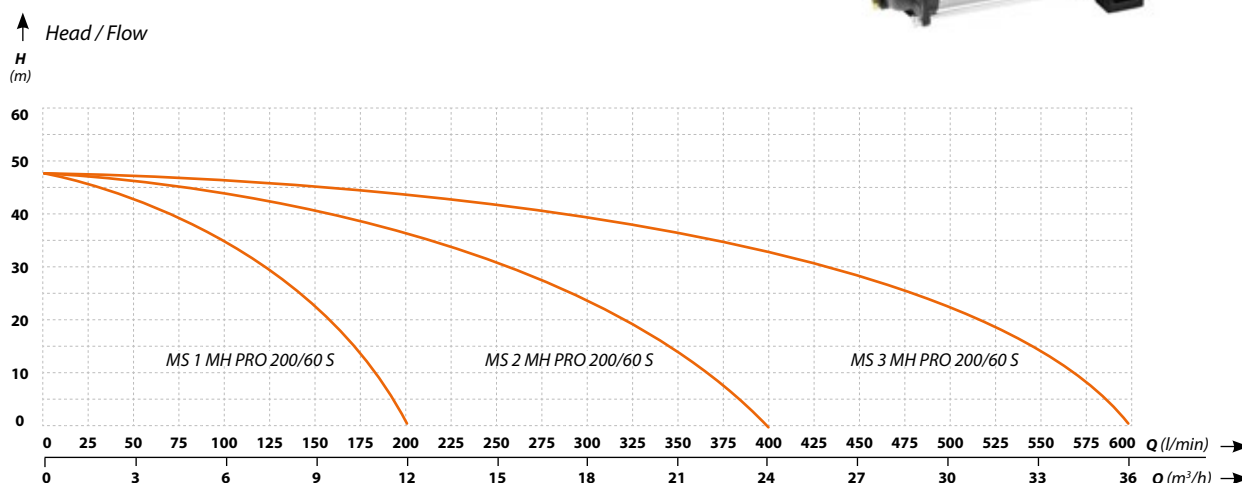
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Discharge manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MH PRO 120/65 S	31,5	80	55
MS 2 MH PRO 120/65 S	55,5	110	60
MS 3 MH PRO 120/65 S	90	120	65

MULTI SET MH PRO 200/60 S

230 V hydrophore sets based on a self-priming pump MH PRO 200/60 S



Sets

MS 1 MH PRO 200/60 S

- Flow (Q_{max}): 200 l/min
- Head: (H_{max}): 53 m
- Motor power: 1,5 kW
- Current consumption: 9,2 A
- Connection, intake manifold: 1¼"
- Connection, discharge manifold: 1¼"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MH PRO 200/60 S

- Flow (Q_{max}): 400 l/min
- Head: (H_{max}): 53 m
- Motor power: 3 kW
- Current consumption: 18,4 A
- Connection, intake manifold: 2"
- Connection, discharge manifold: 2"
- Vessel capacity: 12 L iQ PR FIX

MS 3 MH PRO 200/60 S

- Flow (Q_{max}): 600 l/min
- Head: (H_{max}): 53 m
- Motor power: 4,5 kW
- Current consumption: 27,6 A
- Connection, intake manifold: 3"
- Connection, discharge manifold: 3"
- Vessel capacity: 19 L iQ PR FIX

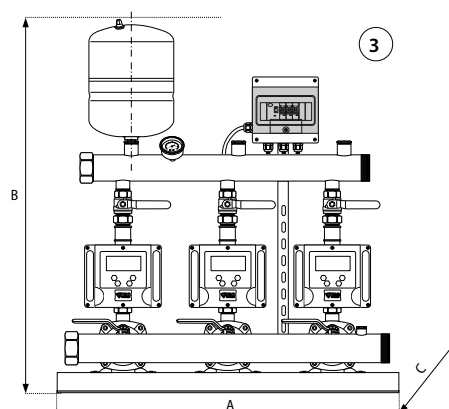
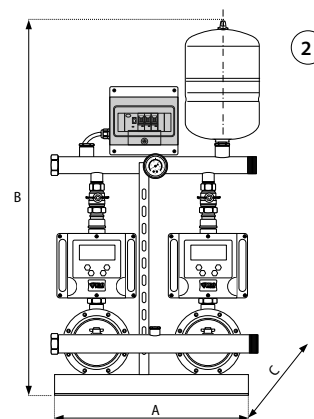
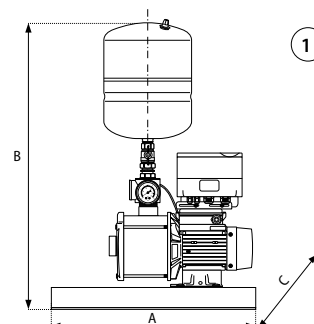
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

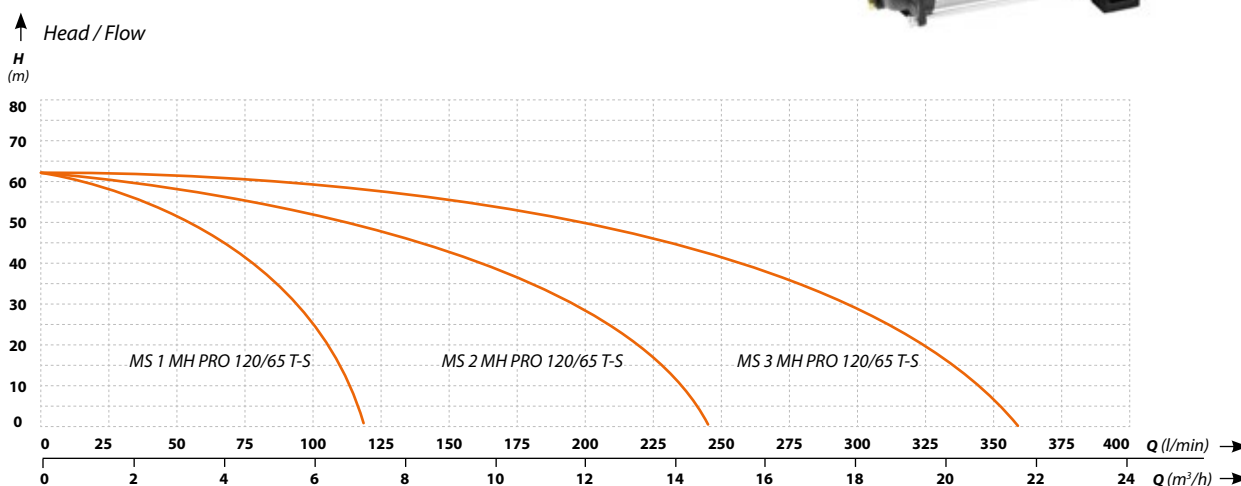
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MH PRO 200/60 S	31,5	80	55
MS 2 MH PRO 200/60 S	55,5	110	60
MS 3 MH PRO 200/60 S	90	120	65

