EASYPUMP Pumps with electronic control device

Domestic use



FUTURE JET-EP

INSTALLATION AND USE

EASYPUMP is a ready-to-use and easy-to-install pressurization system, designed to increase water pressure for residential use or irrigation purposes.

EASYPUMP features a single-phase pump paired with an electronic control unit, known as EASYPRESS.
EASYPRESS ensures automatic activation or deactivation of the pump based on water consumption, offering protection against dry running and system leaks. it also has an integrated non-return valve and a micro-accumulator that allows operation without the need for an expansion tank.

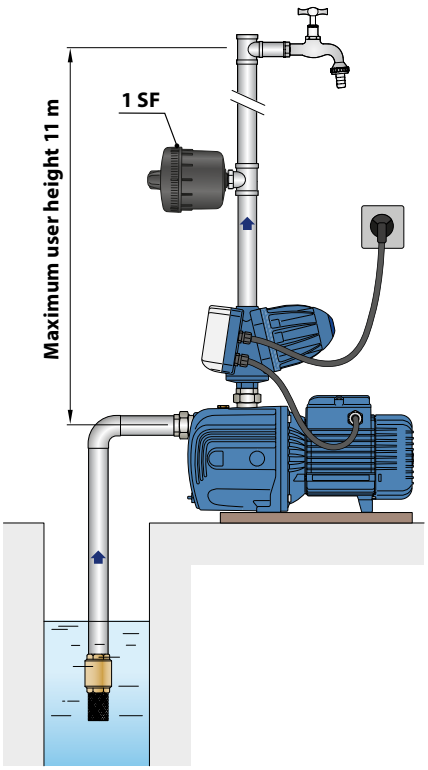
EASYPUMP activates automatically when the system's pressure drops below the preset threshold (**1.5 bar**) and continues to run as long as water is flowing**.**

COMPONENTS INCLUDED

- **※ Single-phase pump**
- **※ EASYPRESS electronic control device with 1.5 bar restart pressure**
- **※ GSR quick-connect coupling**
- **※ 1.5 metres cable with Schuko plug**

EXAMPLES OF INSTALLATION

※ To minimize frequent restarts resulting from brief usage or system leaks, it is advisable to install an expansion tank pre-filled to **1.2 bar** (e.g., tank **1SF**).



TYPE	POWER (P2)		Q	H
Single-phase	**kW**	**HP**	l/min	metres
3CPm 80-EP	0.45	0.60	5 – 80	38 – 5
4CPm 80-EP	0.55	0.75	5 – 80	50 – 10
4CPm 100-EP	0.75	1	5 – 130	50 – 5
3CRm 80-EP	0.45	0.60	5 – 80	38 – 5
4CRm 80-EP	0.55	0.75	5 – 80	50 – 10
4CRm 100-EP	0.75	1	5 – 130	50 – 5
CPm 158-EP	0.75	1	10 – 90	34 – 25
FUTURE JETm 2C - EP	0.75	1	5 – 120	52 – 10
FUTURE JETm 2A - EP	0.90	1.25	5 – 120	56 – 13.7
JCRm 2C - EP	0.75	1	5 – 70	51 – 24
JCRm 2A - EP	0.90	1.25	5 – 70	55 – 28
PLURIJETm 3/80-EP	0.48	0.65	5 – 80	38 – 5
PLURIJETm 4/80-EP	0.55	0.75	5 – 80	50 – 10
PLURIJETm 4/100-EP	0.75	1	5 – 130	50 – 5



HYDROFRESH 24 CL

INSTALLATION AND USE

The **HYDROFRESH** group is designed for residential water supply or irrigation purposes and is available with a **24 litres** or a **60 litres** horizontal expansion tank. This cost-effective, ready-to-use system improves pressurization through two key features:

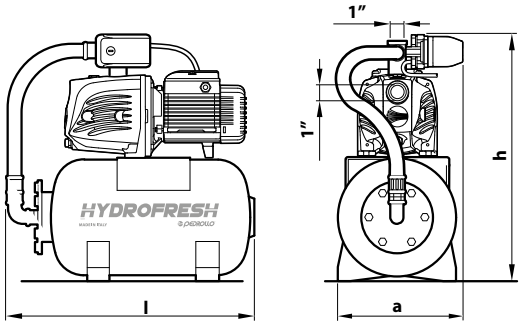
- an **expansion tank** designed to reduce the number of times the pump needs to turn on and counteract any loss of water pressure that occurs when you open a faucet
- a **pressure switch** that automatically controls the pump operation

COMPONENTS INCLUDED

- ※ **Single-phase pump**
- ※ **Expansion tank**
- ※ **PSG-1 pressure switch**
- ※ **Pressure Gauge**
- ※ **Flexible hose**
- ※ **Brass fitting**
- ※ **1.5 metres cable with Schuko plug**

TYPE	POWER (P2) kW	POWER (P2) HP	CAPACITY litres	FLOW RATE (1) litres/min	CALIBRATION (2) bar
HYDROFRESH 24 CL					
FUTURE JETm 1A - **24 CL**	0.55	0.75	**24**	90	1.2 – 3.2
FUTURE JETm 2C - **24 CL**	0.75	1	**24**	110	1.2 – 3.2
FUTURE JETm 1A-ST - **24 CL**	0.55	0.75	**24**	90	1.2 – 3.2
FUTURE JETm 2C-ST - **24 CL**	0.75	1	**24**	110	1.2 – 3.2
HYDROFRESH 60 CL					
FUTURE JETm 1A - **60 CL**	0.55	0.75	**60**	90	1.2 – 3.2
FUTURE JETm 2C - **60 CL**	0.75	1	**60**	110	1.2 – 3.2
FUTURE JETm 1A-ST - **60 CL**	0.55	0.75	**60**	90	1.2 – 3.2
FUTURE JETm 2C-ST - **60 CL**	0.75	1	**60**	110	1.2 – 3.2

(1) Maximum flow rate corresponding to the minimum set pressure of the pressure switch
(2) Pressure switch calibration (recommended)



DIMENSIONS AND WEIGHT

HYDROFRESH 24 CL	DIMENSIONS mm l	DIMENSIONS mm a	DIMENSIONS mm h	WEIGHT kg
FUTURE JETm 1A - **24 CL**	535	255	520	**18.7**
FUTURE JETm 2C - **24 CL**			530	**22.0**
FUTURE JETm 1A-ST - **24 CL**			560	**15.8**
FUTURE JETm 2C-ST - **24 CL**			570	**19.2**
HYDROFRESH 60 CL				
FUTURE JETm 1A - **60 CL**	730	340	657	**23.7**
FUTURE JETm 2C - **60 CL**			675	**27.0**
FUTURE JETm 1A-ST - **60 CL**	730	340	678	**20.8**
FUTURE JETm 2C-ST - **60 CL**			703	**24.2**

DG-BLU

Automatic pressurization system with inverter

Clean water

Domestic use

Civil use



PRODUCT DESCRIPTION

DG-BLU is a cutting-edge, automatic pressurization system featuring a high-efficiency, self-priming pump with multiple impellers. It comes complete with a storage tank, pressure and flow sensors, and a check valve, all designed to work quietly and efficiently**.**

This compact powerhouse stands out for its advanced electronic inverter control, which intelligently manages the system performance by:

– keeping the pressure constant according to water usage;
– monitoring hydraulic and electrical conditions to safeguard against malfunctions;
– allowing for integration with another DG-BLU unit through an optional expansion card;
– adapting seamlessly to any type of pressurization system, even existing ones;
– reducing electrical consumption with lower startup and running currents, achieving greater energy efficiency.

INSTALLATION AND USE

※ **DG-BLU** is designed to cater to the needs of single and two-family homes.
※ **DUAL-DG-BLU** units are pre-assembled pump systems, perfectly suited for multi-unit residences.

TECHNICAL DATA

※ Power supply: **1~ 230 V** ± 10%
※ Frequency: **50/60 Hz**
※ Insulation: **class F**
※ Maximum current absorbed:
  – **7.5 A** DG-BLU 3
  – **10 A** DG-BLU 5
※ Maximum power input P1:
  – **1.0 kW** DG-BLU 3
  – **1.5 kW** DG-BLU 5
※ Protection rating: **IP X4**
※ Set point from the factory: **3 bar**
※ 1.5 metres cable with Schuko plug

APPLICATION LIMITS

- Manometric suction head up to **8 m**
- Liquid temperature between **0 °C** and **+40 °C**
- Ambient temperature between 0 °C and **+40 °C**
- Max. port pressure **4 bar**
- Max pressure **10 bar**
- Continuous running duty **S1**

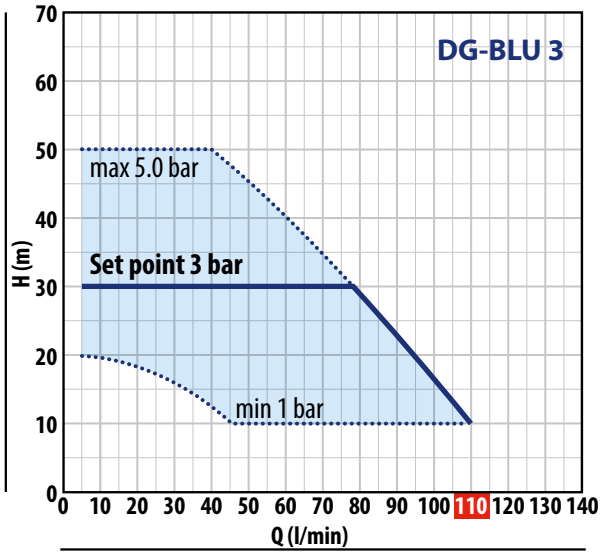
PATENTS - TRADE MARKS - MODELS

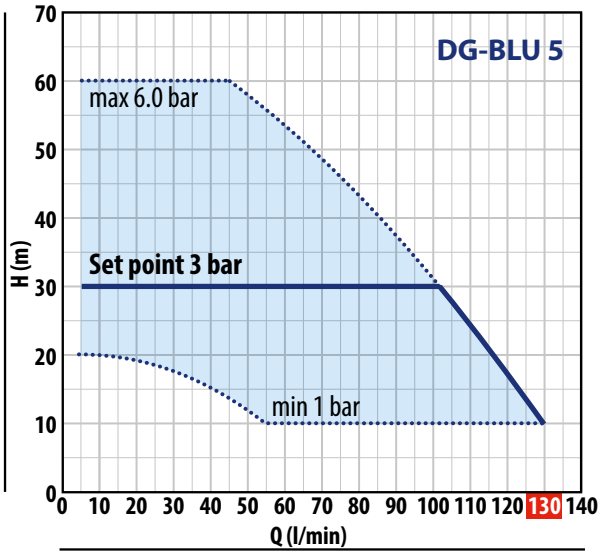
- Registered community model No. 015048622-0001

CERTIFICATIONSIN PROGRESS

WRAS APPROVED PRODUCT · ATTESTATION DE CONFORMITE SANITAIRE ACS · NSF Certified to NSF/ANSI 61 & 372 · CSA C US

PERFORMANCE CURVES

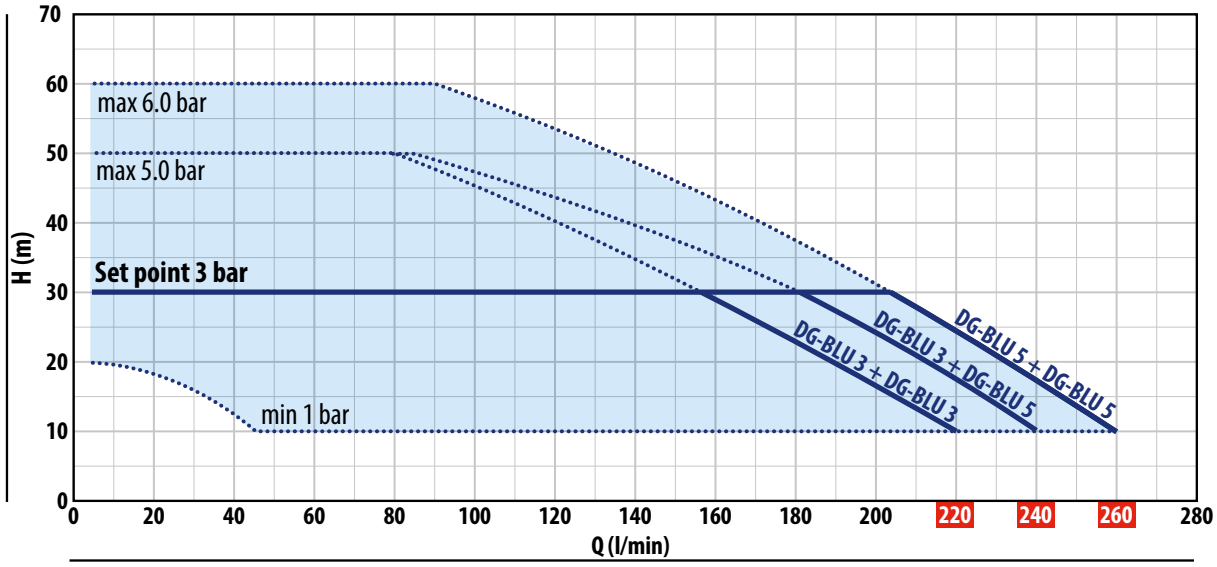




TYPE	POWER P2			PERFORMANCE Q	PERFORMANCE H	PERFORMANCE (ADJUSTABLE SET POINT) Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	**kW**	**HP**	▲	l/min	metres	bar	l/min	bar	l/min	bar	l/min
DG-BLU 3	0.75	1	IE3	5 – **110**	50 – 10	1.0	45 – **110**	**3.0**	5 – **79**	5.0	5 – 40
DG-BLU 5	1.1	1.5		5 – **130**	60 – 10	1.0	55 – **130**	**3.0**	5 – **102**	6.0	5 – 45

Q = Flow rate **H** = Total manometric head ▲Efficiency three-phase motor (IEC 60034-30-1)

PERFORMANCE CURVES FOR A GROUP OF TWO DG-BLU UNITS



TYPE	POWER P2			PERFORMANCE Q	PERFORMANCE H	PERFORMANCE (ADJUSTABLE SET POINT) Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	**kW**	**HP**	▲	l/min	metres	bar	l/min	bar	l/min	bar	l/min
DUAL DG-BLU 3+3	0.75+0.75	1+1	IE3	5 – **220**	50 – 10	1.0	45 – **220**	**3.0**	5 – **158**	5.0	5 – **80**
DUAL DG-BLU 3+5	0.75+1.1	1+1.5		5 – **240**	50 – 10	1.0	45 – **240**	**3.0**	5 – **181**	5.0	5 – **85**
DUAL DG-BLU 5+5	1.1+1.1	1.5+1.5		5 – **260**	60 – 10	1.0	55 – **260**	**3.0**	5 – **204**	6.0	5 – **90**

Q = Flow rate **H** = Total manometric head
▲Three-phase motor efficiency (IEC 60034-30-1)

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

DG-BLU

KEY FEATURES

ALL IN ONE
- Self-priming multistage pump
- Frequency inverter
- Expansion tank
- Check valve
- Pressure and flow sensor

INSTALLABLE ANYWHERE
Thanks to its compactness, quiet operation, and 360° adjustable connections, DG-BLU can be installed anywhere

QUIET

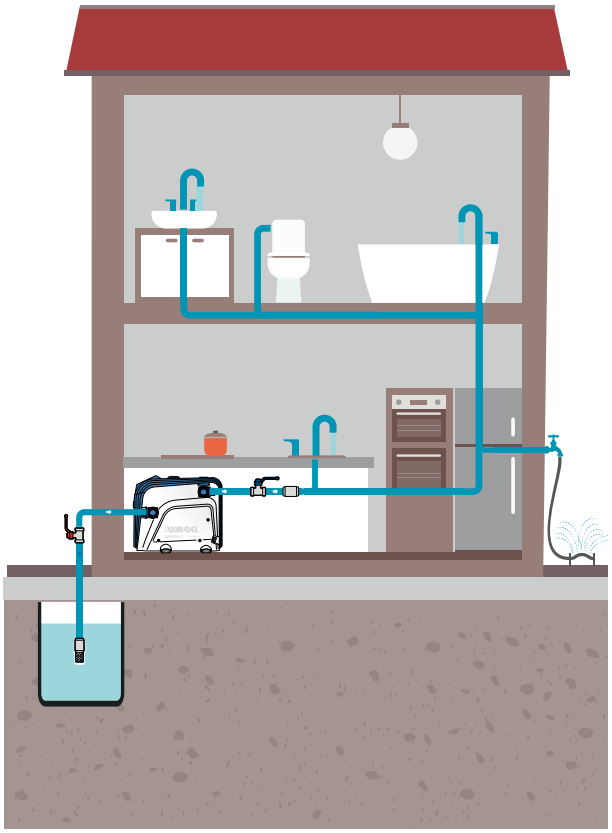
COMPACT

CONSTANT PRESSURE

EASY TO USE

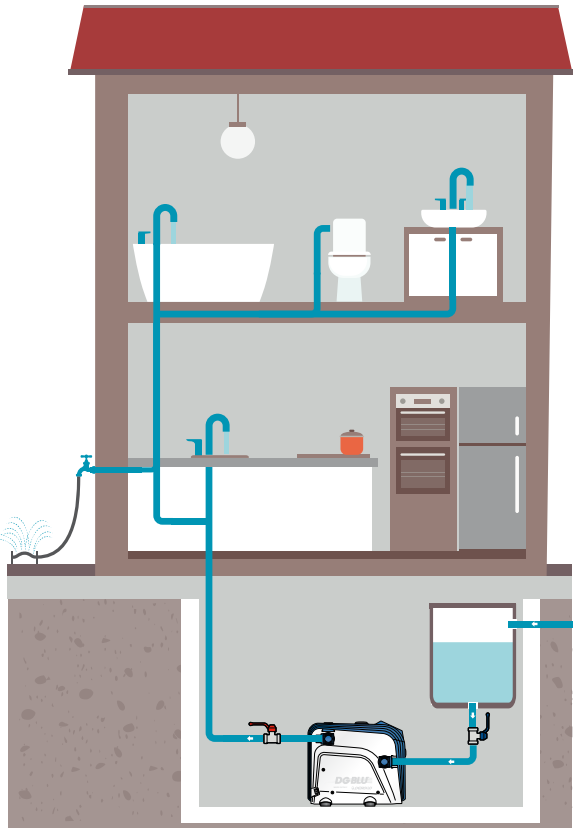
TYPICAL INSTALLATION

ABOVE GROUND
(drawing from a shallow tank or well)

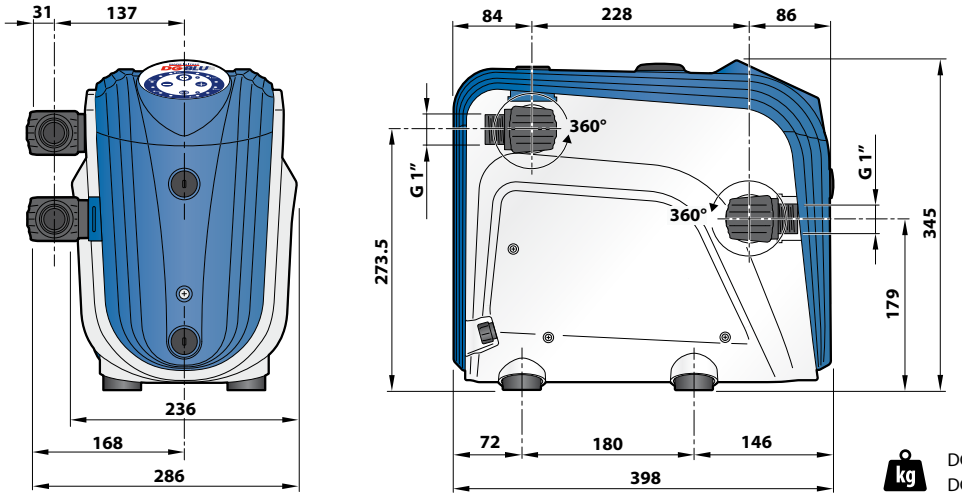




BELOW GROUND
(tank or aqueduct)

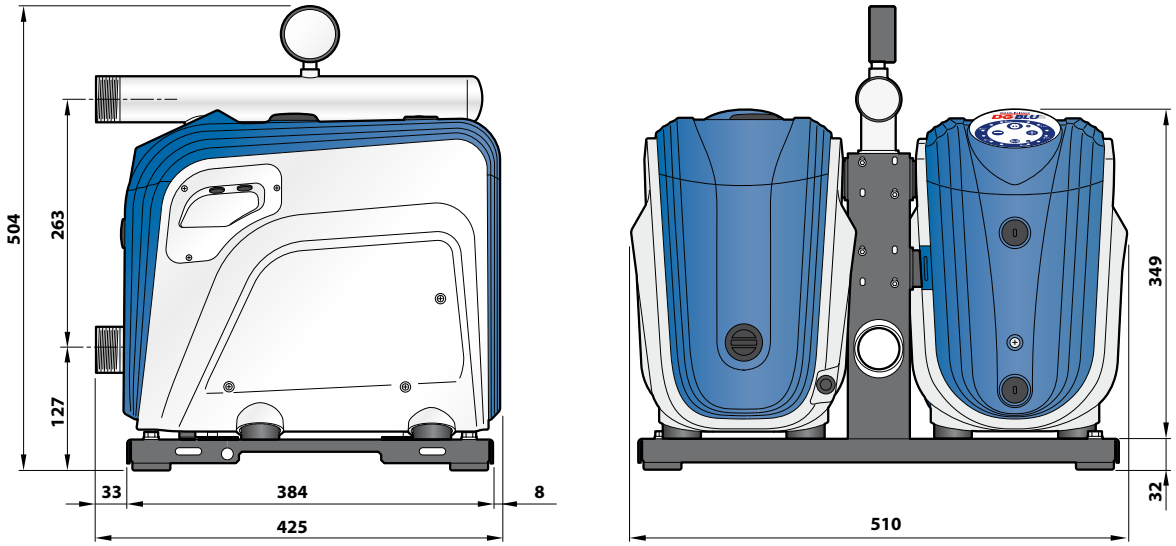


DIMENSIONS AND WEIGHTS (mm)



DG-BLU 3: **15 kg**
DG-BLU 5: **16 kg**

DUAL DG-BLU DIMENSIONS AND WEIGHTS (mm)



DUAL DG-BLU 3+3: **43 kg**
DUAL DG-BLU 3+5: **44 kg**
DUAL DG-BLU 5+5: **45 kg**

OPTIONAL ACCESSORIES



Connection kit for two DG-BLU units



Electronic expansion board



Kit for wall installation of a single DG-BLU



Wall installation kit of a two-unit group

EASYSMALL Automatic control device

Clean water Domestic use



INSTALLATION AND USE

EASYSMALL is a compact and **cost-effective** electronic control and protection device for single-phase domestic pumps with power up to **1.5 HP**.

PRODUCT DESCRIPTION

※ **EASYSMALL** features a pressure sensor and a flow sensor linked to an electronic system that automatically activates the pump when a faucet's opening lowers the pressure below a specified level and deactivates it when the flow stops or dips under **2 l/min**.

※ **EASYSMALL** is also equipped with:
- a pressure gauge for immediate pressure readings;
- an integrated and inspectable check valve;
- Two outlets to fit existing systems and to allow for the installation of a small expansion tank, ensuring better operation (**1SF**).

EASYSMALL's integrated electronics protect the pump from:

※ Dry running
※ frequent starts due to leaks in the system;
※ lockout due to system inactivity.

TECHNICAL DATA

TYPE	P2		Power supply		Continuous duty current
Single-phase	kW	HP	Volt	Hz	
EASYSMALL	1.1	1.5	230	50/60	10 A

PERFORMANCE RANGE

※ Restart pressure: **1.5 bar**
※ Max load capacity: **120 l/min** (7.2 m³/h)

APPLICATION LIMITS

※ Liquid temperature up to **+50 °C**
※ Ambient temperature up to **+40 °C**
※ Maximum operating pressure **10 bar**
※ Protection rating: **IP 65**

ACCESSORIES

※ **1SF 1 litre(1" M) technopolymer tank**



※ **GSR** Special three-piece coupling with o-ring seal (**1"**)



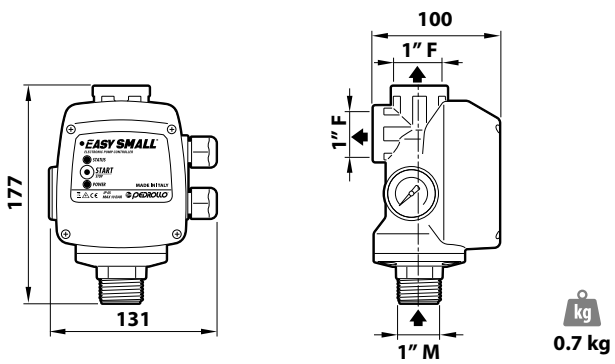
PATENTS - TRADE MARKS - MODELS

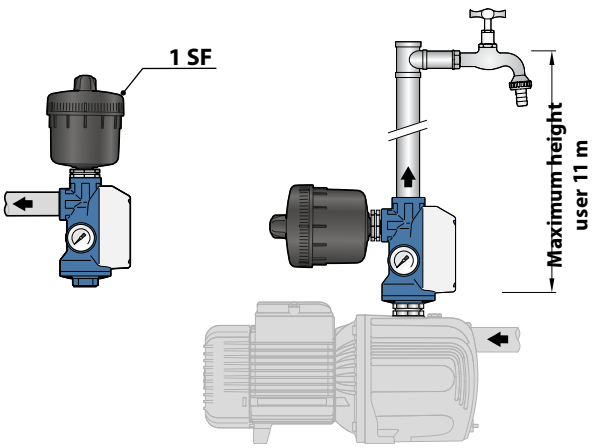
※ Registered Community Model No. 001774928
※ EASYSMALL® registered trademark No. 0001511131

ADJUSTMENT

To avoid frequent restarts due to possible microleaks in the system and for greater energy savings, the **1SF** tank should be installed with a precharge of **1.2 bar**.

DIMENSIONS AND WEIGHT





EASYPRESS Automatic control device

Clean water Domestic use



TECHNICAL DATA

TYPE Single-phase	P2 kW	P2 HP	Power supply Volt	Power supply Hz	Continuous duty current
EASYPRESS	1.5	2	230	50/60	13 A

OUT OF SERVICE

DRY RUNNING

FREQUENT START-UP

The **EASYPRESS** features 2 LED indicators to show the system's operating status and alerting to any issues through blinking patterns. A guide on the user interface helps to identify specific problems indicated by the LEDs..

PERFORMANCE RANGE

※ Restart pressure: **1.5 bar** 🔵
※ Maximum volume capacity: **170 l/min** (10 m³/h)

INSTALLATION AND USE

EASYPRESS is a durable and reliable electronic device designed to control and safeguard single-phase domestic pumps with a power capacity up to **2 HP**.

PRODUCT DESCRIPTION

※ **EASYPRESS** features a pressure sensor and a flow sensor linked to an electronic system that automatically activates the pump when a faucet's opening lowers the pressure below a specified level and deactivates it when the flow stops or dips under **2 l/min**.

※ **The EASYPRESS** is equipped with:
- Circuit board
- Pressure Gauge
- Integrated micro-accumulation enables operation even without an expansion tank, though the use of a **1SF tank is recommended**.

The integrated electronics protect the pump from:
※ dry running
※ frequent start-ups due to leaks in the system;
※ lockout due to plant inactivity.

APPLICATION LIMITS

※ Liquid temperature up to **+55 °C**
※ Ambient temperature up to **+40 °C**
※ Maximum operating pressure **10 bar**
※ Protection rating: **IP 65**

PATENTS - TRADE MARKS - MODELS

※ Registered Community Model No. 868062
※ Patent No. IT 1388969, IT 1388970
※ EASYPRESS® registered trademark No. 0001334481

ACCESSORIES

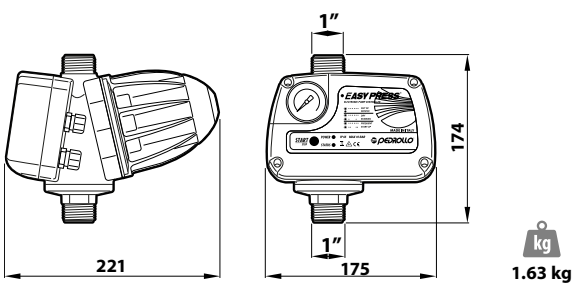
※ **GSR** Special three-piece coupling with o-ring seal (**1"**)


GSR

AVAILABLE UPON REQUEST

※ **EASYPRESS** version with **0.8 bar** restart pressure 🟡
※ **EASYPRESS** version with restart pressure **2.2 bar** 🔴
※ Version with power cable with Schuko plug and motor pump connection cable

DIMENSIONS AND WEIGHT



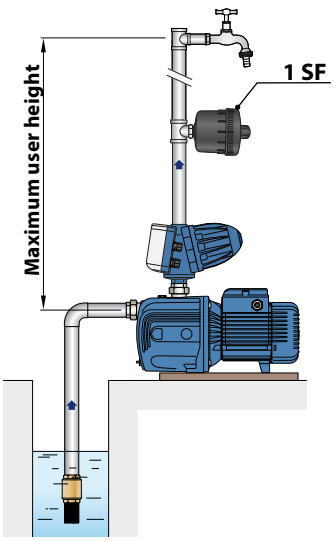
Maximum user height


Version **2.2 bar** 🔴 = **18 m**

Version **1.5 bar** 🔵 = **11 m**

Version **0.8 bar** 🟡 = **5 m**

Typical installation



PRESFLO VARIO Automatic control device

Clean water Domestic use



TECHNICAL DATA

TYPE Single-phase	P2 kW	P2 HP	Power supply Volt	Power supply Hz	Continuous duty current
PRESFLO VARIO	1.5	2	230	50/60	13 A



PRESFLO VARIO features 2 LED indicators to show the system's operating status and alerting to any issues through blinking patterns. A guide on the user interface helps to identify specific problems indicated by the LEDs.

INSTALLATION AND USE

PRESFLO VARIO is an electronic device designed to control and protect single-phase domestic pumps with a power capacity of up to 2 HP. It is ideal for water supply and pressure boosting in residential settings, as well as for small-scale irrigation applications.

PRODUCT DESCRIPTION

※ **PRESFLO VARIO** features a pressure sensor and a flow sensor linked to an electronic system that automatically activates the pump when a faucet's opening lowers the pressure below a specified level and deactivates it when the flow stops or dips under **2 l/min**.

※ **Adjustable restart pressure ranging from 0.8 bar to 2.4 bar.**

※ **PRESFLO VARIO** is also equipped with**:**
- Pressure Gauge
- Integrated micro-accumulation enables operation even without an expansion tank, though the use of a **1SF tank is recommended**;

The integrated electronics protect the pump from:
※ dry running
※ frequent start-ups due to leaks in the system.

PERFORMANCE RANGE

※ Maximum volume capacity: **170 l/min** (10 m³/h)
※ Restart pressure: **adjustable** (factory setting **1.5 bar**)

APPLICATION LIMITS

※ Liquid temperature up to **+40 °C**
※ Ambient temperature up to **+40 °C**
※ Maximum operating pressure **10 bar**
※ Protection rating: **IP 65**

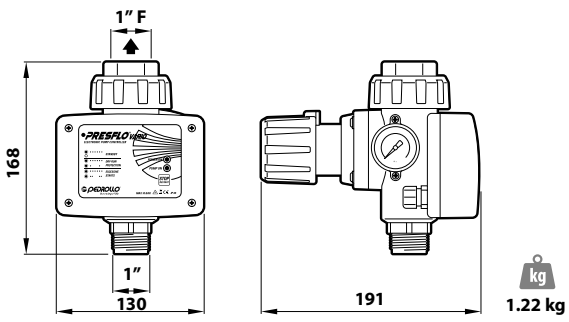
PERFORMANCE AND SAFETY STANDARDS

The electronic circuit board inside the **PRESFLO VARIO** has passed the most rigorous **EMC tests** for electromagnetic compatibility.

AVAILABLE UPON REQUEST

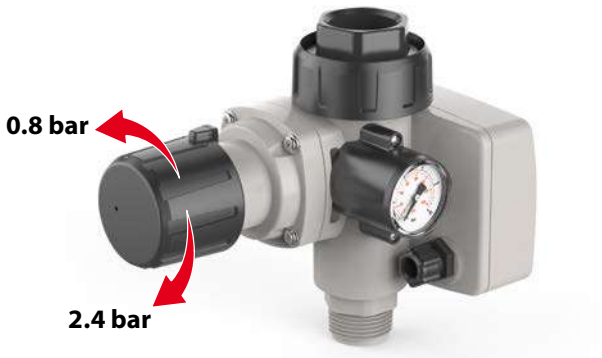
※ Version with power cable with Schuko plug and pump connection cable

DIMENSIONS AND WEIGHT



ADJUSTMENT

PRESFLO VARIO has a knob for quick and intuitive adjustment of the restart pressure from a minimum **of 0.8 bar** to a maximum of **2.4 bar**



PRESFLO MULTI Automatic control device

Clean water Domestic use



TECHNICAL DATA

TYPE	P2		Power supply		Continuous duty current
Single-phase	kW	HP	Volt	Hz	
PRESFLO MULTI	1.5	2	230	50/60	13 A



PRESFLO MULTI features 2 LED indicators to show the system's operating status and alerting to any issues through blinking patterns. A guide on the user interface helps to identify specific problems indicated by the LEDs.

INSTALLATION AND USE

PRESFLO MULTI is an electronic device designed to control and protect single-phase domestic pumps with a power capacity of up to 2 HP. It is ideal for water supply and pressure boosting in residential settings, as well as for small-scale irrigation applications.

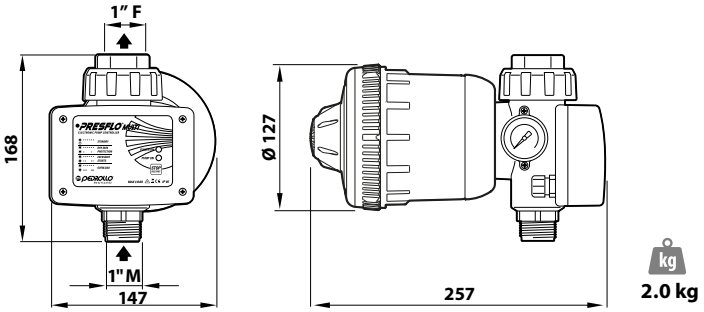
PRODUCT DESCRIPTION

※ **PRESFLO MULTI** features a pressure sensor and a flow sensor linked to an electronic system that automatically activates the pump when a faucet's opening lowers the pressure below a specified level and deactivates it when the flow stops or dips under **2 l/min**.

※ **PRESFLO MULTI** is also equipped with:
- Pressure Gauge
- integrated **1-litre** expansion tank useful in case of leaks and to protect against water hammer;
- option to adjust the restart pressure from **1 bar** to **5 bar**;
- capability to set the maximum current up to **16 A**

The integrated electronics protect the pump from:
※ dry running
※ frequent start-ups due to leaks in the system;
※ Overcurrent

DIMENSIONS AND WEIGHT



PERFORMANCE RANGE

※ Maximum volume capacity: **170 l/min** (10 m³/h)
※ Adjustable restart pressure (factory setting **2 bar**)
※ maximum current: **adjustable** up to **16 A**.

APPLICATION LIMITS

※ Liquid temperature up to **+40 °C**
※ Ambient temperature up to **+40 °C**
※ Maximum operating pressure **8 bar**
※ Protection rating: **IP 65**

PERFORMANCE AND SAFETY STANDARDS

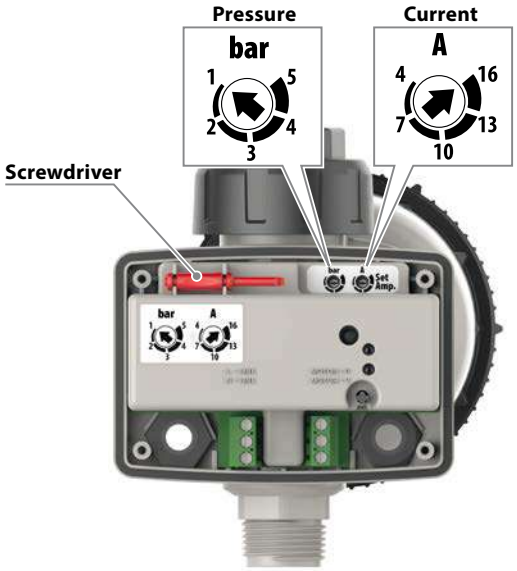
The electronic circuit board inside the **PRESFLO MULTI** has passed the most rigorous **EMC tests** for electromagnetic compatibility.

AVAILABLE UPON REQUEST

※ Version with power cable with Schuko plug and pump connection cable

ADJUSTMENT

PRESFLO MULTI is equipped with two trimmers and a screwdriver for simple and intuitive adjustment of:
- restart pressure from **1 bar** to **5 bar**
- amperometric protection from **4** to **16 A**



PRESET Electronic pressure switch:

Clean water Domestic use



INSTALLATION AND USE

PRESET is an electronic device ideal for the control and protection of single-phase domestic pumps with power up to 2 HP, in connection with autoclaves for water supply and pressure boosting in domestic applications and for residential irrigation systems.

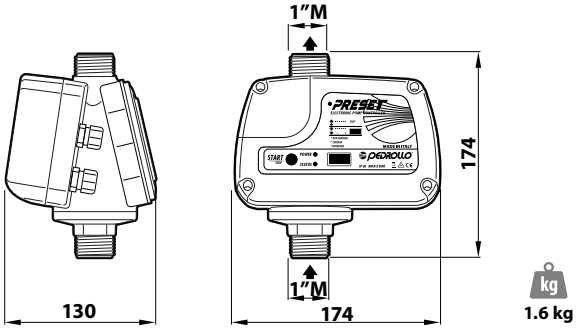
PRODUCT DESCRIPTION

※ **PRESET** activates the pump when opening a faucet reduces system pressure below the operational threshold and turns it off once pressure surpasses the shut-off limit, serving as a modern alternative to conventional mechanical pressure switches.

※ **PRESET** is equipped with:
- **pressure sensor enabling accurate digital control of start and stop pressures from 0.8 to 9 bar;**
- display for reading the operating parameters;
- integrated and inspectable non-return valve.

The integrated electronics protect the pump from:
※ dry running
※ frequent start-ups due to leaks in the system;
※ Overcurrent

DIMENSIONS AND WEIGHT



TECHNICAL DATA

TYPE	P2		Power supply		Continuous duty current
Single-phase	kW	HP	Volt	Hz	
PRESET	1.5	2	230	50/60	13 A

PERFORMANCE RANGE

※ Running pressure: adjustable from **0.8** to **9 bar** (factory setting at **2 bar**)
※ Cut-off pressure: adjustable from **1** to **9.2 bar**(factory setting **3 bar**)
※ Maximum current: adjustable (factory setting **16 A)**

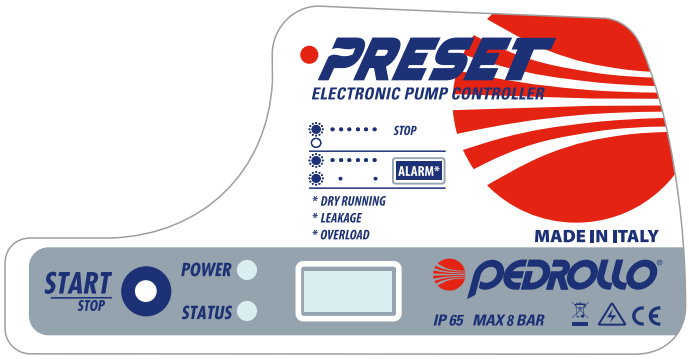
APPLICATION LIMITS

※ Liquid temperature up to **+40 °C**
※ Ambient temperature up to **+40 °C**
※ Maximum working pressure: **10 bar**
※ Protection rating: **IP 65**

PERFORMANCE AND SAFETY STANDARDS

The circuit board inside the **PRESET** has passed the most stringent **EMC tests** for electromagnetic compatibility.

ADJUSTMENT



Pressing the START button begins a step-by-step guide to configure PRESET, which involves setting specific parameters:

※ operating pressure (M)
※ shut-off pressure (A)
※ maximum allowed current (C)
※ operating time at no flow (TD)
※ restart time after shutdown (TP)



PRODUCT DESCRIPTION

EP is an electronic device designed to safeguard the pump by automatically shutting it off in case of:

※ Dry running
※ Overcurrent
※ Overvoltage
※ Undervoltage

TECHNICAL DATA

Single-phase supply voltage	**110/230 V ±10**
Frequency	**50-60 Hz**
Maximum pump current	**16 A**
Maximum pump power	**2 HP**
Operating temperature	From **-5** to **45 °C**
Maximum ambient temperature	**55 °C**
Protection rating	**IP 55**

INSTALLATION

Fig. 1

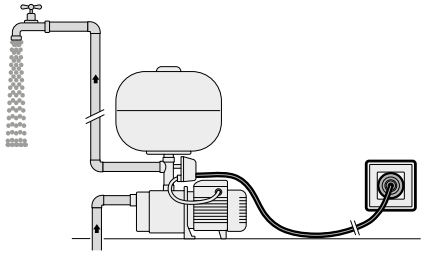


Fig. 2

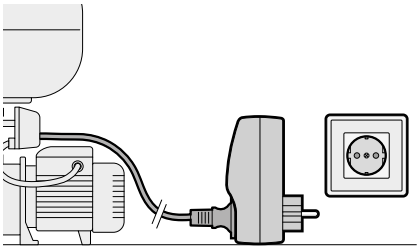
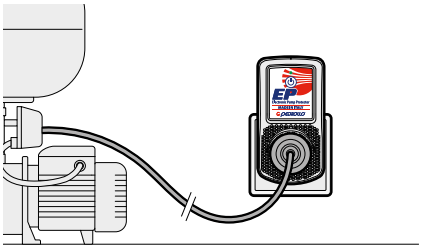


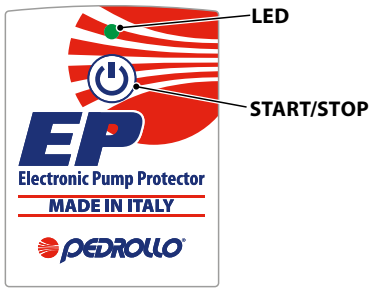
Fig. 3



VIDEO TUTORIAL

USER INTERFACE

- Key ⏻ with **START/STOP** function, self-learning and alarm reset.
- Multicoloured LED indicator. It flashes and changes colour depending on the status of the EP device.



LED light description	Meaning of the LED light
Indicator light OFF:	Device off
Steady GREEN light	Powered Device
Steady BLUE light	Device in regular operation
Flashing RED light	Dry running
Red light fixed	Overcurrent
Steady YELLOW light	Overvoltage/undervoltage
Continuously variable colour indicator	Self-learning phase (WIZARD)

INSTALLATION AND OPERATION

After verifying the water system is functioning correctly, proceed with the following steps:

※ Operate the pump with the delivery point open **(Fig. 1).**

※ Disconnect the plug of the pump's power cable from the power socket, leaving the supply point open, and drain the system completely **(Fig. 2).**

※ Insert the pump's power cable plug into the EP device **(Fig. 2).**

※ Plug the EP device into the outlet (**Fig. 3**) and start the self-learning procedure (see instruction manual).

After completing the self-learning procedure, the system is ready for use.

STEADYPRES Inverter with water passage

Clean water



INSTALLATION AND USE

STEADYPRES is an inverter-based electronic control device compatible with both surface and submersible pumps, SINGLE-PHASE or THREE-PHASE, up to **1.5 HP (1.1 kW)**. Designed for domestic water supply and irrigation, it seamlessly integrates with any pressurization system, including existing setups, to enhance comfort, extend system lifespan, and achieve significant energy savings.

PRODUCT DESCRIPTION

STEADYPRES is connected to the pump's delivery system and adjusts the motor's rotation speed by modulating the output voltage's value and frequency. This adaptation is based on the required water flow, ensuring constant pressure within the system.

STEADYPRES components:
- electronic frequency converter (inverter);
- integrated pressure and flow sensors;
- user interface with keypad and LED indicators for intuitive parameter reading;
- integrated and inspectable non-return valve;
- rear threaded connection to equip the system with a small expansion tank.

STEADYPRES protects the pump from:
※ Dry running
※ Overcurrent
※ Undervoltage
※ Overheating
※ Short circuit or current leakage

VERSATILE PRODUCT

STEADYPRES can be paired with both single-phase and three-phase pumps, featuring internal switches for configuration settings of

※ **the output frequency at 50 Hz or 60 Hz**
※ **the output supply voltage**
(single-phase or three-phase 230V)



N	Position	Selector switch position	Value
1	Operating FREQUENCY	**ON**	60 Hz
		OFF	50 Hz
2	SINGLE-PHASE or THREE-PHASE output	**ON**	MT (three-phase)
		OFF	MM (single-phase)

KEY FEATURES

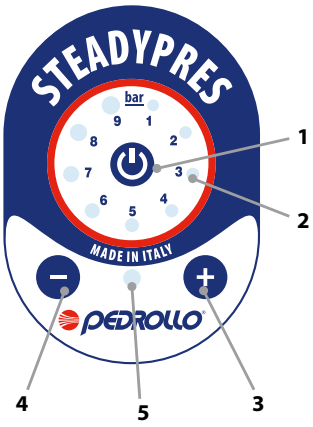
※ Quick and intuitive pressure adjustment via +/- buttons (**1-9 bar**)
※ Energy-saving with reduced pump absorption
※ Reduced noise operation
※ Minimal pressure drops
※ Extended pump lifespan

OPTIONAL

※ **Expansion board** enables parallel connection of up to two devices, forming pumping groups.