MULTI SET MH PRO 120/65 T-S

230 V hydrophore sets based on a self-priming pump MH PRO 120/65 T-S



Sets

MS 1 MH PRO 120/65 T-S

- Flow (Q_{max}): 120 l/min
- Head: (H_{max}): 62 m
- Motor power: 1,5 kW
- Current consumption: 3,3 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MH PRO 120/65 T-S

- Flow (Q_{max}): 240 l/min
- Head: (H_{max}): 62 m
- Motor power: 3 kW
- Current consumption: 6,6 A
- Connection, intake manifold: 2"
- Connection, discharge manifold: 2"
- Vessel capacity: 8 L iQ PR FIX

MS 3 MH PRO 120/65 T-S

- Flow (Q_{max}): 360 l/min
- Head: (H_{max}): 62 m
- Motor power: 4,5 kW
- Current consumption: 9,9 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 2½"
- Vessel capacity: 12 L iQ PR FIX

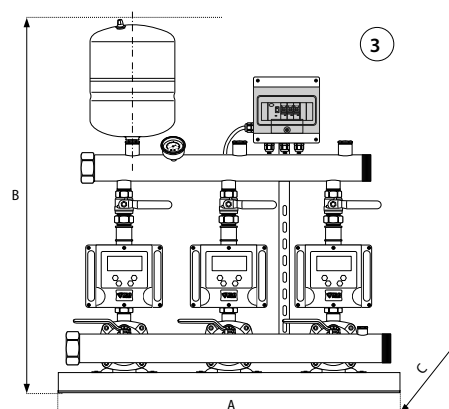
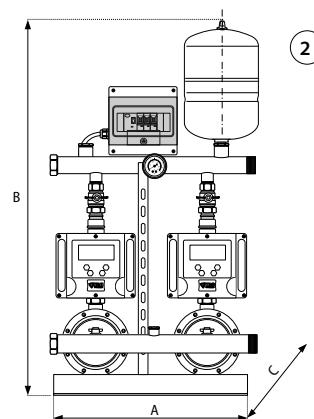
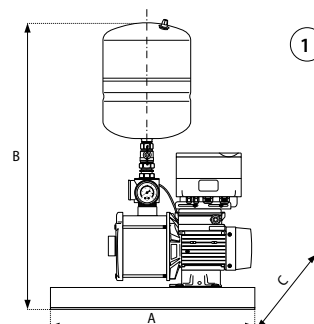
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

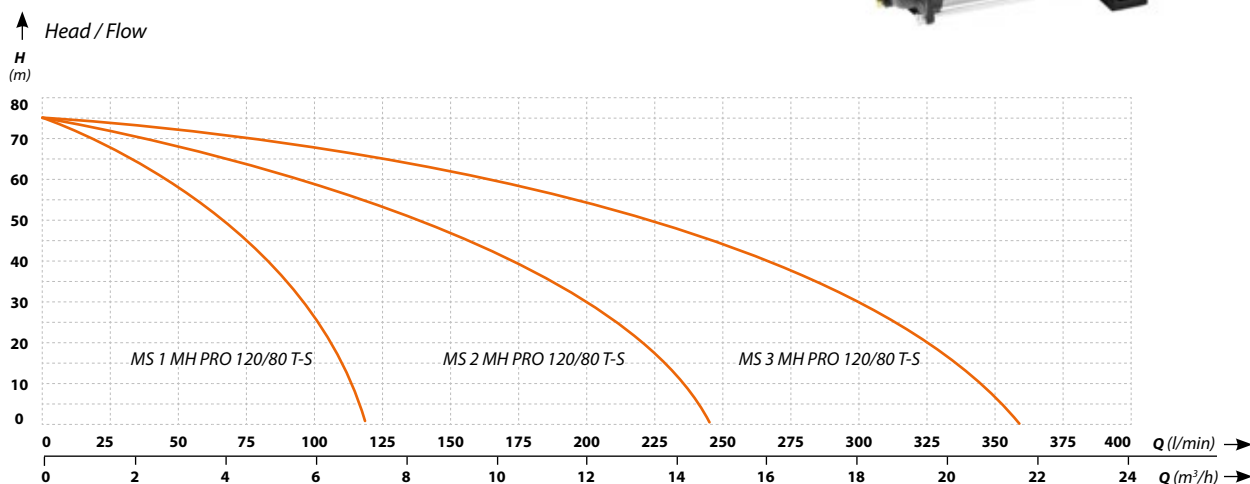
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MH PRO 120/65 T-S	31,5	80	55
MS 2 MH PRO 120/65 T-S	55,5	110	60
MS 3 MH PRO 120/65 T-S	90	120	65

MULTI SET MH PRO 120/80 T-S

230 V hydrophore sets based on a self-priming pump MH PRO 120/80 T-S



Sets

MS 1 MH PRO 120/80 T-S

- Flow (Q_{max}): 120 l/min
- Head: (H_{max}): 75 m
- Motor power: 1,5 kW
- Current consumption: 3,3 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MH PRO 120/80 T-S

- Flow (Q_{max}): 240 l/min
- Head: (H_{max}): 75 m
- Motor power: 3 kW
- Current consumption: 6,6 A
- Connection, intake manifold: 2"
- Connection, discharge manifold: 2"
- Vessel capacity: 8 L iQ PR FIX

MS 3 MH PRO 120/80 T-S

- Flow (Q_{max}): 360 l/min
- Head: (H_{max}): 75 m
- Motor power: 4,5 kW
- Current consumption: 9,9 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 12 L iQ PR FIX

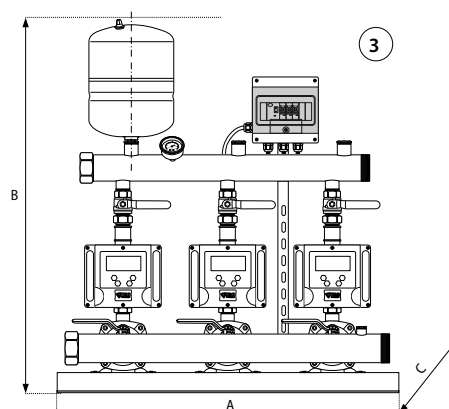
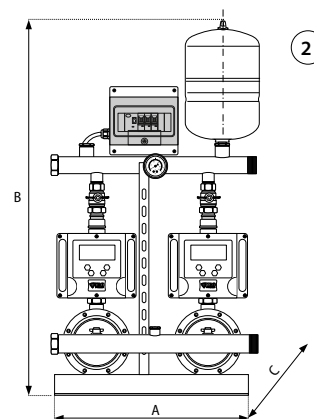
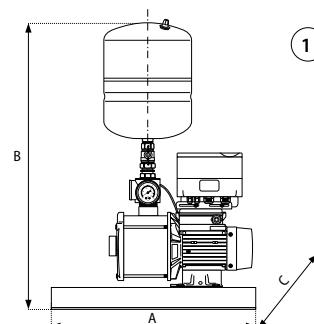
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