TECHNICAL DATA	M/M USE (Single-phase / Single-phase)	M/T USE (Single-phase / Three-phase)
Power supply voltage	1 ~ 230 V	1 ~ 230 V
Pump motor voltage	1 ~ 230 V	3 ~ 230 V
Permissible voltage variation	± 10%	± 10%
Supply frequency	50/60 Hz	50/60 Hz
Maximum electric pump motor current	8.5 A	7.0 A
Maximum electric pump motor power	1.5 HP	1.5 HP
Setting pressure	1÷9 bar	1÷9 bar
Maximum liquid temperature	+40 °C	+40 °C
Room temperature	0 °C ÷ 40 °C	0 °C ÷ 40 °C
Maximum pressure	10 bar	10 bar
Protection rating	IP 65	IP 65

USER INTERFACE



KEY

1) ON/OFF button

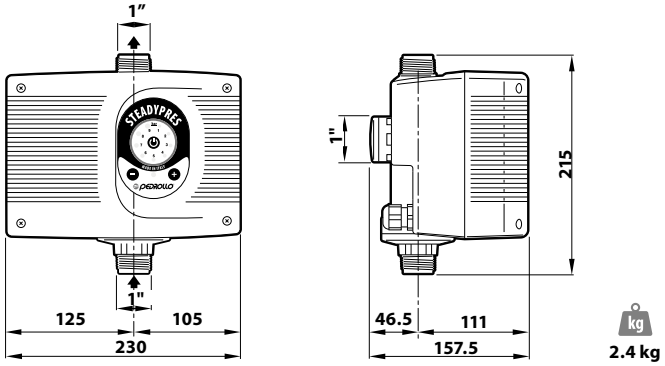
2) Operation and alarm LED indicators

3) Increase pressure button

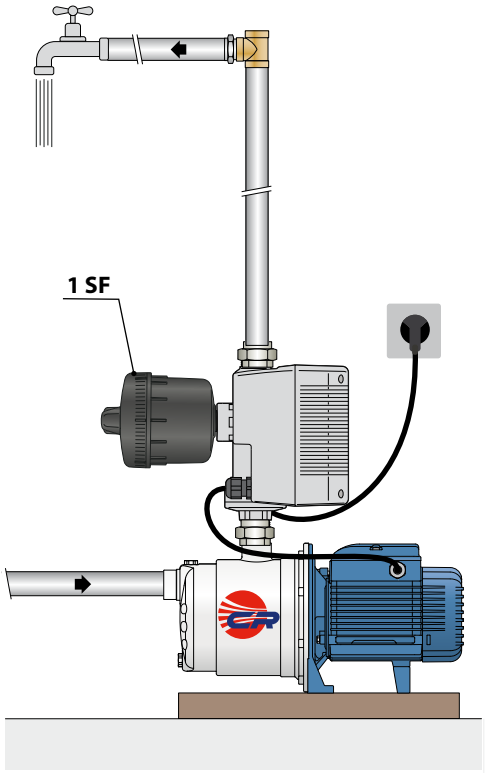
4) Decrease pressure button

5) Operating status LED

DIMENSIONS AND WEIGHT (mm)



TYPICAL INSTALLATION



N.B.: It's advisable to install a membrane EXPANSION TANK (**1SF**) downstream of the inverter to:

※ decrease pump start frequency

※ absorbe excess pressure from the system, like water hammer

STEADYPRES Inverter with water passage

Clean water

Domestic use

Civil use



INSTALLATION AND USE

STEADYPRES is an electronic device that manages and controls both surface and submersible pumps using inverter technology.

STEADYPRESIt is designed for water supply in homes, businesses, and for irrigation purposes. Suitable for all kinds of pressurization systems, including existing ones, STEADYPRES enhances comfort, extends the system's lifespan, and significantly reduces energy consumption.

PRODUCT DESCRIPTION

STEADYPRES is connected to the pump's delivery system and regulates the motor's rotation speed by adjusting the voltage and frequency of the output, in response to water flow demand, ensuring constant pressure within the system.

STEADYPRES components:
- electronic frequency converter (inverter);
- pressure and flow sensor;
- user interface with keypad and display to facilitate setting and reading operations;
- integrated and inspectable non-return valve.

STEADYPRES features include:
※ A display and keypad for easy, step-by-step setup of operating parameters with two levels of adjustment:
  - BASIC, for setting pressure and current;
  - ADVANCED, for customizing the inverter for specific system needs .

※ Internal electronic components are cooled as water flows through the device, helping to dissipate heat.

STEADYPRES protects the pump from:
※ Dry running
※ Overcurrents
※ Overvoltage
※ Undervoltage
※ Overheating
※ Short circuit
※ Phase failure in connections (for TT version)

KEY FEATURES

※ Easy installation, adjustment and setting.
※ Energy saving due to lower absorption of the pump.
※ Control of hydraulic and electrical operating parameters and protection against faults.
※ Reduced noise operation.
※ Longer pump life.

OPTIONAL A RICHIESTA

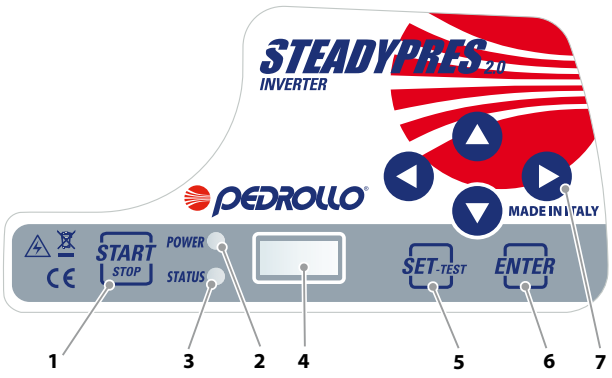
※ **Expansion board**, which allows:
  - RS485 communication to link up to three STEADYPRES inverters and create pumping groups;
  - alternating pump operation;
  - configuration of a dry input contact (e.g. float, double set point);
  - configuration of a dry output contact (e.g. alarm)

TECHNICAL DATA	STEADYPRES MM 11	STEADYPRES MM 16	STEADYPRES MT 10	STEADYPRES TT 6	STEADYPRES TT 8
Power supply voltage	1 ~ 230 V	1 ~ 230 V	1 ~ 230 V	3 ~ 400 V	3 ~ 400 V
Pump motor voltage	1 ~ 230 V	1 ~ 230 V	3 ~ 230 V	3 ~ 400 V	3 ~ 400 V
Permissible voltage variation	± 10%	± 10%	± 10%	± 10%	± 10%
Supply frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Maximum pump motor current	11 A	16 A	10 A	6 A	8 A
Maximum pump motor power	2 HP (1.5 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	4 HP (3 kW)
Setting pressure	1÷10 bar	1÷10 bar	1÷10 bar	1÷10 bar	1÷10 bar
Maximum liquid temperature	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C
Room temperature	0 °C ÷ 40 °C	0 °C ÷ 40 °C	0 °C ÷ 40 °C	0 °C ÷ 40 °C	0 °C ÷ 40 °C
Maximum pressure	10 bar	10 bar	10 bar	10 bar	10 bar
Protection rating	IP 65	IP 65	IP 65	IP 65	IP 65
Weight	3 kg	4 kg	3 kg	4 kg	4 kg

USER INTERFACE

※ The keypad makes it easy to access and navigate through configuration menus, allowing you to adjust and view various operating parameters such as system pressure, operating frequency, absorbed current, and alarm messages.

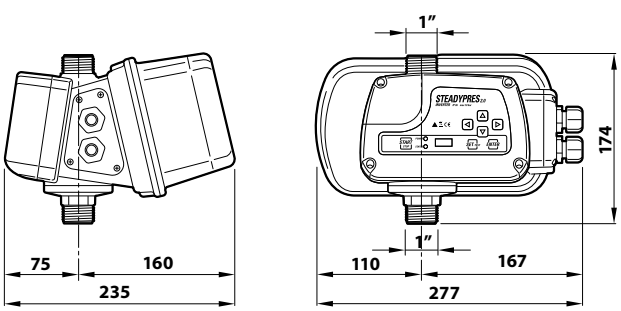
※ LED light signals indicate the pump's operating status for quick checking.



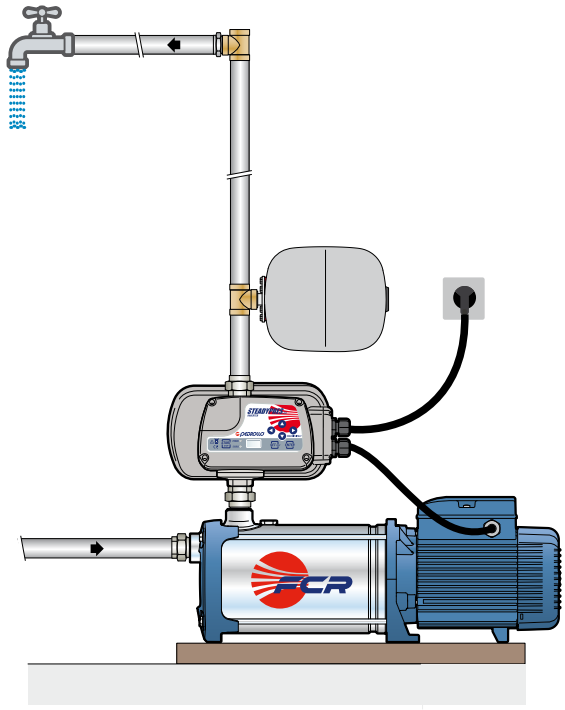
KEY

1) ON/OFF button
2) Red networking LED
3) Green run LED
4) Display
5) SET button
6) ENTER confirmation button
7) Scroll Arrows

DIMENSIONS (mm)



TYPICAL INSTALLATION



N.B.: it's advisable to install a membrane EXPANSION TANK downstream of the inverter to:

※ decrease pump start frequency
※ absorb excess pressure from the system, like water hammer

DG FIT Wall-mounted inverter

Domestic use

Civil use



INSTALLATION AND USE

DG FIT is an inverter-based electronic control device designed for single-phase surface or submersible pumps.

It is utilized for water supply in residential, commercial, and irrigation applications, and is compatible with all types of pressurization systems, including existing ones.

DG FIT ensures maximum comfort, extends the system's service life, and facilitates significant energy savings.

DG FIT protects the pump from:

※ Dry running
※ Overcurrent
※ Overvoltage
※ Undervoltage
※ Overheating
※ Short circuit

PRODUCT DESCRIPTION

DG FIT is a wall-mounted frequency converter which, equipped with a pressure sensor, allows the rotation speed of the motor to adjust dynamically according to the amount of water required, thus ensuring constant pressure in the system.

DG FIT is characterised by:

※ A display and keypad for easy, step-by-step setup of operating parameters with two levels of adjustment:
  – **BASIC**, for setting pressure and current;
  – **ADVANCED**, for customizing the inverter for specific system needs.
※ Electronic components are cooled by an integrated fan to ensure heat dissipation.
※ Integrated expansion board, which allows:
  – RS 485 communication for up to three **DG FIT** to talk to each other
  – configuration of a dry input contact (e.g. float, double set point)
  – configuration of a dry output contact (e.g. alarm)
※ Input signal: pressure sensor
※ Arrangement for wall connection

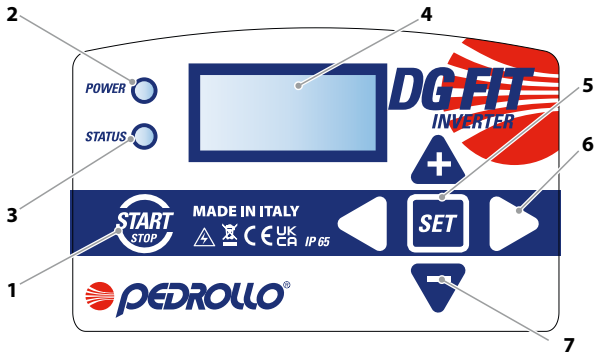
ADVANTAGES IN USE

※ Easy installation, adjustment and setting.
※ Energy saving due to lower absorption of the pump.
※ Control of hydraulic and electrical operating parameters and protection against faults.
※ Reduced noise operation.
※ Longer pump life.
※ Possibility to connect up to three devices to create pressurization units

TECHNICAL DATA	DG FIT MM 8	DG FIT MM 11	DG FIT MM 16
Power supply voltage	1 ~ 230 V	1 ~ 230 V	1 ~ 230 V
Pump motor voltage	1 ~ 230 V	1 ~ 230 V	1 ~ 230 V
Permissible voltage variation	± 10%	± 10%	± 10%
Supply frequency	50/60Hz	50/60Hz	50/60Hz
Maximum pump motor current	8.5 A	11 A	16 A
Maximum pump motor power	1.5 HP (1.1 kW)	2 HP (1.5 kW)	3 HP (2.2 kW)
Room temperature	0 °C ÷ 40 °C	0 °C ÷ 40 °C	0 °C ÷ 40 °C
Protection rating	IP 54	IP 54	IP 54
RS-485 communication	standard	standard	standard
Dry input contact	standard	standard	standard
Dry contact output	standard	standard	standard

USER INTERFACE

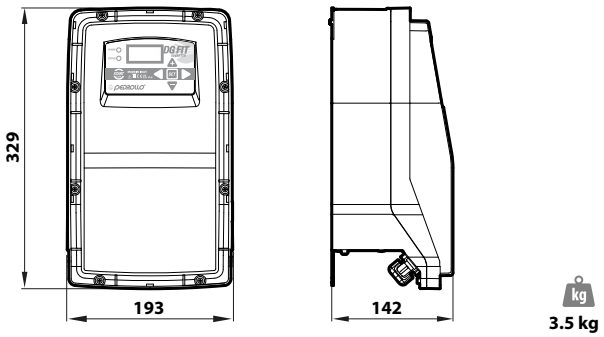
The keypad simplifies the process of accessing and navigating configuration menus, enabling the adjustment, and monitoring of various operational parameters, including system pressure, operating frequency, absorbed current, and alarm messages. LED indicators provide quick insights into the pump's operational status at a glance.



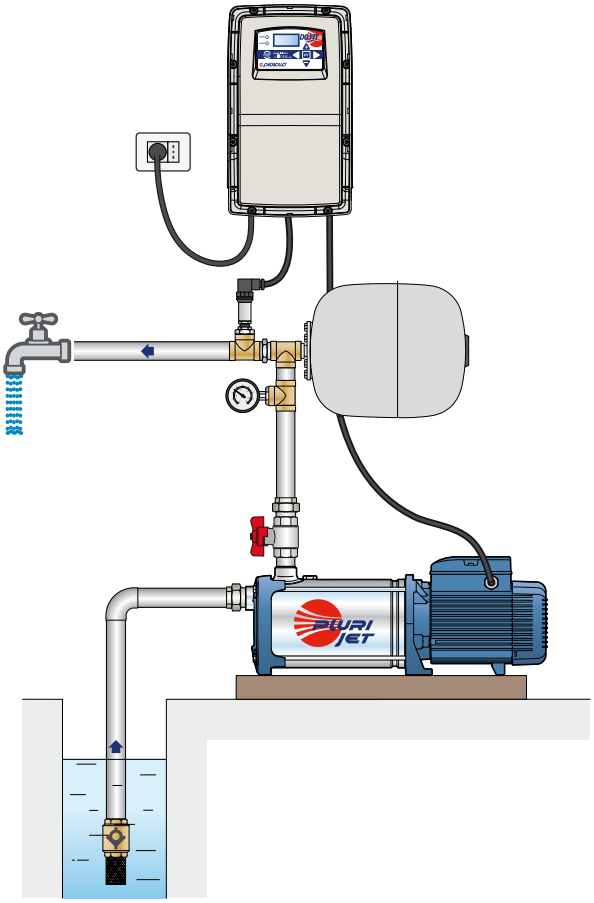
KEY

1) Power on/off key
2) Red networking LED
3) Green run LED
4) Display
5) SET button
6) Menu/parameter input/output arrows
7) Menu/parameter scrolling arrows

DIMENSIONS (mm)



TYPICAL INSTALLATION



N.B.: it's neceadvisable to install a membrane EXPANSION TANK downstream of the inverter to:

※ decrease pump start frequency
※ absorb excess pressure from the system, like water hammer

PRO-DG Wall-mounted inverter



INSTALLATION AND USE

PRO-DG is an inverter-based electronic control device compatible with both surface and submersible pumps, with motor powers of up to 15 HP. It is specifically engineered for professional applications in water supply, distribution, and transportation across commercial, industrial, and agricultural sectors.
Additionally, **PRO-DG** seamlessly integrates with all types of pressurization systems, including existing setups, ensuring enhanced comfort, prolonged system lifespan, and significant energy savings.

PRO-DG protects the pump from:
※ Dry running
※ Overcurrent
※ Overheating
※ Lack of phases in connections (for TT versions)
※ Motor faults

PRODUCT DESCRIPTION

PRO-DG is a frequency inverter to be installed on the wall using the **WALL MOUNT SUPPORT** installation kit , which includes a ventilation system to induce forced cooling of the electronic components.
Connected to an appropriate pressure sensor, **PRO-DG** adjusts the motor rotation speed to be varied according to water demand and maintains a constant pressure in the system for greater comfort and energy savings.

PRO-DG features include:
– RS485 communication facilitates the connection of up to 8 devices and the creation of pumping groups comprising multiple pumps of the same type.
– a display and keypad enable straightforward and intuitive configuration of basic operating parameters through a start-up wizard consisting of a few simple steps.

KEY FEATURES

※ Easy programming and adjustment
※ Constant pressure in the system
※ Energy Conservation
※ Reduced noise operation
※ Compatible with all pumps on the market
※ Communication of up to eight devices
※ Intelligent intervention management in case of anomalies

OPTIONAL A RICHIESTA

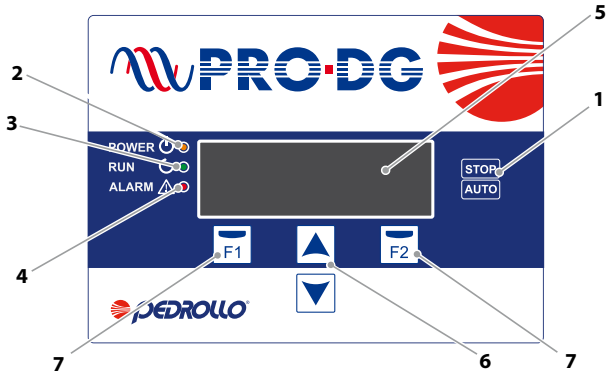
※ An expansion board can be connected to the MT2-11 and TT3-11 models (standard in the TT3-30 model), providing the following capabilities:
– connect to monitoring systems with ModBus connection;
– take a differential pressure reading by connecting a second pressure transducer.

TECHNICAL DATA	PRO-DG MT2-11A	PRO-DG TT3-11A	PRO-DG TT3-30A
Power supply voltage	1 ~ 230 V	3 ~ 400 V	3 ~ 400 V
Pump motor voltage	3 ~ 230 V	3 ~ 400 V	3 ~ 400 V
Permissible voltage variation	± 10%	± 10%	± 10%
Supply frequency	50/60Hz	50/60Hz	50/60Hz
Maximum inverter input current	20 A	12 A	31 A
Maximum electric pump motor current	11 A	11 A	30 A
Maximum electric pump motor power	3 HP	5.5 HP	15 HP
Room temperature	-10 °C ÷ 40 °C	-10 °C ÷ 40 °C	-10 °C ÷ 40 °C
Protection rating	IP 55*	IP 55*	IP 55*
No. of 4-20 mA inputs	1	1	2
No. of configurable digital inputs	2	2	4
RS485 Communication	standard	standard	standard
Motor temperature probe input	optional	optional	standard
0-10 V input	optional	optional	standard
Modbus communication	optional	optional	standard

* IP 54 degree of protection when using the "WALL MOUNT SUPPORT" accessory for wall installation

USER INTERFACE

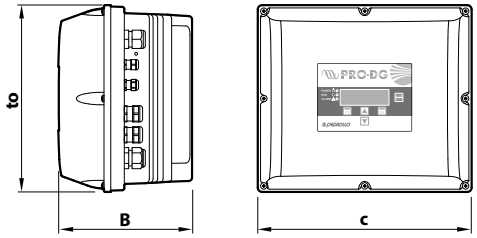
The keypad simplifies the process of accessing and navigating configuration menus, enabling the adjustment, and monitoring of various operational parameters, including system pressure, operating frequency, absorbed current, and alarm messages. LED indicators provide quick insights into the pump's operational status at a glance



KEY

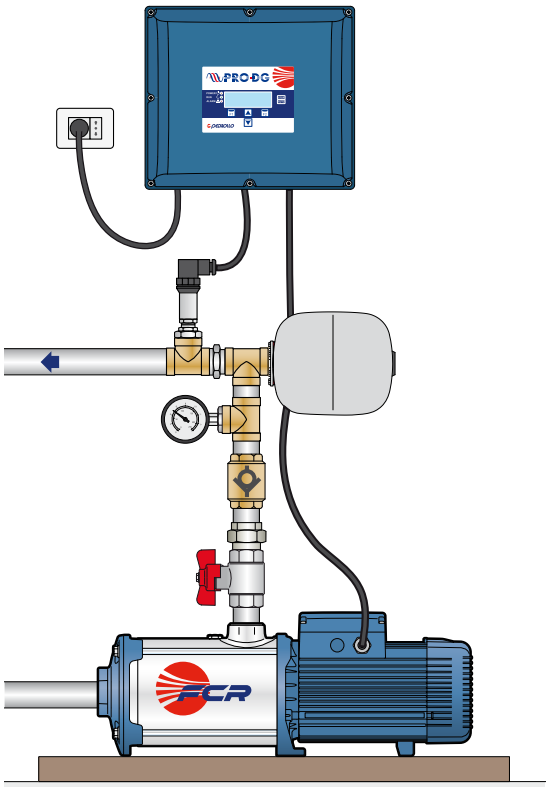
1) Manual switch-off button
2) Networking LED
3) Running LEDs
4) Alarm LED
5) Display
6) Scroll Arrows
7) FUNCTION KEYS.

DIMENSIONS (mm)



TYPE	DIMENSIONS mm			kg
	a	b	c	
PRO-DG MT 2-11A	183	149	230	2.8
PRO-DG TT 3-11A	183	149	230	2.8
PRO-DG TT 3-30A	276	198	316	6.4

TYPICAL INSTALLATION





PRO-DG is designed for wall-mounting exclusively when fitted with the WALL MOUNT SUPPORT, available for separate purchase

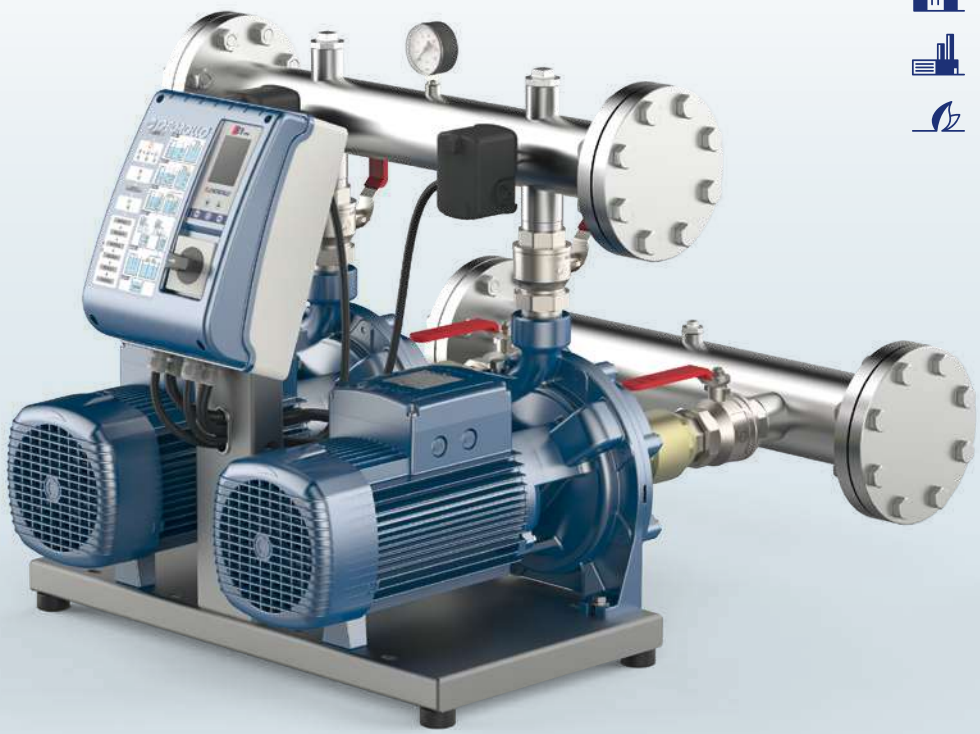
COMBIPRESS "CB2" Fixed speed pressure units

Domestic use

Civil use

Industrial use

Agricultural use



INSTALLATION AND USE

CB2 is a pre-assembled pumping system comprising two pumps, designed for water supply and pressurization in residential, commercial, public buildings, hotels, hospitals, as well as for garden and agricultural irrigation.

CB2 is suitable for pumping clean water or aqueous solutions that do not chemically or mechanically damage the materials used and do not contain abrasive or fibrous substances.

PRODUCT DESCRIPTION

CB2 is a pressurization system featuring two pumps assembled in a unit, ready for connection to the water mains or a primary collection tank.

Controlled by mechanical pressure switches, **CB2** ensures automatic activation of one or both pumps in response to increased user demand, optimizing water supply and minimizing electricity consumption. The system's electronic circuitry facilitates automatic pump switching during start/stop cycles and provides protection against potential faults.

COMPONENTS

※ **Pumps** connected in parallel via suction and discharge manifolds. Each unit is equipped with ball valves on the discharge and suction side, non-return valves on the suction side (with 2CP, 3-5CR, FCR, MK pumps) or on the discharge side (with HT pumps).

※ **BASE** made of metal profile and fitted with adjustable vibration-damping feet.

※ **PRESSURE SWITCHES** mounted on the delivery manifold and connected to the control panel for switching the pumps on and off according to regulation.

※ **ELECTRONIC CONTROL PANEL** (model **E2**) provides protection against dry running by monitoring electrical parameters and allows advanced users to adjust settings to tailor the operation of the pressure unit to specific system requirements.

※ Power supply:
- **CB2m**: single-phase 230 V - 50 Hz
- **CB2**: three-phase 400 V - 50 Hz



CB2 – 2CP

Pressurization units comprising two twin impeller centrifugal pumps, designed to enhance water pressure. Ideal for both residential and commercial water supply applications, they are well-suited for large-scale garden and agricultural irrigation. They also excel at handling clean water in various industrial settings.

TECHNICAL DATA

- Liquid temperature between **+5 °C** and **+55 °C**
- Ambient temperature between **+5 °C** and **+40 °C**
- Max. pressure in the pump body **10 bar** (6 bar for 2CP25/130)
- Continuous running duty **S1**



CB2 – 3-5CR

Pressurization units comprising two multistage centrifugal pumps. They are well-suited for domestic water supply, garden irrigation, and general clean water handling.

TECHNICAL DATA

- Liquid temperature between **+5 °C** and **+55 °C**
- Ambient temperature between **+5 °C** and **+40 °C**
- Max. pressure in the pump body **7 bar**
- Continuous running duty **S1**



CB2 – FCR

Pressurization units comprising two horizontal multistage centrifugal pumps.

Especially well-suited for residential and commercial water supply, industrial pressure boosting, and garden and field irrigation.

TECHNICAL DATA

- Liquid temperature between **+5 °C** and **+55 °C**
- Ambient temperature between **+5 °C** and **+40 °C**
- Max. pressure in pump body **11 bar** (for FCR 80-100 7 bar)
- Continuous running duty **S1**



CB2 – MK

Pressurization units comprising two vertical multistage centrifugal pumps.

They are suitable for residential and commercial water supply, garden irrigation and general clean water handling.

TECHNICAL DATA

- Liquid temperature between **+5 °C** and **+55 °C**
- Ambient temperature between **+5 °C** and **+40 °C**
- Max. pressure in pump body **11 bar**
- Continuous running duty **S1**



CB2 – HT

Pressurization units comprising two vertical multistage centrifugal pumps.

They are well-suited for residential and commercial water supply, irrigation, and general clean water handling, including industrial applications

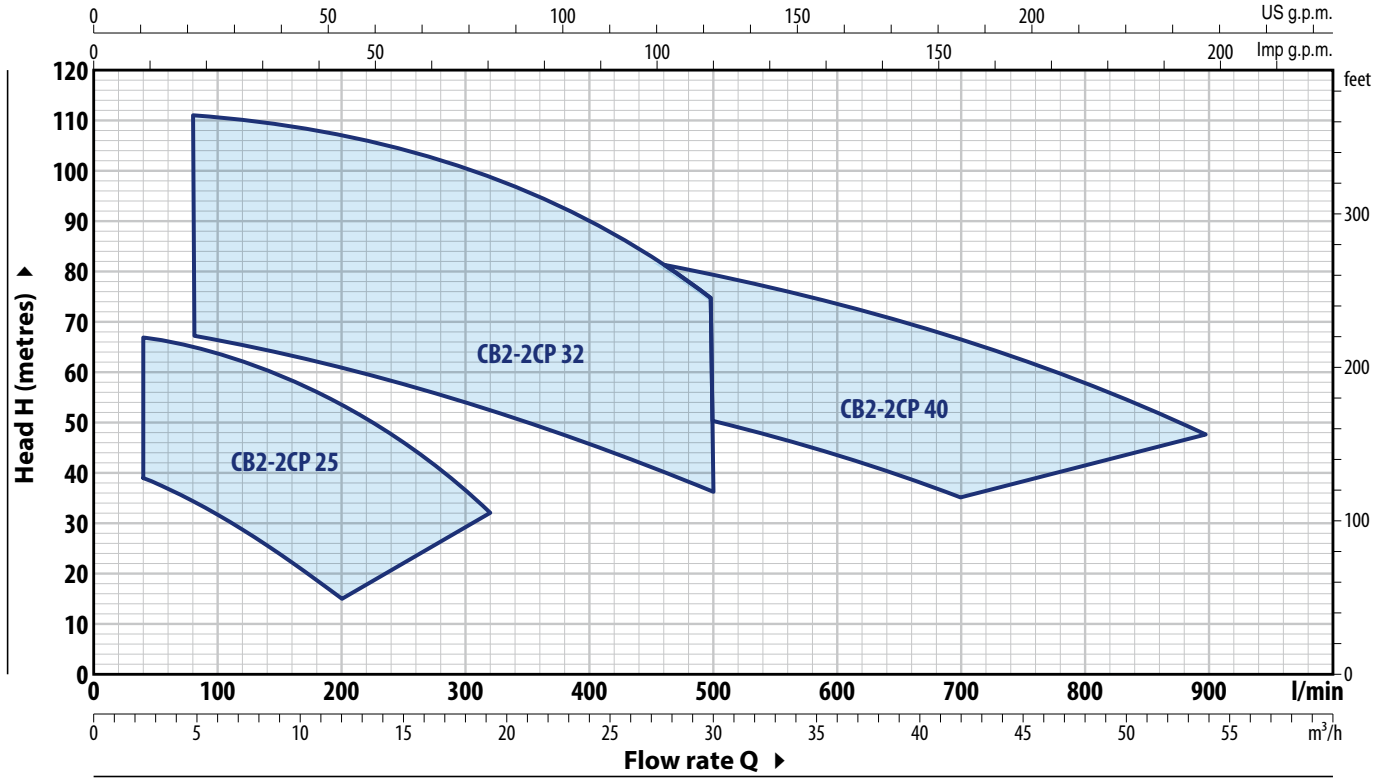
TECHNICAL DATA

- Liquid temperature between **+5 °C** and **+55 °C**
- Ambient temperature between **+5 °C** and **+40 °C**
- Max. pressure in the pump body **16 bar**
- Continuous running duty **S1**

CB2 – 2CP

FIELD AND PERFORMANCE DATA

50 Hz



TYPE		POWER P2		Q												
				m³/h	0	2.4	4.8	7.2	9.6	10.8	12.0	13.2	14.4	16.8	19.2
Single-phase	Three-phase	kW	HP	l/min	**0**	**40**	**80**	**120**	**160**	**180**	**200**	**220**	**240**	**280**	**320**
CB2 - 2CPm 25/130	–	2x0.75	2x1		42	39	34.5	28.5	22	18	15				
CB2 - 2CPm 25/14B	**CB2 - 2CP 25/14B**	2x1.1	2x1.5		54	52	47.5	41	32.5	27.5	22				
CB2 - 2CPm 25/16C	**CB2 - 2CP 25/16C**	2x1.1	2x1.5	**H** metres	47	46	44	40.5	36	33.5	30.5	27.5	24		
CB2 - 2CPm 25/16B	**CB2 - 2CP 25/16B**	2x1.5	2x2		58	56	54	51	47.5	45.5	43	40	37	30	
–	**CB2 - 2CP 25/16A**	2x2.2	2x3		68	67	65	62	58.5	56	54	51	48	40.5	32

TYPE		POWER P2		Q												
				m³/h	0	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6	24.0	30.0
Single-phase	Three-phase	kW	HP	l/min	**0**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**	**400**	**500**
–	**CB2 - 2CP 32/200C**	2x3	2x4		70	67	65	63	60.5	58	55	52	48.5	45.5	36
–	**CB2 - 2CP 32/200B**	2x4	2x5.5		85	81	79	77	74.5	71.5	69	66	62.5	59	49
–	**CB2 - 2CP 32/210B**	2x5.5	2x7.5	**H** metres	94	94	93	91	89	86	83	79	75	70	56
–	**CB2 - 2CP 32/210A**	2x7.5	2x10		112	111	110	109	107	105	102	99	95	90	74

TYPE		POWER P2		Q									
				m³/h	0	12	18	24	30	36	42	48	54
Single-phase	Three-phase	kW	HP	l/min	**0**	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**900**
–	**CB2 - 2CP 40/180C**	2x4	2x5.5		65	63	60	55.5	50	43	35		
–	**CB2 - 2CP 40/180B**	2x5.5	2x7.5	**H** metres	80	78	75	71	65.5	59	51	42	
–	**CB2 - 2CP 40/180A**	2x7.5	2x10		92	90	87.5	84	79	73.5	66	58	48

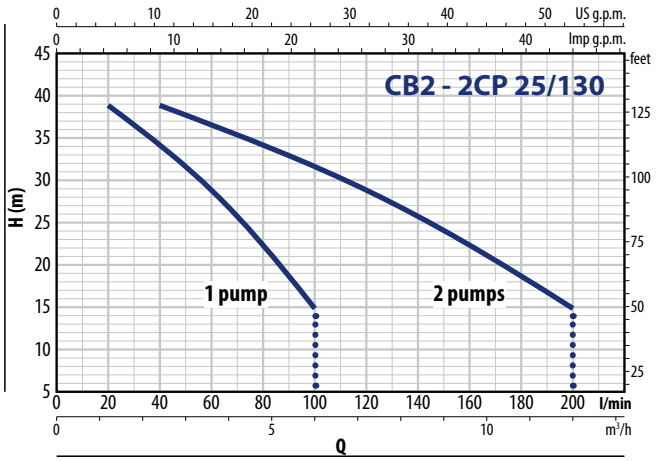
Q = Flow rate **H** = Total manometric head

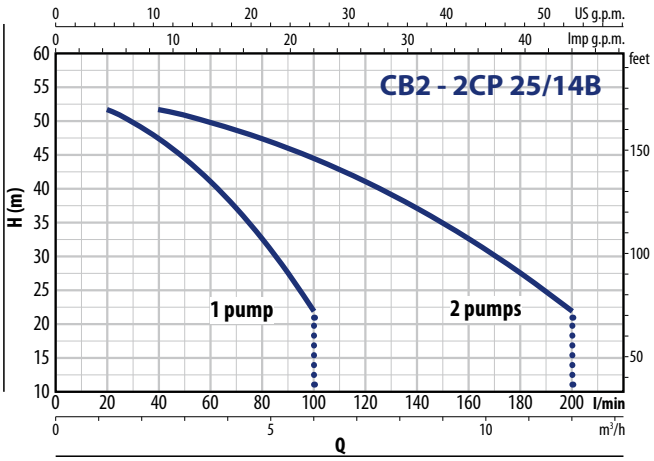
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

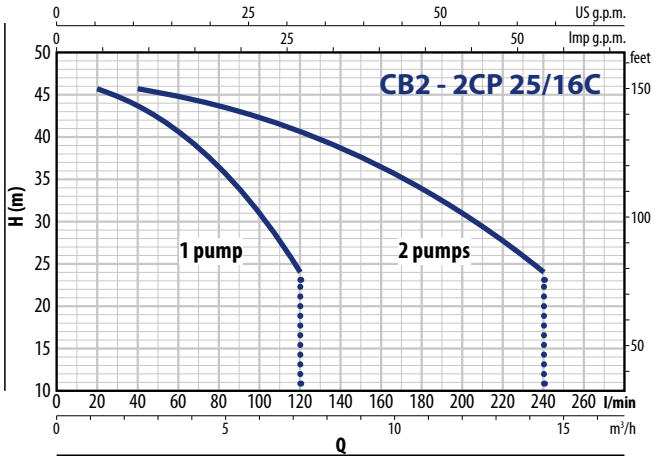
※ The data shown in the diagram and tables indicate performance with 2 pumps in operation

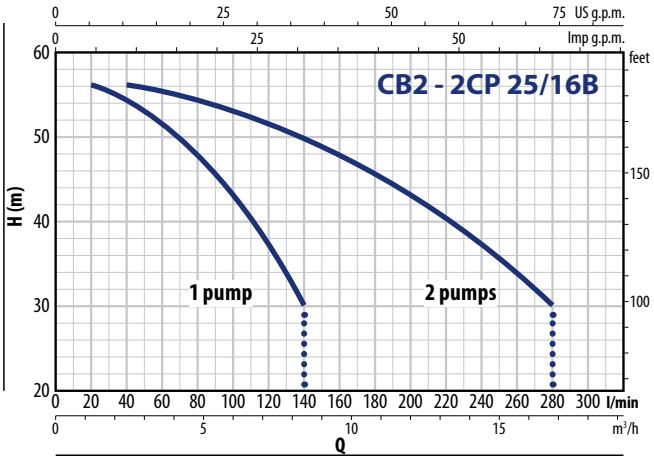
PERFORMANCE CURVES

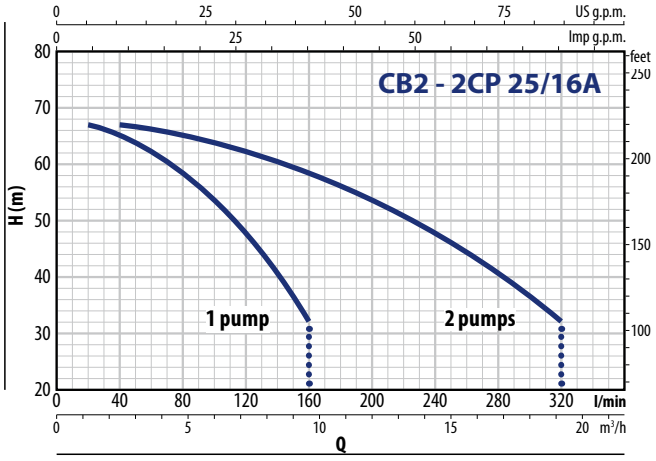
50 Hz

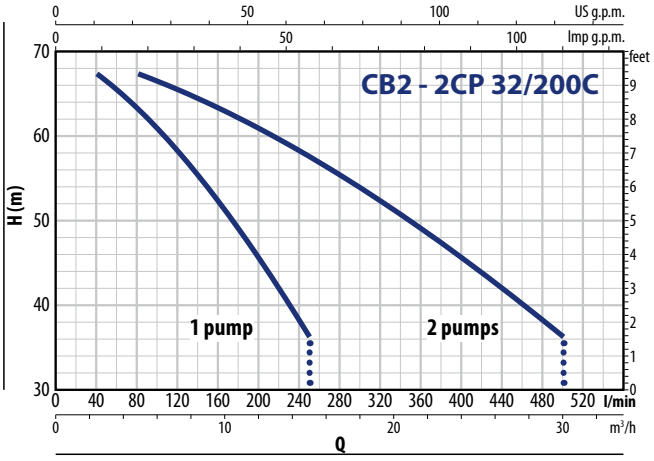


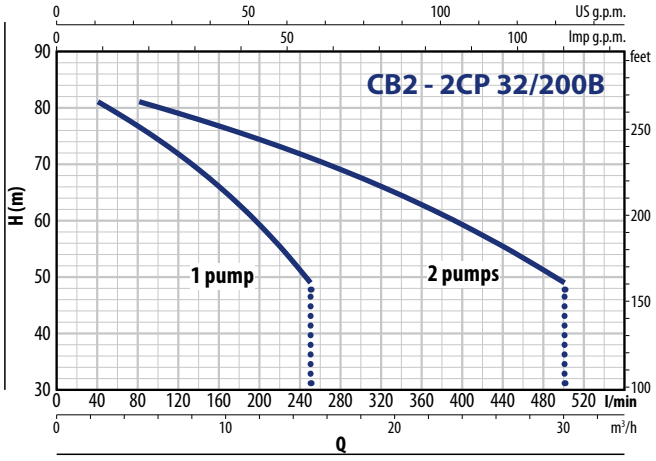


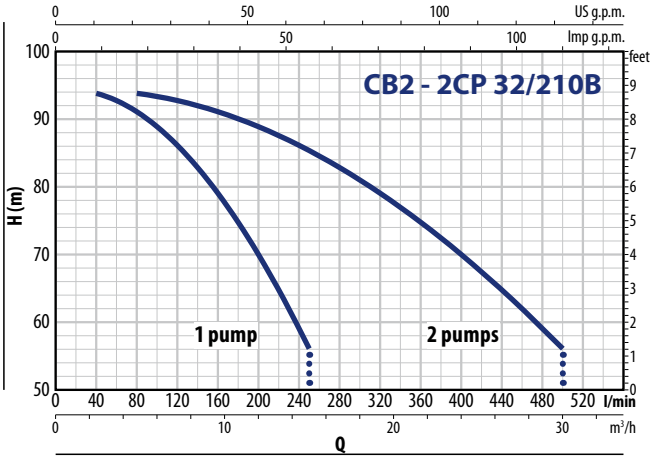








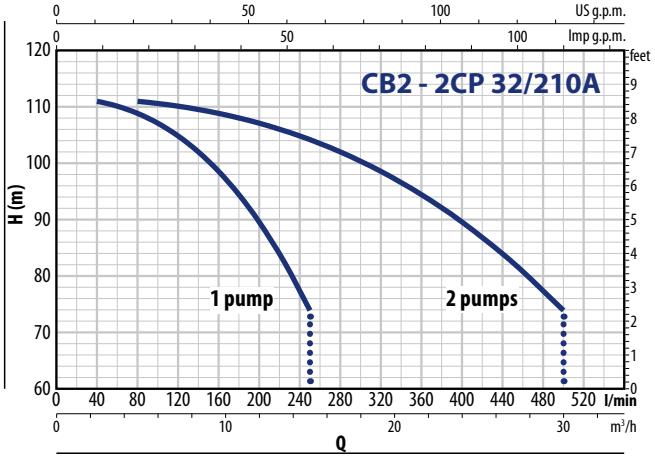


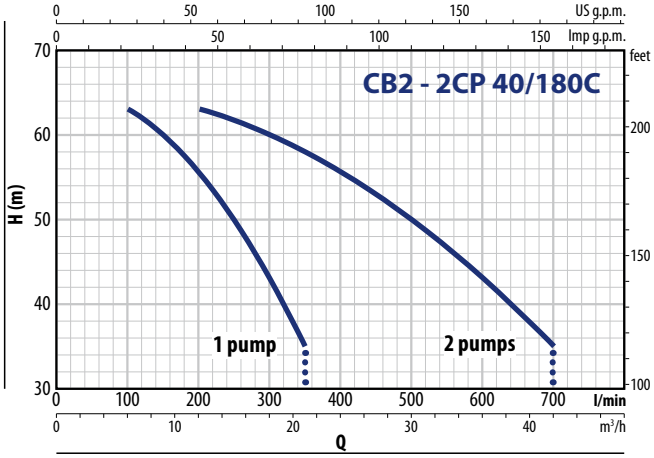


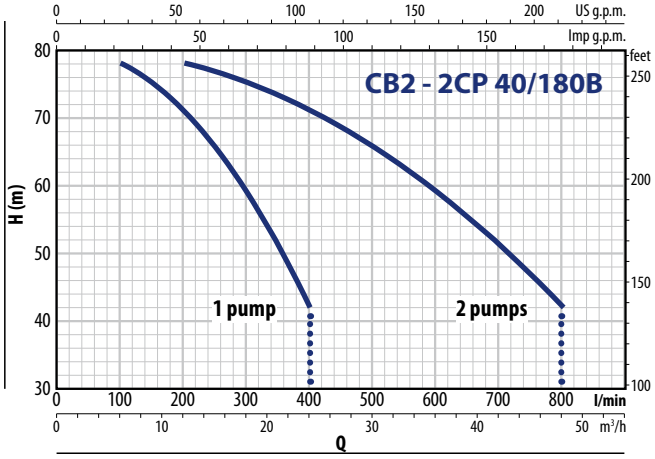
CB2 – 2CP

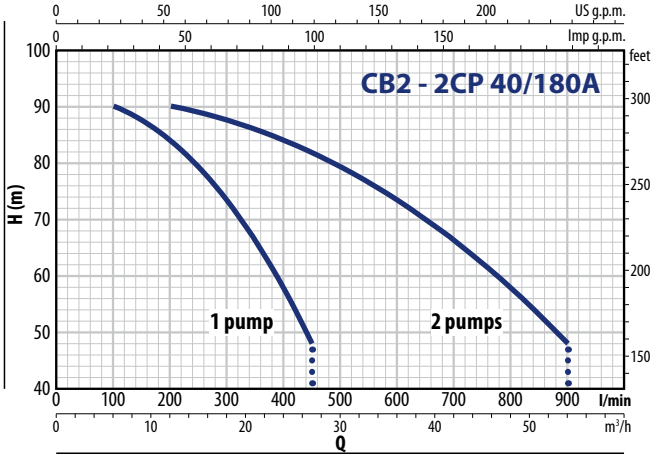
PERFORMANCE CURVES

50 Hz







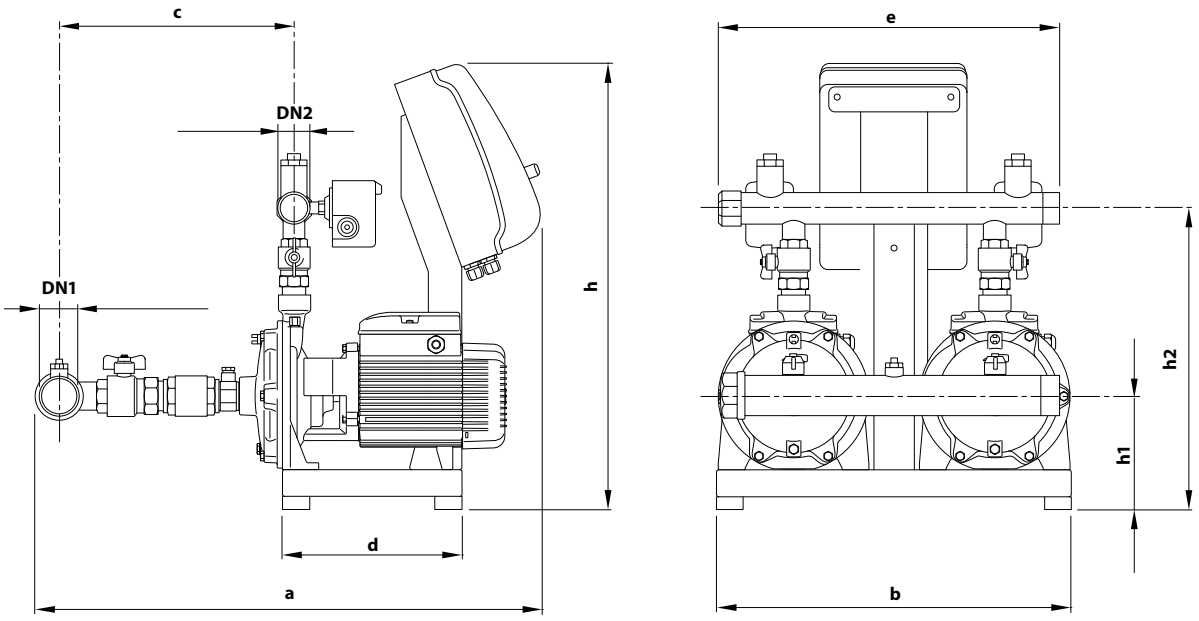


ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
CB2 - 2CPm 25/130	2 x 6.3 A
CB2 - 2CPm 25/14B	2 x 7.7 A
CB2 - 2CPm 25/16C	2 x 7.7 A
CB2 - 2CPm 25/16B	2 x 10.0 A

TYPE **Three-phase**	VOLTAGE **400 V**
CB2 - 2CP 25/14B	2 x 3.1 A
CB2 - 2CP 25/16C	2 x 3.1 A
CB2 - 2CP 25/16B	2 x 4.0 A
CB2 - 2CP 25/16A	2 x 5.3 A
CB2 - 2CP 32/200C	2 x 7.4 A
CB2 - 2CP 32/200B	2 x 10.5 A
CB2 - 2CP 32/210B	2 x 12.5 A
CB2 - 2CP 32/210A	2 x 16.0 A
CB2 - 2CP 40/180C	2 x 9.8 A
CB2 - 2CP 40/180B	2 x 12.3 A
CB2 - 2CP 40/180A	2 x 15.4 A

DIMENSIONS AND WEIGHT

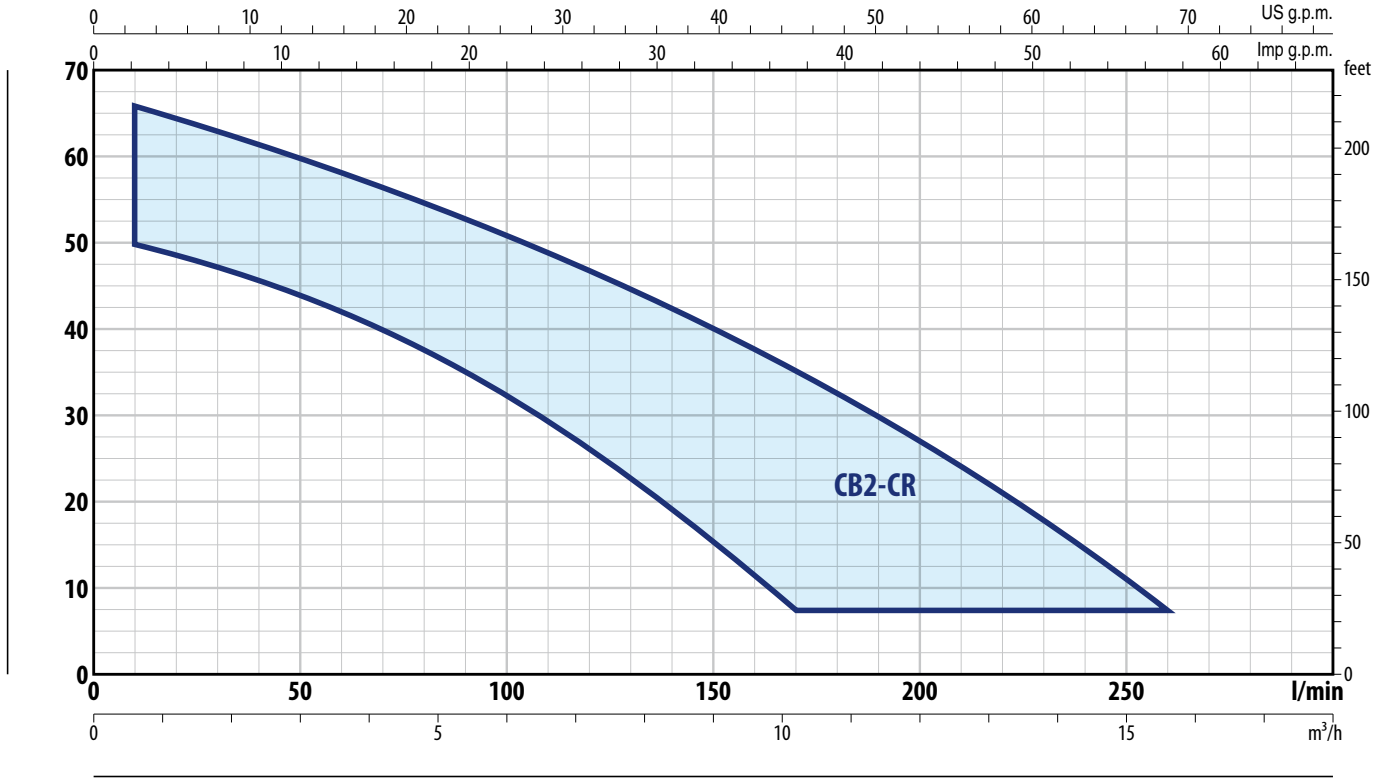


TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
CB2 - 2CPm 25/130	–	**2"**	**1½"**	727	530	337	270	510	674	152	390	60.0	–
CB2 - 2CPm 25/14B	**CB2 - 2CP 25/14B**			752		346				153	413	72.0	73.0
CB2 - 2CPm 25/16C	**CB2 - 2CP 25/16C**											73.0	73.0
CB2 - 2CPm 25/16B	**CB2 - 2CP 25/16B**			761						170	451	80.0	80.0
–	**CB2 - 2CP 25/16A**											–	86.0
–	**CB2 - 2CP 32/200C**	**3"**	**2"**	972	700	453	370	712		192	516	–	129.0
–	**CB2 - 2CP 32/200B**											–	135.0
–	**CB2 - 2CP 32/210B**			977		456				199	546	–	161.0
–	**CB2 - 2CP 32/210A**											–	171.0
–	**CB2 - 2CP 40/180C**	**DN 100 4"**	**DN 80 3"**	1048		468		774	716		590	–	190.0
–	**CB2 - 2CP 40/180B**											–	199.0
–	**CB2 - 2CP 40/180A**											–	211.0

CB2 – 4-5CR

FIELD AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q														
Single-phase	**Three-phase**	**kW**	**HP**	m³/h	0	0.6	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6
				l/min	**0**	**10**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**	**220**	**240**	**260**
CB2 - 5CRm 80	**CB2 - 5CR 80**	2x0.75	2x1		67	66	64	59	53	45.5	37.5	29.5	20.5	12					
CB2 - 4CRm 100	**CB2 - 4CR 100**	2x0.75	2x1	**H** metres	50	50	49	47	45	42	39.5	37	34	30.5	26.5	22	17	11	5
CB2 - 5CRm 100	**CB2 - 5CR 100**	2x0.90	2x1.25		63	62	61.5	59.5	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8

Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

※ The data shown in the diagram and tables indicate performance with 2 pumps in operation

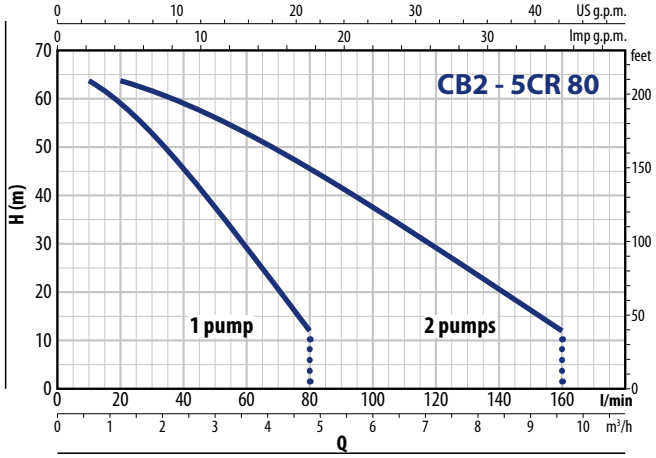
ABSORPTION

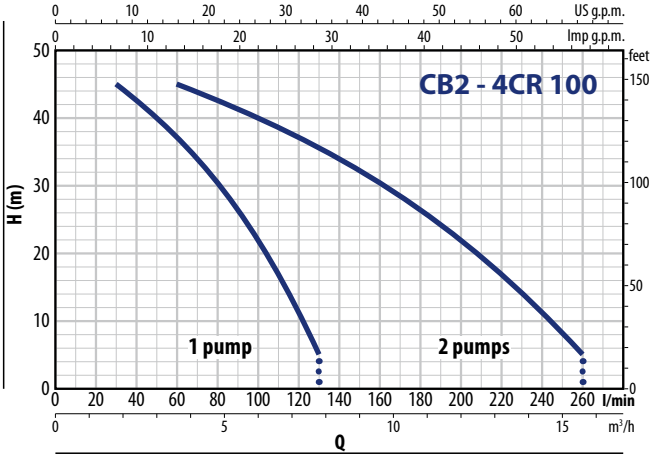
TYPE **Single-phase**	VOLTAGE **230 V**
CB2 - 5CRm 80	2 x 5.5 A
CB2 - 4CRm 100	2 x 5.8 A
CB2 - 5CRm 100	2 x 6.8 A

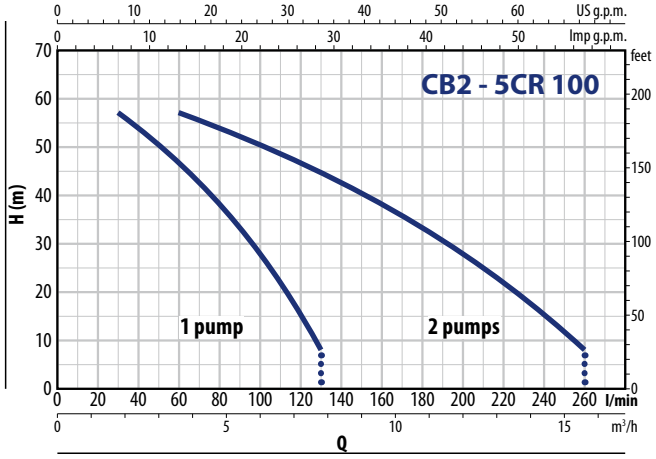
TYPE **Three-phase**	VOLTAGE **400 V**
CB2 - 5CR 80	2 x 2.5 A
CB2 - 4CR 100	2 x 2.3 A
CB2 - 5CR 100	2 x 2.5 A

PERFORMANCE CURVES

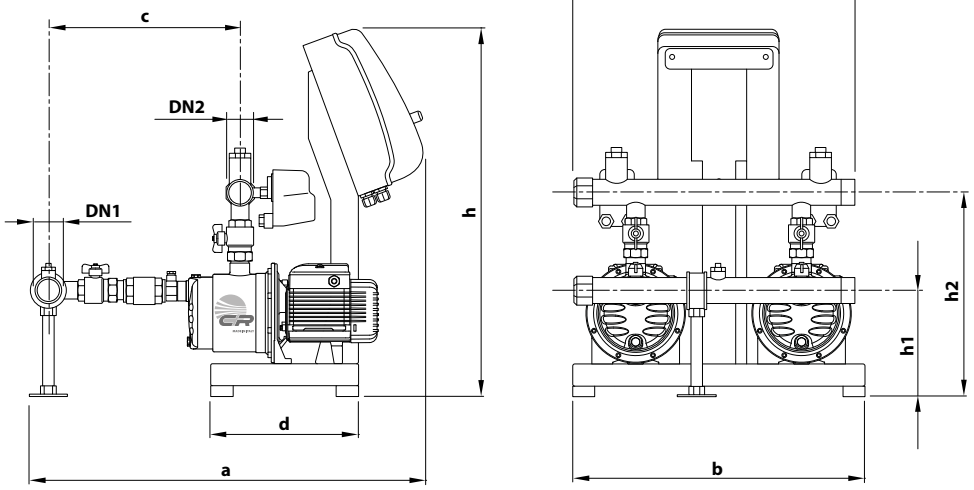
50 Hz







DIMENSIONS AND WEIGHT

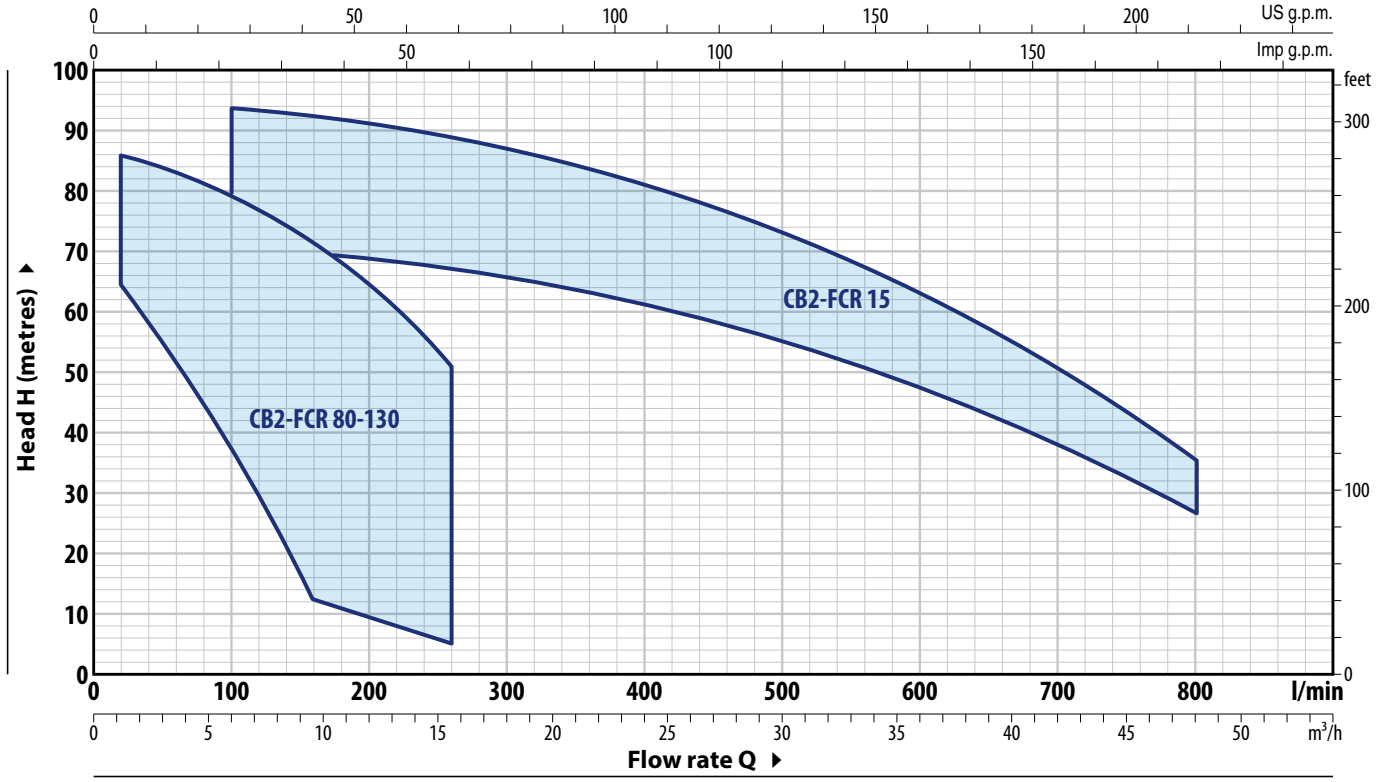


TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	Three-phase	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
CB2 - 5CRm 80	CB2 - 5CR 80	1½"	1½"	760	530	370	270	510	674	192	373	53	54
CB2 - 4CRm 100	CB2 - 4CR 100	2"	1½"	803	530	408	270	510	674	192	373	54	55
CB2 - 5CRm 100	CB2 - 5CR 100											56	55

CB2 – FCR

FIELD AND PERFORMANCE DATA

50 Hz



TYPE		POWER P2		Q	m³/h	0	0.6	1.2	2.4	4.8	7.2	9.6	10.8	12	13.2	14.4	15.6
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**10**	**20**	**40**	**80**	**120**	**160**	**180**	**200**	**220**	**240**	**260**
CB2 - FCRm 80/5	–	2x0.75	2x1	**H** metres		67	66	64	59	45.5	29.5	12					
CB2 - FCRm 100/4	–	2x0.75	2x1			50	50	49	47	42	37	30.5	26.5	22	17	11	5
CB2 - FCRm 100/5	**CB2 - FCR 100/5**	2x1.1	2x1.5			63	62	61.5	59.5	53.5	46.5	38	33	28	22	15	8
CB2 - FCRm 90/5	**CB2 - FCR 90/5**	2x1.1	2x1.5			81	80	79	77	71	62.5	51	44				
CB2 - FCRm 130/4	**CB2 - FCR 130/4**	2x1.5	2x2			68.5	68.5	68	67	65	62	57.5	55	52	48	45	41
–	**CB2 - FCR 130/5**	2x1.8	2x2.5			86	85	85	84	81	77	72	68.5	65	73	67	51.5

TYPE		POWER P2		Q	m³/h	0	6	12	24	36	42	48
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**100**	**200**	**400**	**600**	**700**	**800**
–	**CB2 - FCR 15/3**	2x4	2x5.5	**H** metres		72	70	68.5	61	48	38.5	27
–	**CB2 - FCR 15/4**	2x5.5	2x7.5			96	94	91	81	64	51.5	36

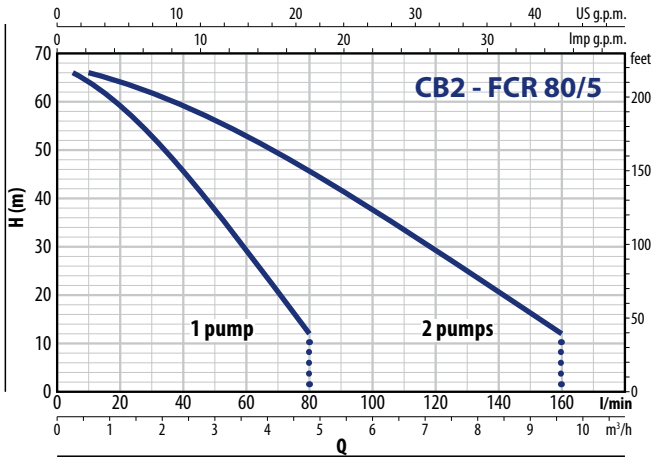
Q = Flow rate **H** = Total manometric head

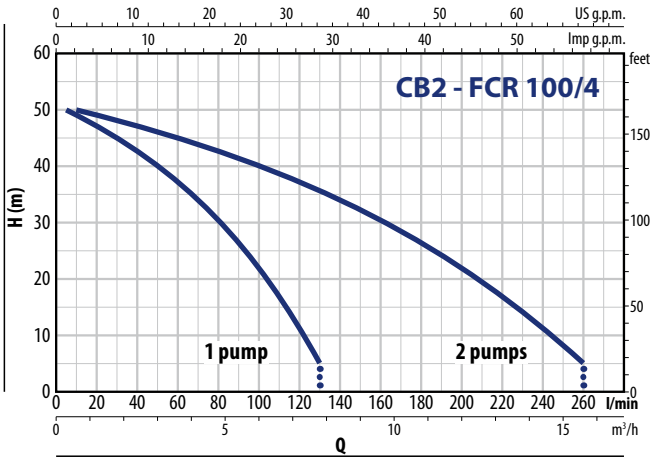
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

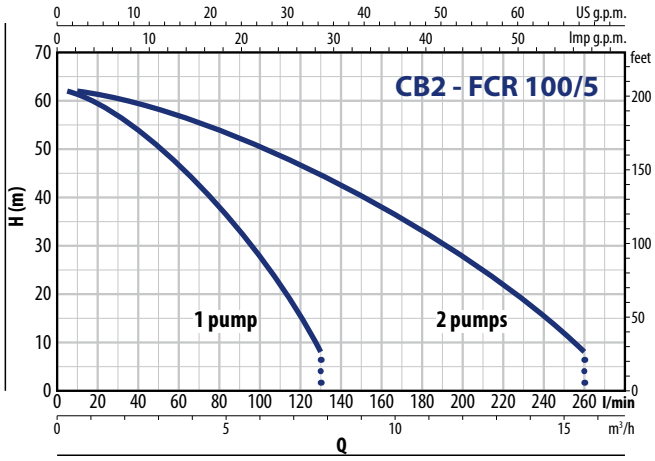
※ **The data shown in the diagram and tables indicate performance with 2 pumps in operation**

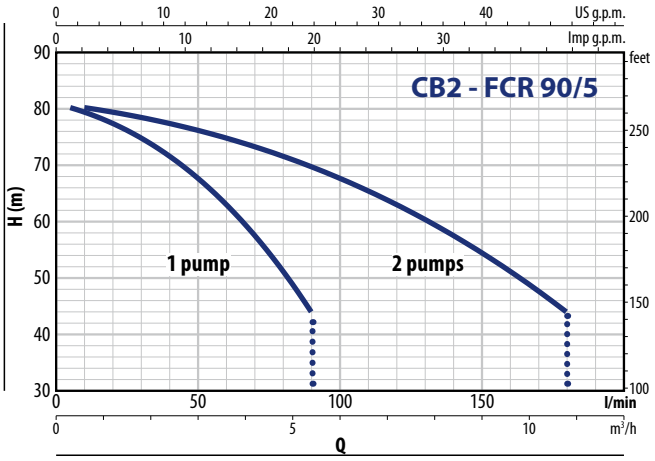
PERFORMANCE CURVES

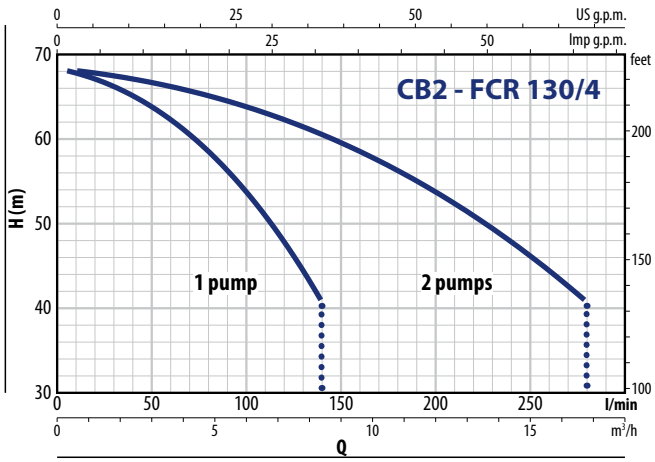
50 Hz

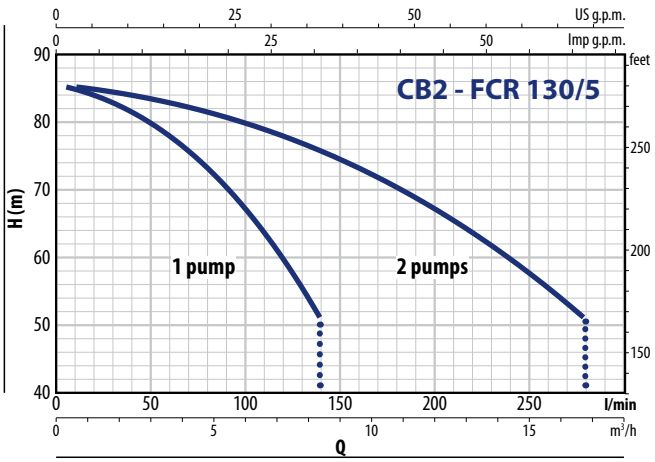


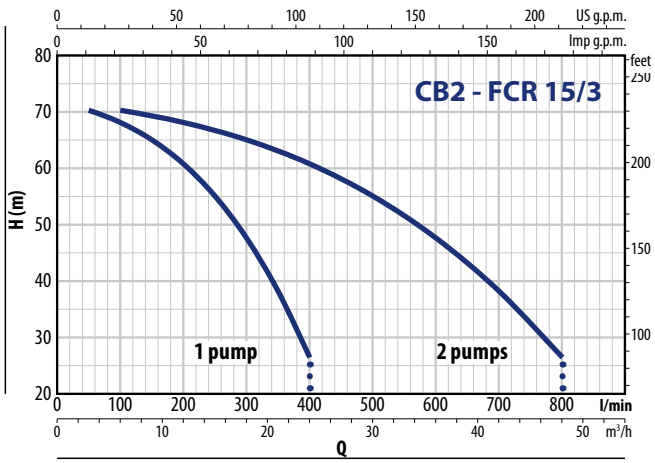


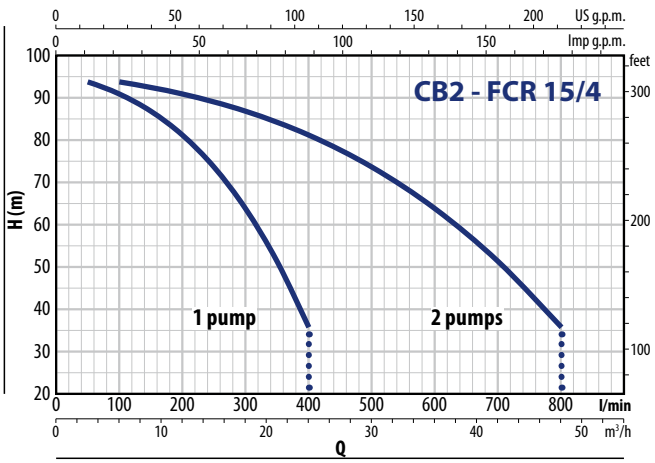












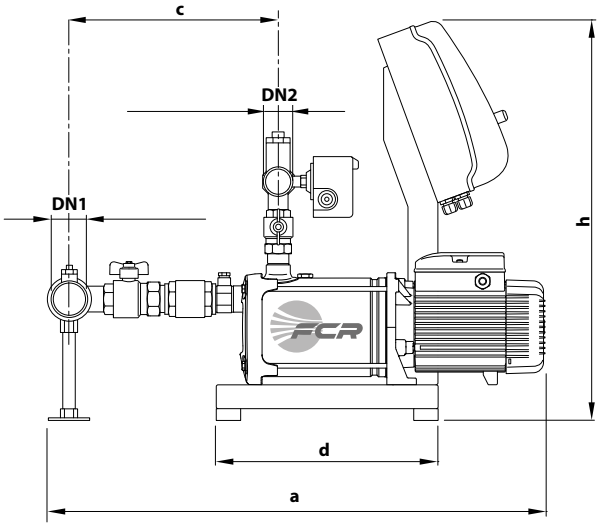
CB2 – FCR

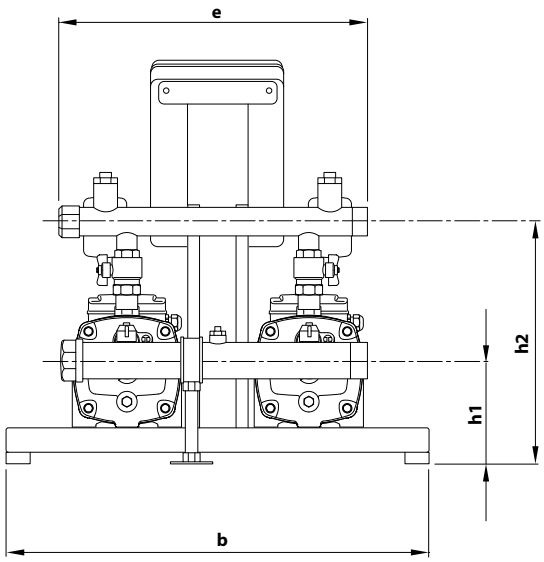
ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
CB2 - FCRm 80/5	2 x 5.5 A
CB2 - FCRm 100/4	2 x 5.8 A
CB2 - FCRm 100/5	2 x 6.8 A
CB2 - FCRm 90/5	2 x 9.0 A
CB2 - FCRm 130/4	2 x 10.3 A

TYPE **Three-phase**	VOLTAGE **400 V**
CB2 - FCR 100/5	2 x 2.5 A
CB2 - FCR 90/5	2 x 3.5 A
CB2 - FCR 130/4	2 x 4.0 A
CB2 - FCR 130/5	2 x 5.0 A
CB2 - FCR 15/3	2 x 8.8 A
CB2 - FCR 15/4	2 x 11.2 A

DIMENSIONS AND WEIGHT

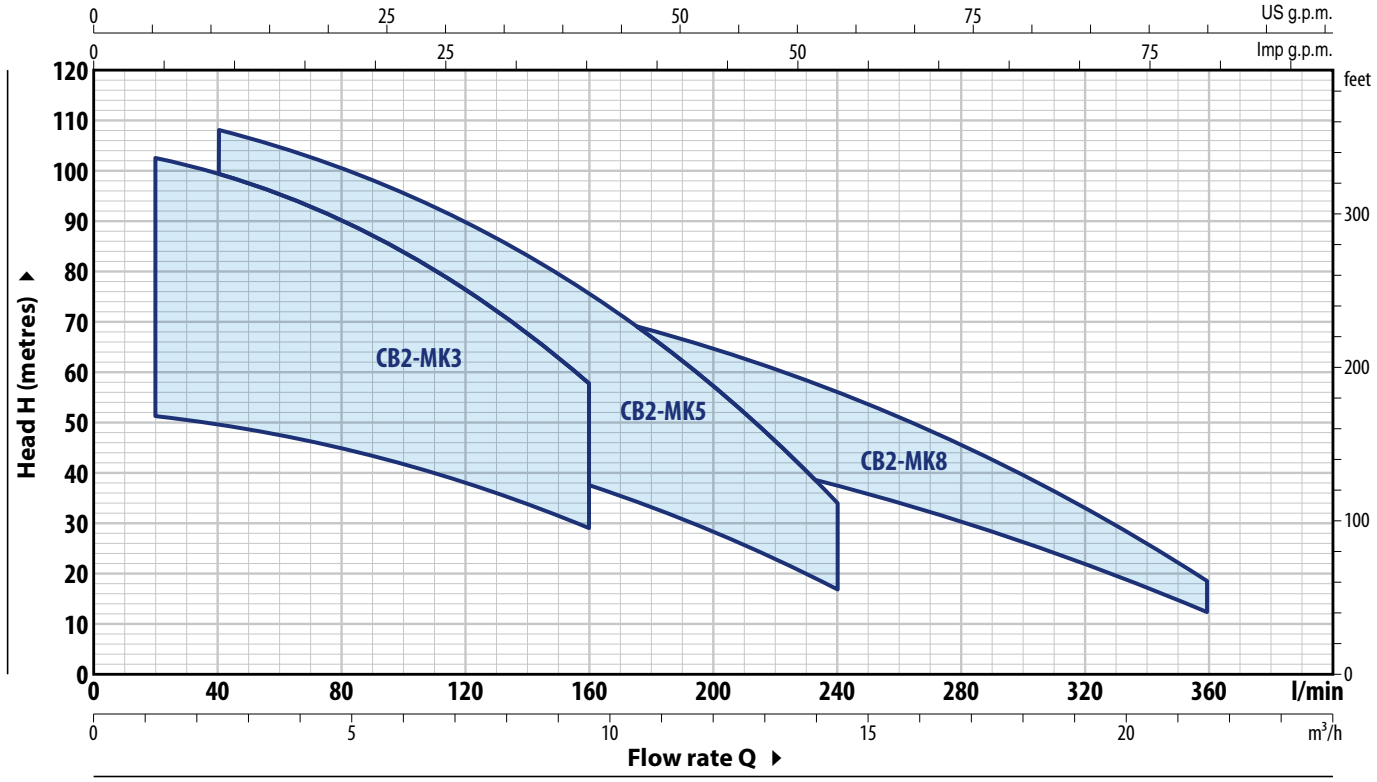




TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
CB2 - FCRm 80/5	–	**1½"**	**1½"**	672	530	364	270	510	674	182	368	53	–
CB2 - FCRm 100/4	–	**2"**	**1½"**	715		401						56	–
CB2 - FCRm 100/5	**CB2 - FCR 100/5**											56	56
CB2 - FCRm 90/5	**CB2 - FCR 90/5**			805	700	339	370			205	394	82	83
CB2 - FCRm 130/4	**CB2 - FCR 130/4**			779								82	83
–	**CB2 - FCR 130/5**			805								–	90
–	**CB2 - FCR 15/3**	**DN 100 4"**	**DN 80 3"**	1058	700	569	490	774	704	211	565	–	179
–	**CB2 - FCR 15/4**			1102		613						–	191

FIELD AND PERFORMANCE DATA

50 Hz



TYPE		POWER P2		Q m³/h	0	1.2	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6
Single-phase	Three-phase	kW	HP	l/min	**0**	**20**	**40**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**
CB2 - MKm 3/3	CB2 - MK 3/3	2x0.75	2x1	H metres	52.5	51.5	50	45	38.5	29					
CB2 - MKm 3/5	CB2 - MK 3/5	2x1.1	2x1.5		87	85	83	75	64	48					
CB2 - MKm 3/6	CB2 - MK 3/6	2x1.5	2x2		105	103	100	90	77	58					
CB2 - MKm 5/4	CB2 - MK 5/4	2x0.75	2x1		57	–	54	50	45	37.5	28.5	17			
CB2 - MKm 5/5	CB2 - MK 5/5	2x1.1	2x1.5		71	–	67.5	62.5	56	47	35.5	21.5			
CB2 - MKm 5/7	CB2 - MK 5/7	2x1.5	2x2		99	–	95	88	78	66	50	30			
CB2 - MKm 5/8	CB2 - MK 5/8	2x2.2	2x3		114	–	108	100	90	75	57	34			
CB2 - MKm 8/4	CB2 - MK 8/4	2x1.1	2x1.5		56	–	–	53.5	51	47.5	43	37.5	30.5	22.1	12
CB2 - MKm 8/5	CB2 - MK 8/5	2x1.5	2x2		70	–	–	67	64	59.5	54	47	38	27.5	15.5
CB2 - MKm 8/6	CB2 - MK 8/6	2x2.2	2x3		84	–	–	80	77	72	64.5	56	45.5	33	18.5

Q = Flow rate **H** = Total manometric head

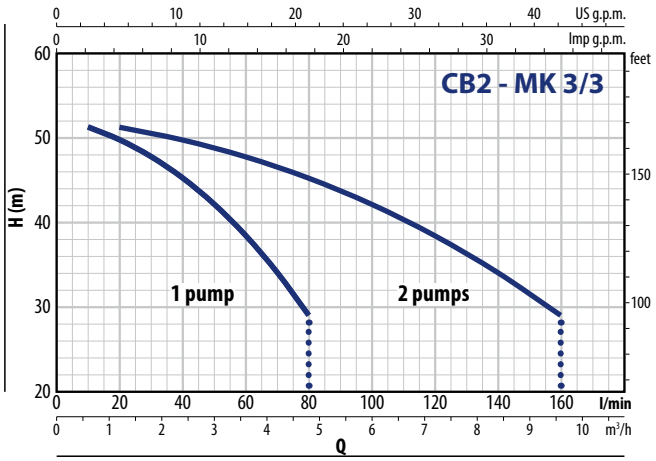
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

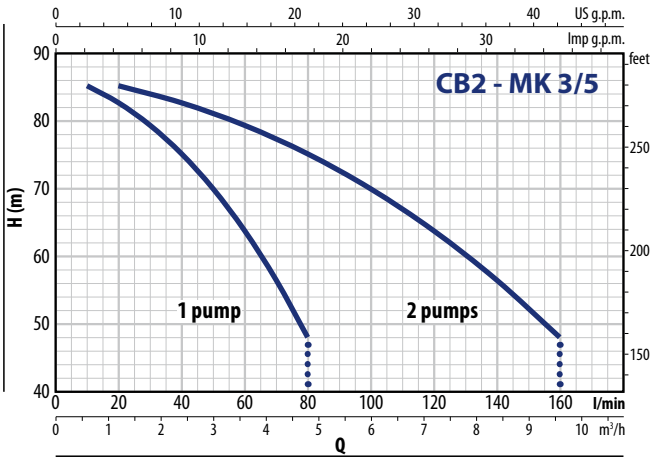
※ **The data shown in the diagram and tables indicate performance with 2 pumps in operation**

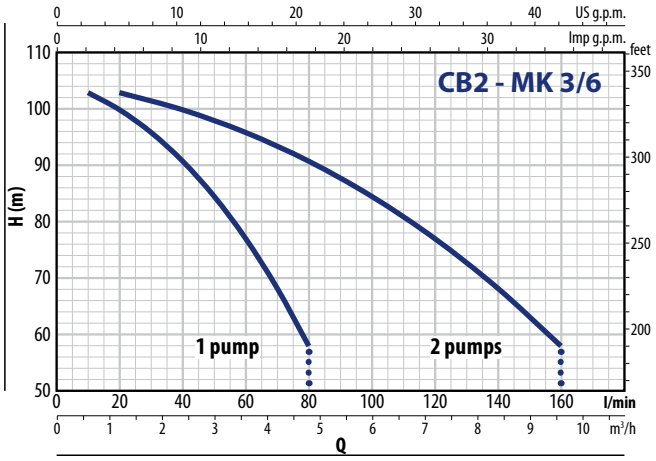
CB2 – MK

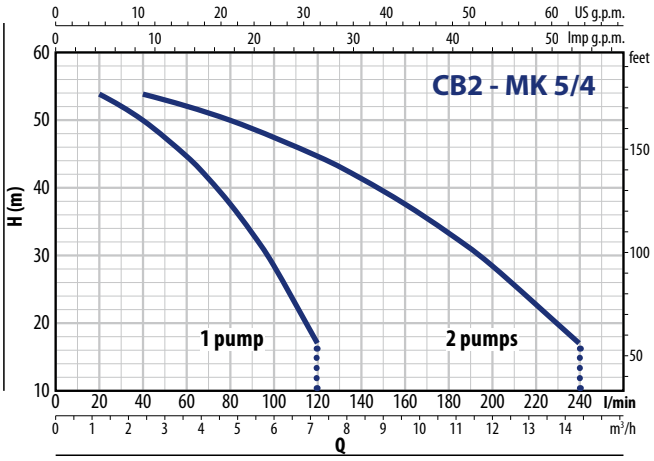
PERFORMANCE CURVES

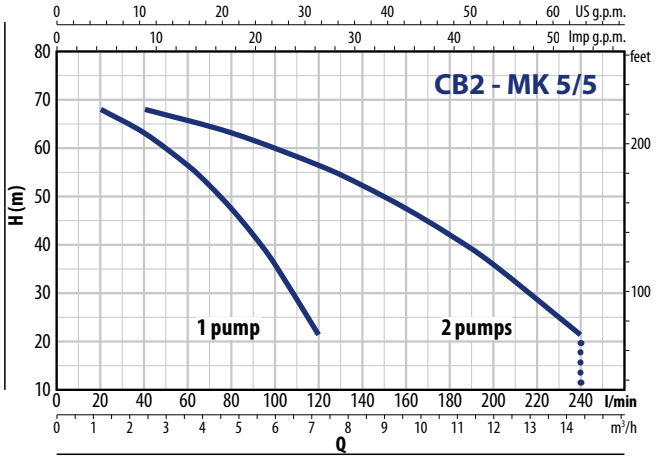
50 Hz

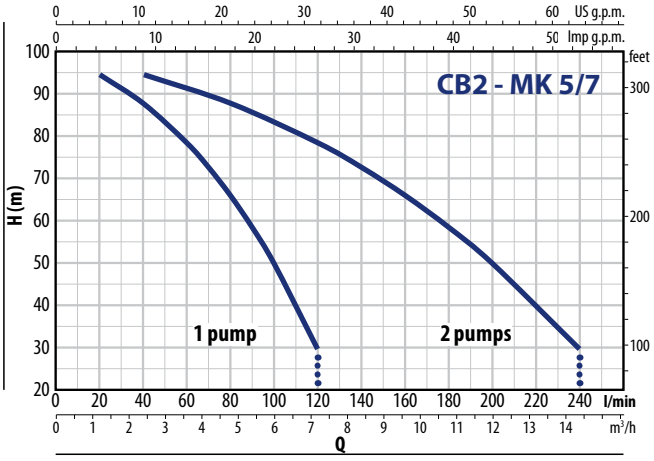


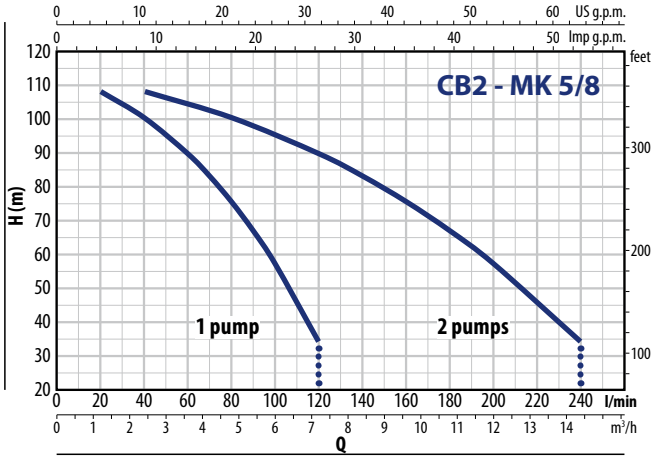


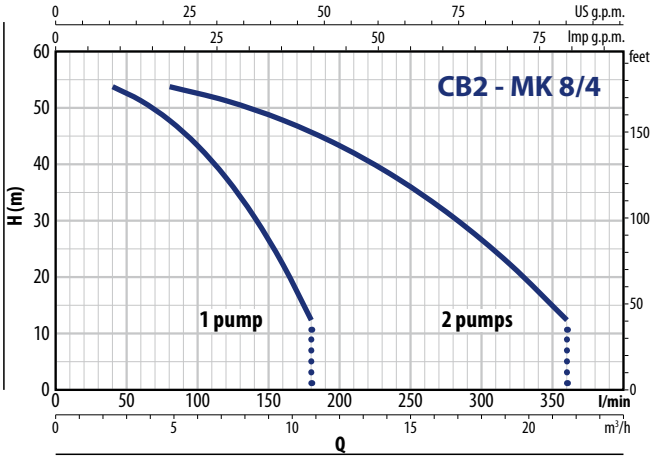






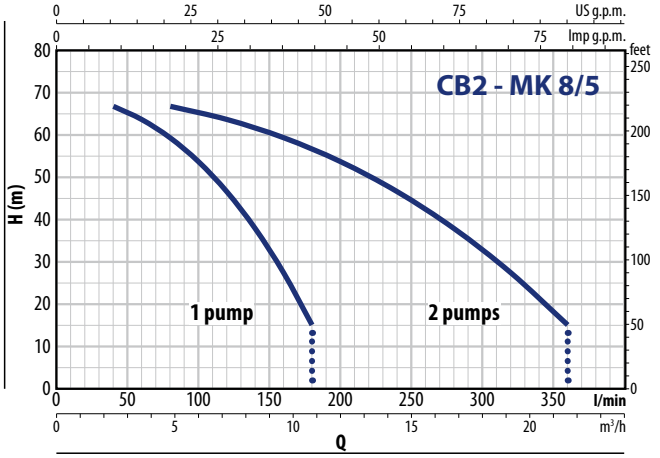


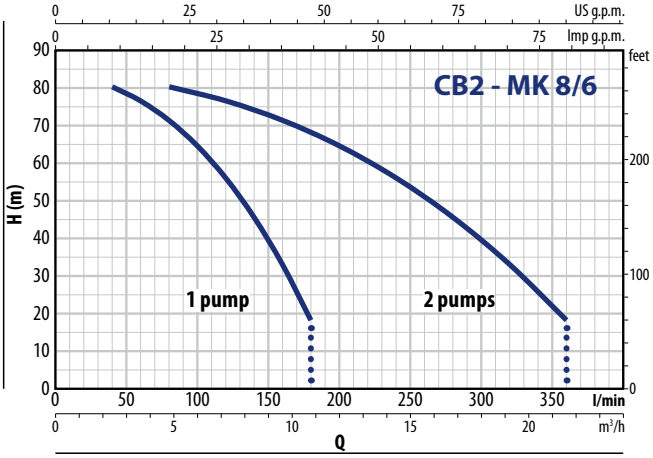




PERFORMANCE CURVES

50 Hz





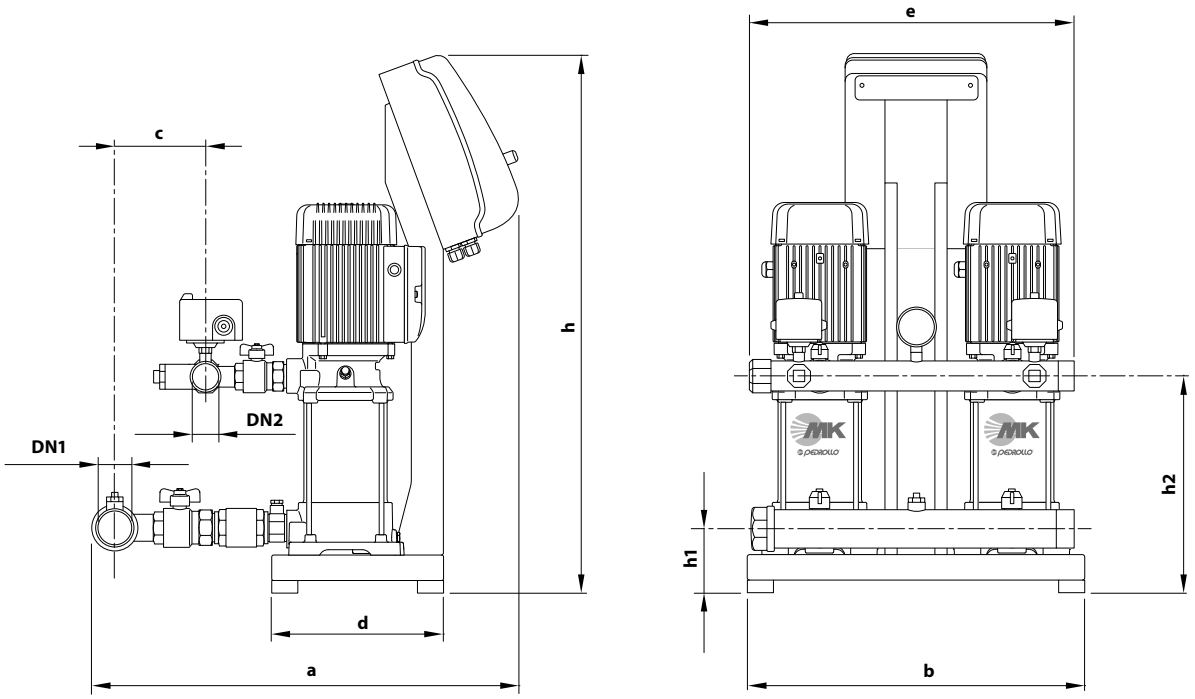
ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
CB2 - MKm 3/3	2 x 5.7 A
CB2 - MKm 3/5	2 x 7.8 A
CB2 - MKm 3/6	2 x 9.5 A
CB2 - MKm 5/4	2 x 5.7 A
CB2 - MKm 5/5	2 x 7.1 A
CB2 - MKm 5/7	2 x 9.3 A
CB2 - MKm 5/8	2 x 10.0 A
CB2 - MKm 8/4	2 x 7.8 A
CB2 - MKm 8/5	2 x 9.7 A
CB2 - MKm 8/6	2 x 11.1 A