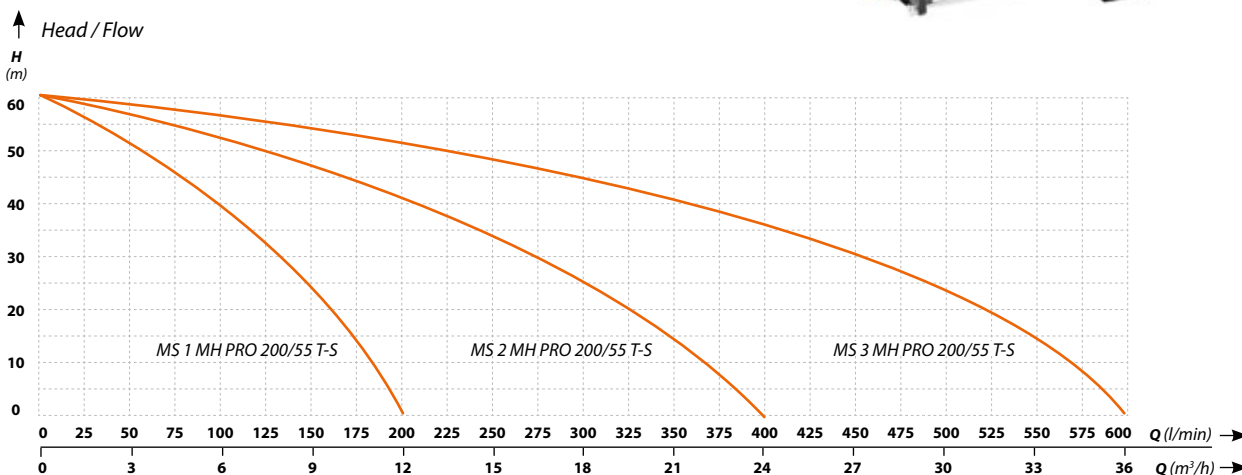
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MH PRO 120/80 T-S	31,5	80	55
MS 2 MH PRO 120/80 T-S	55,5	110	60
MS 3 MH PRO 120/80 T-S	90	120	65

MULTI SET MH PRO 200/55 T-S

230 V hydrophore sets based on a self-priming pump MH PRO 200/55 T-S



Sets

MS 1 MH PRO 200/55 T-S

- Flow (Q_{max}): 200 l/min
- Head: (H_{max}): 60 m
- Motor power: 1,8 kW
- Current consumption: 4 A
- Connection, intake manifold: 1¼"
- Connection, discharge manifold: 1¼"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MH PRO 200/55 T-S

- Flow (Q_{max}): 400 l/min
- Head: (H_{max}): 60 m
- Motor power: 3,6 kW
- Current consumption: 8 A
- Connection, intake manifold: 2"
- Connection, discharge manifold: 2"
- Vessel capacity: 12 L iQ PR FIX

MS 3 MH PRO 200/55 T-S

- Flow (Q_{max}): 600 l/min
- Head: (H_{max}): 60 m
- Motor power: 5,4 kW
- Current consumption: 12 A
- Connection, intake manifold: 3"
- Connection, discharge manifold: 3"
- Vessel capacity: 19 L iQ PR FIX

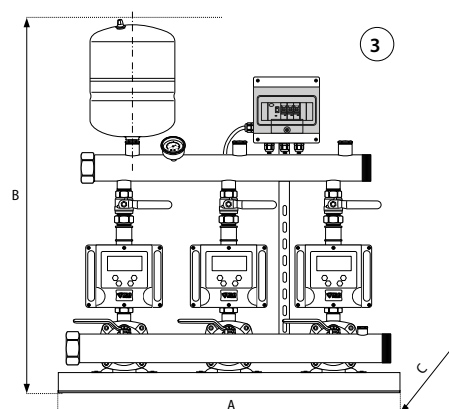
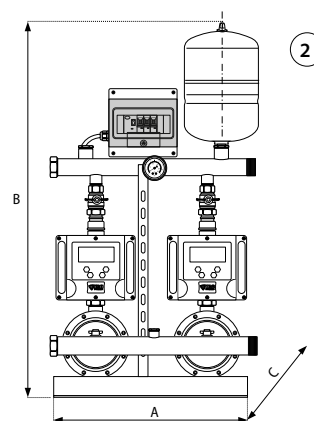
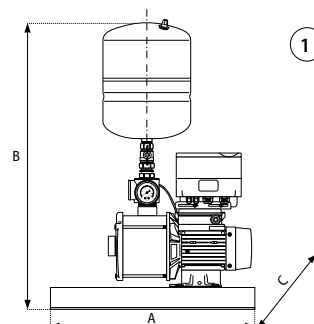
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

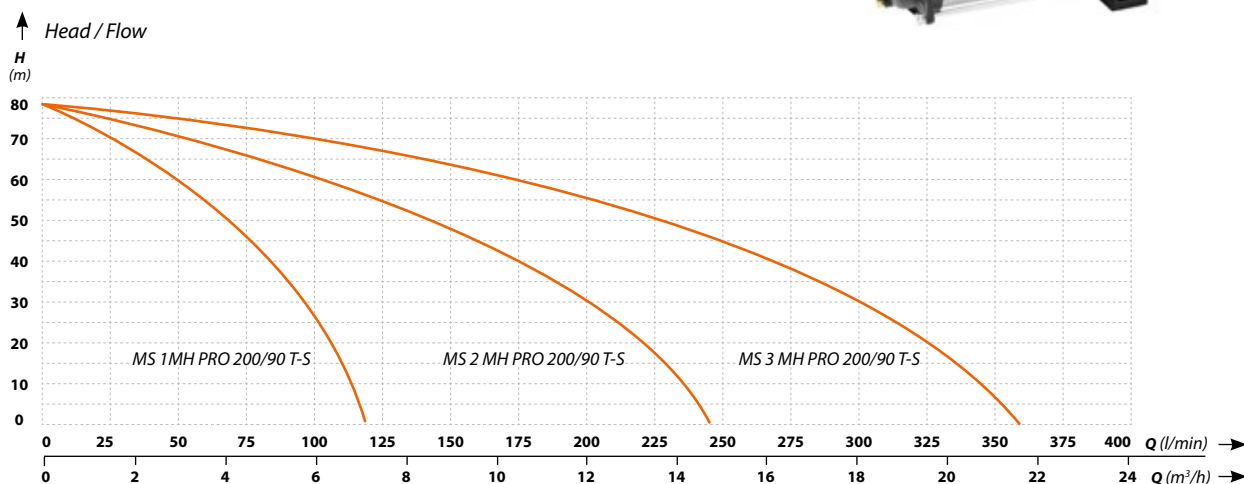
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MH PRO 200/55 T-S	31,5	80	55
MS 2 MH PRO 200/55 T-S	55,5	110	60
MS 3 MH PRO 200/55 T-S	90	120	65