TYPE **Three-phase**	VOLTAGE **400 V**
CB2 - MK 3/3	2 x 2.5 A
CB2 - MK 3/5	2 x 3.0 A
CB2 - MK 3/6	2 x 3.5 A
CB2 - MK 5/4	2 x 2.5 A
CB2 - MK 5/5	2 x 2.7 A
CB2 - MK 5/7	2 x 3.5 A
CB2 - MK 5/8	2 x 4.3 A
CB2 - MK 8/4	2 x 3.0 A
CB2 - MK 8/5	2 x 3.5 A
CB2 - MK 8/6	2 x 4.5 A

CB2 – MK

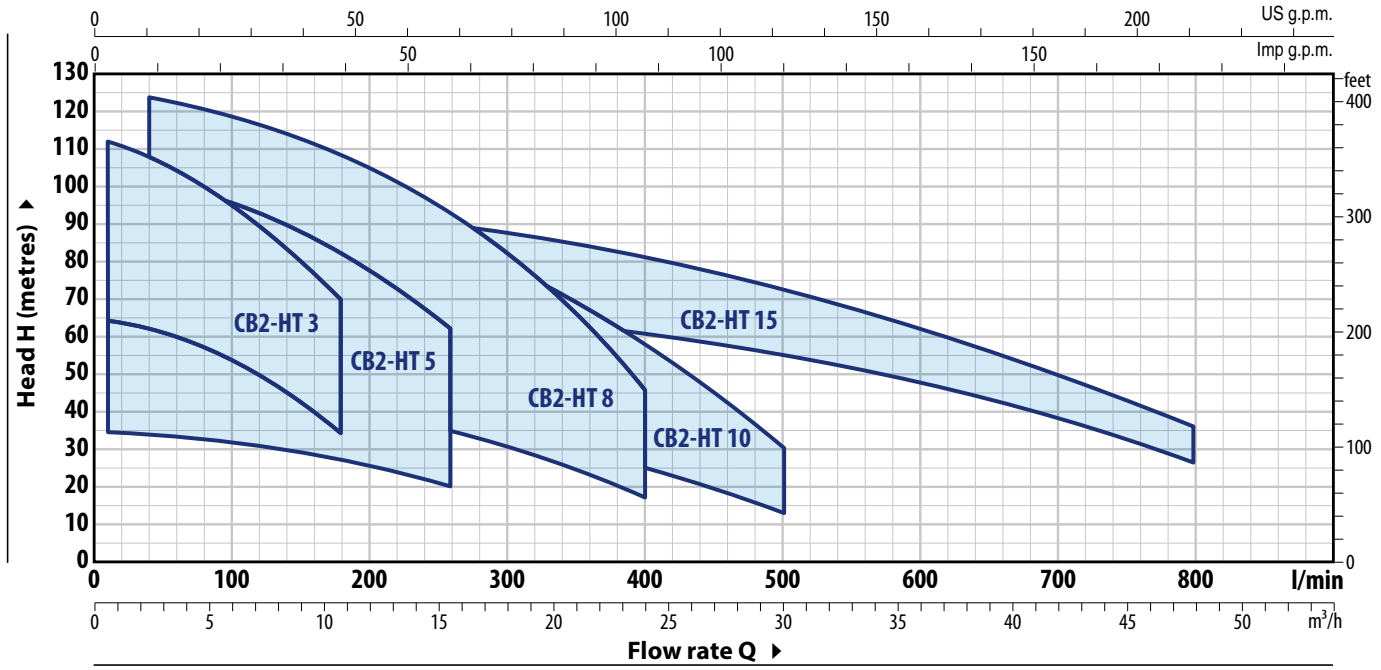
DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
CB2 - MKm 3/3	**CB2 - MK 3/3**										234	75.0	73.0
CB2 - MKm 3/5	**CB2 - MK 3/5**										288	76.0	77.0
CB2 - MKm 3/6	**CB2 - MK 3/6**										315	80.0	81.0
CB2 - MKm 5/4	**CB2 - MK 5/4**	**2"**		673		135					261	76.0	74.0
CB2 - MKm 5/5	**CB2 - MK 5/5**										288	76.0	77.0
CB2 - MKm 5/7	**CB2 - MK 5/7**		**1½"**		530		270	510	854	102	342	81.0	81.0
CB2 - MKm 5/8	**CB2 - MK 5/8**										369	82.0	82.0
CB2 - MKm 8/4	**CB2 - MK 8/4**										261	80.0	81.0
CB2 - MKm 8/5	**CB2 - MK 8/5**	**2½"**		719		171					288	81.0	81.0
CB2 - MKm 8/6	**CB2 - MK 8/6**										315	87.0	87.0

FIELD AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q									
Single-phase	Three-phase	kW	HP		m³/h	0	0.6	1.2	2.4	4.8	7.2	9.6	10.8
					l/min	**0**	**10**	**20**	**40**	**80**	**120**	**160**	**180**
CB2 - HTm 3/4	CB2 - HT 3/4	2x0.75	2x1	H metres		65	65	63.5	62	57	50	40.5	35
CB2 - HTm 3/5	CB2 - HT 3/5	2x1.1	2x1.5			81	80	79	77	71	62.5	51	44
CB2 - HTm 3/6	CB2 - HT 3/6	2x1.5	2x2			97	96	95	93	86	75	61	52
–	CB2 - HT 3/7	2x1.8	2x2.5			113	112	111	108	100	88	71	61

TYPE		POWER (P2)		Q											
Single-phase	Three-phase	kW	HP		m³/h	0	0.6	1.2	2.4	4.8	7.2	9.6	10.8	12	15.6
					l/min	**0**	**10**	**20**	**40**	**80**	**120**	**160**	**180**	**200**	**260**
CB2 - HTm 5/2	CB2 - HT 5/2	2x0.75	2x1	H metres		35	35	32.7	32.3	32.5	31	25.5	27.5	26	20.5
CB2 - HTm 5/3	CB2 - HT 5/3	2x1.1	2x1.5			51.5	51.5	51	50.5	49	46.5	43	41	39	31
CB2 - HTm 5/4	CB2 - HT 5/4	2x1.5	2x2			68.5	68.5	68	67	65	62	57.5	55	52	41
–	CB2 - HT 5/5	2x1.8	2x2.5			86	85	85	84	81	77	72	68.5	65	51.5
–	CB2 - HT 5/6	2x2.2	2x3			103	103	102	101	98	93	86	82	78	62

TYPE		POWER (P2)		Q												
Single-phase	Three-phase	kW	HP		m³/h	0	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	21.6	24
					l/min	**0**	**40**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**	**400**
CB2 - HTm 8/3	CB2 - HT 8/3	2x1.1	2x1.5	H metres		47	46.5	45.5	44	42	39.5	36.5	32.5	28	23.1	17
CB2 - HTm 8/4	CB2 - HT 8/4	2x1.5	2x2			62.5	62	60.5	58.5	56	53	48.5	43.5	37.5	31	23
–	CB2 - HT 8/5	2x1.8	2x2.5			78	77.5	76	73	70	66	61	54.5	47	38.5	28.5
–	CB2 - HT 8/6	2x2.2	2x3			94	93	91	88	84	79	73	65.5	56.5	46	34.5
※ –	CB2 - HT 8/7	2x3	2x4			109	108	106	103	98	92	85	76	66	54	40

TYPE		POWER (P2)		Q												
Single-phase	Three-phase	kW	HP		m³/h	0	3.6	6	7.2	9.6	14.4	18	20.4	24	26.4	30
					l/min	**0**	**60**	**100**	**120**	**160**	**240**	**300**	**340**	**400**	**440**	**500**
※ CB2 - HTm 10/3	CB2 - HT 10/3	2x1.5	2x2	H metres		47	45.5	44	43.5	42	38	33.5	30.5	24.7	20.3	13
※ CB2 - HTm 10/4	CB2 - HT 10/4	2x1.8	2x2.5			62	61	59	58	56	50.5	45	40.5	33	27	18
※ –	CB2 - HT 10/5	2x2.2	2x3			77	75.5	74	73	70	63	56	50.5	41	34	21.5
※ –	CB2 - HT 10/6	2x3	2x4			93	91	88	87	84	76	67.5	61	49.5	40.5	26
※ –	CB2 - HT 10/7	2x3	2x4			108	106	103	102	98	88	79	71	57.5	47.5	30

TYPE		POWER (P2)		Q							
Single-phase	Three-phase	kW	HP		m³/h	0	6	12	24	36	42	48
					l/min	**0**	**100**	**200**	**400**	**600**	**700**	**800**
–	CB2 - HT 15/3	2x4	2x5.5	H metres		72	70	68.5	61	48	38.5	27
–	CB2 - HT 15/4	2x5.5	2x7.5			96	94	91	81	64	51.5	36

Q = Flow rate **H** = Total manometric head

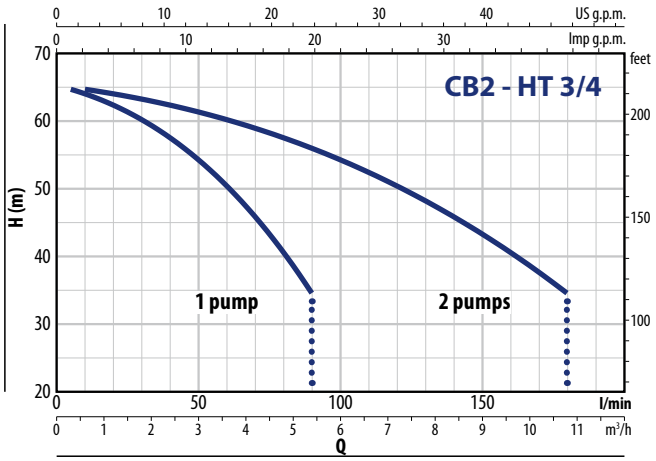
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

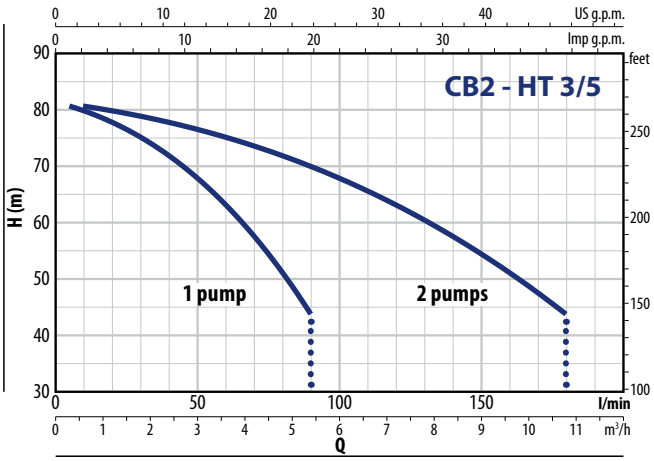
※ The data shown in the diagram and tables indicate performance with 2 pumps in operation

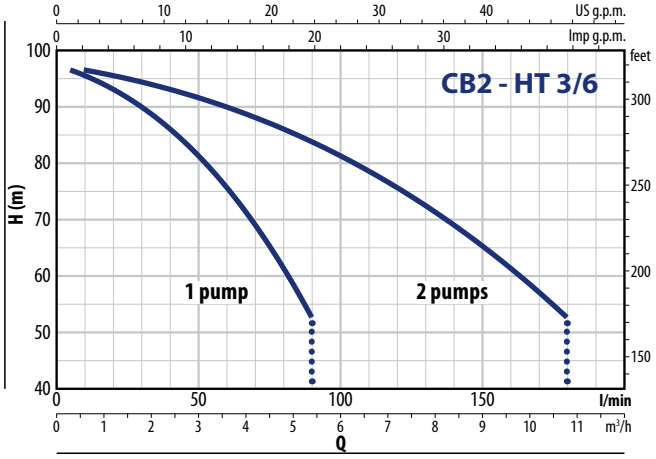
CB2 – HT

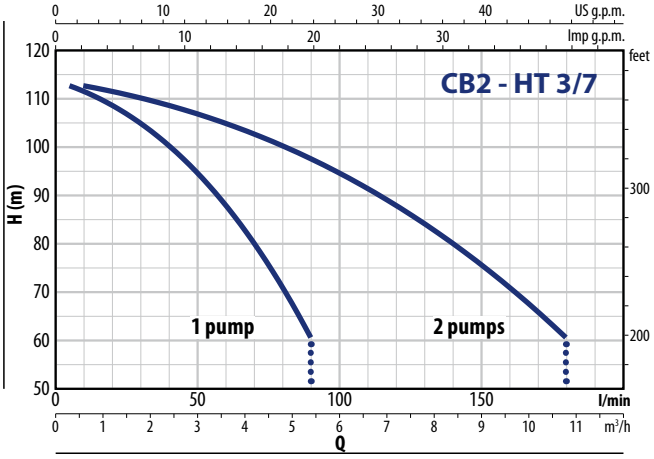
PERFORMANCE CURVES

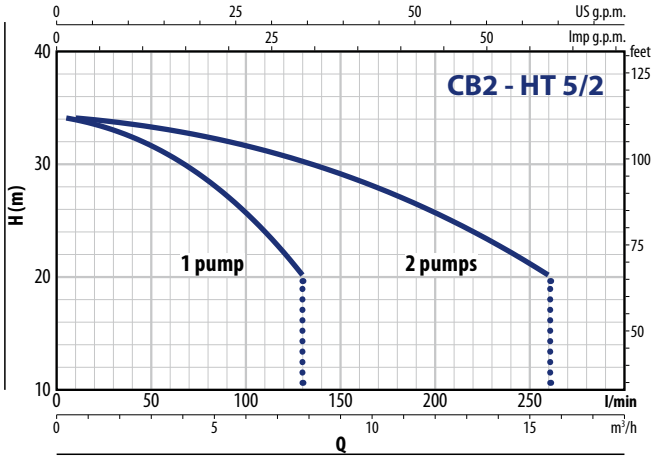
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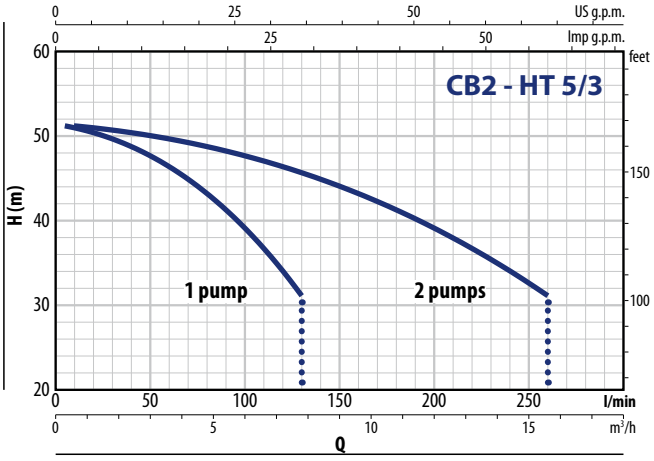


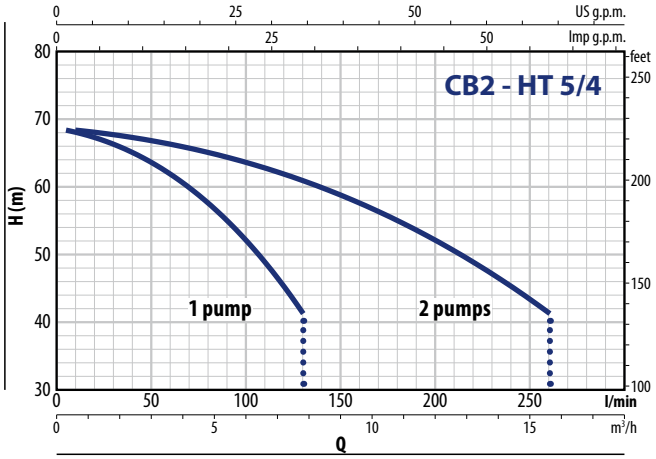


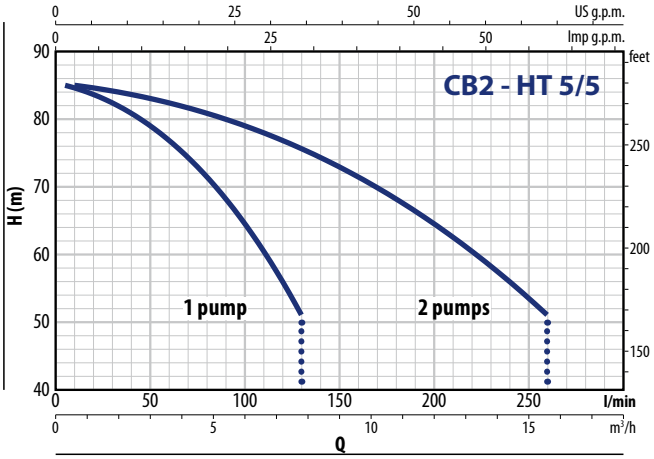






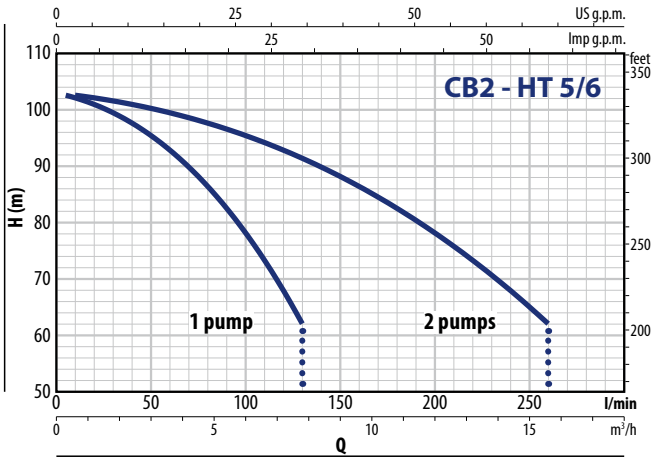


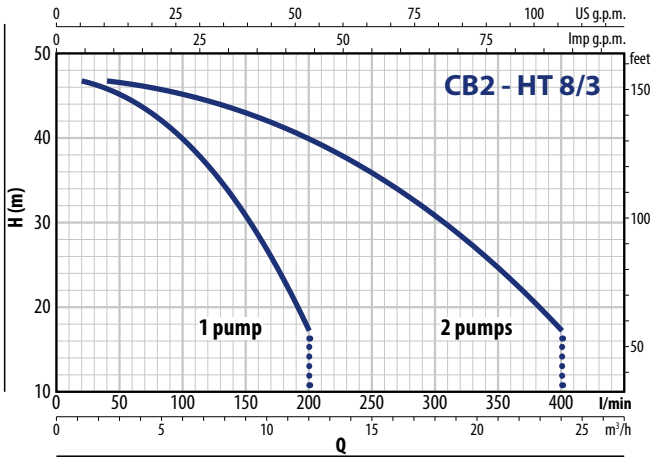


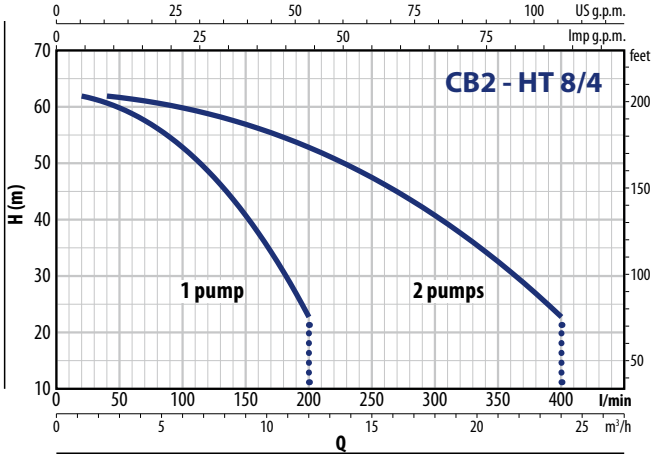


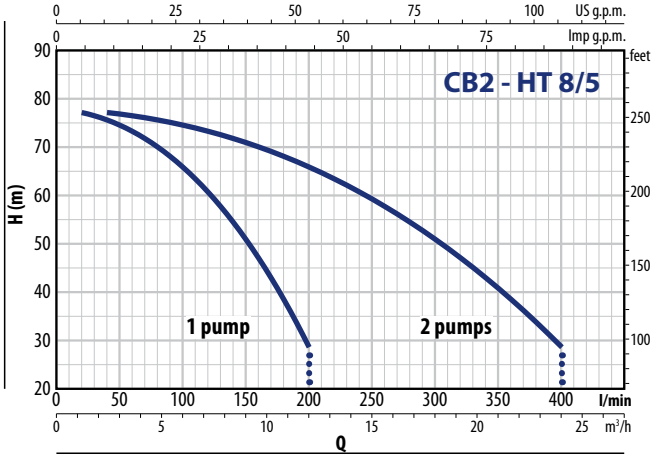
PERFORMANCE CURVES

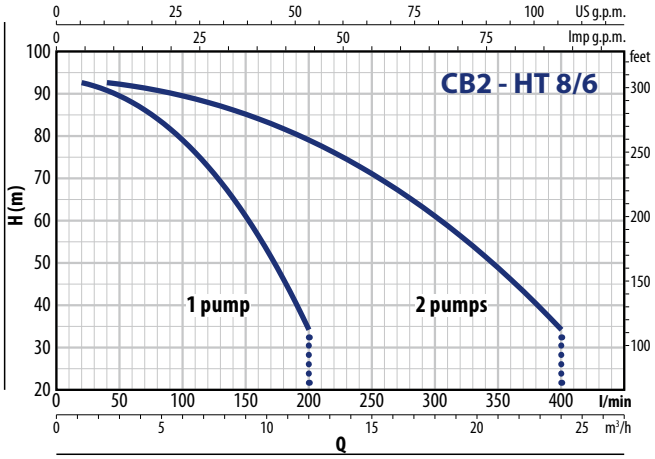
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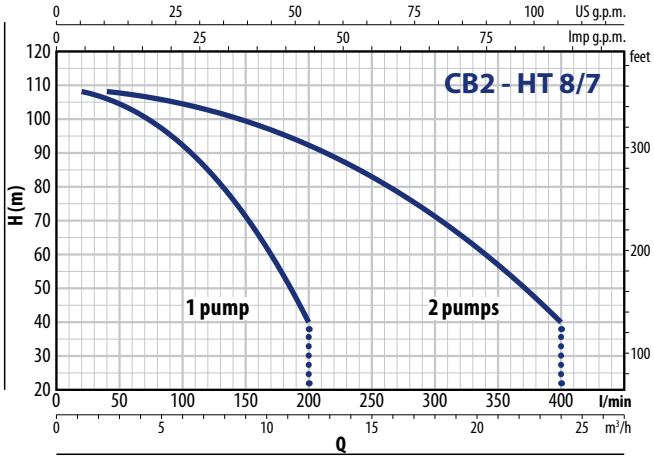


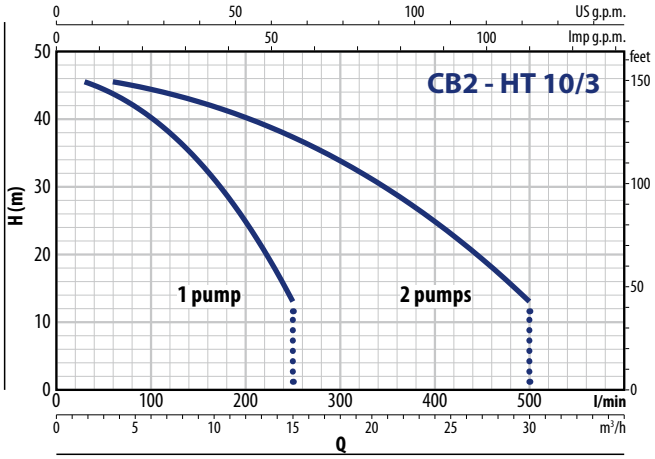


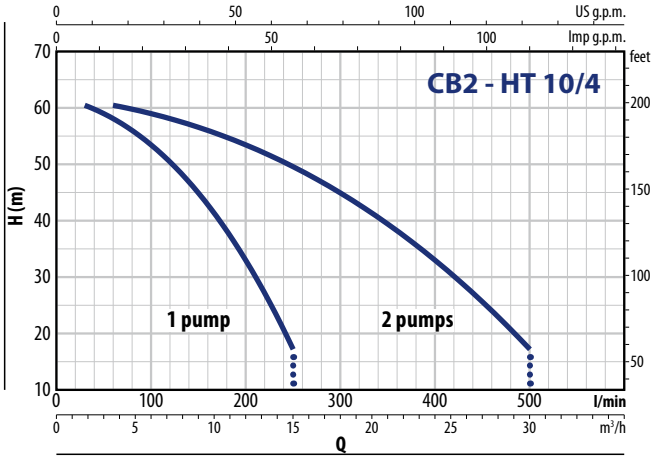








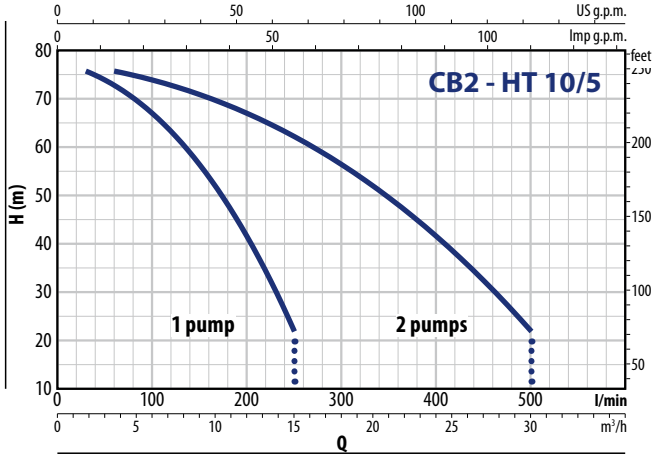


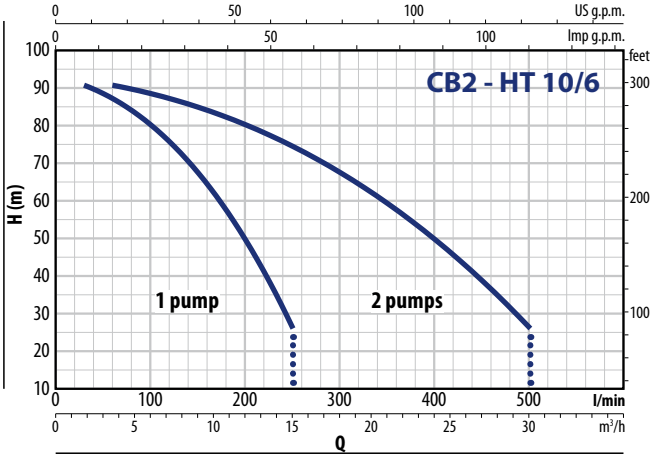


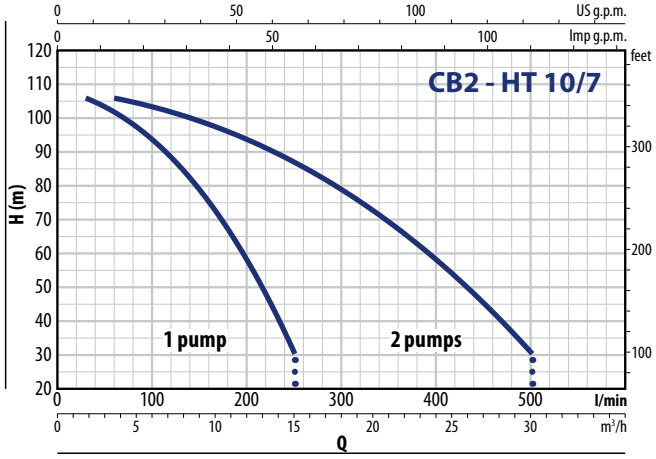
CB2 – HT

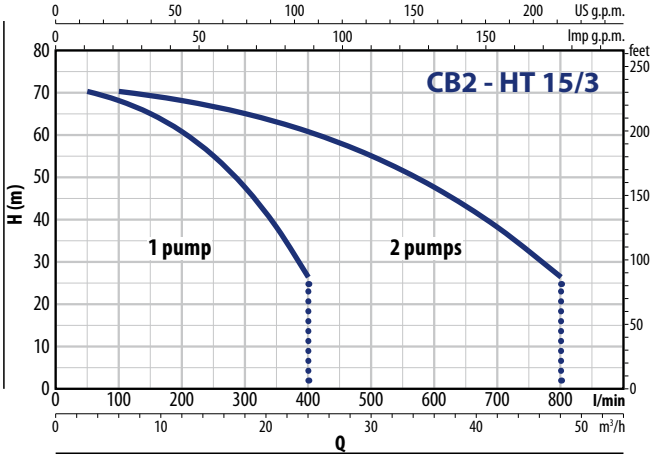
PERFORMANCE CURVES

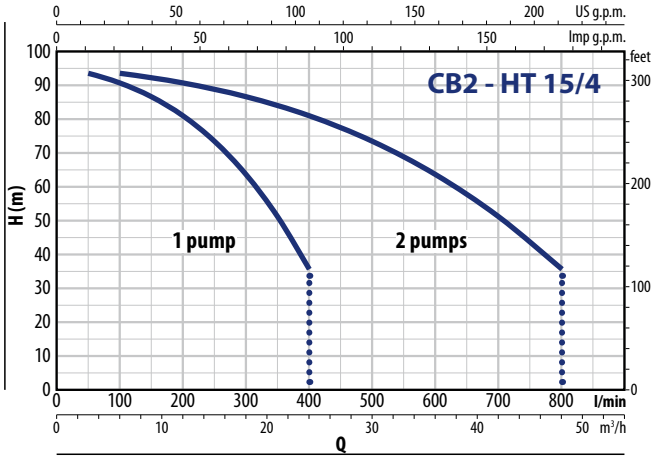
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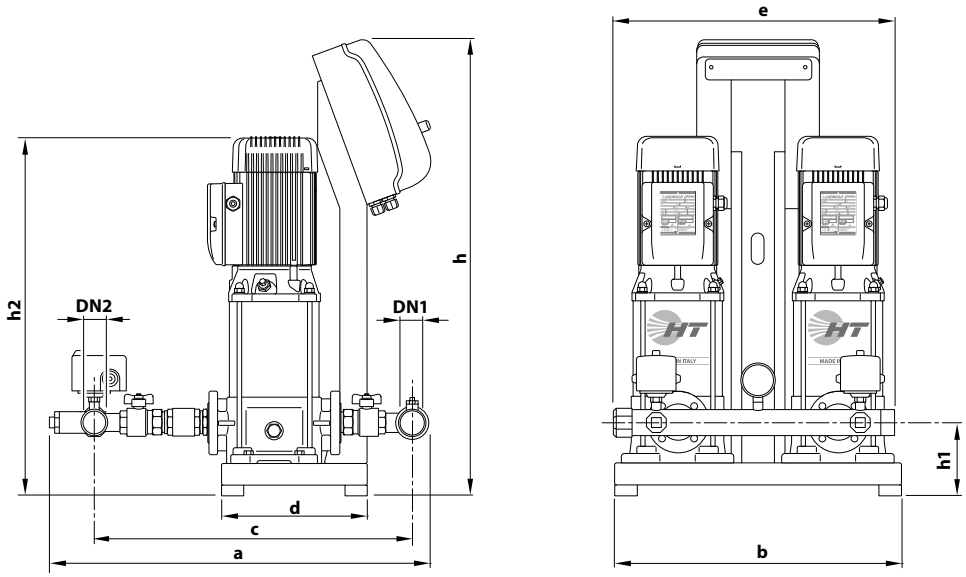
ABSORPTION

TYPE	VOLTAGE
Single-phase	**230 V**
CB2 - HTm 3/4	2 x 7.5 A
CB2 - HTm 3/5	2 x 9.0 A
CB2 - HTm 3/6	2 x 10.5 A
CB2 - HTm 5/2	2 x 6.1 A
CB2 - HTm 5/3	2 x 8.5 A
CB2 - HTm 5/4	2 x 10.3 A
CB2 - HTm 8/3	2 x 8.7 A
CB2 - HTm 8/4	2 x 10.5 A
CB2 - HTm 10/3	2 x 9.5 A
CB2 - HTm 10/4	2 x 11.0 A

TYPE	VOLTAGE
Three-phase	**400 V**
CB2 - HT 3/4	3.0 A
CB2 - HT 3/5	3.5 A
CB2 - HT 3/6	4.0 A
CB2 - HT 3/7	4.8 A

TYPE	VOLTAGE
Three-phase	**400 V**
CB2 - HT 5/2	2 x 2.8 A
CB2 - HT 5/3	2 x 3.2 A
CB2 - HT 5/4	2 x 3.8 A
CB2 - HT 5/5	2 x 4.8 A
CB2 - HT 5/6	2 x 5.2 A
CB2 - HT 8/3	2 x 3.3 A
CB2 - HT 8/4	2 x 4.0 A
CB2 - HT 8/5	2 x 4.8 A
CB2 - HT 8/6	2 x 5.4 A
CB2 - HT 8/7	2 x 7.0 A
CB2 - HT 10/3	2 x 3.4 A
CB2 - HT 10/4	2 x 4.5 A
CB2 - HT 10/5	2 x 5.2 A
CB2 - HT 10/6	2 x 6.5 A
CB2 - HT 10/7	2 x 7.2 A
CB2 - HT 15/3	2 x 8.8 A
CB2 - HT 15/4	2 x 11.2 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
CB2 - HTm 3/4	**CB2 - HT 3/4**	**2"**	**2"**	732	530	614	270	510	674	135	569	99	100
CB2 - HTm 3/5	**CB2 - HT 3/5**										595	100	100
CB2 - HTm 3/6	**CB2 - HT 3/6**								854		621	102	102
–	**CB2 - HT 3/7**										667	–	112
CB2 - HTm 5/2	**CB2 - HT 5/2**	**2"**	**2"**	779	530	661	270	510	674	135	517	99	100
CB2 - HTm 5/3	**CB2 - HT 5/3**										543	99	100
CB2 - HTm 5/4	**CB2 - HT 5/4**										569	103	104
–	**CB2 - HT 5/5**								854		615	–	109
–	**CB2 - HT 5/6**										641	–	111
CB2 - HTm 8/3	**CB2 - HT 8/3**	**2½"**	**2½"**	873	530	738	270	521	674	140	548	106	107
CB2 - HTm 8/4	**CB2 - HT 8/4**										574	110	111
–	**CB2 - HT 8/5**								854		620	–	119
–	**CB2 - HT 8/6**										646	–	120
–	**CB2 - HT 8/7**				700		370		674		724	–	145
CB2 - HTm 10/3	**CB2 - HT 10/3**	**2½"**	**2½"**	873	530	738	270	521	674	140	548	107	107
CB2 - HTm 10/4	**CB2 - HT 10/4**										594	111	111
–	**CB2 - HT 10/5**								854		620	–	119
–	**CB2 - HT 15/3**	**3"**	**3"**	993	700	850	370	728	674	150	693	–	175
–	**CB2 - HT 15/4**										737	–	187

TISSEL-100 Pumps with inverters

Clean water

Domestic use

Civil use



TS1-4CP 100



TS1-5CR 100



TS1-2CP

INSTALLATION AND USE

The **TISSEL-100** is a pumping unit designed for water supply and pressure boosting in residential settings, as well as for irrigation purposes. It seamlessly integrates with various pressurization systems, including existing ones, ensuring optimal comfort and significant energy savings.

PRODUCT DESCRIPTION

TISSEL-100 is a system comprising a pump and a water flow inverter with an integrated pressure sensor. It adjusts the motor speed based on water demand, maintaining constant system pressure.

TISSEL-100 is a plug-and-play product requiring no configuration. Users can adjust the system's working pressure and view operating parameters or alarms via the user interface. Experienced users can access advanced menus to customize factory settings for specific plant conditions. TISSEL-100 includes a pump and a water flow inverter with an integrated pressure sensor, ensuring consistent pressure by adjusting motor speed based on water demand.

TISSEL-100 is a plug-and-play product that eliminates the need for configuration procedures. Users can easily adjust the system's operating pressure and monitor essential parameters or alarm messages via the user interface.
For advanced users, TISSEL-100 provides access to advanced menus for modifying factory parameters, allowing customization to meet specific facility conditions or system requirements.

TISSEL-100 is designed to protect the system from:

※ dry running
※ overcurrent
※ overvoltage and undervoltage
※ combustion chamber
※ short circuit

TECHNICAL DATA

- Power supply: **1~ 230 V** ± 10%
- Output voltage: **3~ 230 V**
- Frequency: **50/60 Hz**
- Maximum liquid temperature: **+40 °C**
- Maximum ambient temperature: **+40 °C**

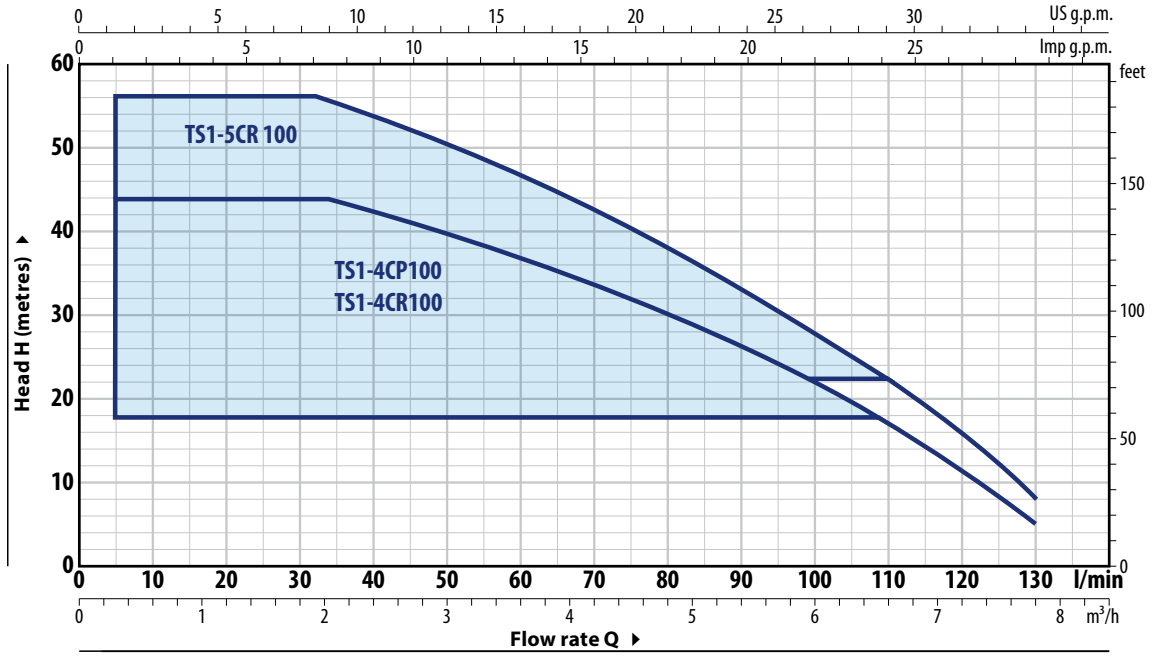
COMPONENTS INCLUDED

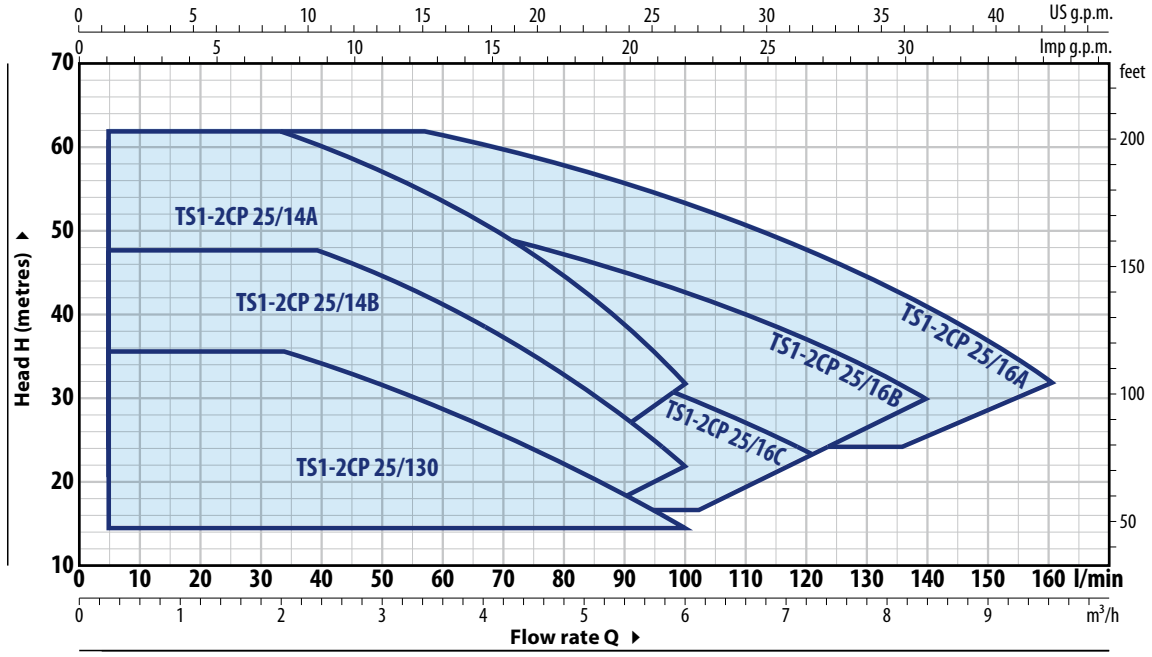
※ Three-phase pump
※ Variable frequency drive with integrated non-return valve
※ GSR quick-connect coupling
※ 1.5 metres cable with Schuko plug

KEY FEATURES

※ **Plug&Play** solution, ease of installation, and quick start-up
※ Enhanced comfort ensured by consistent pressure operation
※ Save energy with lower pump consumption.
※ Protects the pump from faults by monitoring hydraulic and electrical operating parameters
※ Reduced noise operation

PERFORMANCE RANGE





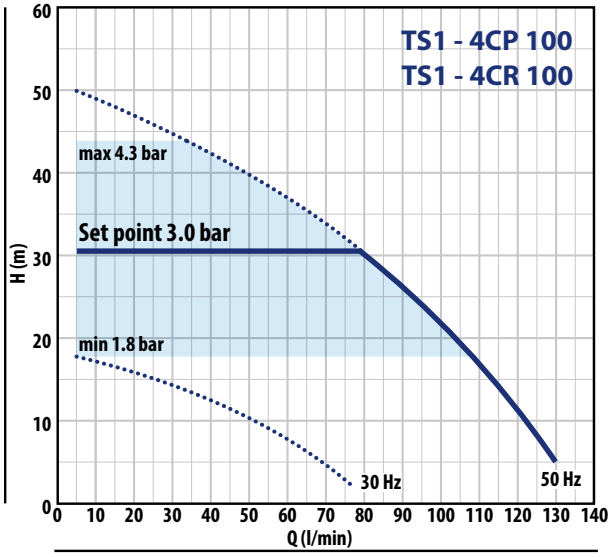
TYPE	POWER P2			ABSORPTION 230 V	PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
					Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	kW	HP	▲		litres/min	metres	bar	litres/min	bar	litres/min	bar	litres/min
TS1-4CP 100	0.75	1	IE3	9.2 A	5 – 130	44 – 5	1.8	5 – 107	**3.0**	5 – **80**	4.3	5 – 33
TS1-4CR 100	0.75	1		9.2 A	5 – 130	44 – 5	1.8	5 – 107	**3.0**	5 – **80**	4.3	5 – 33
TS1-5CR 100	0.90	1.25		10.0 A	5 – 130	56 – 8	2.2	5 – 107	**3.7**	5 – **80**	5.5	5 – 33
TS1-2CP 25/130	0.75	1	IE3	9.5 A	5 – 100	36 – 15	1.5	5 – 100	**2.5**	5 – **67**	3.5	5 – 34
TS1-2CP 25/14B	1.1	1.5		10.5 A	5 – 100	48 – 22	1.9	5 – 92	**3.6**	5 – **70**	4.7	5 – 35
TS1-2CP 25/14A	1.5	2		16.0 A	5 – 100	61 – 32	2.4	5 – 85	**4.8**	5 – **70**	6.0	5 – 35
TS1-2CP 25/16C	1.1	1.5		11.5 A	5 – 120	41 – 24	1.7	5 – 100	**3.2**	5 – **85**	4.0	5 – 52
TS1-2CP 25/16B	1.5	2		13.5 A	5 – 140	52 – 30	2.0	5 – 110	**4.1**	5 – **100**	5.1	5 – 52
TS1-2CP 25/16A	2.2	3		21.5 A	5 – 160	62 – 32	2.4	5 – 135	**4.8**	5 (115)	6.1	5 – 52

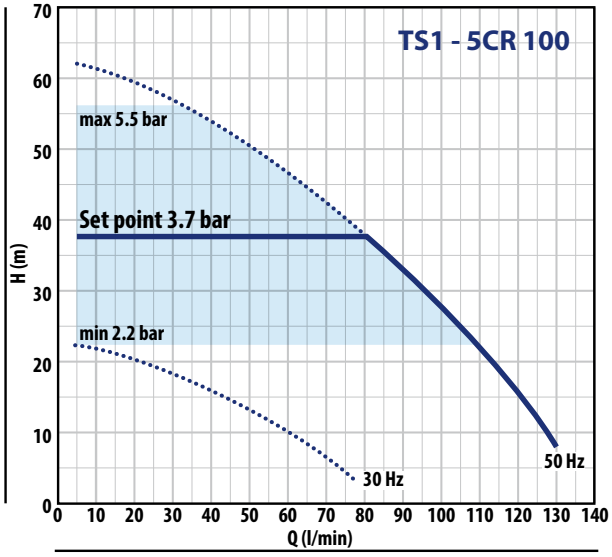
Q = Flow rate **H** = Total manometric head

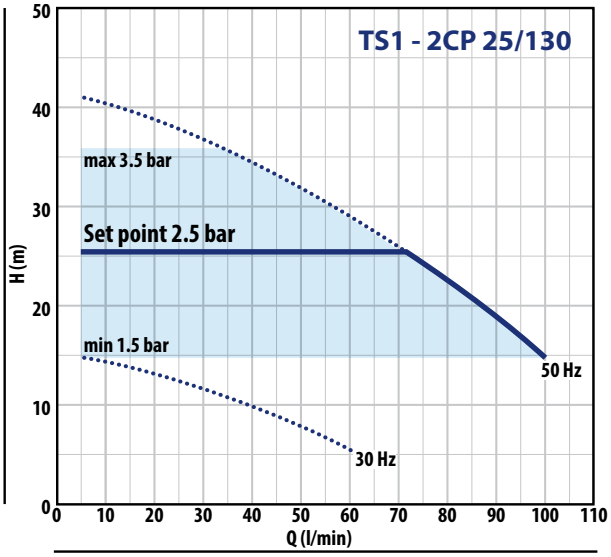
▲ Three-phase motor efficiency class (IEC 60034-30-1)

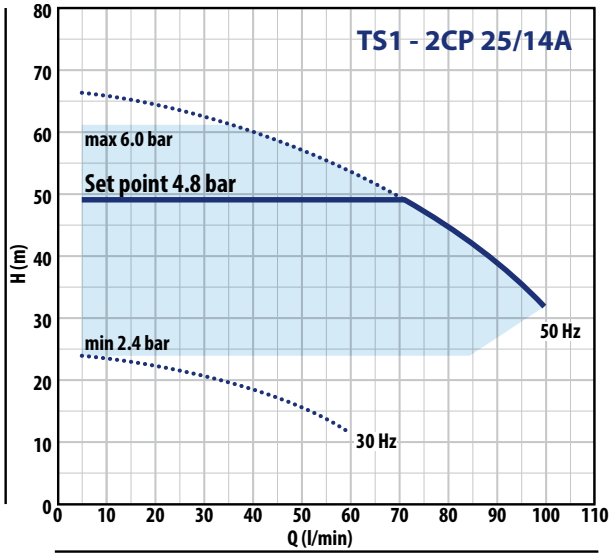
TISSEL-100

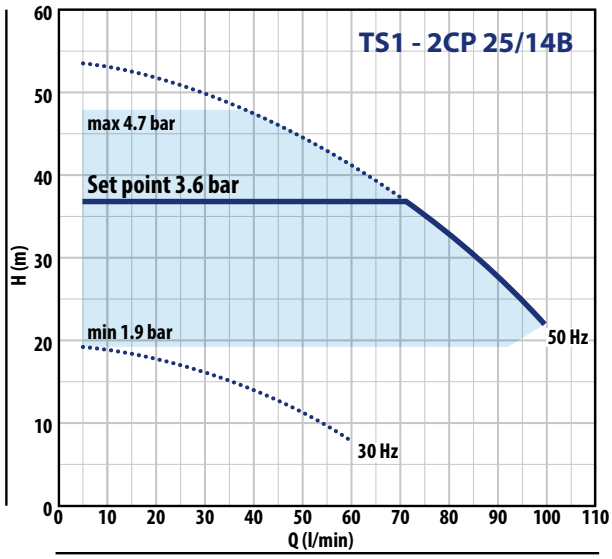
PERFORMANCE CURVES

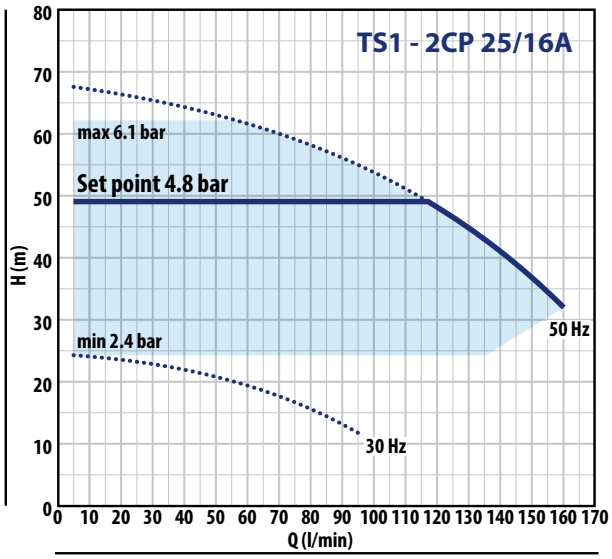




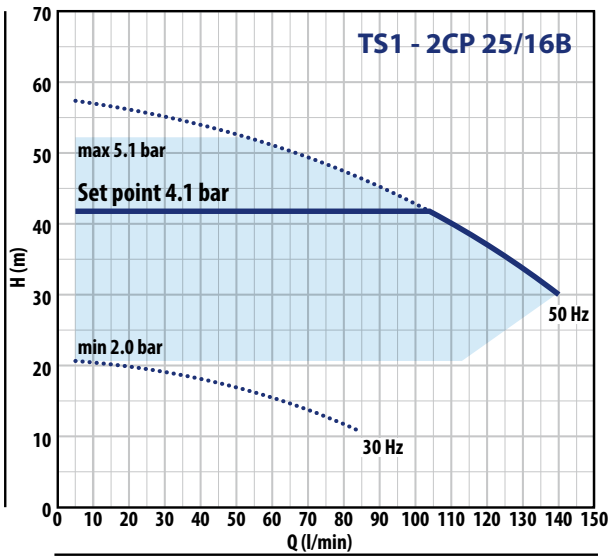


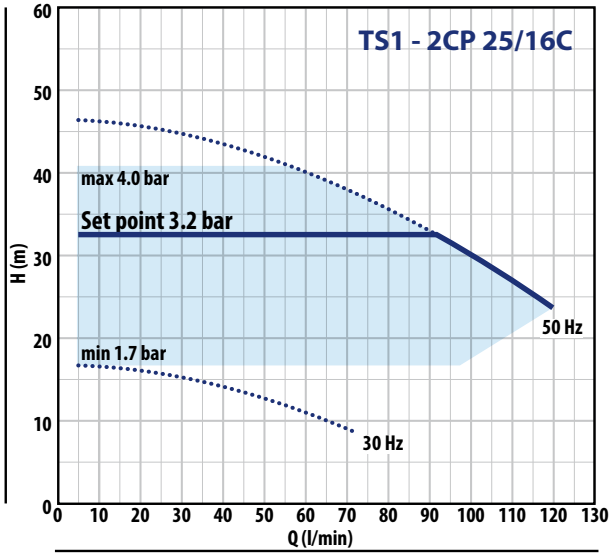






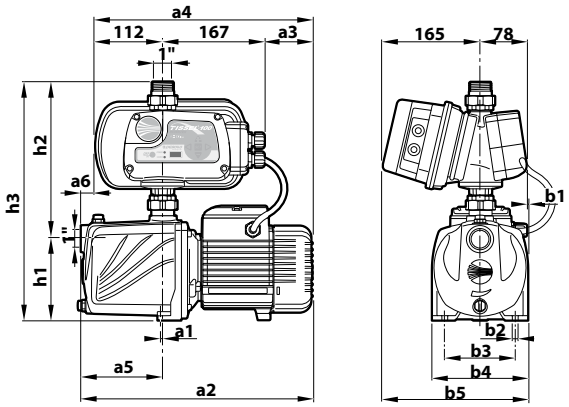
PERFORMANCE CURVES



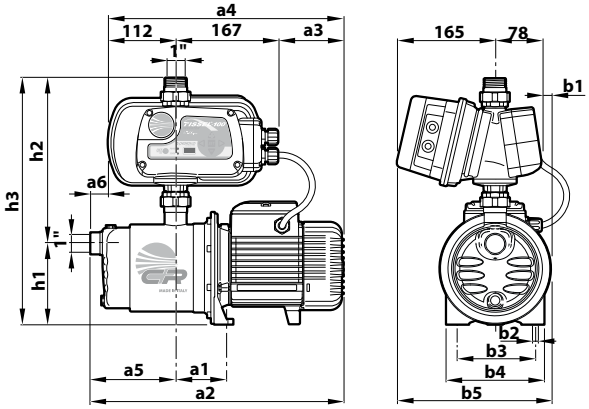


DIMENSIONS (mm)

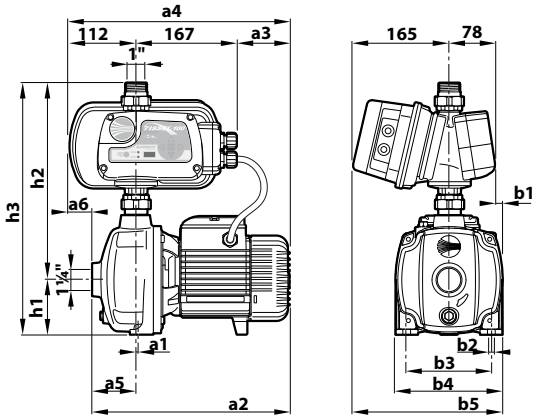
TS1-4CP 100



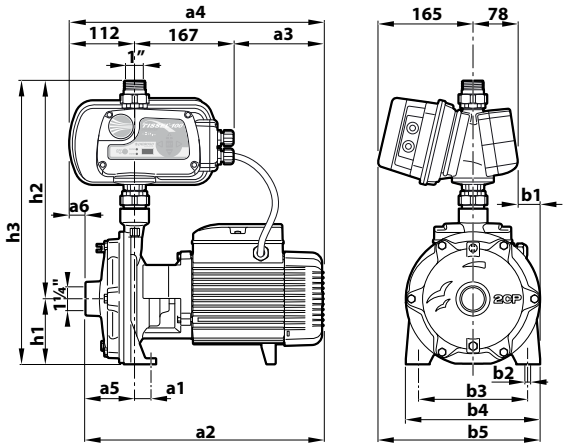
TS1-4CR 100X – TS1-5CR 100



TS1-2CP 25/130



TS1-2CP 25/14 – TS1-2CP 25/16



TYPE	a1	a2	a3	a4	b1	b2	b3	b4	b5	h1	h2	h3	kg
TS1-4CP 100	1.5	382	79	358	1	9	116	158	244	134	268	402	21.7
TS1-4CR 100	87	411	106	385	13	10	120	182	256	132	280	412	18.5
TS1-5CR 100	87	411	106	385	13	10	120	182	256	132	280	412	18.5
TS1-2CP 25/130	1	330	90	369	12	10	142	180	255	92	339	431	22.7
TS1-2CP 25/14B	17	404	155	434	22	10	162	200	265	93	360	453	28.6
TS1-2CP 25/14A	26	404	155	434	34	11	185	225	278	110	381	491	32.6
TS1-2CP 25/16C	17	404	155	434	22	10	162	200	265	93	360	453	28.4
TS1-2CP 25/16B	26	404	155	434	34	11	185	225	278	110	381	491	32.4
TS1-2CP 25/16A	26	424	175	454	34	11	185	225	278	110	381	491	35.2

VSP Pumps with inverters

Clean water

Domestic use

Civil use



INSTALLATION AND USE

VSP is a versatile pumping unit designed for various applications. It's ideal for residential and commercial use, providing water supply and pressure boosting.
VSP seamlessly integrates with any pressurization system, including existing ones, ensuring maximum comfort and enabling significant energy savings.

PRODUCT DESCRIPTION

VSP is a system comprising a pump and an integrated frequency converter. Equipped with a pressure sensor, it ensures a constant pressure as the system's water demand fluctuates.

This ready-to-use product eliminates the need for configuration procedures. Users can adjust the working pressure and view operating parameters and alarm messages via the user interface.

For advanced users, the system offers access to an advanced menu for modifying factory parameters through a guided procedure, allowing adaptation to specific plant conditions.

VSP is an intelligent pumping unit, equipped with:

※ **display and keypad** allowing simple and intuitive configuration and reading of operating parameters;
※ interface ports for additional **analogue** and **digital** input and output **signals**;
※ **PFC technology** maintains hydraulic performance unaffected even when supply voltages vary within ±20% of the nominal value;
※ **RS 485 communication** for connection to a second device in parallel.

Integrated protection against:

※ dry running
※ overcurrent
※ overvoltage and undervoltage
※ combustion chamber
※ short circuit
※ lack of phases in the connections (for three-phase version)

TECHNICAL DATA

- Power supply:
  – **1~ 230V±10%** or **3~ 400V±10%**
  – Frequency: **50/60 Hz**
- Please refer to the technical data of the specific electropumps for liquid temperature, ambient temperature, and protection degree.

KEY FEATURES

※ Easy installation, configuration, and adjustment.
※ Greater comfort, thanks to optimized performance and low noise levels.
※ Energy saving reduces startup and operating currents, ensuring.
※ Automatic compensation for fluctuations in the supply voltage.
※ Communication with another device to enhance system capabilities.
※ Intelligent management of control and intervention in case of anomalies.

USER INTERFACE

It enables access to configuration menus, navigation through settings, adjustment of operating parameters, and activation or deactivation of the pumping unit.

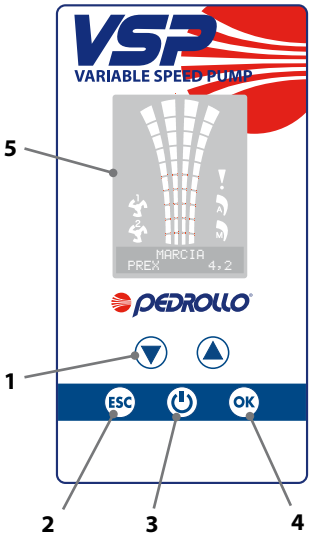
1. Scroll arrow keys ▼ ▲

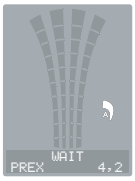
2. ESC menu exit key ESC

3. ON/OFF button ⏻

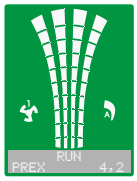
4. Confirmation button OK OK

5. 4-backlit display to indicate the operating status of the VSP





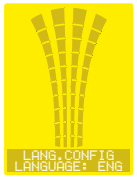
WHITE display EXPECTATION



Display VERDE START



RED display ERROR



YELLOW display (MENU OF PROGRAMMING

DISPLAY SYMBOLS

6. ALARM warning light !

7. AUTOMATIC operation indicator light A

8. MANUAL operation indicator light M

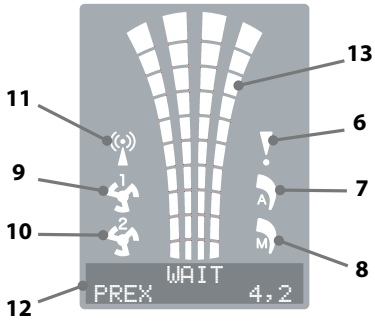
9. Indicator light for running pump no. 1 1

10. Indicator light for running pump no. 2 2 (if present)

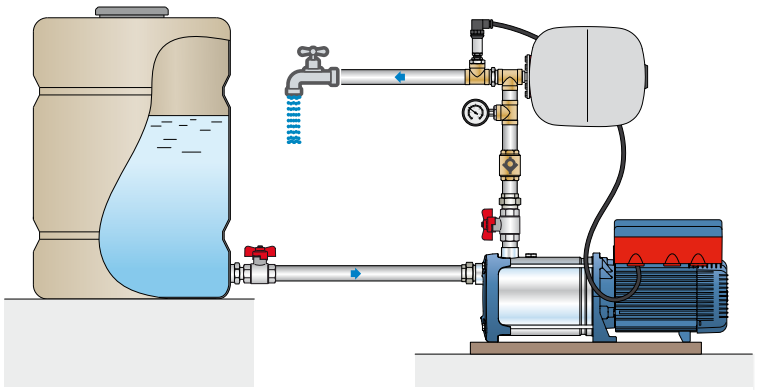
11. WI-FI active indicator light (if present)

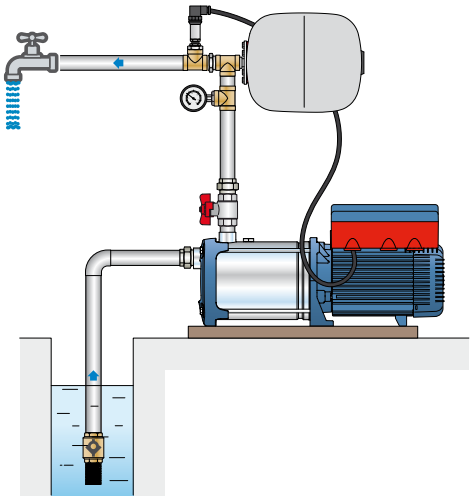
12. Alphanumeric display with 2 lines for visualization of: voltage, frequency, current, power factor (cosφ), pressure, level, system operating status, system anomalies.

13. VSP operating status LED lights



TYPICAL INSTALLATION

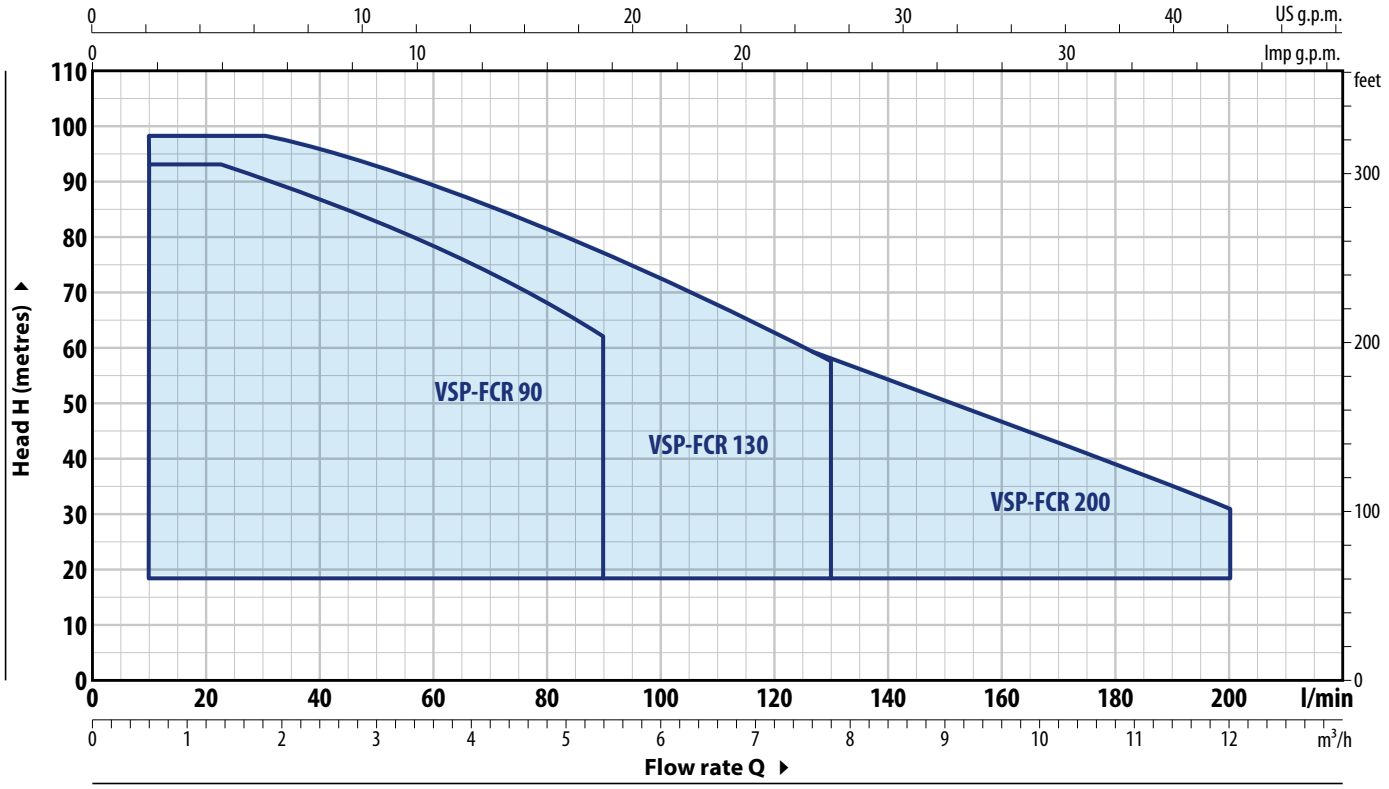




VSP – FCR

PERFORMANCE RANGE

50 Hz



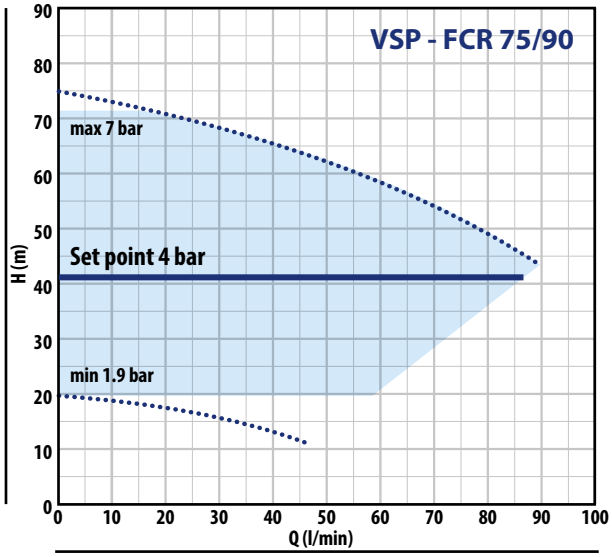
TECHNICAL DATA

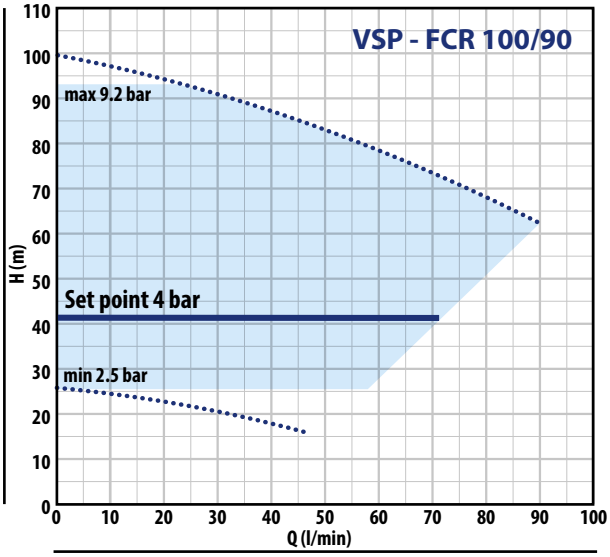
TYPE	POWER P2		ABSORPTION 230 V	PERFORMANCE Q	PERFORMANCE H	PERFORMANCE (ADJUSTABLE SET POINT) Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	kW	HP		litres/min	metres	bar	l/min	bar	l/min	bar	l/min
VSPm - FCR 75/90	1.5	2	9.8 A	5 – 90	71.5 – 43.5	1.9	5 – 60	**4.0**	**5 – 86**	7.0	5 – 16
VSPm - FCR 80/130	1.5	2	9.8 A	5 – 130	74.5 – 30	2.0	5 – 107	**4.0**	**5 – 107**	7.3	5 – 22
VSPm - FCR 70/200	1.5	2	9.8 A	5 – 200	65.5 – 21	1.8	5 – 180	**4.0**	**5 – 115**	6.4	5 – 36

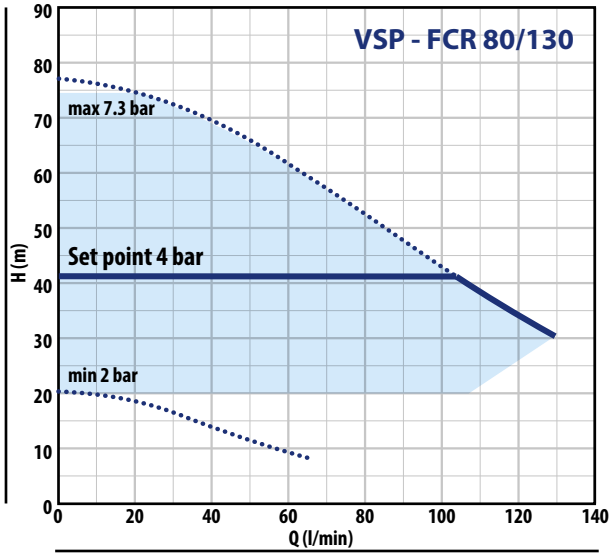
TYPE	POWER P2		ABSORPTION 400 V	PERFORMANCE Q	PERFORMANCE H	PERFORMANCE (ADJUSTABLE SET POINT) Set Point Min		Set Point Calibration Std		Set Point Max	
Three-phase	kW	HP		litres/min	metres	bar	l/min	bar	l/min	bar	l/min
VSP - FCR 75/90	1.5	2	3.6 A	5 – 90	71.5 – 43.5	1.9	5 – 60	**4.0**	**5 – 86**	7.0	5 – 16
VSP - FCR 100/90	2.2	3	4.9 A	5 – 90	94 – 62.5	2.5	5 – 58	**4.0**	**5 – 71**	9.2	5 – 20
VSP - FCR 80/130	1.5	2	3.6 A	5 – 130	74.5 – 30	2.0	5 – 107	**4.0**	**5 – 107**	7.3	5 – 22
VSP - FCR 105/130	2.2	3	4.9 A	5 – 130	98 – 57.5	2.7	5 – 90	**4.0**	**5 – 107**	9.6	5 – 30
VSP - FCR 70/200	1.5	2	3.6 A	5 – 200	65.5 – 21	1.8	5 – 180	**4.0**	**5 – 115**	6.4	5 – 36
VSP - FCR 95/200	2.2	3	4.9 A	5 – 200	87.5 – 42	2.4	5 – 178	**4.0**	**5 – 175**	8.6	5 – 32

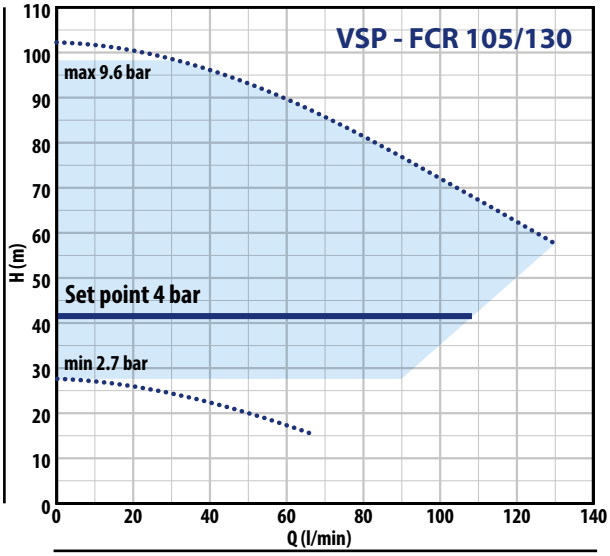
PERFORMANCE CURVES

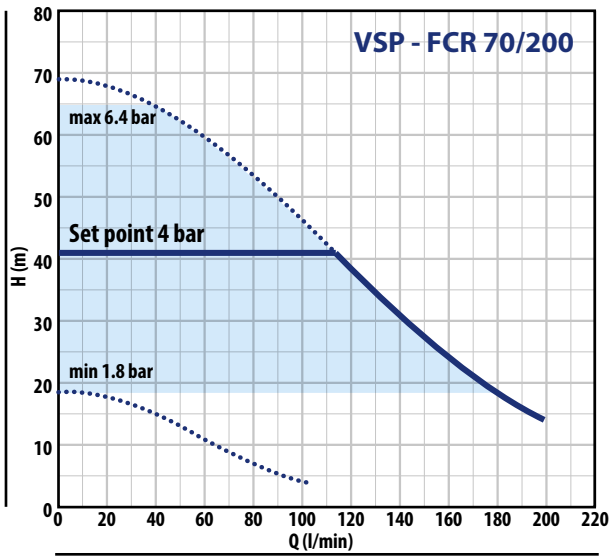
50 Hz

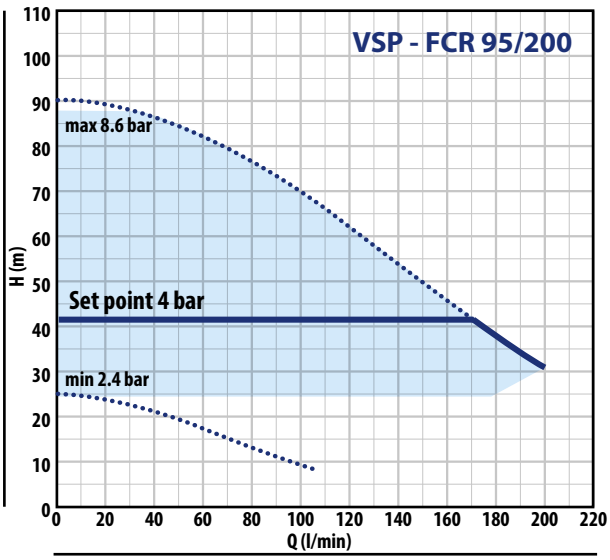






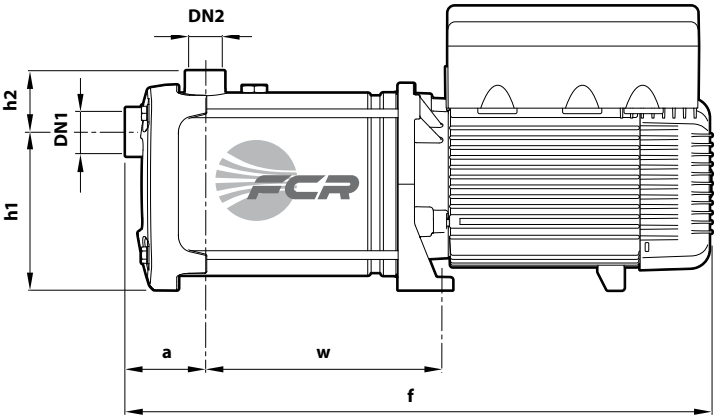


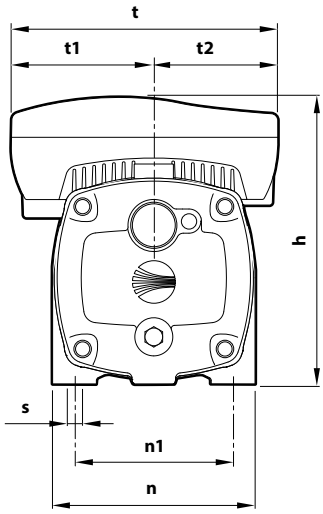




VSP – FCR

DIMENSIONS AND WEIGHT



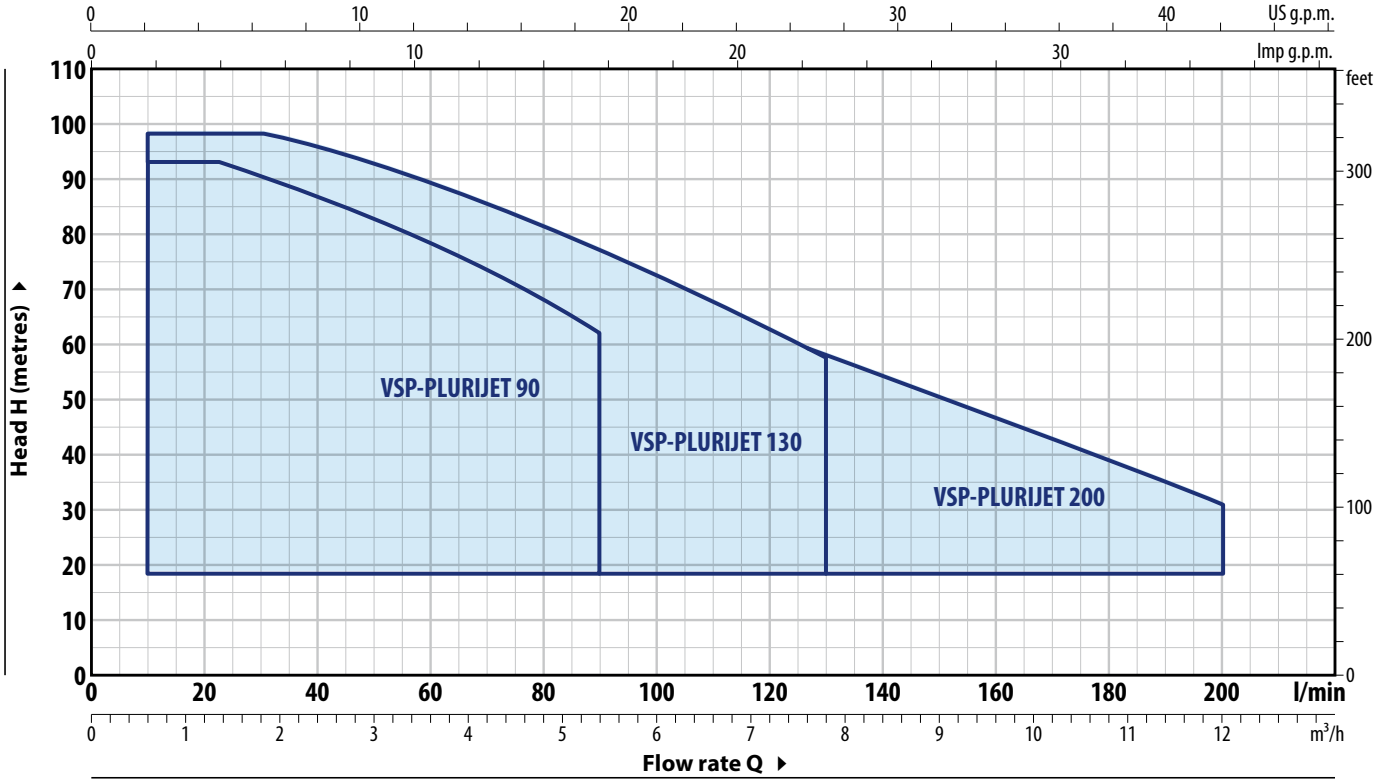


TYPE		PORTS		DIMENSIONS mm												kg	
Single-phase	**Three-phase**	DN1	DN2	f	a	w	h	h1	h2	t	t1	t2	n	n1	s	1~	3~
VSPm - FCR 75/90	**VSP - FCR 75/90**			445		139										21.7	21.7
–	**VSP - FCR 100/90**			471		165										–	21.9
VSPm - FCR 80/130	**VSP - FCR 80/130**			445		139										21.9	21.9
–	**VSP - FCR 105/130**	**1¼"**	**1"**	471	75	165	260	145	59	242	129	113	185	145	11	–	21.9
VSPm - FCR 70/200	**VSP - FCR 70/200**			445		139										24.1	23.9
–	**VSP - FCR 95/200**			471		165										–	24.0

VSP – PLURIJET

PERFORMANCE RANGE

50 Hz



TECHNICAL DATA

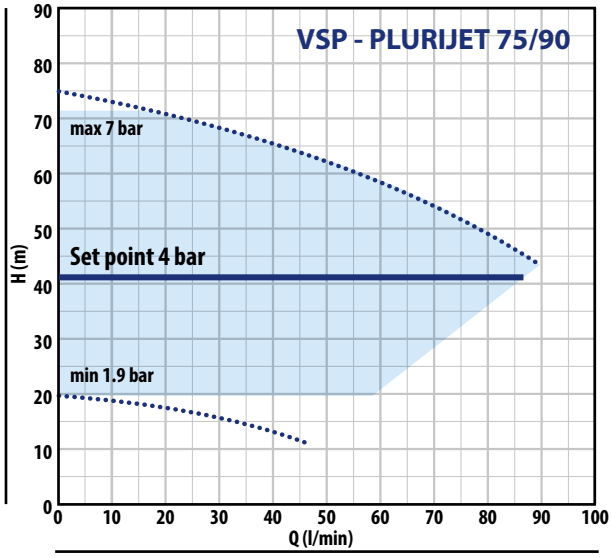
TYPE	POWER P2		ABSORPTION 230 V	PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
				Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	kW	HP		litres/min	metres	bar	l/min	bar	l/min	bar	l/min
VSPm - PLURIJET 75/90	1.5	2	9.8 A	5 – 90	71.5 – 43.5	1.9	5 – 60	**4.0**	**5 – 86**	7.0	5 – 16
VSPm - PLURIJET 80/130	1.5	2	9.8 A	5 – 130	74.5 – 30	2.0	5 – 107	**4.0**	**5 – 107**	7.3	5 – 22
VSPm - PLURIJET 70/200	1.5	2	9.8 A	5 – 200	65.5 – 21	1.8	5 – 180	**4.0**	**5 – 115**	6.4	5 – 36

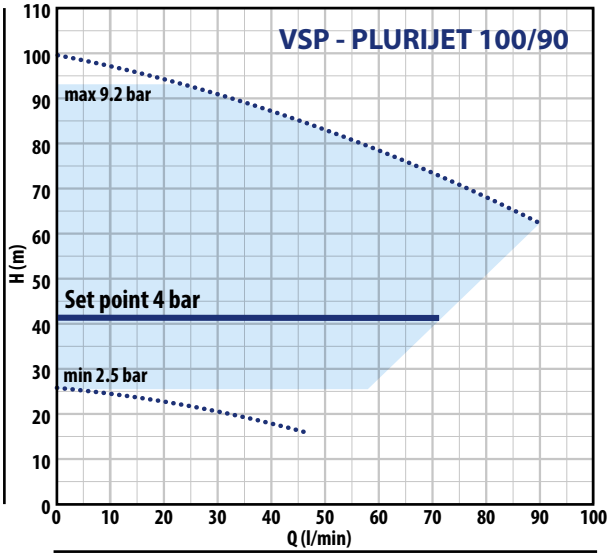
TYPE	POWER P2		ABSORPTION 400 V	PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
				Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Three-phase	kW	HP		litres/min	metres	bar	l/min	bar	l/min	bar	l/min
VSP - PLURIJET 75/90	1.5	2	3.6 A	5 – 90	71.5 – 43.5	1.9	5 – 60	**4.0**	**5 – 86**	7.0	5 – 16
VSP - PLURIJET 100/90	2.2	3	4.9 A	5 – 90	94 – 62.5	2.5	5 – 58	**4.0**	**5 – 71**	9.2	5 – 20
VSP - PLURIJET 80/130	1.5	2	3.6 A	5 – 130	74.5 – 30	2.0	5 – 107	**4.0**	**5 – 107**	7.3	5 – 22
VSP - PLURIJET 105/130	2.2	3	4.9 A	5 – 130	98 – 57.5	2.7	5 – 90	**4.0**	**5 – 107**	9.6	5 – 30
VSP - PLURIJET 70/200	1.5	2	3.6 A	5 – 200	65.5 – 21	1.8	5 – 180	**4.0**	**5 – 115**	6.4	5 – 36
VSP - PLURIJET 95/200	2.2	3	4.9 A	5 – 200	87.5 – 42	2.4	5 – 178	**4.0**	**5 – 175**	8.6	5 – 32