MULTI SET MH PRO 200/90 T-S

230 V hydrophore sets based on a self-priming pump MH PRO 200/90 T-S



Sets

MS 1 MH PRO 200/90 T-S

- Flow (Q_{max}): 200 l/min
- Head: (H_{max}): 78 m
- Motor power: 2,2 kW
- Current consumption: 5,5 A
- Connection, intake manifold: 1¼"
- Connection, discharge manifold: 1¼"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MH PRO 200/90 T-S

- Flow (Q_{max}): 400 l/min
- Head: (H_{max}): 78 m
- Motor power: 4,4 kW
- Current consumption: 11 A
- Connection, intake manifold: 2"
- Connection, discharge manifold: 2"
- Vessel capacity: 12 L iQ PR FIX

MS 3 MH PRO 200/90 T-S

- Flow (Q_{max}): 600 l/min
- Head: (H_{max}): 78 m
- Motor power: 6,6 kW
- Current consumption: 16,5 A
- Connection, intake manifold: 3"
- Connection, discharge manifold: 3"
- Vessel capacity: 19 L iQ PR FIX

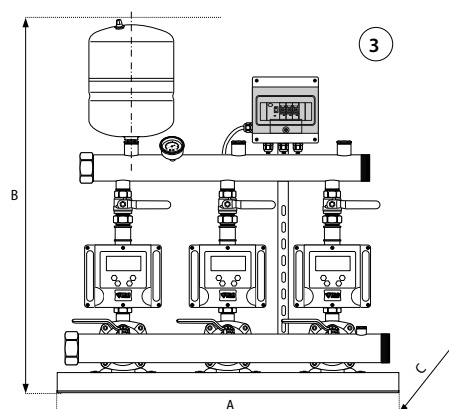
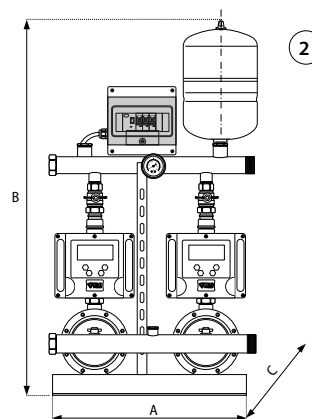
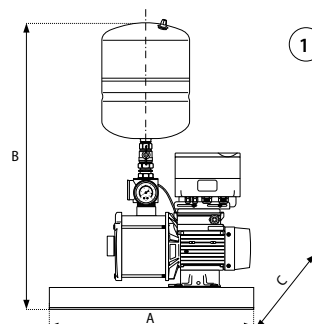
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

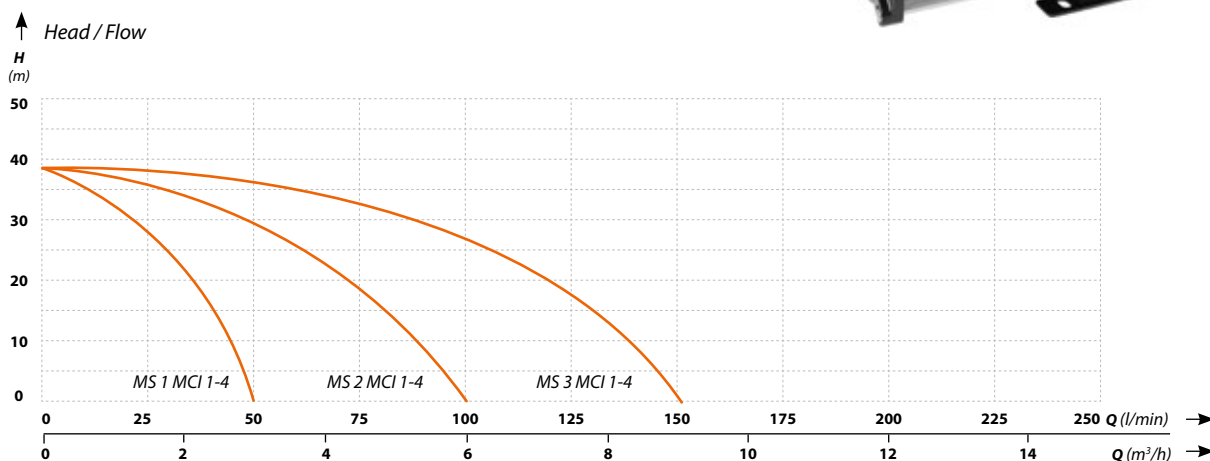
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MH PRO 200/90 T-S	31,5	80	55
MS 2 MH PRO 200/90 T-S	55,5	110	60
MS 3 MH PRO 200/90 T-S	90	120	65

MULTI SET MCI 1-4

230 V hydrophore sets based
on a self-priming pump
MCI 1-4



Sets

MS 1 MCI 1-4

- Flow (Q_{max}): 50 l/min
- Head: (H_{max}): 38,5 m
- Motor power: 0,37 kW
- Current consumption: 2,4 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MCI 1-4

- Flow (Q_{max}): 110 l/min
- Head: (H_{max}): 38,5 m
- Motor power: 0,74 kW
- Current consumption: 4,8 A
- Connection, intake manifold: 1½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 8 L iQ PR FIX

MS 3 MCI 1-4

- Flow (Q_{max}): 150 l/min
- Head: (H_{max}): 38,5 m
- Motor power: 1,11 kW
- Current consumption: 7,2 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 8 L iQ PR FIX

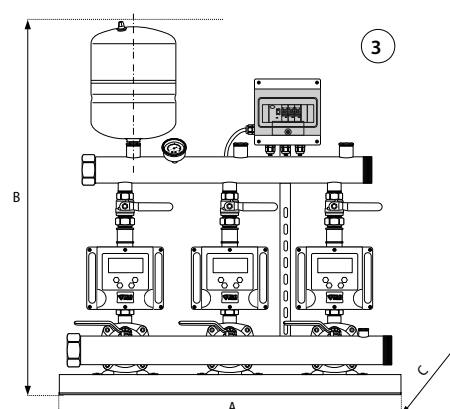
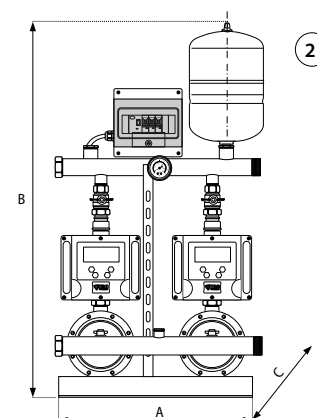
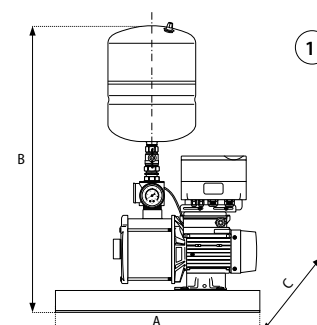
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2850 RPM

Materials:

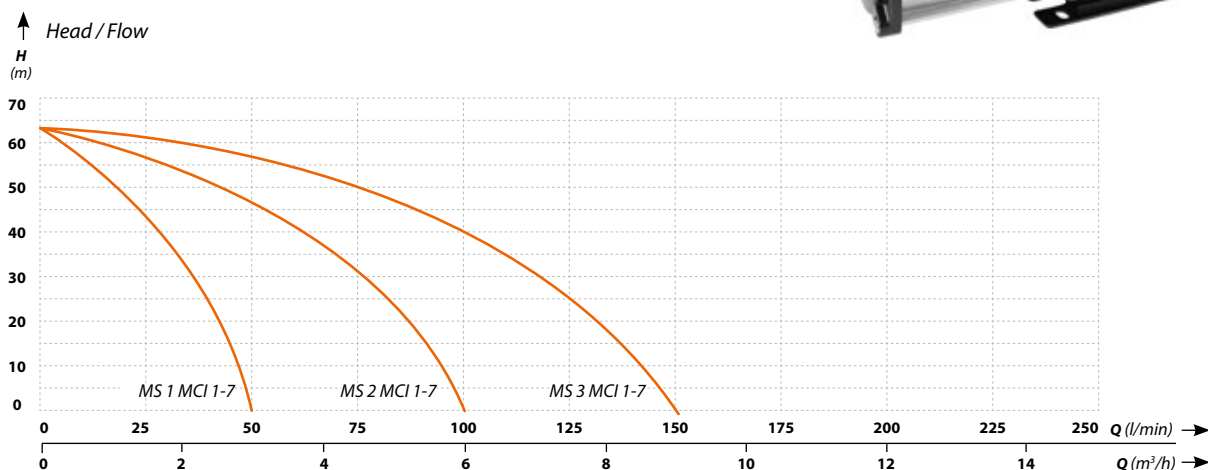
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MCI 1-4	31,5	80	55
MS 2 MCI 1-4	55,5	110	60
MS 3 MCI 1-4	90	120	65

MULTI SET MCI 1-7

230 V hydrophore sets based
on a self-priming pump
MCI 1-7



Sets

MS 1 MCI 1-7

- Flow (Q_{max}): 50 l/min
- Head: (H_{max}): 63 m
- Motor power: 0,55 kW
- Current consumption: 3,8 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MCI 1-7

- Flow (Q_{max}): 100 l/min
- Head: (H_{max}): 63 m
- Motor power: 1,1 kW
- Current consumption: 7,6 A
- Connection, intake manifold: 1½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 8 L iQ PR FIX

MS 3 MCI 1-7

- Flow (Q_{max}): 150 l/min
- Head: (H_{max}): 63 m
- Motor power: 1,65 kW
- Current consumption: 11,6 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 2½"
- Vessel capacity: 8 L iQ PR FIX

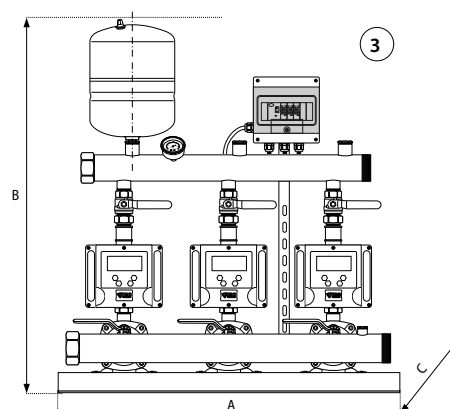
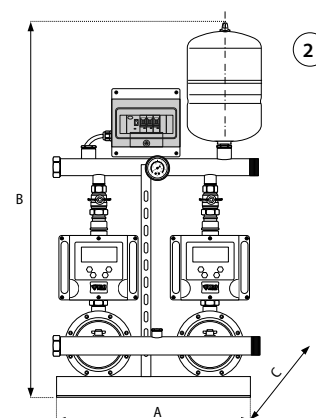
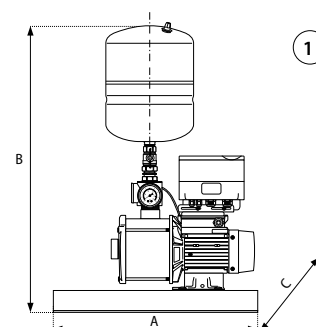
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2850 RPM

Materials:

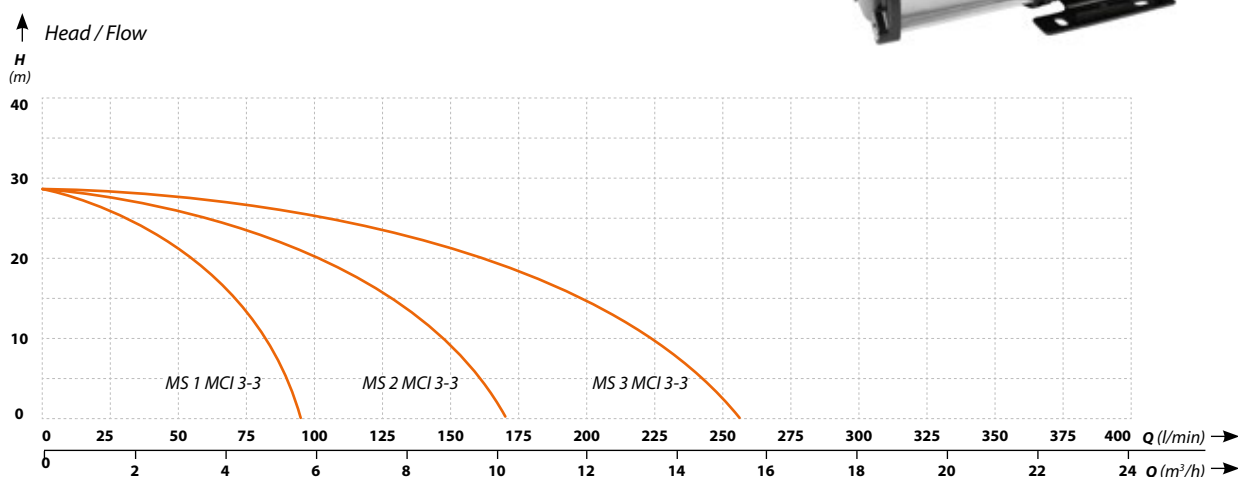
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MCI 1-7	31,5	80	55
MS 2 MCI 1-7	55,5	110	60
MS 3 MCI 1-7	90	120	65

MULTI SET MCI 3-3

230 V hydrophore sets based
on a self-priming pump
MCI 3-3



Sets

MS 1 MCI 3-3

- Flow (Q_{max}): 85 l/min
- Head: (H_{max}): 29 m
- Motor power: 0,37 kW
- Current consumption: 2,4 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MCI 3-3

- Flow (Q_{max}): 170 l/min
- Head: (H_{max}): 29 m
- Motor power: 0,74 kW
- Current consumption: 4,8 A
- Connection, intake manifold: 1½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 8 L iQ PR FIX