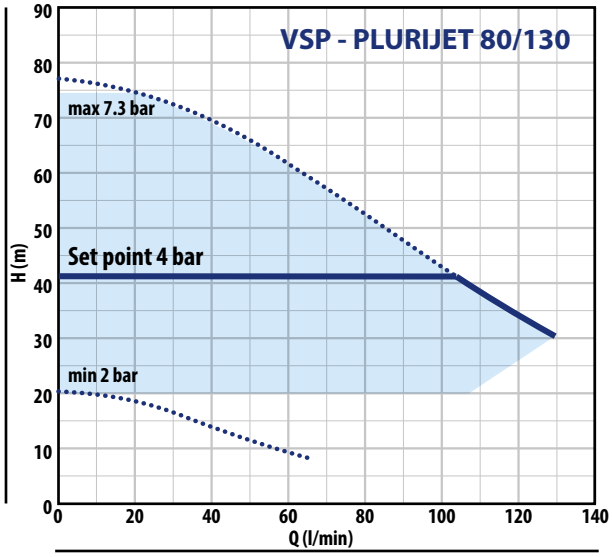
VSP – PLURIJET

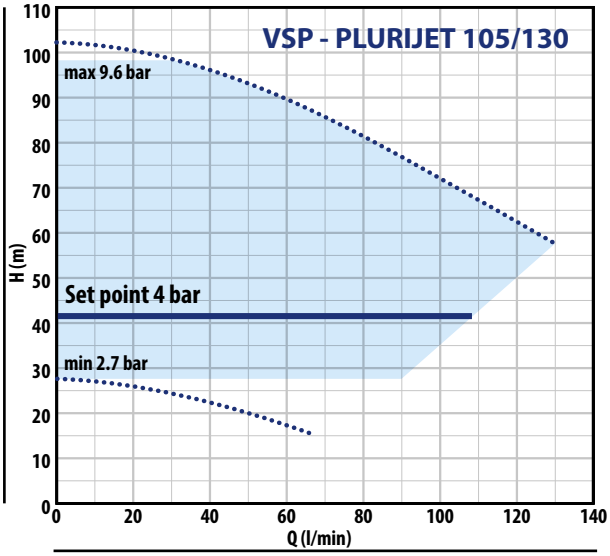
PERFORMANCE CURVES

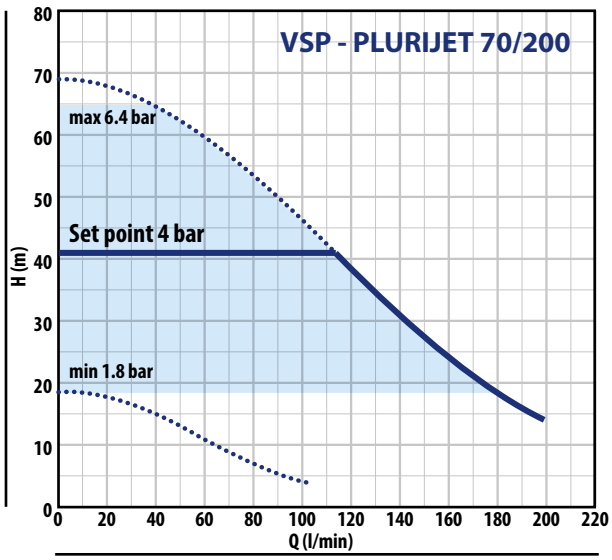
50 Hz

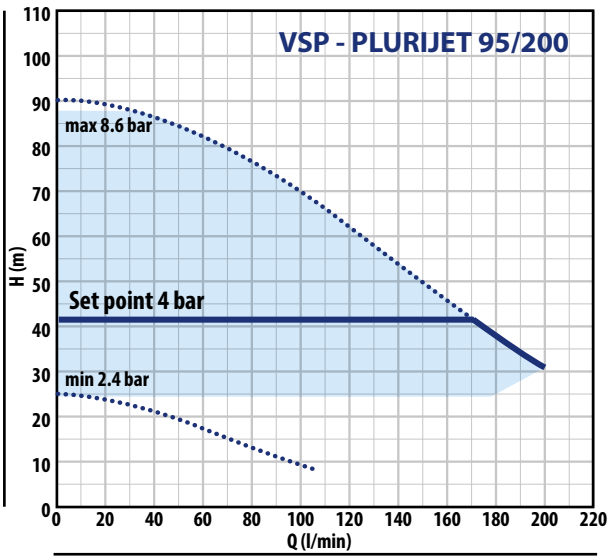




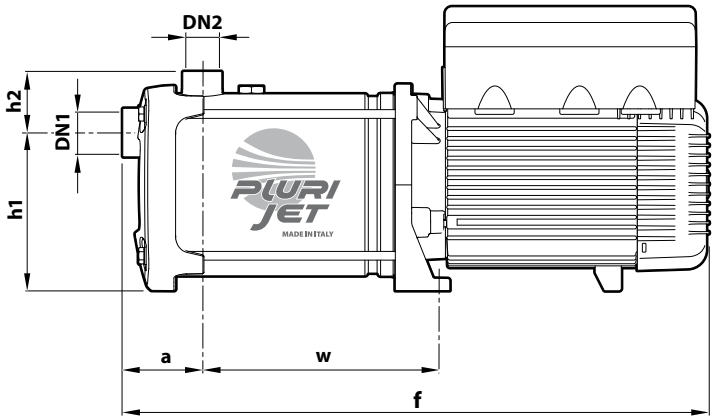


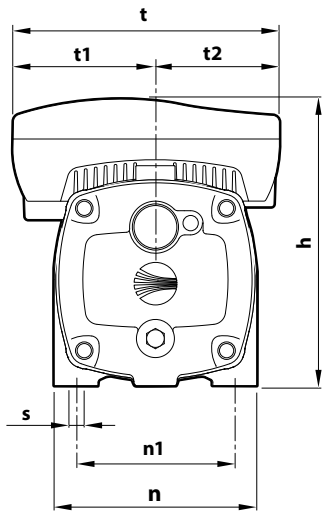






DIMENSIONS AND WEIGHT



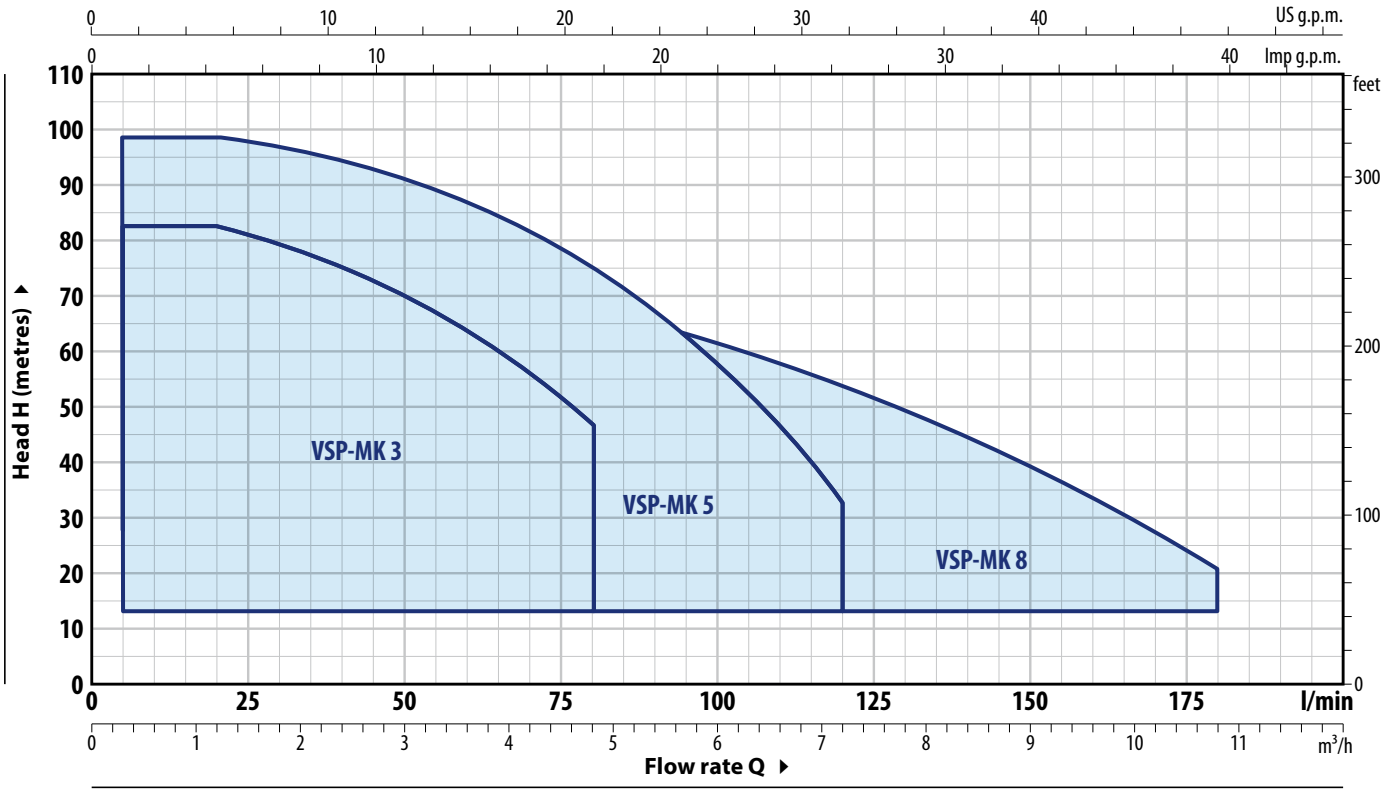


TYPE		PORTS		DIMENSIONS mm											kg	
Single-phase	**Three-phase**	DN1	DN2	f	a	w	h	h1	h2	t	t1	t2	n	n1	s	1~	3~
VSPm - PLURIJET 75/90	**VSP - PLURIJET 75/90**	**1¼"**	**1"**	497	75	191	260	145	59	242	129	113	185	145	11	21.7	21.7
–	**VSP - PLURIJET 100/90**			523		217										–	23.9
VSPm - PLURIJET 80/130	**VSP - PLURIJET 80/130**			497		191										21.9	21.9
–	**VSP - PLURIJET 105/130**			523		217										–	24.1
VSPm - PLURIJET 70/200	**VSP - PLURIJET 70/200**			497		191										21.9	21.9
–	**VSP - PLURIJET 95/200**			523		217										–	24.0

VSP – MK

PERFORMANCE RANGE

50 Hz



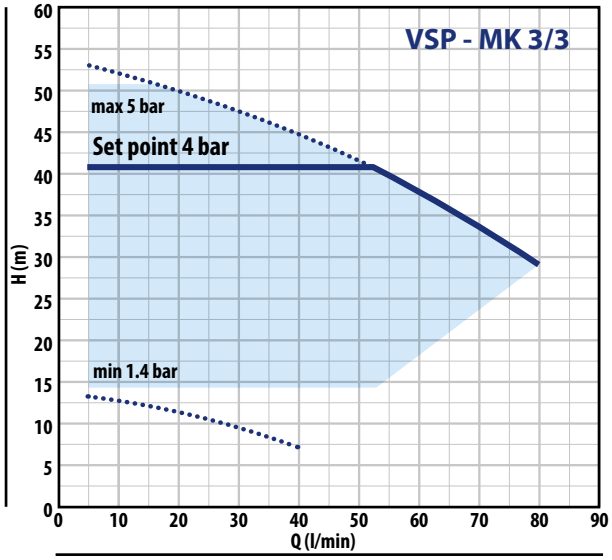
TECHNICAL DATA

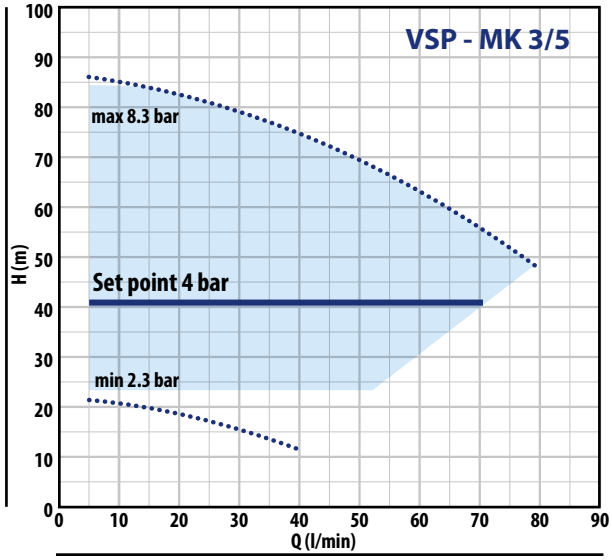
TYPE	POWER P2		ABSORPTION 230 V	PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
				Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	kW	HP		litres/min	metres	bar	l/min	bar	l/min	bar	l/min
VSPm - MK 3/3	0.75	1	6.2 A	10 – 80	52 – 29	1.4	5 – 52	**4.0**	5 – **52**	5.0	5 – 14
VSPm - MK 3/5	1.1	1.5	7.8 A	10 – 80	85 – 48	2.3	5 – 52	**4.0**	5 – **72**	8.3	5 – 13
VSPm - MK 3/6	1.5	2	9.0 A	10 – 80	101 – 56	2.7	5 – 53	**4.0**	5 – **65**	9.7	5 – 19
VSPm - MK 5/4	0.75	1	6.4 A	20 – 120	55 – 20	1.5	5 – 101	**4.0**	5 – **82**	5.3	5 – 26
VSPm - MK 5/5	1.1	1.5	6.5 A	20 – 120	69 – 21.5	1.8	5 – 108	**4.0**	5 – **99**	6.7	5 – 13
VSPm - MK 5/7	1.5	2	9.0 A	20 – 120	95 – 30	2.6	5 – 109	**4.0**	5 – **111**	9.3	5 – 16
VSPm - MK 8/4	1.1	1.5	8.3 A	40 – 180	53 – 12	1.4	5 – 175	**4.0**	5 – **115**	5.2	5 – 30
VSPm - MK 8/5	1.5	2	10.0 A	40 – 180	68 – 15.5	1.8	5 – 175	**4.0**	5 - **138**	6.6	5 – 45

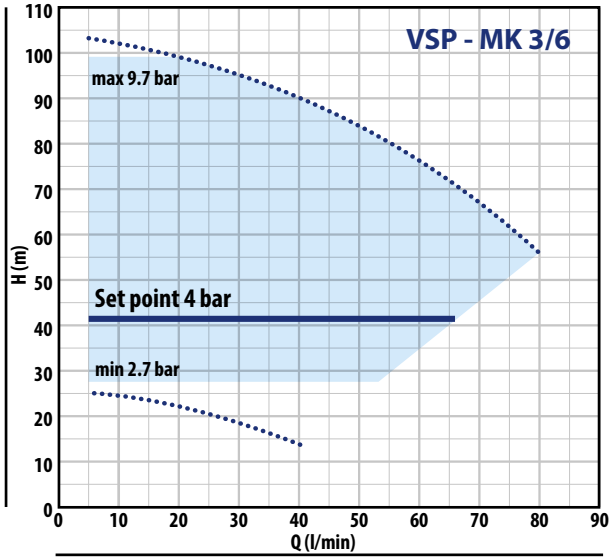
TYPE	POWER P2		ABSORPTION 400 V	PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
				Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Three-phase	kW	HP		litres/min	metres	bar	l/min	bar	l/min	bar	l/min
VSP - MK 3/3	0.75	1	1.7 A	10 – 80	52 – 29	1.4	5 – 52	**4.0**	5 – **52**	5.0	5 – 14
VSP - MK 3/5	1.1	1.5	2.3 A	10 – 80	85 – 48	2.3	5 – 52	**4.0**	5 – **72**	8.3	5 – 13
VSP - MK 3/6	1.5	2	2.8 A	10 – 80	101 – 56	2.7	5 – 53	**4.0**	5 – **65**	9.7	5 – 19
VSP - MK 5/4	0.75	1	2.0 A	20 – 120	55 – 20	1.5	5 – 101	**4.0**	5 – **82**	5.3	5 – 26
VSP - MK 5/5	1.1	1.5	2.2 A	20 – 120	69 – 21.5	1.8	5 – 108	**4.0**	5 – **99**	6.7	5 – 13
VSP - MK 5/7	1.5	2	3.0 A	20 – 120	95 – 30	2.6	5 – 109	**4.0**	5 – **111**	9.3	5 – 16
VSP - MK 5/8	2.2	3	3.5 A	20 – 120	108 – 34	2.9	5 – 109	**4.0**	5 – **115**	10.6	5 – 14
VSP - MK 8/4	1.1	1.5	2.8 A	40 – 180	53 – 12	1.4	5 – 175	**4.0**	5 – **115**	5.2	5 – 30
VSP - MK 8/5	1.5	2	3.4 A	40 – 180	68 – 15.5	1.8	5 – 175	**4.0**	5 - **138**	6.6	5 – 45
VSP - MK 8/6	2.2	3	3.8 A	40 – 180	81 – 18.5	2.2	5 – 175	**4.0**	5 – **149**	8.0	5 – 22

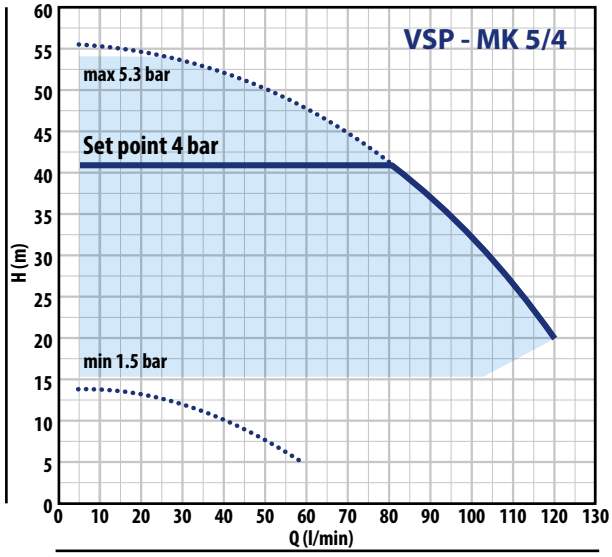
PERFORMANCE CURVES

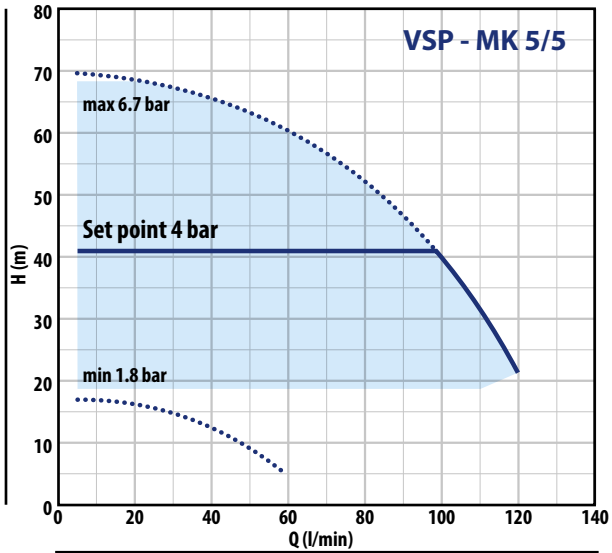
50 Hz

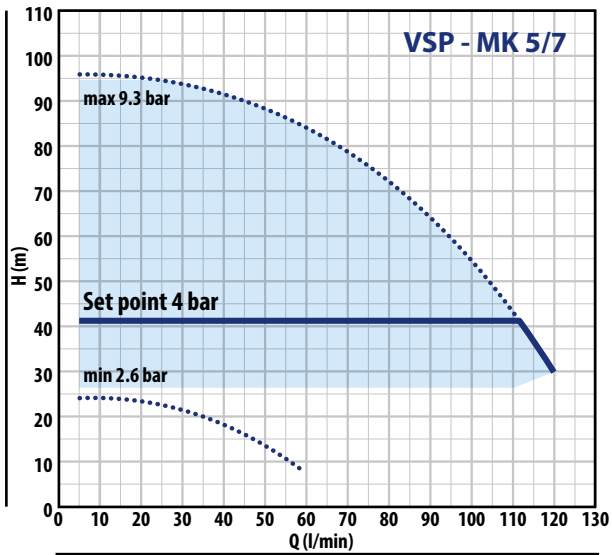






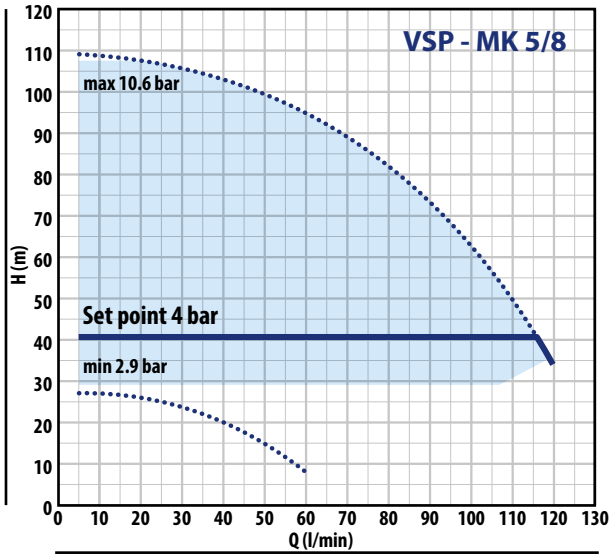


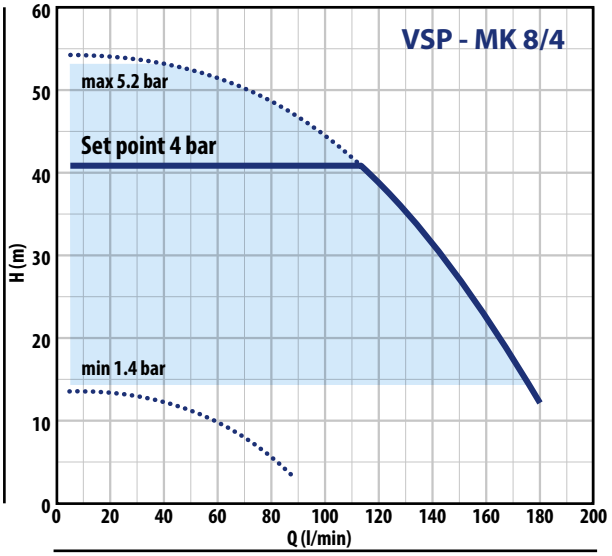


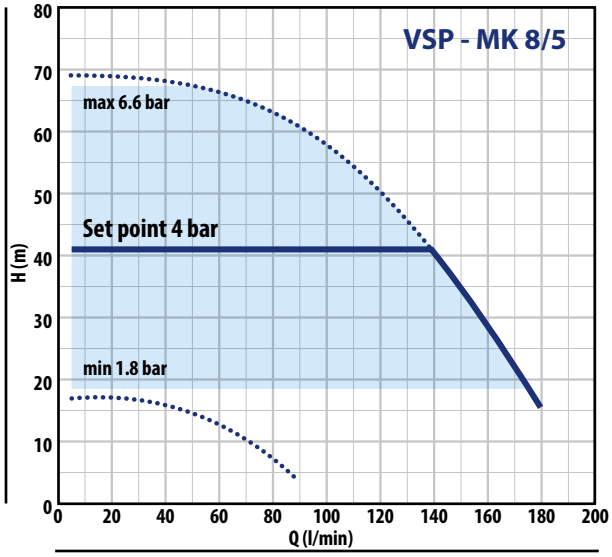


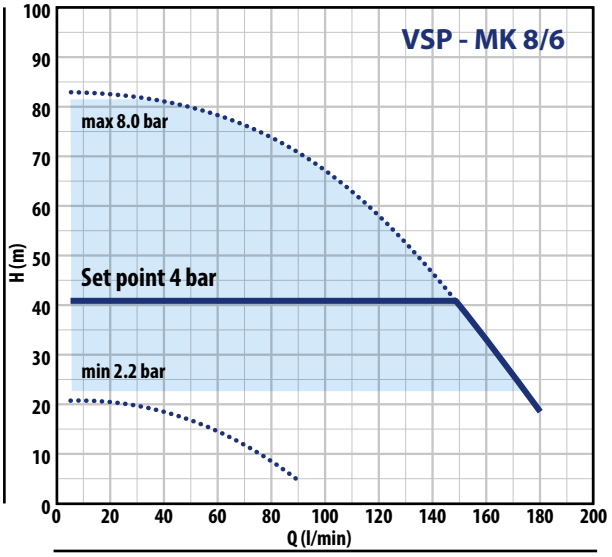
PERFORMANCE CURVES

50 Hz

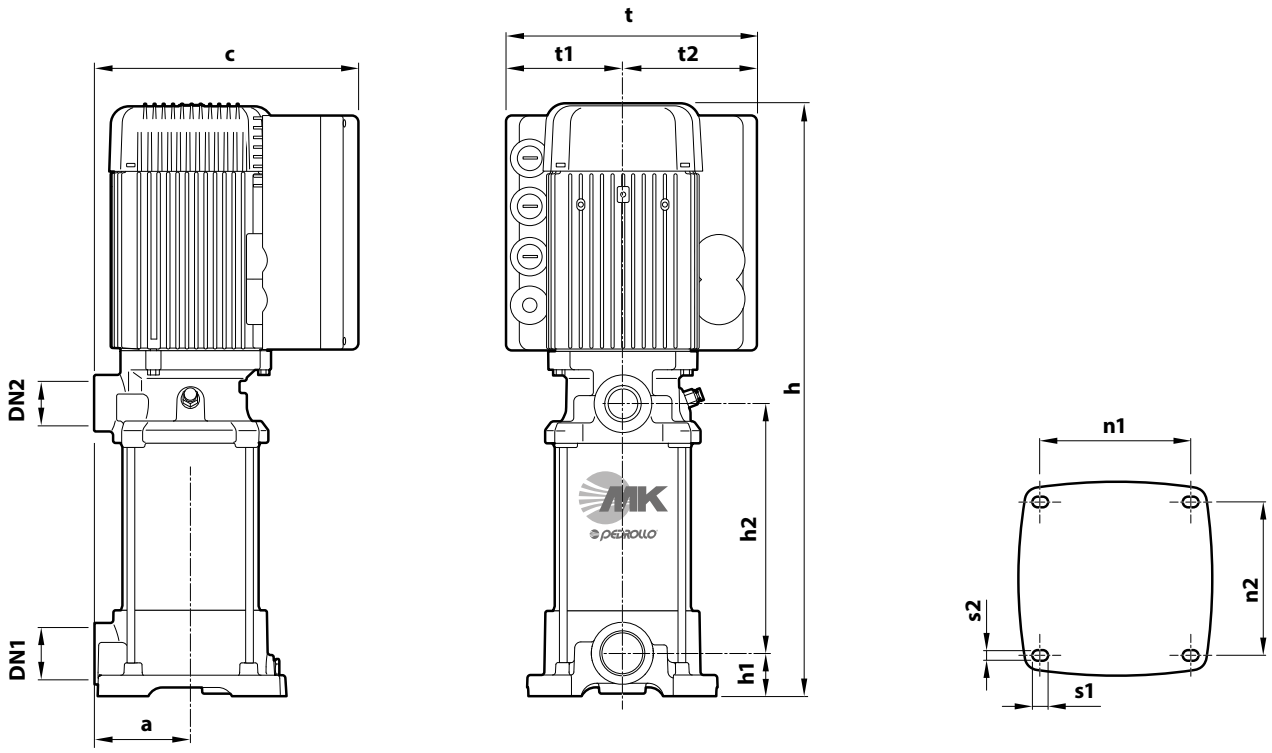








DIMENSIONS AND WEIGHT

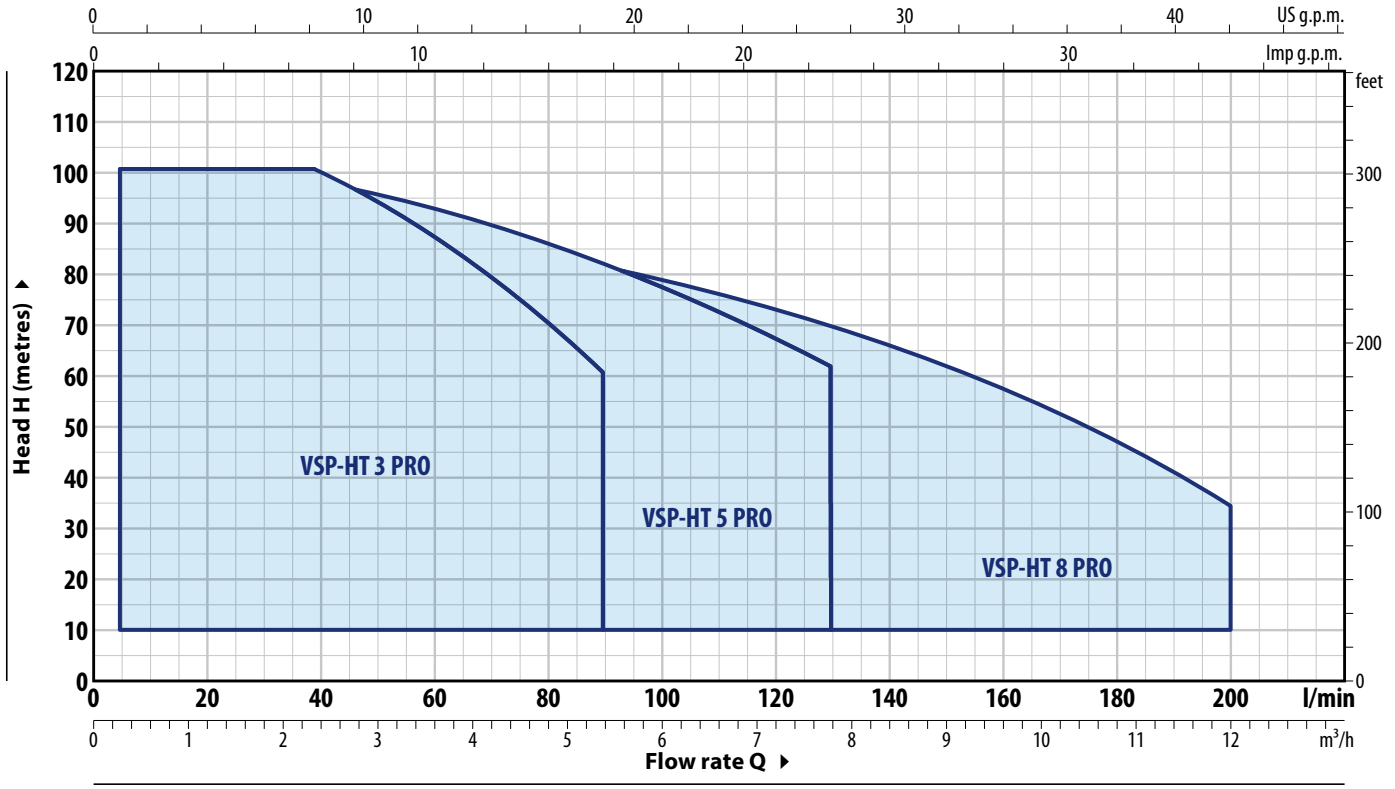


TYPE		PORTS		DIMENSIONS mm												kg	
Single-phase	**Three-phase**	DN1	DN2	a	c	h	h1	h2	t	t1	t2	n1	n2	S1	s2	1~	3~
VSPm - MK 3/3	**VSP - MK 3/3**					447		132								23.3	23.3
VSPm - MK 3/5	**VSP - MK 3/5**					501		186								25.5	25.5
VSPm - MK 3/6	**VSP - MK 3/6**					528		213								27.3	27.3
VSPm - MK 5/4	**VSP - MK 5/4**					474		159								23.8	23.8
VSPm - MK 5/5	**VSP - MK 5/5**					501		186								25.2	25.2
VSPm - MK 5/7	**VSP - MK 5/7**	**1¼"**	**1"**	93	255	555	41	240	242	113	129	143	146	14.5	10	28.3	28.3
–	**VSP - MK 5/8**					602		267								–	28.6
VSPm - MK 8/4	**VSP - MK 8/4**					474		159								26.6	26.6
VSPm - MK 8/5	**VSP - MK 8/5**					501		186								27.0	27.0
–	**VSP - MK 8/6**					548		213								–	29.4

VSP – HT-PRO

PERFORMANCE RANGE

50 Hz



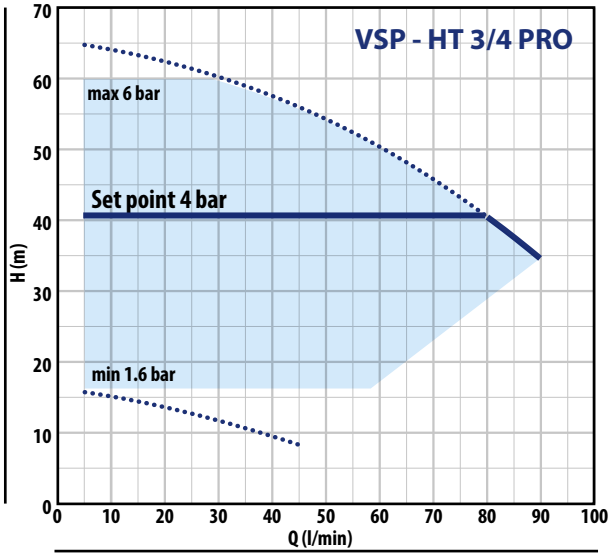
TECHNICAL DATA

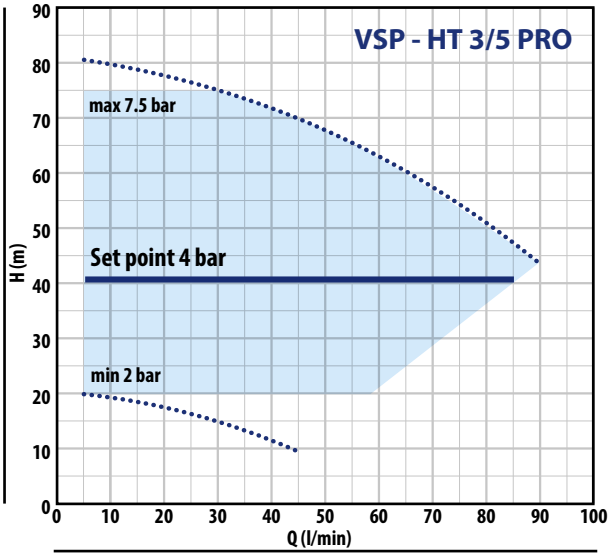
TYPE	POWER P2		ABSORPTION 230 V	PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
				Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Single-phase	kW	HP		litres/min	metres	bar	l/min	bar	l/min	bar	l/min
VSPm - HT 3/4 PRO	0.75	1	7.5 A	5 – 90	65 – 35	1.6	5 – 59	**4.0**	5 – **73**	5.9	5 – 19
VSPm - HT 3/5 PRO	1.1	1.5	9.0 A	5 – 90	80 – 44	2.0	5 – 62	**4.0**	5 – **86**	7.4	5 – 22
VSPm - HT 3/6 PRO	1.5	2	10.5 A	5 – 90	96 – 52	2.4	5 – 62	**4.0**	5 – **84**	8.8	5 – 20
VSPm - HT 5/2 PRO	0.75	1	7.0 A	5 – 130	35 – 20.5	0.8	5 – 83	**2.0**	5 – **114**	3.1	5 – 22
VSPm - HT 5/3 PRO	1.1	1.5	8.0 A	5 – 130	51.5 – 31	1.3	5 – 91	**4.0**	5 – **71**	4.8	5 – 14
VSPm - HT 5/4 PRO	1.5	2	9.5 A	5 – 130	68.5 – 41	1.7	5 – 90	**4.0**	5 – **108**	6.1	5 – 26
VSPm - HT 8/3 PRO	1.1	1.5	8.5 A	20 – 200	46.5 – 17	1.1	5 – 182	**4.0**	5 – **58**	4.1	5 – 28
VSPm - HT 8/4 PRO	1.5	2	10.0 A	20 – 200	62 – 23	1.5	5 – 180	**4.0**	5 – **128**	5.4	5 – 48

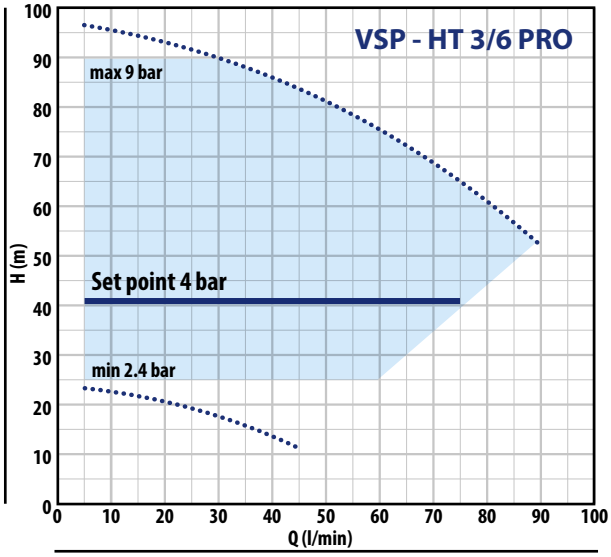
TYPE	POWER P2		ABSORPTION 400 V	PERFORMANCE		PERFORMANCE (ADJUSTABLE SET POINT)					
				Q	H	Set Point Min		Set Point Calibration Std		Set Point Max	
Three-phase	kW	HP		litres/min	metres	bar	l/min	bar	l/min	bar	l/min
VSP - HT 3/4 PRO	0.75	1	2.5 A	5 – 90	65 – 35	1.6	5 – 59	**4.0**	5 – **73**	5.9	5 – 19
VSP - HT 3/5 PRO	1.1	1.5	3.0 A	5 – 90	80 – 44	2.0	5 – 62	**4.0**	5 – **86**	7.4	5 – 22
VSP - HT 3/6 PRO	1.5	2	3.5 A	5 – 90	96 – 52	2.4	5 – 62	**4.0**	5 – **84**	8.8	5 – 20
VSP - HT 3/7 PRO	1.8	2.5	4.2 A	5 – 90	112 – 61	2.8	5 – 62	**4.0**	5 – **76**	10.2	5 – 25
VSP - HT 5/2 PRO	0.75	1	2.3 A	5 – 130	35 – 20.5	0.8	5 – 83	**2.0**	5 – **114**	3.1	5 – 22
VSP - HT 5/3 PRO	1.1	1.5	2.4 A	5 – 130	51.5 – 31	1.3	5 – 91	**4.0**	5 – **71**	4.8	5 – 14
VSP - HT 5/4 PRO	1.5	2	3.2 A	5 – 130	68.5 – 41	1.7	5 – 90	**4.0**	5 – **108**	6.1	5 – 26
VSP - HT 5/5 PRO	1.8	2.5	4.0 A	5 – 130	85 – 51.5	2.1	5 – 91	**4.0**	5 – **128**	7.5	5 – 42
VSP - HT 5/6 PRO	2.2	3	4.3 A	5 – 130	103 – 62	2.6	5 – 92	**4.0**	5 – **118**	9.3	5 – 25
VSP - HT 8/3 PRO	1.1	1.5	3.0 A	20 – 200	46.5 – 17	1.1	5 – 182	**4.0**	5 – **58**	4.1	5 – 28
VSP - HT 8/4 PRO	1.5	2	3.4 A	20 – 200	62 – 23	1.5	5 – 180	**4.0**	5 – **128**	5.4	5 – 48
VSP - HT 8/5 PRO	1.8	2.5	4.0 A	20 – 200	77.5 – 28.5	1.8	5 – 181	**4.0**	5 – **156**	6.7	5 – 44
VSP - HT 8/6 PRO	2.2	3	4.5 A	20 – 200	93 – 34.5	2.3	5 – 186	**4.0**	5 – **179**	8.2	5 – 32

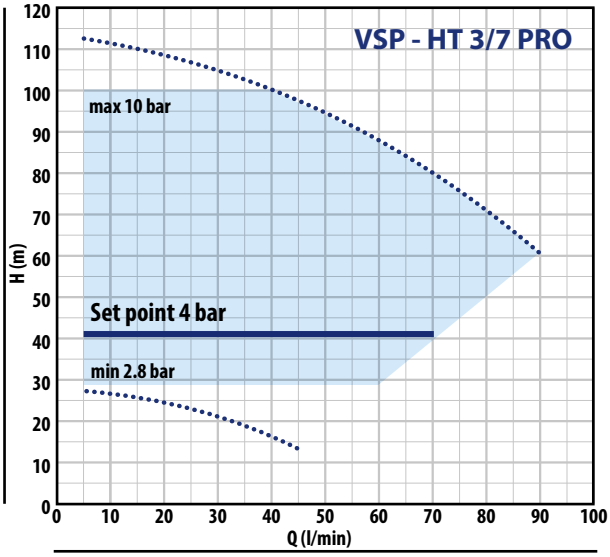
PERFORMANCE CURVES

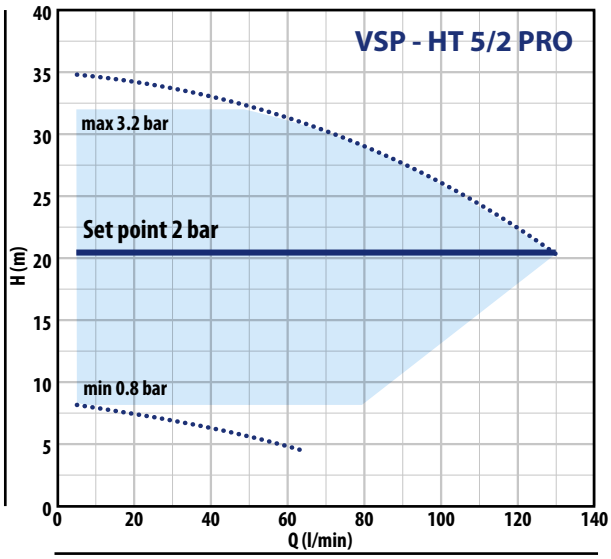
50 Hz

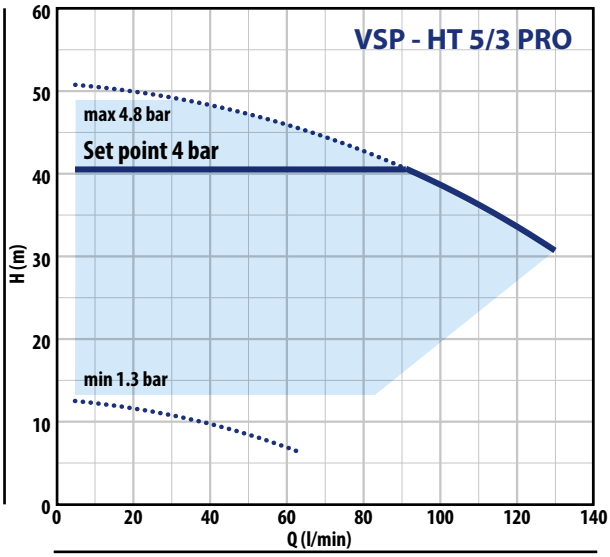








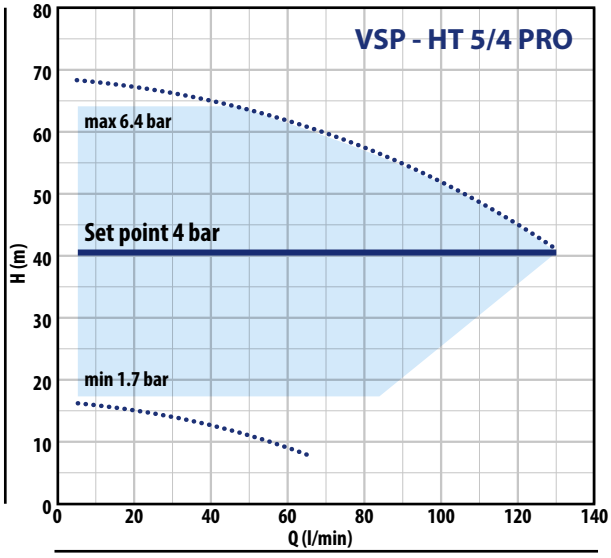


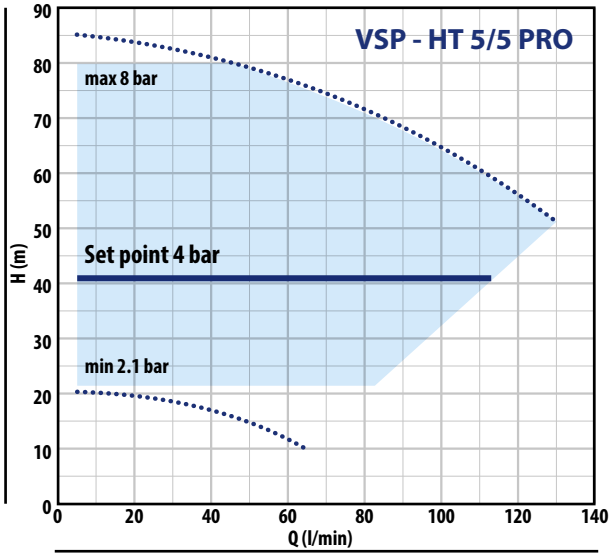


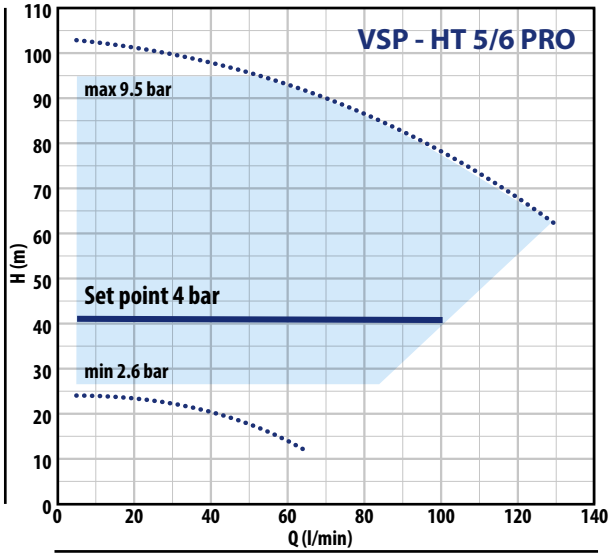
VSP – HT-PRO

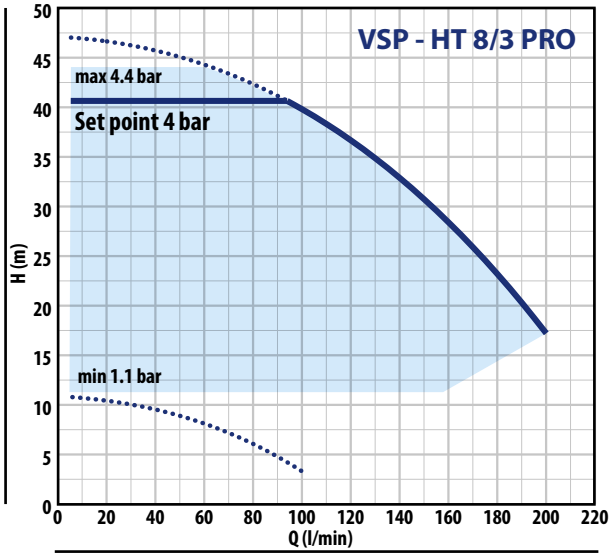
PERFORMANCE CURVES

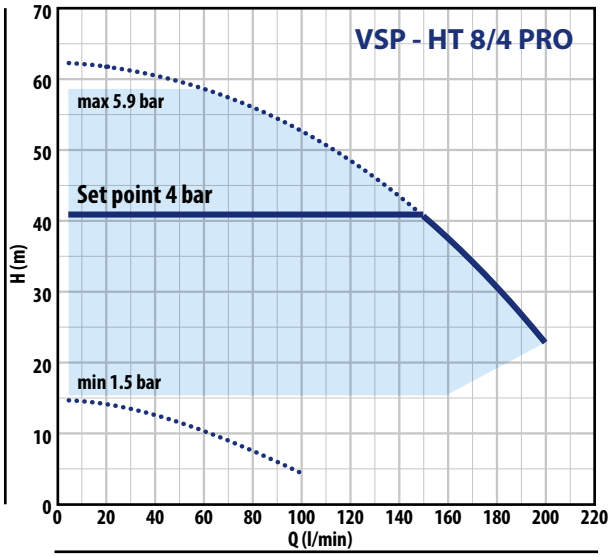
50 Hz

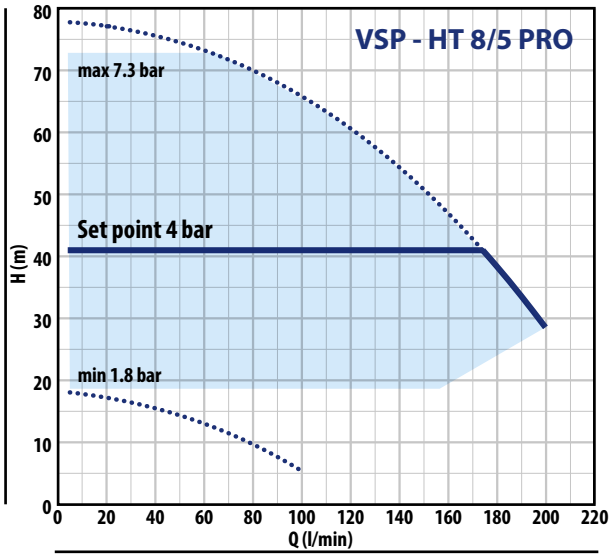






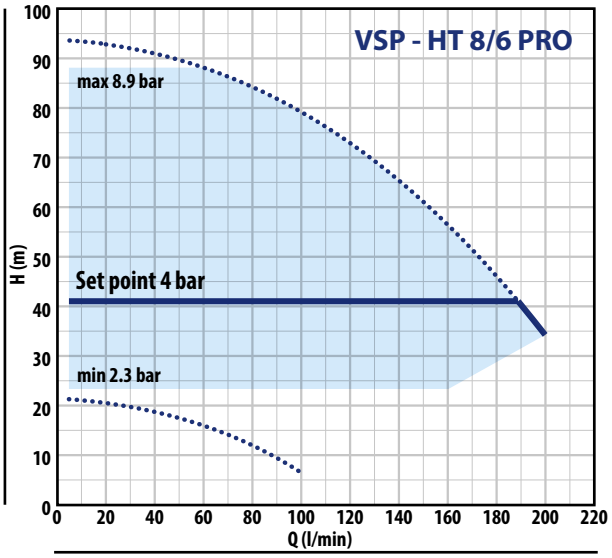




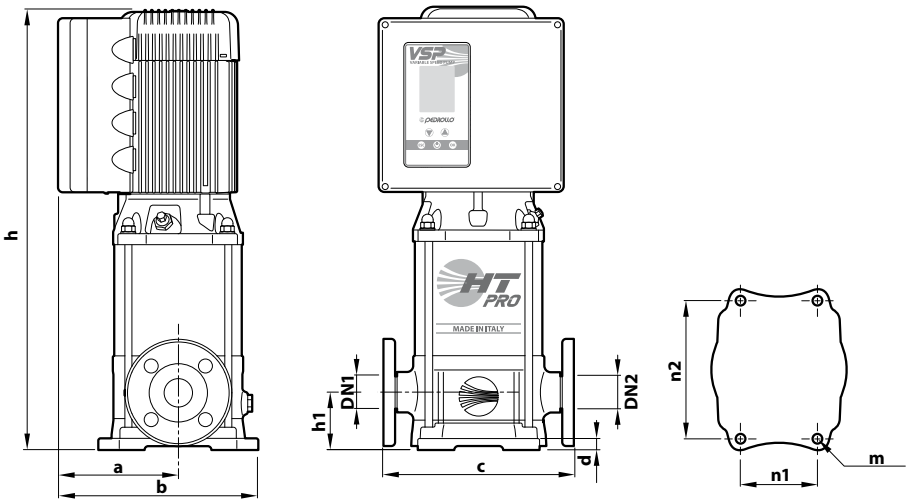


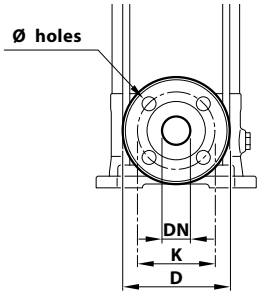
PERFORMANCE CURVES

50 Hz



DIMENSIONS AND WEIGHT





TYPE VSP	DN mm	D mm	K mm	Ø mm
HT 3	**25**	115	85	14
HT 5	**32**	140	100	18
HT 8	**40**	150	110	

TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	h	h1	n1	n2	m	**1~**	**3~**
VSPm - HT 3/4 PRO	**VSP - HT 3/4 PRO**	**1"**	**1"**	164	269	212	15	509	75	100	180	Ø 13	35.3	34.8
VSPm - HT 3/5 PRO	**VSP - HT 3/5 PRO**							535					35.5	35.0
VSPm - HT 3/6 PRO	**VSP - HT 3/6 PRO**							561					36.2	37.1
–	**VSP - HT 3/7 PRO**							607					–	41.2
VSPm - HT 5/2 PRO	**VSP - HT 5/2 PRO**	**1¼"**	**1¼"**					457					33.2	33.2
VSPm - HT 5/3 PRO	**VSP - HT 5/3 PRO**							483					33.4	33.4
VSPm - HT 5/4 PRO	**VSP - HT 5/4 PRO**							509					35.3	35.4
–	**VSP - HT 5/5 PRO**							555					–	39.1
–	**VSP - HT 5/6 PRO**							581					–	40.1
VSPm - HT 8/3 PRO	**VSP - HT 8/3 PRO**	**1½"**	**1½"**			240		488	80				33.9	33.9
VSPm - HT 8/4 PRO	**VSP - HT 8/4 PRO**							514					35.8	35.9
–	**VSP - HT 8/5 PRO**							560					–	39.4
–	**VSP - HT 8/6 PRO**							586					–	40.2

VSP2 Variable speed pressure units

Clean water

Domestic use

Civil use



INSTALLATION AND USE

VSP2 is a pre-assembled system intended for connecting to water mains or a primary collection tank. It provides water supply and pressurization and is ideal for residential, commercial, and public buildings. It's also suitable for hotels, park irrigation, as well as industrial water handling and treatment.

VSP2 is compatible with clean water and aqueous solutions that do not chemically or mechanically harm the materials used and are free from abrasive or fibrous substances.

PRODUCT DESCRIPTION

VSP2 is a pressurization system comprising two pumping units connected in parallel. Integrated inverter devices automatically adjust their operation to varying water demands while ensuring constant pressure.

When system pressure drops due to water withdrawal, the first **VSP** unit starts working to provide the necessary water flow rate, maintaining pressure. Once the maximum rotation speed is reached, the second **VSP** unit starts to fulfill the system's water demand.

COMPONENTS

※ **TWO VSP PUMPING UNITS** connected in parallel via suction and discharge manifolds. Each unit is equipped with ball valves on the supply and suction side, non-return valves on the suction side (FCR, PLURIJET, MK) or on the supply side (HT-PRO). The electronics integrated in VSP can manage the alternating operation of individual units.

VSP2 is designed to protect the system from:

※ dry running
※ overvoltage and undervoltage
※ combustion chamber

※ **BASE** made of metal profile and equipped with adjustable vibration-damping feet.

※ **PRESSURE TRANSDUCER** (4-20mA) installed on the supply manifold, which enables command and control of the pressurization unit.

※ **CONTROL PANEL** with thermal-magnetic circuit breakers for three-phase versions and thermal-magnetic circuit breakers for single-phase versions.



VSP2 – FCR

Pressurization units comprise two multistage centrifugal pumps with an integrated inverter in the motor, capable of maintaining constant pressure in the system. They are used for water supply in residential, commercial, and public buildings, as well as for garden irrigation and general clean water movement.

TECHNICAL DATA

- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature between **-5 °C** and **+40 °C**
- Max. pressure in the pump body **10 bar**
- Continuous running duty **S1**



VSP2 – PLURIJET

Pressurization units comprise two self-priming multistage centrifugal pumps with an integrated inverter in the motor, capable of maintaining a constant pressure in the system. They are utilized for water supply, including from underground reservoirs, in residential, commercial, and public buildings, as well as for garden irrigation and general clean water movement.

TECHNICAL DATA

- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature between **-5 °C** and **+40 °C**
- Max. pressure in the pump body **10 bar**
- Continuous running duty **S1**



VSP2 – MK

Pressurization units comprise two vertical multistage pumps with an integrated inverter in the motor, capable of maintaining a constant pressure in the system. They are used for water supply in residential, commercial, and public buildings, as well as for handling clean water.

TECHNICAL DATA

- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature between **-5 °C** and **+40 °C**
- Max. pressure in pump body **11 bar**
- Continuous running duty **S1**



VSP2 - HT PRO

Pressurization units comprise two vertical multistage pumps with integrated inverters in the motor to maintain consistent pressure in the system. They're commonly used for water supply in commercial and public buildings, irrigation in parks and athletic fields, and for industrial water treatment.

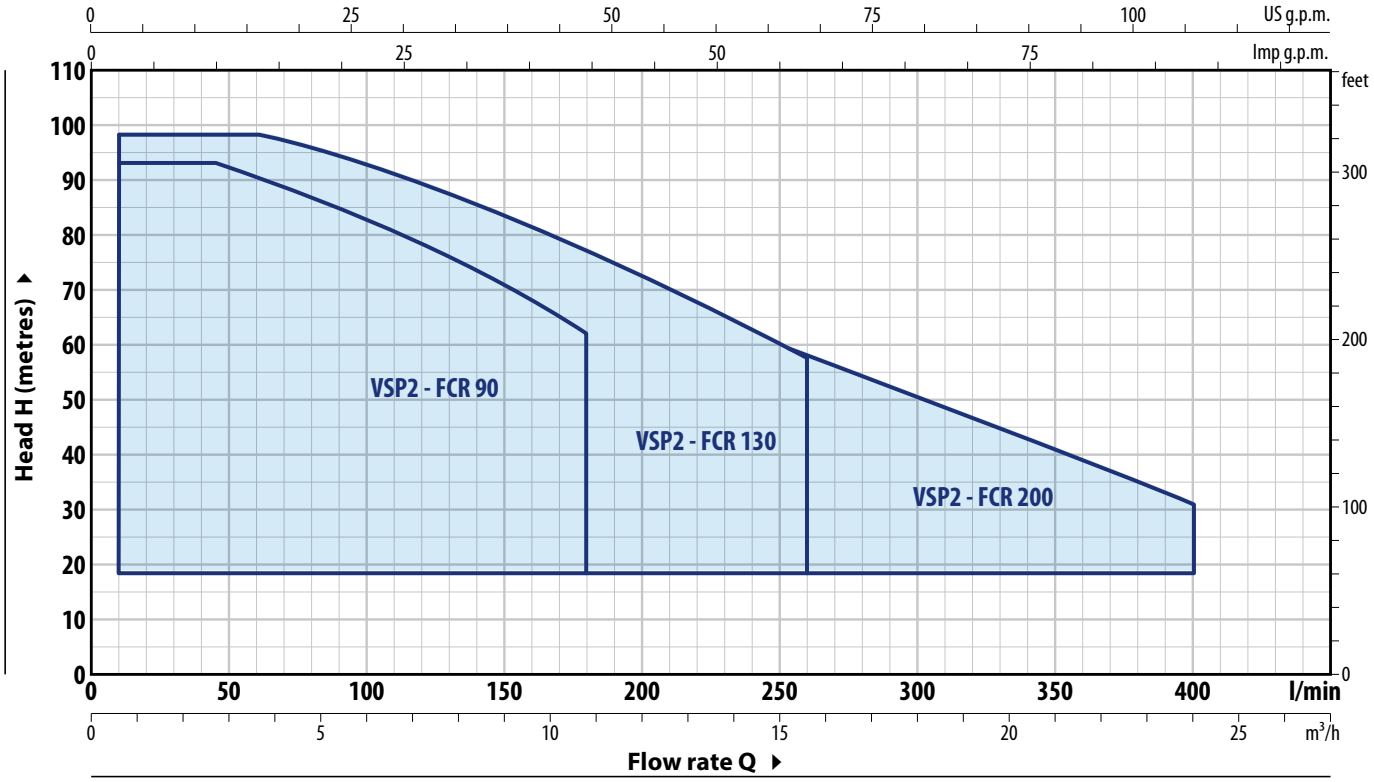
TECHNICAL DATA

- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature between **-5 °C** and **+40 °C**
- Max. pressure in pump body **11 bar**
- Continuous running duty **S1**

VSP2 – FCR

FIELD AND PERFORMANCE DATA

50 Hz



TYPE	POWER P2		Q	m³/h	0	0.6	1.2	2.4	4.8	6	7.2	9.6	10.8	12	14.4	15.6	18	20.4	24
Single-phase	**kW**	**HP**		l/min	**0**	**10**	**20**	**40**	**80**	**100**	**120**	**160**	**180**	**200**	**240**	**260**	**300**	**340**	**400**
VSP2m - FCR 75/90	2x1.5	2x2			71.5	71.5	71.5	71	66	63	59.5	49.5	43.5						
VSP2m - FCR 80/130	2x1.5	2x2	**H**	metres	74.5	74.5	74.5	74.5	69.5	66	62	52.5	48	43	34	30			
VSP2m - FCR 70/200	2x1.5	2x2			65.5	65.5	65.5	65.5	65	62.5	60	53.5	50	46	38.5	35	27.5	21	14

TYPE	POWER P2		Q	m³/h	0	0.6	1.2	2.4	4.8	6	7.2	9.6	10.8	12	14.4	15.6	18	20.4	24
Three-phase	**kW**	**HP**		l/min	**0**	**10**	**20**	**40**	**80**	**100**	**120**	**160**	**180**	**200**	**240**	**260**	**300**	**340**	**400**
VSP2 - FCR 75/90	2x1.5	2x2			71.5	71.5	71.5	71	66	63	59.5	49.5	43.5						
VSP2 - FCR 100/90	2x2.2	2x3			94	94	94	94	87.5	83	78.5	68	62.5						
VSP2 - FCR 80/130	2x1.5	2x2			74.5	74.5	74.5	74.5	69.5	66	62	52.5	48	43	34	30			
VSP2 - FCR 105/130	2x2.2	2x3	**H**	metres	98	98	98	98	96	93	89.5	81	76.5	72	62	57.5			
VSP2 - FCR 70/200	2x1.5	2x2			65.5	65.5	65.5	65.5	65	62.5	60	53.5	50	46	38.5	35	27.5	21	14
VSP2 - FCR 95/200	2x2.2	2x3			87.5	87.5	87.5	87.5	87	85	82.5	76.5	73.5	70	62.5	58.5	50.5	42	31

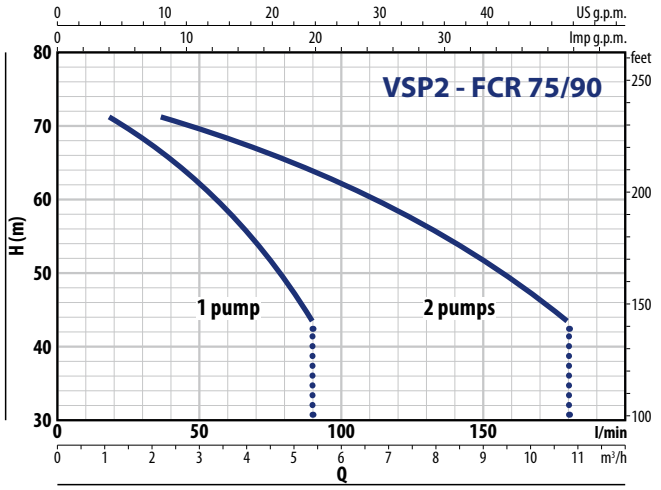
Q = Flow rate **H** = Total manometric head

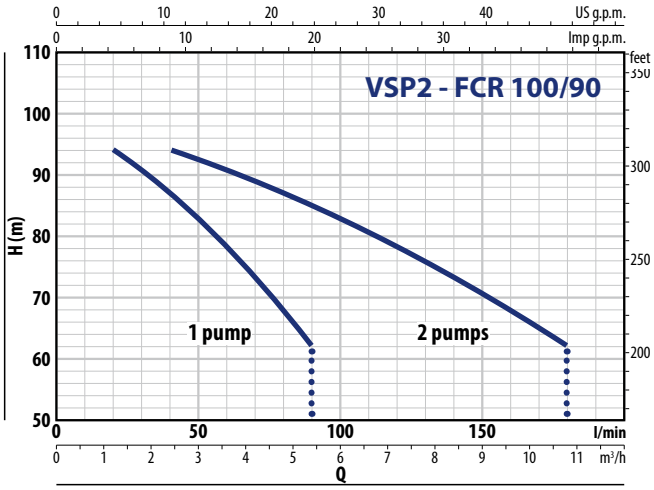
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

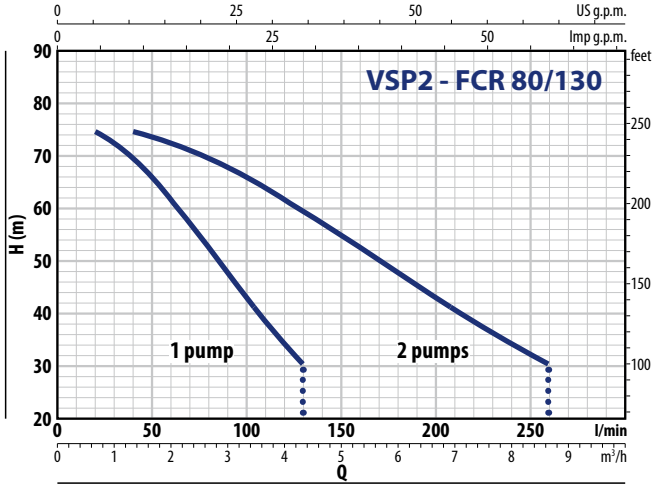
※ **The data shown in the diagram and tables indicate performance with 2 pumps in operation**

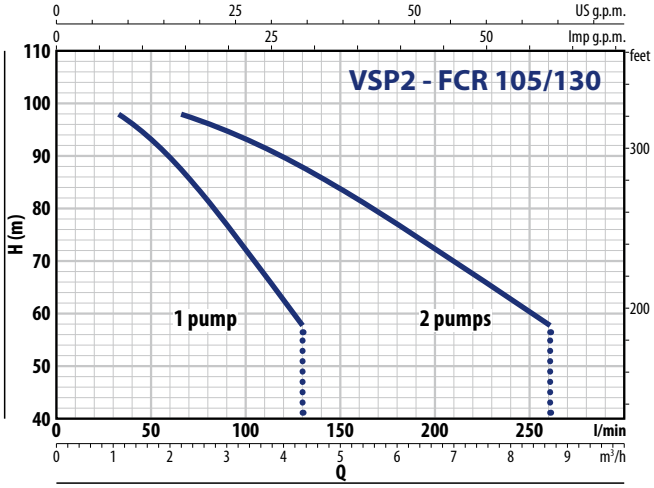
PERFORMANCE CURVES

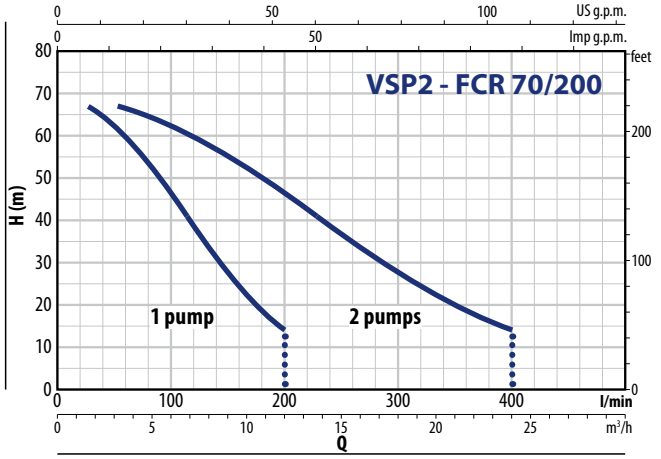
50 Hz

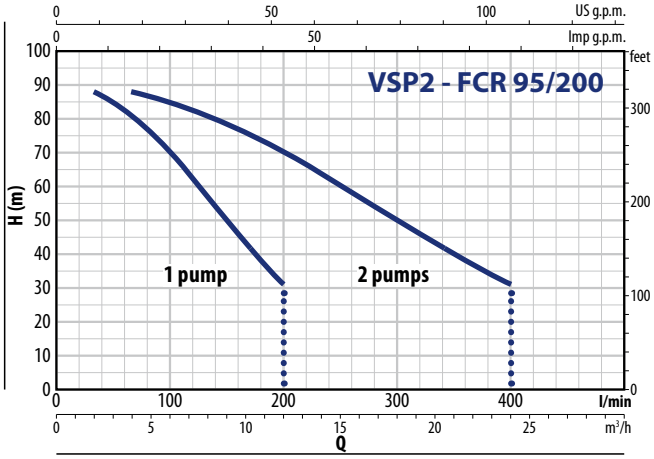












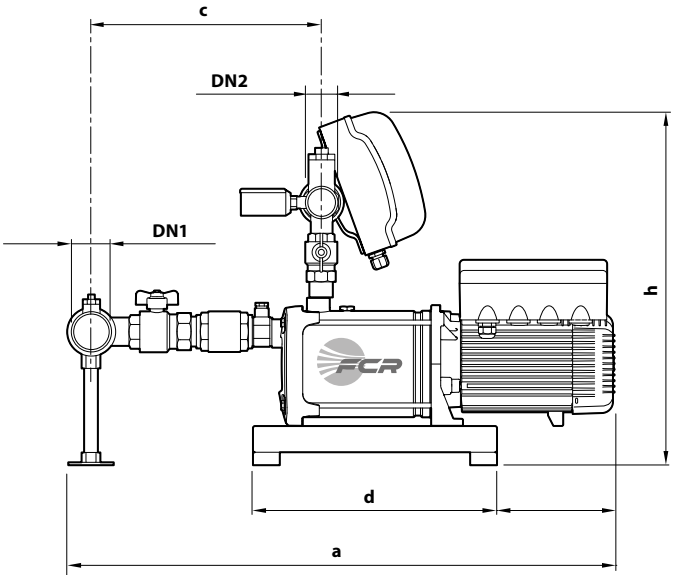
VSP2 – FCR

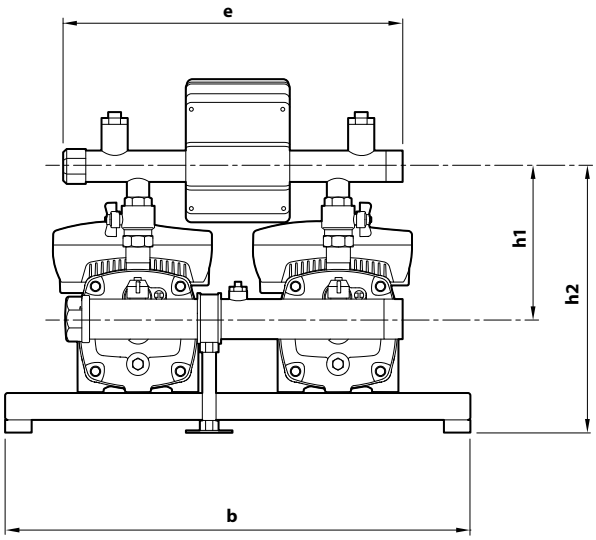
ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
VSP2m - FCR 75/90	2 x 9.8 A
VSP2m - FCR 80/130	2 x 9.8 A
VSP2m - FCR 70/200	2 x 9.8 A

TYPE **Three-phase**	VOLTAGE **400 V**
VSP2 - FCR 75/90	2 x 3.6 A
VSP2 - FCR 100/90	2 x 4.9 A
VSP2 - FCR 80/130	2 x 3.6 A
VSP2 - FCR 105/130	2 x 4.9 A
VSP2 - FCR 70/200	2 x 3.6 A
VSP2 - FCR 95/200	2 x 4.9 A

DIMENSIONS AND WEIGHT



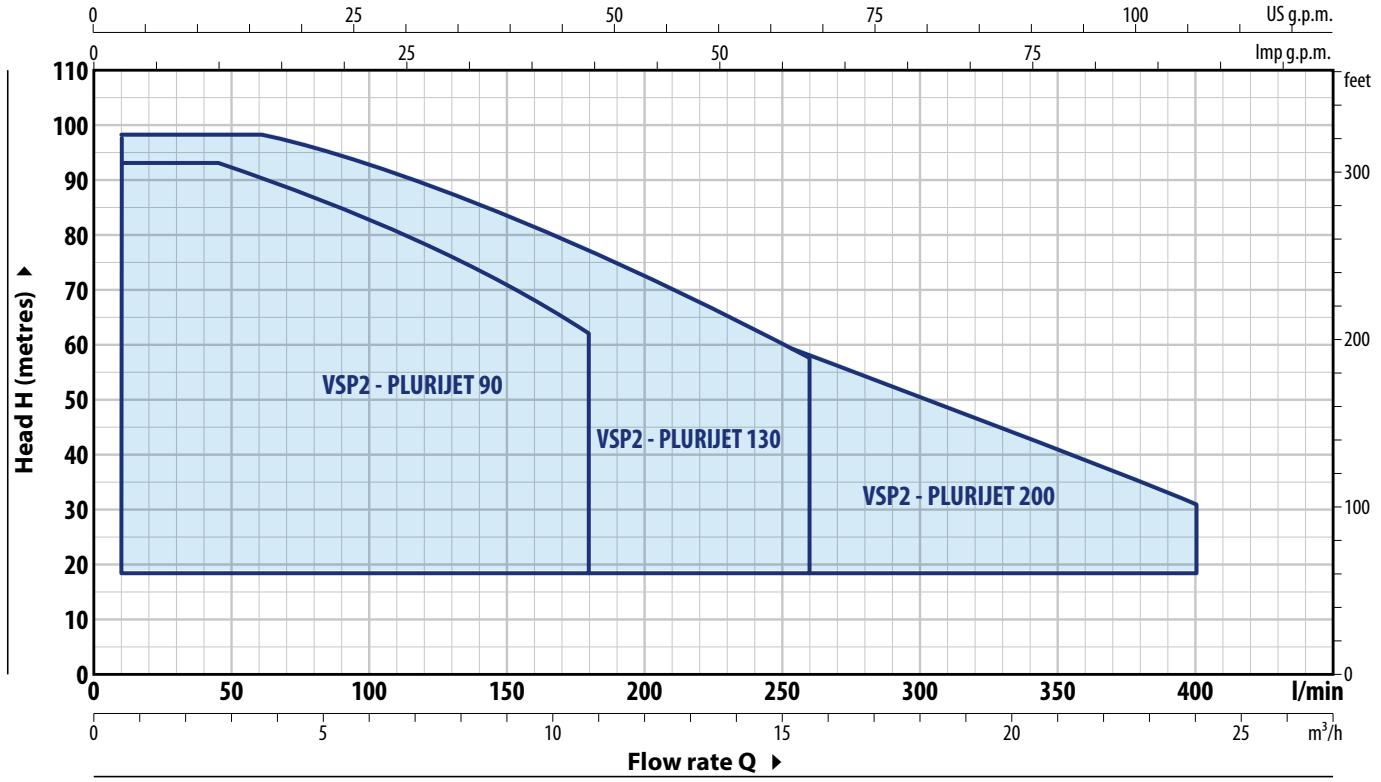


TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
VSP2m - FCR 75/90	**VSP2 - FCR 75/90**	**2"**	**1½"**	760	700	339	370	510	560	205	394	80	80
–	**VSP2 - FCR 100/90**			786								–	81
VSP2m - FCR 80/130	**VSP2 - FCR 80/130**			760								81	81
–	**VSP2 - FCR 105/130**			786								–	81
VSP2m - FCR 70/200	**VSP2 - FCR 70/200**	**2½"**	**1½"**	803		375						87	87
–	**VSP2 - FCR 95/200**			829								–	87

VSP2 – PLURIJET

FIELD AND PERFORMANCE DATA

50 Hz



TYPE	POWER P2		Q															
Single-phase	kW	HP		m³/h	0	0.6	1.2	2.4	4.8	6	7.2	9.6	10.8	12	14.4	15.6	18	20.4	24
				l/min	**0**	**10**	**20**	**40**	**80**	**100**	**120**	**160**	**180**	**200**	**240**	**260**	**300**	**340**	**400**
VSP2m - PLURIJET 75/90	2x1.5	2x2	**H** metres		71.5	71.5	71.5	71	66	63	59.5	49.5	43.5						
VSP2m - PLURIJET 80/130	2x1.5	2x2			74.5	74.5	74.5	74.5	69.5	66	62	52.5	48	43	34	30			
VSP2m - PLURIJET 70/200	2x1.5	2x2			65.5	65.5	65.5	65.5	65	62.5	60	53.5	50	46	38.5	35	27.5	21	14

TYPE	POWER P2		Q															
Three-phase	kW	HP		m³/h	0	0.6	1.2	2.4	4.8	6	7.2	9.6	10.8	12	14.4	15.6	18	20.4	24
				l/min	**0**	**10**	**20**	**40**	**80**	**100**	**120**	**160**	**180**	**200**	**240**	**260**	**300**	**340**	**400**
VSP2 - PLURIJET 75/90	2x1.5	2x2	**H** metres		71.5	71.5	71.5	71	66	63	59.5	49.5	43.5						
VSP2 - PLURIJET 100/90	2x2.2	2x3			94	94	94	94	87.5	83	78.5	68	62.5						
VSP2 - PLURIJET 80/130	2x1.5	2x2			74.5	74.5	74.5	74.5	69.5	66	62	52.5	48	43	34	30			
VSP2 - PLURIJET 105/130	2x2.2	2x3			98	98	98	98	96	93	89.5	81	76.5	72	62	57.5			
VSP2 - PLURIJET 70/200	2x1.5	2x2			65.5	65.5	65.5	65.5	65	62.5	60	53.5	50	46	38.5	35	27.5	21	14
VSP2 - PLURIJET 95/200	2x2.2	2x3			87.5	87.5	87.5	87.5	87	85	82.5	76.5	73.5	70	62.5	58.5	50.5	42	31

Q = Flow rate **H** = Total manometric head

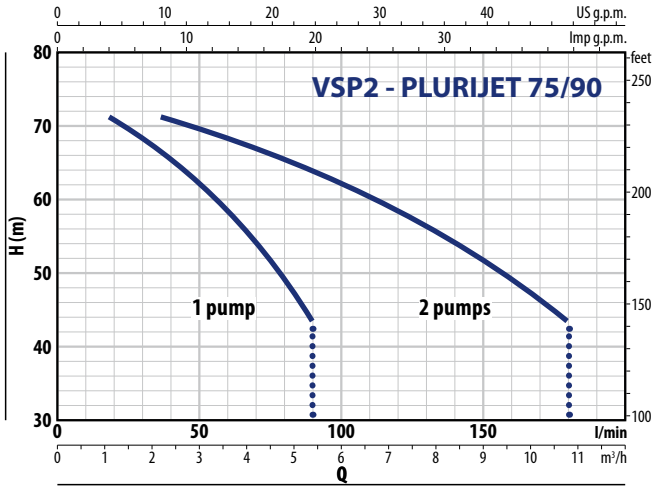
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

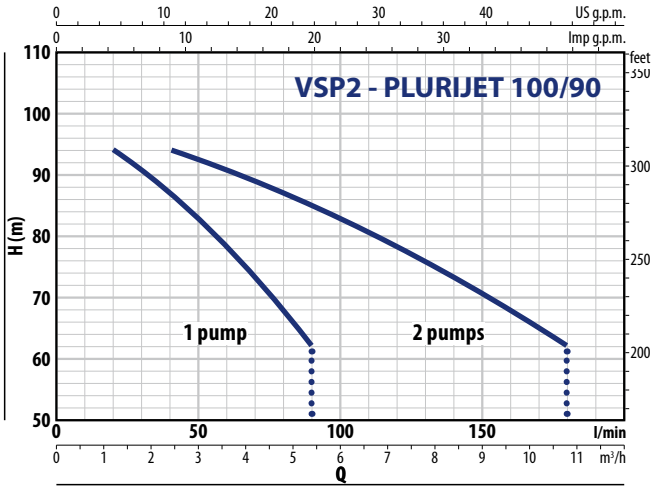
※ **The data shown in the diagram and tables indicate performance with 2 pumps in operation**

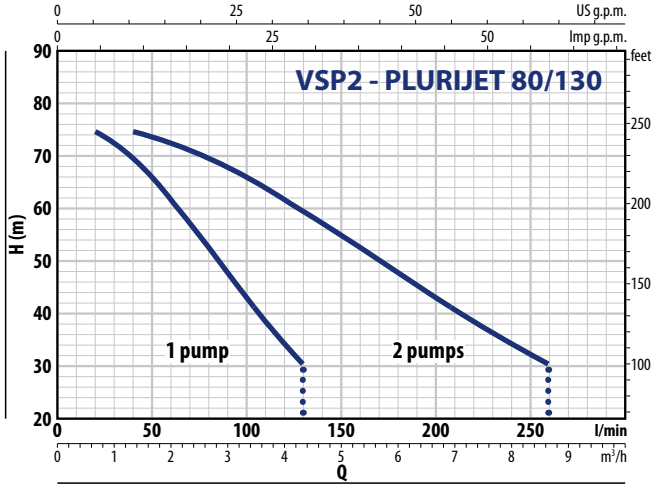
VSP2 – PLURIJET

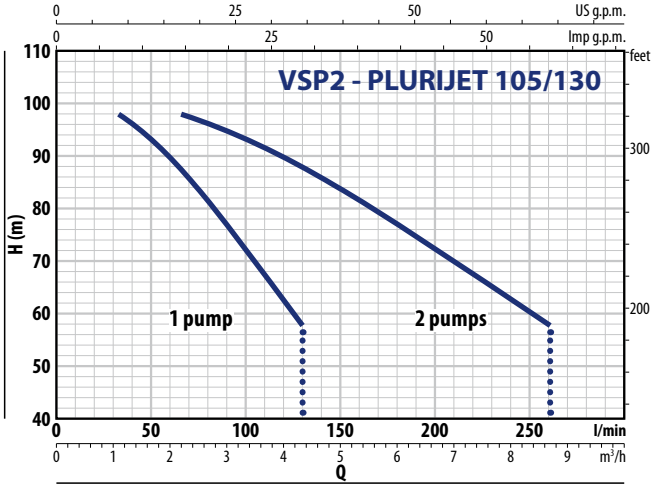
PERFORMANCE CURVES

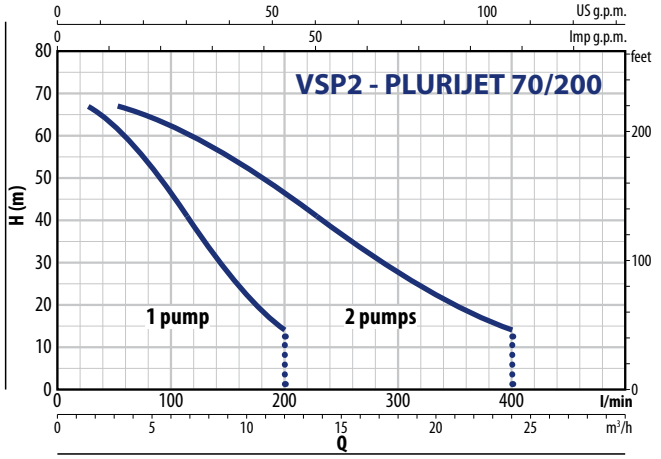
50 Hz

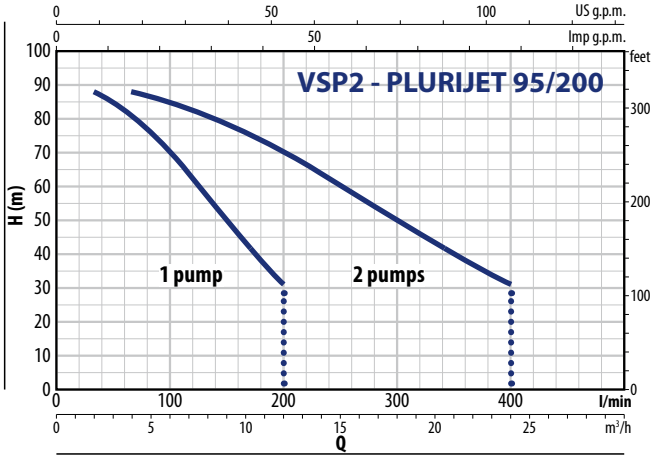










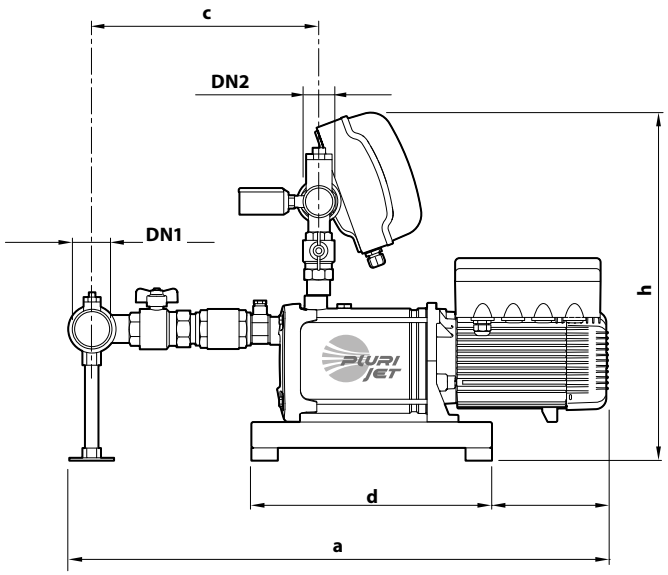


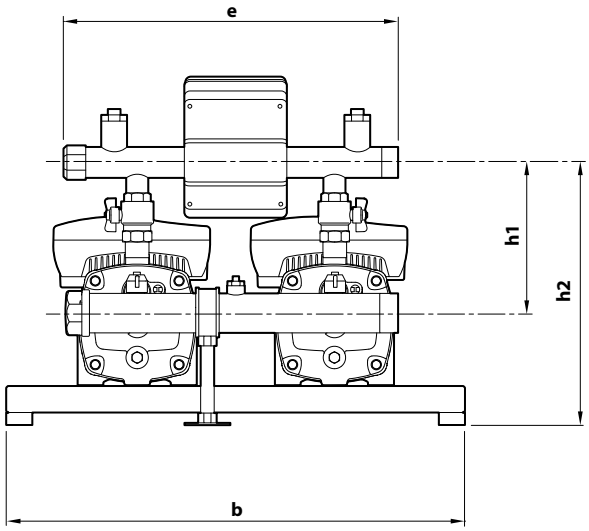
ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
VSP2m - PLURIJET 75/90	2 x 9.8 A
VSP2m - PLURIJET 80/130	2 x 9.8 A
VSP2m - PLURIJET 70/200	2 x 9.8 A

TYPE **Three-phase**	VOLTAGE **400 V**
VSP2 - PLURIJET 75/90	2 x 3.6 A
VSP2 - PLURIJET 100/90	2 x 4.9 A
VSP2 - PLURIJET 80/130	2 x 3.6 A
VSP2 - PLURIJET 105/130	2 x 4.9 A
VSP2 - PLURIJET 70/200	2 x 3.6 A
VSP2 - PLURIJET 95/200	2 x 4.9 A

DIMENSIONS AND WEIGHT



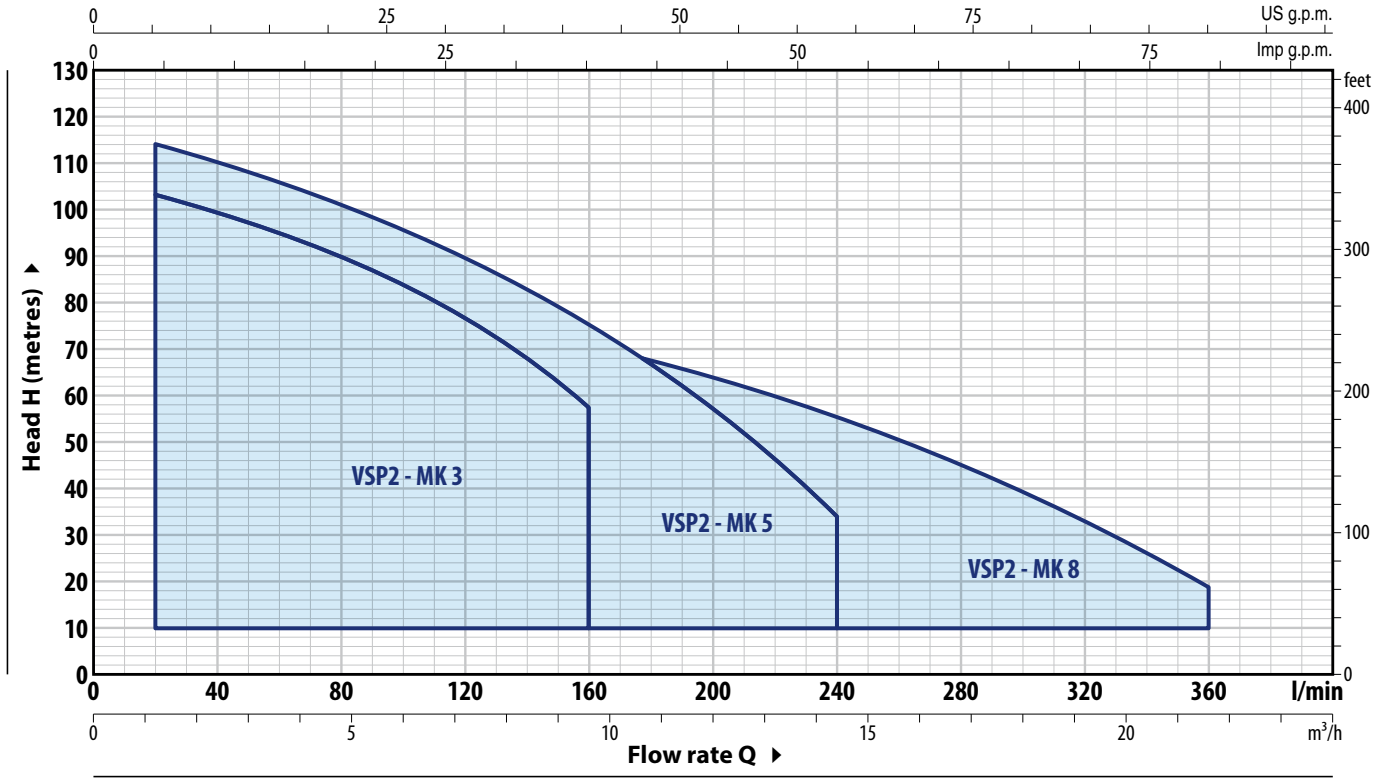


TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
VSP2m - PLURIJET 75/90	**VSP2 - PLURIJET 75/90**	**2"**	**1½"**	812	700	339	370	510	560	205	394	80	80
–	**VSP2 - PLURIJET 100/90**			838								–	85
VSP2m - PLURIJET 80/130	**VSP2 - PLURIJET 80/130**			812								80	81
–	**VSP2 - PLURIJET 105/130**			838								–	85
VSP2m - PLURIJET 70/200	**VSP2 - PLURIJET 70/200**	**2½"**	**1½"**	855		375						83	83
–	**VSP2 - PLURIJET 95/200**			881								–	87

VSP2 – MK

FIELD AND PERFORMANCE DATA

50 Hz



TYPE		POWER P2		Q											
				m³/h	0	1.2	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6
Single-phase	Three-phase	kW	HP	l/min	**0**	**20**	**40**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**
VSP2m - MK 3/3	**VSP2 - MK 3/3**	2x0.75	2x1		52.5	51.5	50	45	38.5	29					
VSP2m - MK 3/5	**VSP2 - MK 3/5**	2x1.1	2x1.5		87	85	83	75	64	48					
VSP2m - MK 3/6	**VSP2 - MK 3/6**	2x1.5	2x2		105	103	100	90	77	58					
VSP2m - MK 5/4	**VSP2 - MK 5/4**	2x0.75	2x1		57	–	54	50	45	37.5	28.5	17			
VSP2m - MK 5/5	**VSP2 - MK 5/5**	2x1.1	2x1.5		71	–	67.5	62.5	56	47	35.5	21.5			
VSP2m - MK 5/7	**VSP2 - MK 5/7**	2x1.5	2x2	**H** metres	99	–	95	88	78	66	50	30			
–	**VSP2 - MK 5/8**	2x2.2	2x3		114	–	108	100	90	75	57	34			
VSP2m - MK 8/4	**VSP2 - MK 8/4**	2x1.1	2x1.5		56	–	–	53.5	51	47.5	43	37.5	30.5	22.1	12
VSP2m - MK 8/5	**VSP2 - MK 8/5**	2x1.5	2x2		70	–	–	67	64	59.5	54	47	38	27.5	15.5
–	**VSP2 - MK 8/6**	2x2.2	2x3		84	–	–	80	77	72	64.5	56	45.5	33	18.5