MS 3 MCI 3-3

- Flow (Q_{max}): 255 l/min
- Head: (H_{max}): 29 m
- Motor power: 1,11 kW
- Current consumption: 7,2 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 2½"
- Vessel capacity: 12 L iQ PR FIX

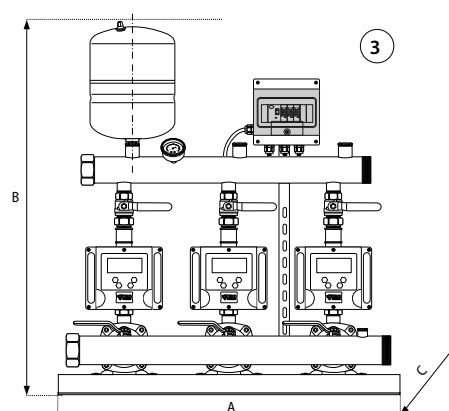
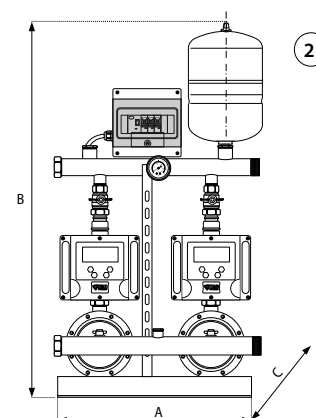
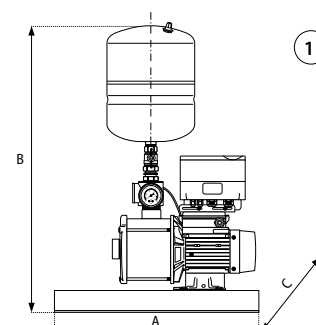
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2900 RPM

Materials:

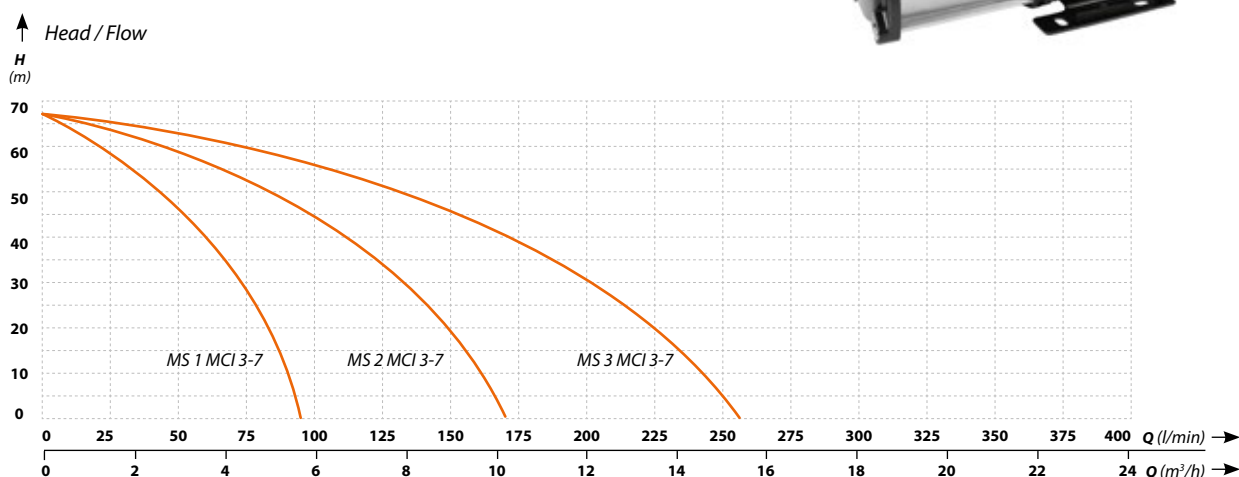
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MCI 3-3	31,5	80	55
MS 2 MCI 3-3	55,5	110	60
MS 3 MCI 3-3	90	120	65

MULTI SET MCI 3-7

230 V hydrophore sets based
on a self-priming pump
MCI 3-7



Sets

MS 1 MCI 3-7

- Flow (Q_{max}): 85 l/min
- Head: (H_{max}): 67 m
- Motor power: 1,1 kW
- Current consumption: 6,2 A
- Connection, intake manifold: 1"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MCI 3-7

- Flow (Q_{max}): 170 l/min
- Head: (H_{max}): 67 m
- Motor power: 2,2 kW
- Current consumption: 12,4 A
- Connection, intake manifold: 1½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 8 L iQ PR FIX

MS 3 MCI 3-7

- Flow (Q_{max}): 255 l/min
- Head: (H_{max}): 67 m
- Motor power: 3,3 kW
- Current consumption: 18,6 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 2½"
- Vessel capacity: 12 L iQ PR FIX

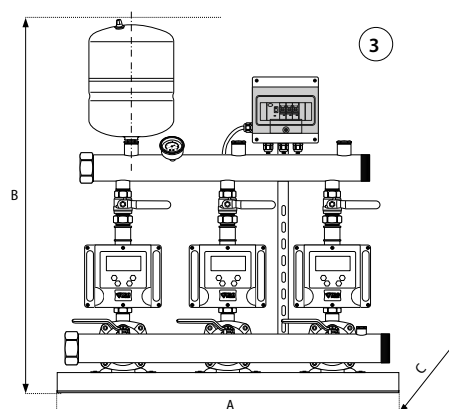
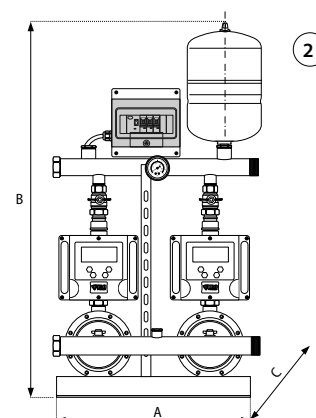
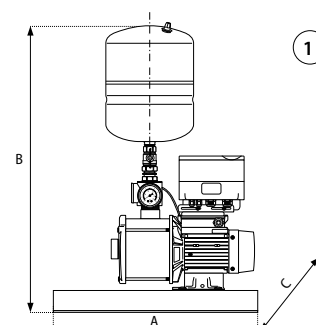
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2850 RPM

Materials:

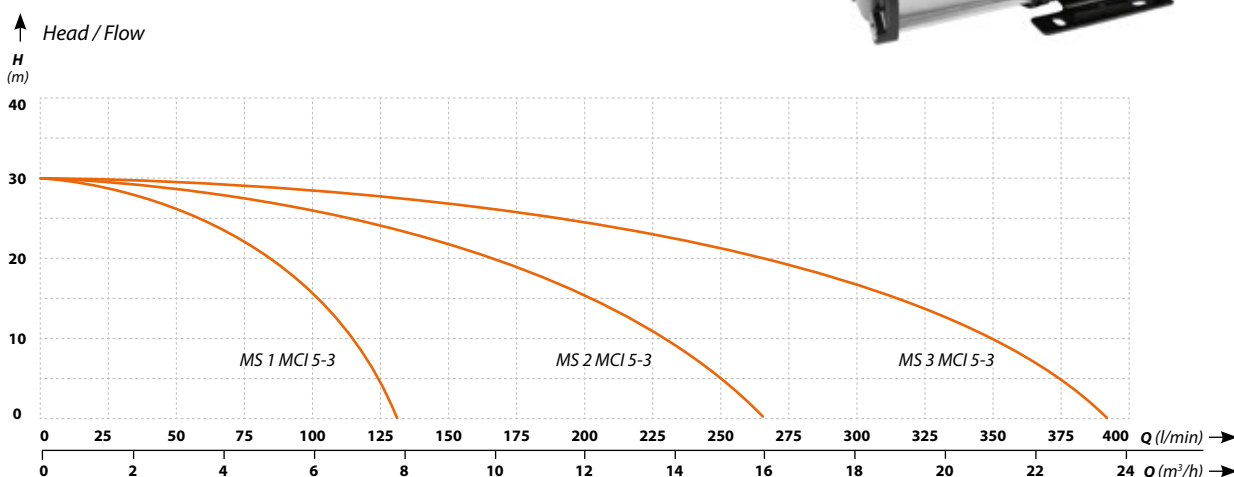
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MCI 3-7	31,5	80	55
MS 2 MCI 3-7	55,5	110	60
MS 3 MCI 3-7	90	120	65

MULTI SET MCI 5-3

230 V hydrophore sets based
on a self-priming pump
MCI 5-3



Sets

MS 1 MCI 5-3

- Flow (Q_{max}): 130 l/min
- Head: (H_{max}): 30 m
- Motor power: 0,55 kW
- Current consumption: 3,8 A
- Connection, intake manifold: 1¼"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MCI 5-3

- Flow (Q_{max}): 260 l/min
- Head: (H_{max}): 30 m
- Motor power: 1,1 kW
- Current consumption: 7,6 A
- Connection, intake manifold: 1½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 12 L iQ PR FIX

MS 3 MCI 5-3

- Flow (Q_{max}): 390 l/min
- Head: (H_{max}): 30 m
- Motor power: 1,65 kW
- Current consumption: 11,4 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 1½"
- Vessel capacity: 12 L iQ PR FIX

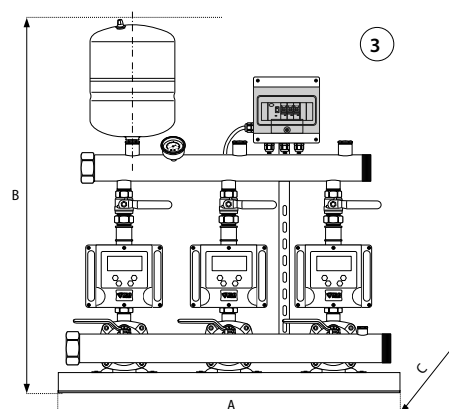
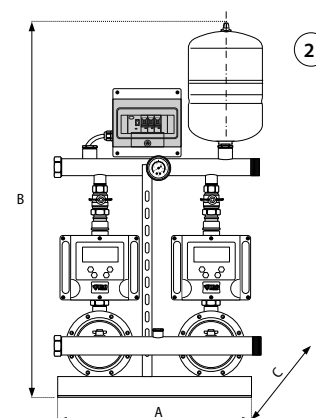
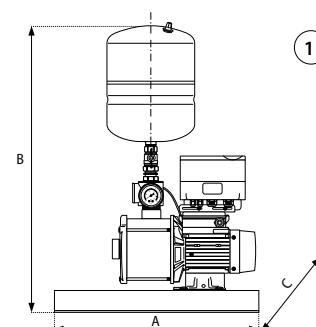
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2850 RPM

Materials:

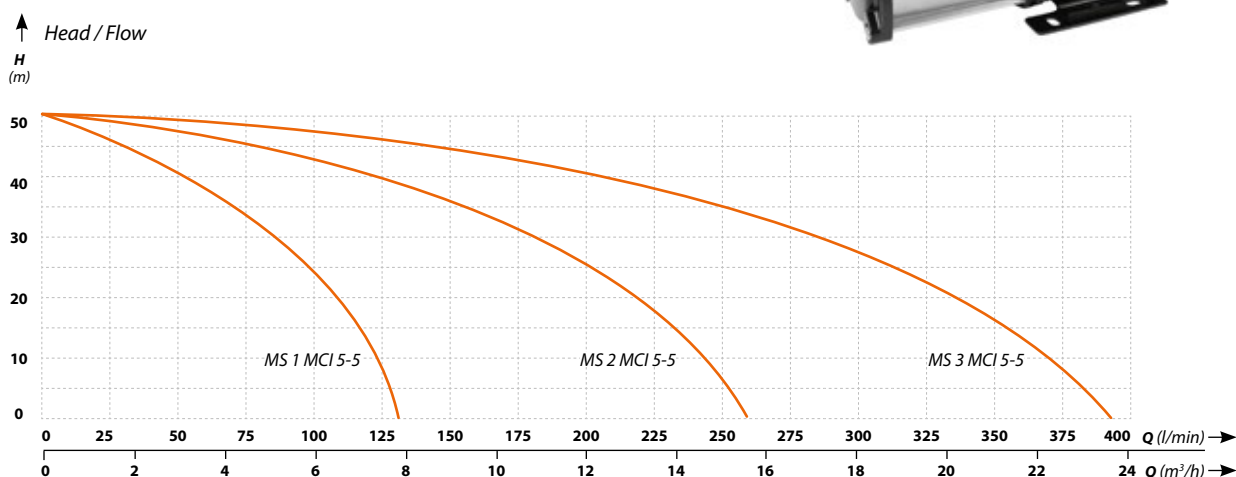
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MCI 5-3	31,5	80	55
MS 2 MCI 5-3	55,5	110	60
MS 3 MCI 5-3	90	120	65

MULTI SET MCI 5-5

230 V hydrophore sets based
on a self-priming pump
MCI 5-5



Sets

MS 1 MCI 5-5

- Flow (Q_{max}): 130 l/min
- Head: (H_{max}): 50 m
- Motor power: 1,1 kW
- Current consumption: 5,2 A
- Connection, intake manifold: 1¼"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MCI 5-5

- Flow (Q_{max}): 260 l/min
- Head: (H_{max}): 50 m
- Motor power: 2,2 kW
- Current consumption: 10,4 A
- Connection, intake manifold: 2"
- Connection, discharge manifold: 2"
- Vessel capacity: 12 L iQ PR FIX

MS 3 MCI 5-5

- Flow (Q_{max}): 390 l/min
- Head: (H_{max}): 50 m
- Motor power: 3,3 kW
- Current consumption: 15,6 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 2½"
- Vessel capacity: 12 L iQ PR FIX

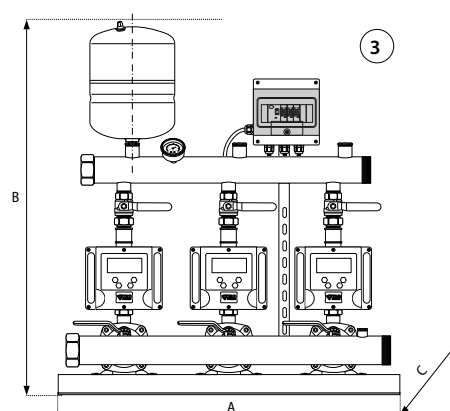
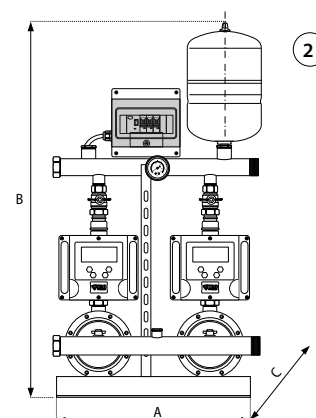
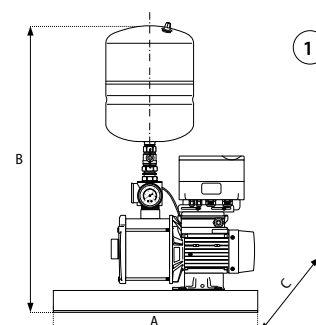
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2850 RPM

Materials:

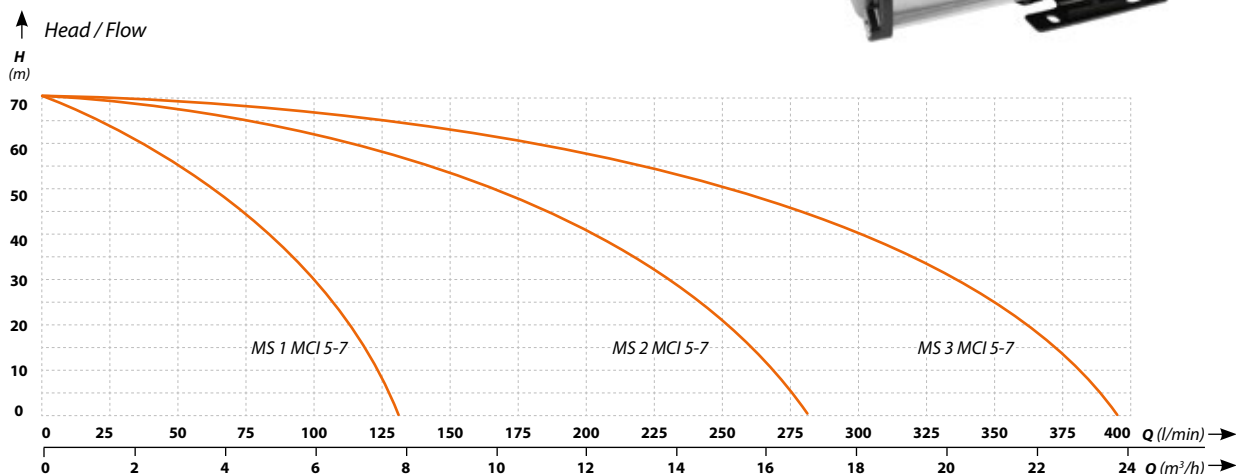
- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MCI 5-5	31,5	80	55
MS 2 MCI 5-5	55,5	110	60
MS 3 MCI 5-5	90	120	65

MULTI SET MCI 5-7

230 V hydrophore sets based
on a self-priming pump
MCI 5-7



Sets

MS 1 MCI 5-7

- Flow (Q_{max}): 130 l/min
- Head: (H_{max}): 70 m
- Motor power: 1,5 kW
- Current consumption: 7 A
- Connection, intake manifold: 1¼"
- Connection, discharge manifold: 1"
- Vessel capacity: 8 L iQ PR FIX

MS 2 MCI 5-7

- Flow (Q_{max}): 260 l/min
- Head: (H_{max}): 70 m
- Motor power: 3 kW
- Current consumption: 14 A
- Connection, intake manifold: 2"
- Connection, discharge manifold: 2"
- Vessel capacity: 12 L iQ PR FIX

MS 3 MCI 5-7

- Flow (Q_{max}): 390 l/min
- Head: (H_{max}): 50 m
- Motor power: 4,5 kW
- Current consumption: 21 A
- Connection, intake manifold: 2½"
- Connection, discharge manifold: 2½"
- Vessel capacity: 12 L iQ PR FIX

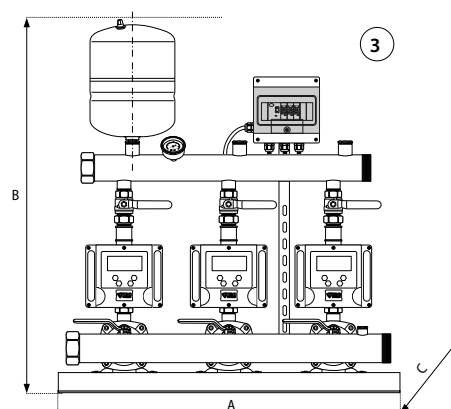
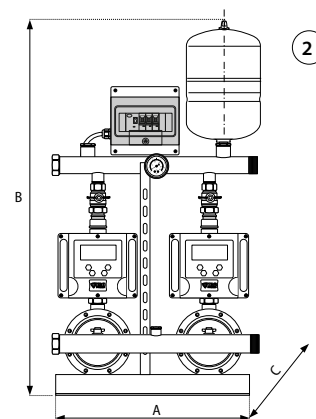
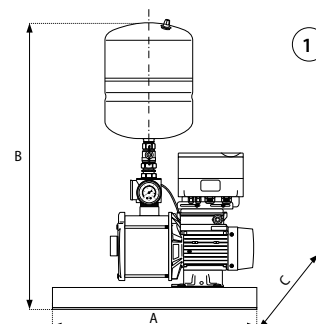
Pump

Technical data:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Operating mode: continuous
- Ingress protection: IP55
- Motor speed: 2850 RPM

Materials:

- Pump body: stainless steel AISI 304
- Shaft: stainless steel AISI 304
- Impeller: polymer PPO / stainless steel AISI 304
- Console: cast iron
- Interwall: stainless steel AISI 304
- Diffuser / bar: polymer PPO
- Mechanical seal: ceramic / graphite / NBR
- Intake manifold: AISI 304
- Exhaust manifold: AISI 304
- Mounting plate: galvanized steel



Dimensions (cm)			
Model	A	B	C
MS 1 MCI 5-7	31,5	80	55
MS 2 MCI 5-7	55,5	110	60
MS 3 MCI 5-7	90	120	65

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