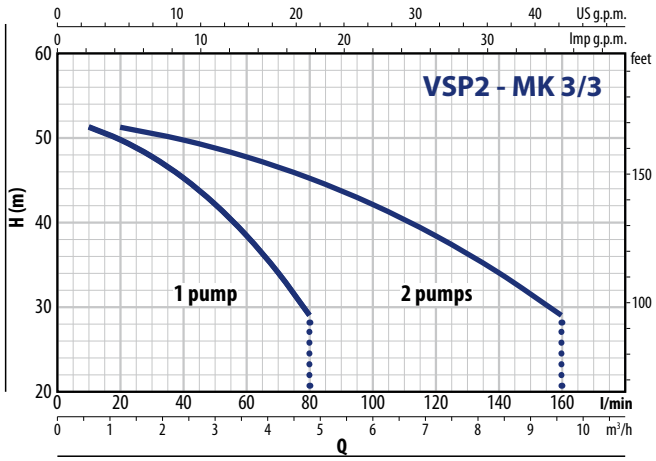
Q = Flow rate **H** = Total manometric head

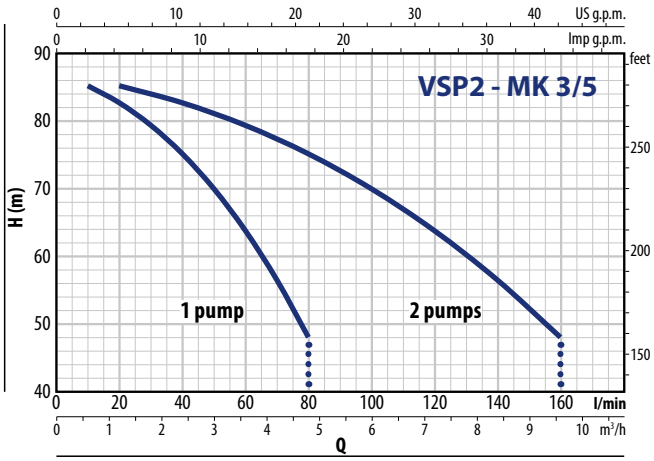
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

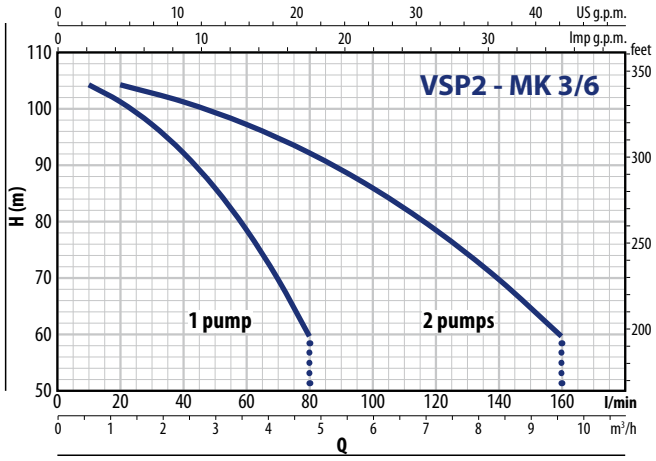
※ **The data shown in the diagram and table indicate performance with 2 pumps in operation**

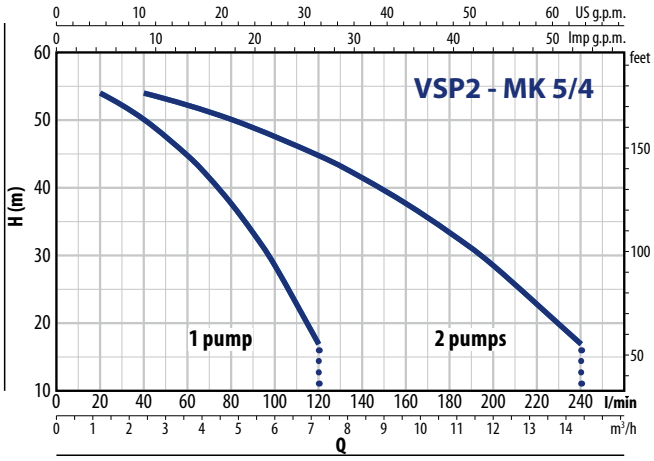
PERFORMANCE CURVES

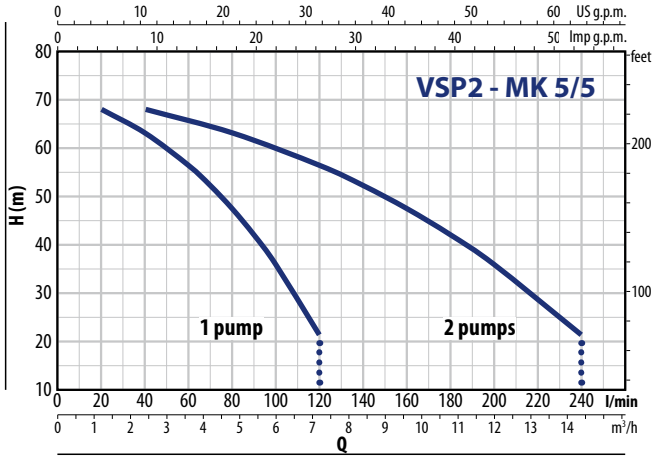
50 Hz

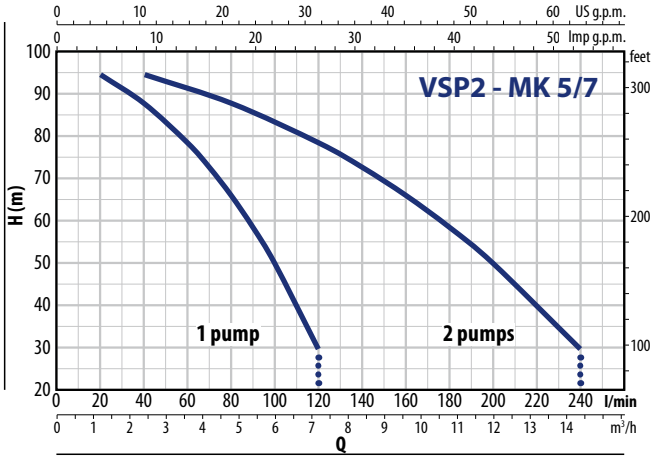


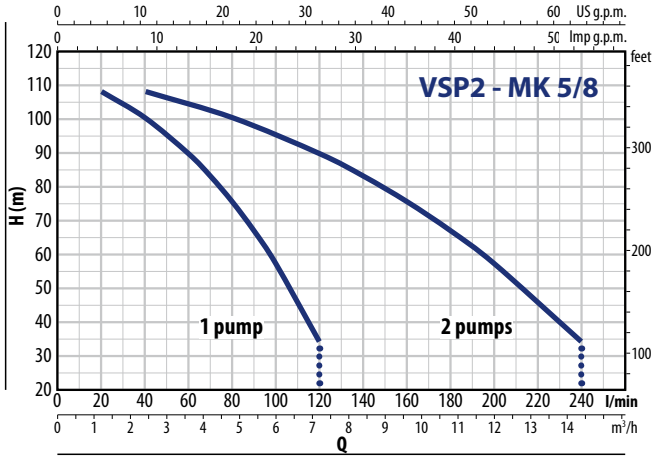


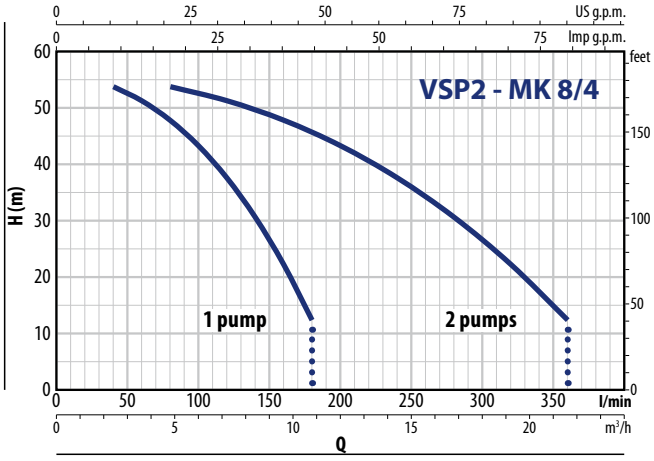








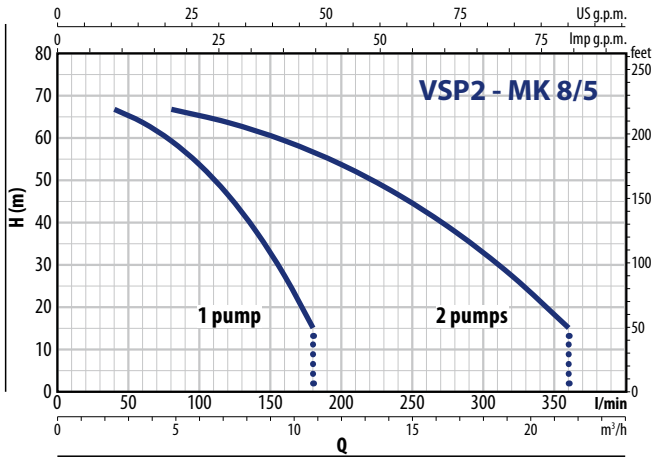


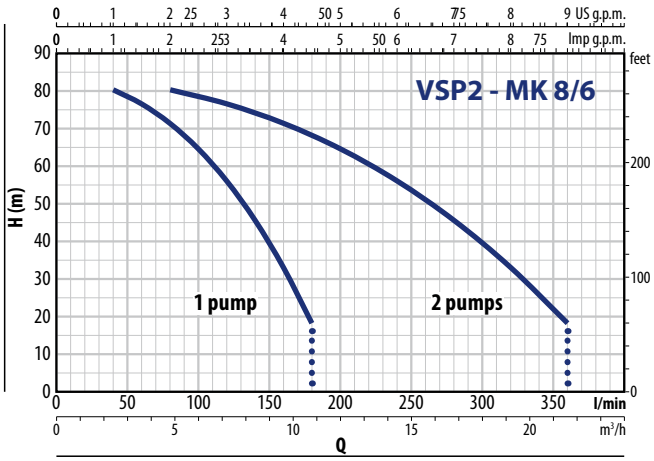


VSP2 – MK

PERFORMANCE CURVES

50 Hz



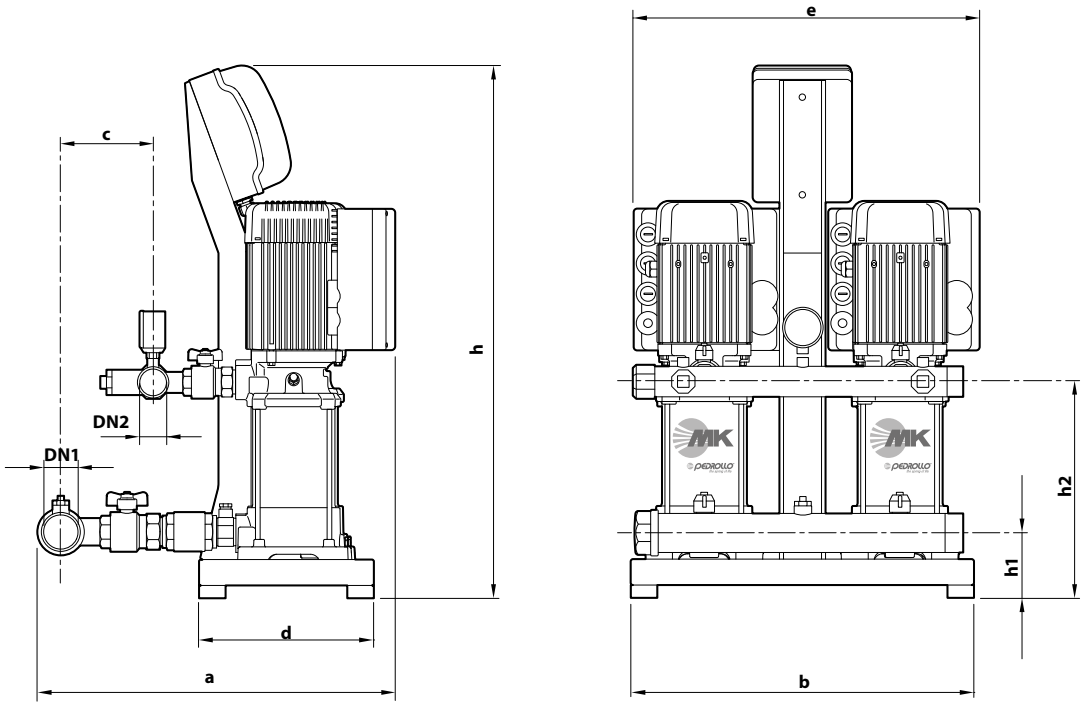


ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
VSP2m - MK 3/3	2 x 6.2 A
VSP2m - MK 3/5	2 x 7.8 A
VSP2m - MK 3/6	2 x 9.0 A
VSP2m - MK 5/4	2 x 6.4 A
VSP2m - MK 5/5	2 x 6.5 A
VSP2m - MK 5/7	2 x 9.0 A
VSP2m - MK 8/4	2 x 8.3 A
VSP2m - MK 8/5	2 x 10.0 A

TYPE **Three-phase**	VOLTAGE **400 V**
VSP2 - MK 3/3	2 x 1.7 A
VSP2 - MK 3/5	2 x 2.3 A
VSP2 - MK 3/6	2 x 2.8 A
VSP2 - MK 5/4	2 x 2.0 A
VSP2 - MK 5/5	2 x 2.2 A
VSP2 - MK 5/7	2 x 3.0 A
VSP2 - MK 5/8	2 x 3.5 A
VSP2 - MK 8/4	2 x 2.8 A
VSP2 - MK 8/5	2 x 3.4 A
VSP2 - MK 8/6	2 x 3.8 A

DIMENSIONS AND WEIGHT

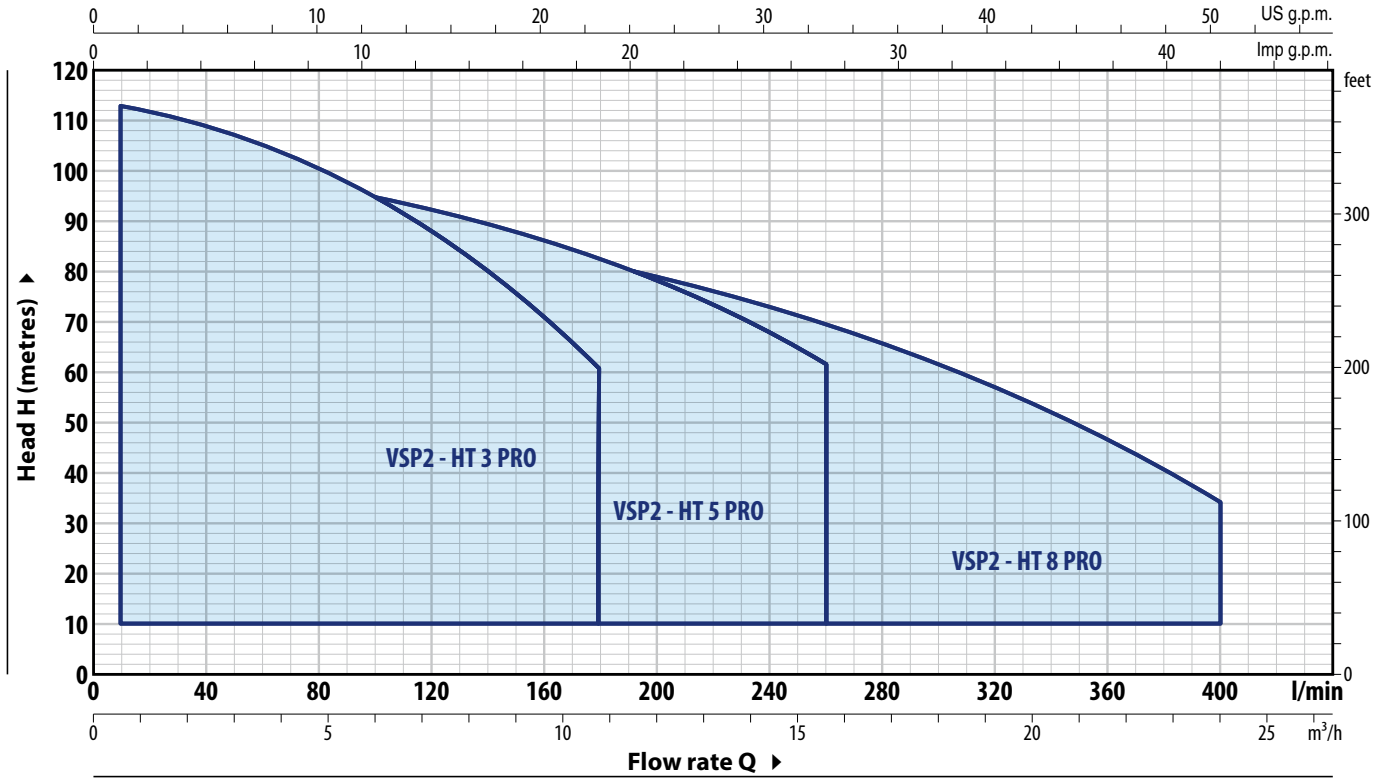


TYPE		PORTS		DIMENSIONS mm								kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	h	h1	h2	1~	3~
VSP2m - MK 3/3	**VSP2 - MK 3/3**										235	75	75
VSP2m - MK 3/5	**VSP2 - MK 3/5**										289	79	79
VSP2m - MK 3/6	**VSP2 - MK 3/6**										316	83	83
VSP2m - MK 5/4	**VSP2 - MK 5/4**	**2"**	**1½"**	555		135					262	76	76
VSP2m - MK 5/5	**VSP2 - MK 5/5**										289	79	79
VSP2m - MK 5/7	**VSP2 - MK 5/7**				530		270	510	863	102	343	83	83
–	**VSP2 - MK 5/8**										370	-	84
VSP2m - MK 8/4	**VSP2 - MK 8/4**										316	82	82
VSP2m - MK 8/5	**VSP2 - MK 8/5**	**2½"**	**1½"**	600		171					262	83	83
–	**VSP2 - MK 8/6**										289	-	89

VSP2 – HT-PRO

FIELD AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q								
Single-phase	Three-phase	kW	HP	m³/h	0	0.6	1.2	2.4	4.8	7.2	9.6	10.8
				l/min	**0**	**10**	**20**	**40**	**80**	**120**	**160**	**180**
VSP2 - HTm 3/4 PRO	**VSP2 - HT 3/4 PRO**	2x0.75	2x1	**H** metres	65	65	63.5	62	57	50	40.5	35
VSP2 - HTm 3/5 PRO	**VSP2 - HT 3/5 PRO**	2x1.1	2x1.5		81	80	79	77	71	62.5	51	44
VSP2 - HTm 3/6 PRO	**VSP2 - HT 3/6 PRO**	2x1.5	2x2		97	96	95	93	86	75	61	52
–	**VSP2 - HT 3/7 PRO**	2x1.8	2x2.5		113	112	111	108	100	88	71	61

TYPE		POWER (P2)		Q										
Single-phase	Three-phase	kW	HP	m³/h	0	0.6	1.2	2.4	4.8	7.2	9.6	10.8	12	15.6
				l/min	**0**	**10**	**20**	**40**	**80**	**120**	**160**	**180**	**200**	**260**
VSP2 - HTm 5/2 PRO	**VSP2 - HT 5/2 PRO**	2x0.75	2x1	**H** metres	35	35	32.7	32.3	32.5	31	25.5	27.5	26	16
VSP2 - HTm 5/3 PRO	**VSP2 - HT 5/3 PRO**	2x1.1	2x1.5		51.5	52	51	50.5	49	46.5	43	41	39	31
VSP2 - HTm 5/4 PRO	**VSP2 - HT 5/4 PRO**	2x1.5	2x2		68.5	68.5	68	67	65	62	57.5	55	52	41
–	**VSP2 - HT 5/5 PRO**	2x1.8	2x2.5		86	85	85	84	81	77	72	68.5	65	51.5
–	**VSP2 - HT 5/6 PRO**	2x2.2	2x3		103	103	102	101	98	93	86	82	78	62

TYPE		POWER (P2)		Q											
Single-phase	Three-phase	kW	HP	m³/h	0	2.4	4.8	7.2	9.6	12	14.4	16.8	19.2	21.6	24
				l/min	**0**	**40**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**	**400**
VSP2 - HTm 8/3 PRO	**VSP2 - HT 8/3 PRO**	2x1.1	2x1.5	**H** metres	47	46.5	45.5	44	42	39.5	36.5	32.5	28	23.1	17
VSP2 - HTm 8/4 PRO	**VSP2 - HT 8/4 PRO**	2x1.5	2x2		62.5	62	60.5	58.5	56	53	48.5	43.5	37.5	31	23
–	**VSP2 - HT 8/5 PRO**	2x1.8	2x2.5		78	77.5	76	73	70	66	61	54.5	47	38.5	28.5
–	**VSP2 - HT 8/6 PRO**	2x2.2	2x3		94	93	91	88	84	79	73	65.5	56.5	46	34.5

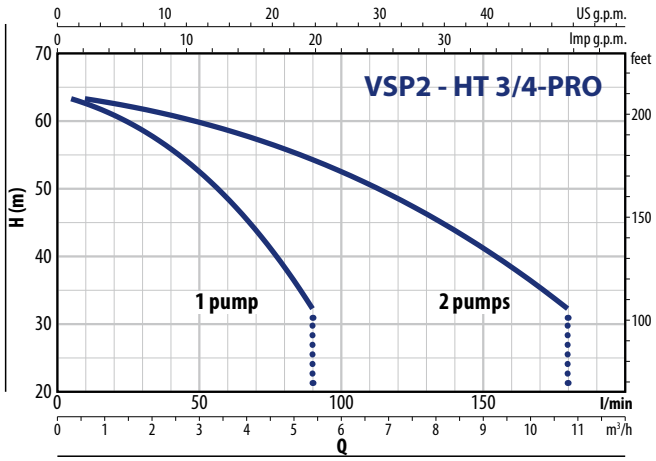
Q = Flow rate **H** = Total manometric head

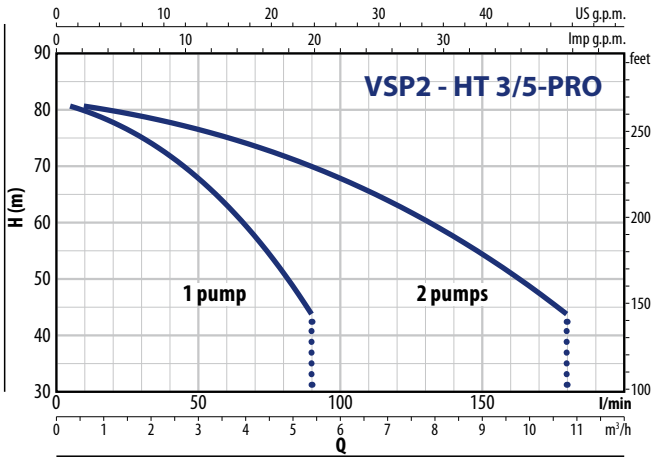
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

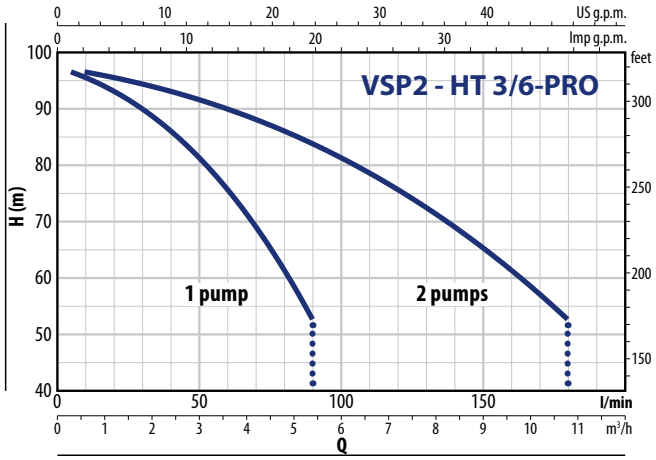
※ The data shown in the diagram and tables indicate performance with 2 pumps in operation

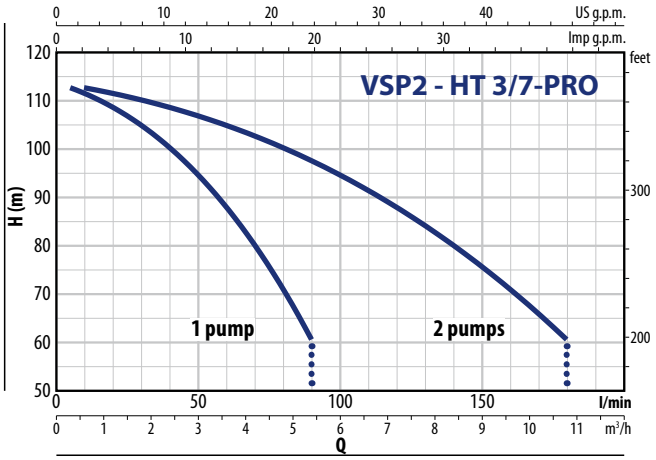
PERFORMANCE CURVES

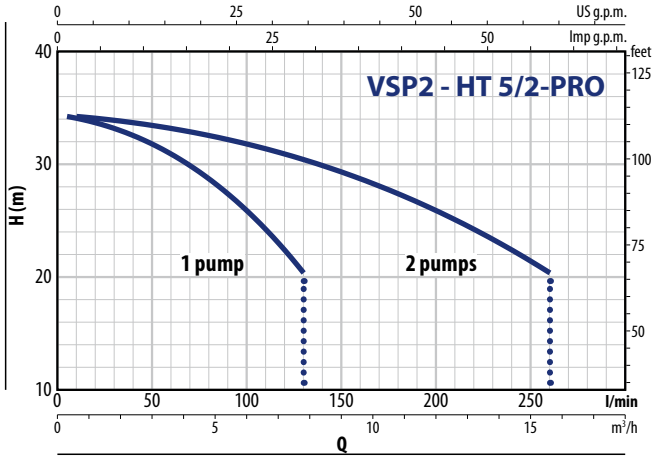
50 Hz

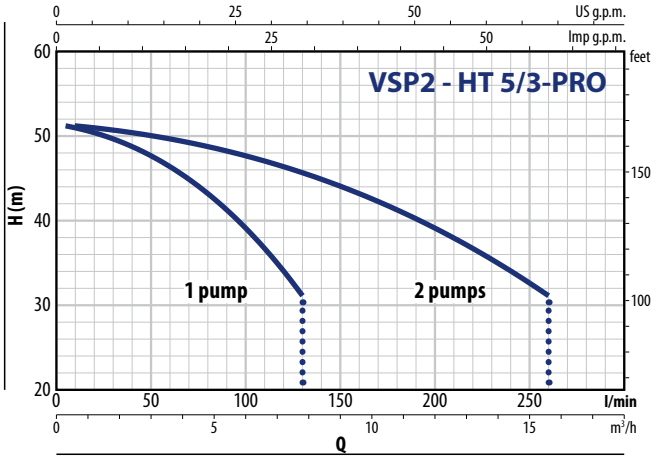


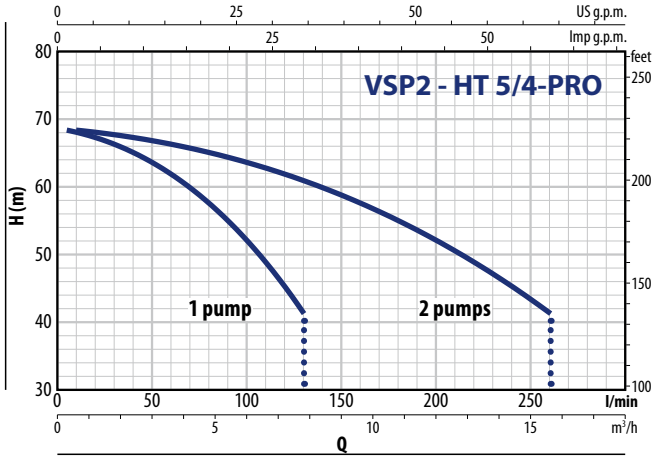


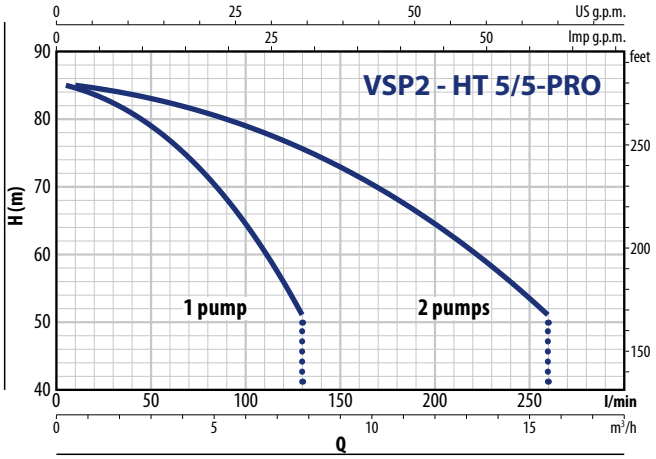








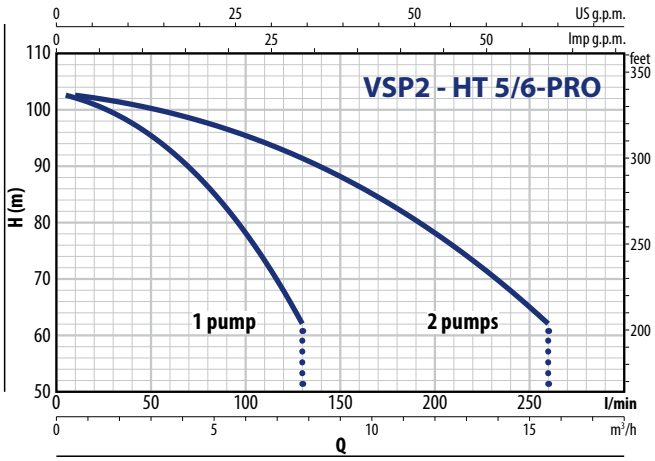


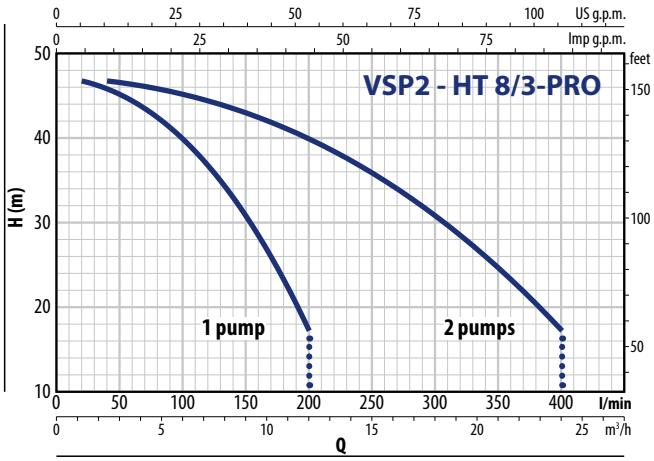


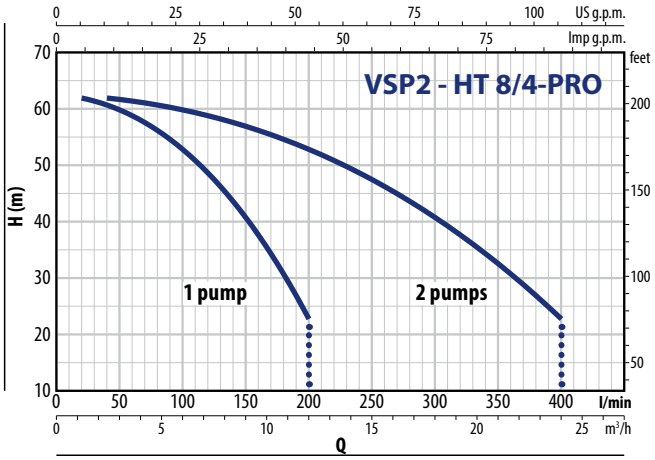
VSP2 – HT-PRO

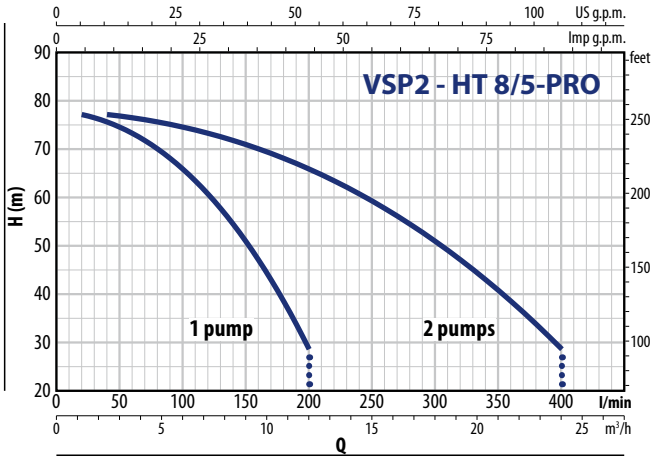
PERFORMANCE CURVES

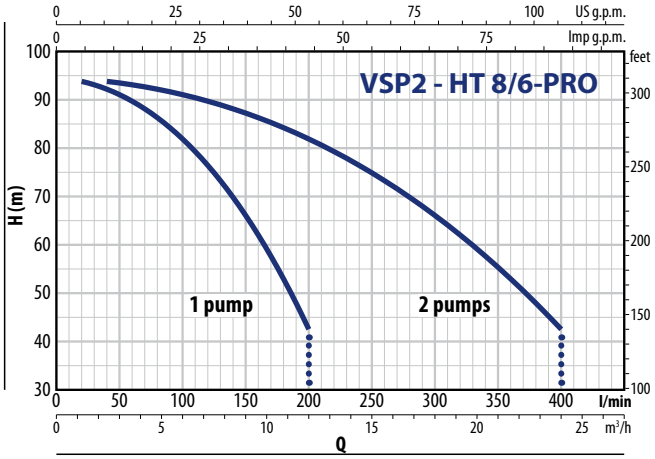
50 Hz









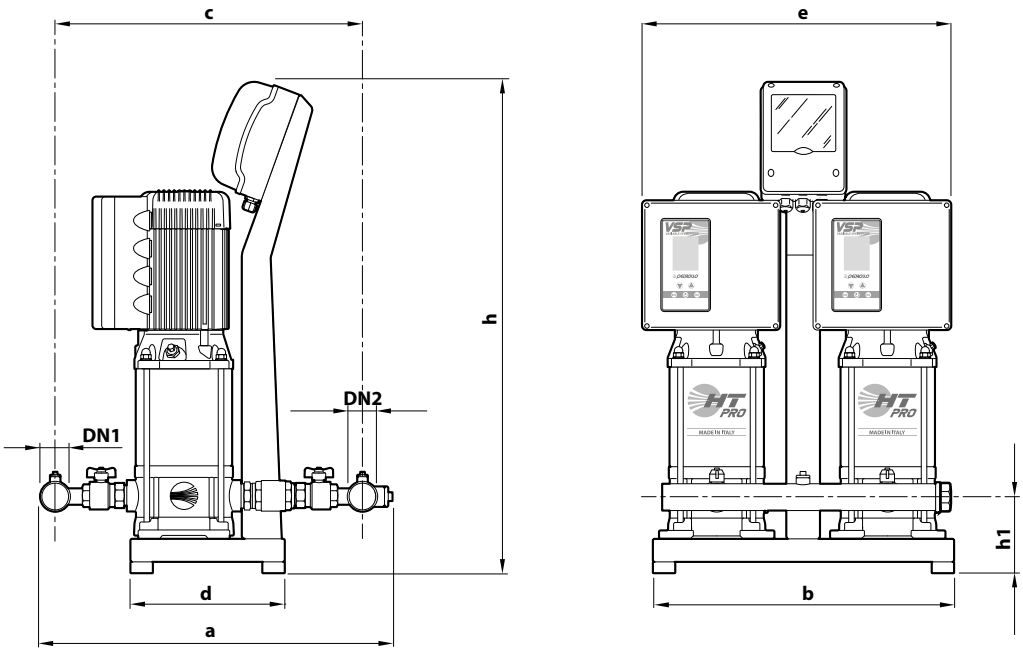


ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
VSP2m - HT 3/4 PRO	2 x 7.5 A
VSP2m - HT 3/5 PRO	2 x 9.0 A
VSP2m - HT 3/6 PRO	2 x 10.5 A
VSP2m - HT 5/2 PRO	2 x 7.0 A
VSP2m - HT 5/3 PRO	2 x 8.0 A
VSP2m - HT 5/4 PRO	2 x 9.5 A
VSP2m - HT 8/3 PRO	2 x 8.5 A
VSP2m - HT 8/4 PRO	2 x 10.0 A

TYPE **Three-phase**	VOLTAGE **400 V**
VSP2 - HT 3/4 PRO	2 x 2.5 A
VSP2 - HT 3/5 PRO	2 x 3.0 A
VSP2 - HT 3/6 PRO	2 x 3.5 A
VSP2 - HT 3/7 PRO	2 x 4.2 A
VSP2 - HT 5/2 PRO	2 x 2.3 A
VSP2 - HT 5/3 PRO	2 x 2.4 A
VSP2 - HT 5/4 PRO	2 x 3.2 A
VSP2 - HT 5/5 PRO	2 x 4.0 A
VSP2 - HT 5/6 PRO	2 x 4.3 A
VSP2 - HT 8/3 PRO	2 x 3.0 A
VSP2 - HT 8/4 PRO	2 x 3.4 A
VSP2 - HT 8/5 PRO	2 x 4.0 A
VSP2 - HT 8/6 PRO	2 x 4.5 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm							kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	h	h1	1~	3~
VSP2m-HT 3/4 PRO	**VSP2-HT 3/4 PRO**	**2"**	**2"**	694	530	576	270	542	863	135	97	97
VSP2m-HT 3/5 PRO	**VSP2-HT 3/5 PRO**										97	97
VSP2m-HT 3/6 PRO	**VSP2-HT 3/6 PRO**										100	100
–	**VSP2-HT 3/7 PRO**										–	110
VSP2m-HT 5/2 PRO	**VSP2-HT 5/2 PRO**	**2"**	**2"**	740		622					96	96
VSP2m-HT 5/3 PRO	**VSP2-HT 5/3 PRO**										96	96
VSP2m-HT 5/4 PRO	**VSP2-HT 5/4 PRO**										100	100
–	**VSP2-HT 5/5 PRO**										–	105
–	**VSP2-HT 5/6 PRO**										–	107
VSP2m-HT 8/3 PRO	**VSP2-HT 8/3 PRO**	**2½"**	**2½"**	833		698				140	101	101
VSP2m-HT 8/4 PRO	**VSP2-HT 8/4 PRO**										105	105
–	**VSP2-HT 8/5 PRO**										–	112
–	**VSP2-HT 8/6 PRO**										–	114

GPW Variable speed pumping units

Clean water

Domestic use

Civil use



INSTALLATION AND USE

GPW is a pre-assembled system designed to connect to water mains or a primary collection tanks. It provides water supply and pressurization and is ideal for residential, commercial, and public buildings. It's also suitable for hotels, park irrigation, as well as industrial water handling and treatment.

GPW is compatible with clean water and aqueous solutions that do not chemically or mechanically harm the materials used and are free from abrasive or fibrous substances.

PRODUCT DESCRIPTION

GPW is a variable speed pressurization system **comprising two or three pumps** assembled into one unit. It is electronically controlled by two or three **STEADYPRES** devices connected in parallel. These devices automatically adjust the pump operation based on the system's varying water demands, ensuring constant pressure.

When water withdrawal reduces the system pressure, the first pump activates to meet the required flow rate, maintaining pressure at the set value. As the maximum rotation speed is reached, additional pumps start up in sequence to fulfill the system's water demand.

COMPONENTS

※ **Pumps** connected in parallel via suction and discharge manifolds. Each pump is equipped with a ball valve on the suction side and a ball valve and non-return valve (integrated in STEADYPRES) on the discharge side.

※ **BASE** made of metal profile and equipped with adjustable vibration-damping feet.

※ **STEADYPRES ELECTRONIC DEVICES** installed directly on the delivery pipe of each individual pump. They continuously regulate the rotation speed, ensuring a constant pressure even as user demands fluctuate. Each inverter can manage the alternating operation of pumps as needed.

GPW is designed to protect the system from:
※ Dry running
※ overvoltage and undervoltage

※ **CONTROL PANEL** equipped with magnetothermal motor protection circuit breakers for three-phase versions, and magnetothermal circuit breakers for single-phase versions.



GP2W – 5CR

Pressurization units comprising two multistage centrifugal pumps equipped with STEADYPRES inverters capable of maintaining a constant pressure in the system. The GP2W - 5CR are suitable for domestic and residential water supply, garden irrigation, and general clean water handling.

TECHNICAL DATA

- Liquid temperature up to **+40 °C**
- Ambient temperature between **0 °C** and **+40 °C**
- Max. pressure in the pump body **7 bar**
- Continuous running duty **S1**



GP2W – MK

Pressurization units comprising three vertical multistage pumps equipped with STEADYPRES inverters, capable of maintaining constant pressure in the system. GP3W - MK are suitable for residential, commercial, and public water supply, large-scale irrigation, and handling clean water in general.

TECHNICAL DATA

- Liquid temperature up to **+40 °C**
- Ambient temperature between **0 °C** and **+40 °C**
- Max. pressure in pump body **10 bar**
- Continuous running duty **S1**



GP3W – MK

Pressurization units comprising three vertical multistage pumps equipped with STEADYPRES inverters capable of maintaining constant pressure in the system. GP3W - MK are suitable for residential, commercial, and public water supply, large-scale irrigation, and handling clean water in general.

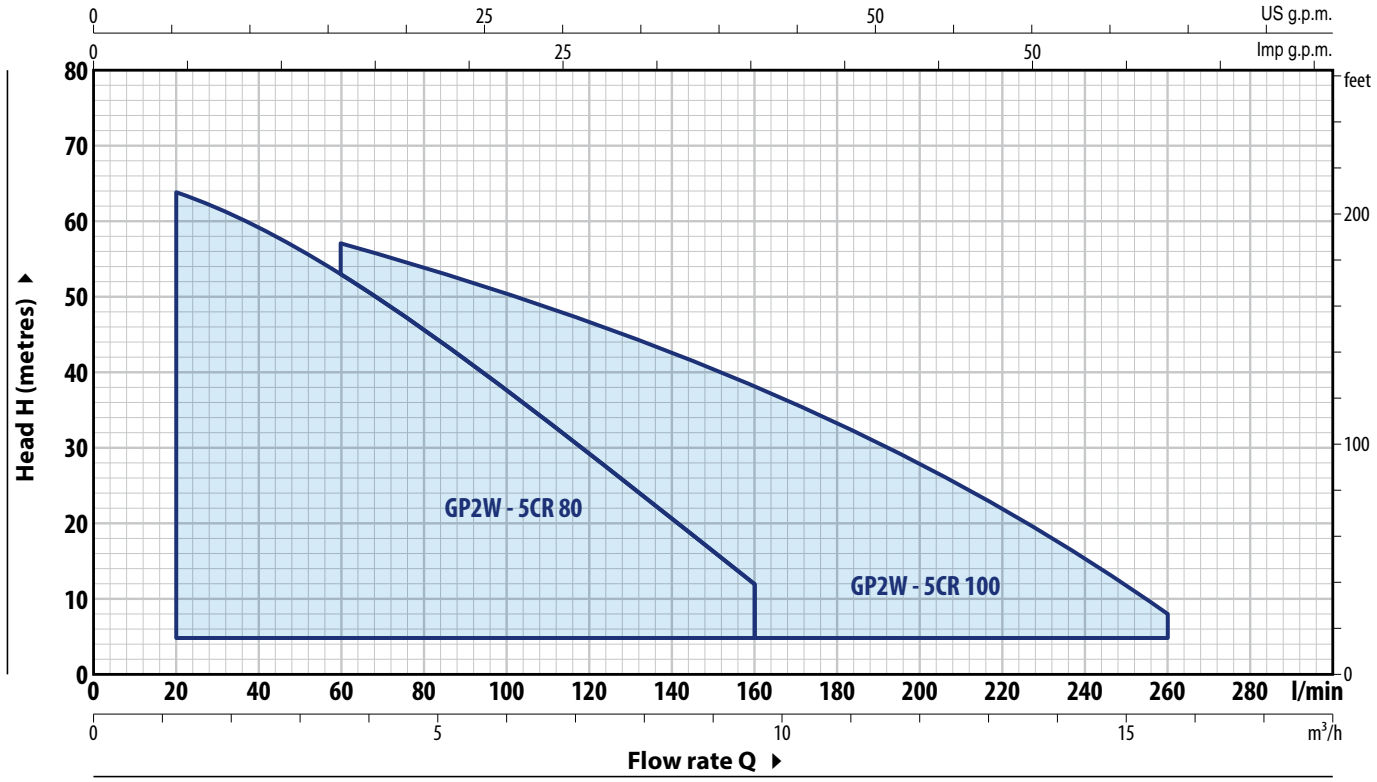
TECHNICAL DATA

- Liquid temperature up to **+40 °C**
- Ambient temperature between **0 °C** and **+40 °C**
- Max. pressure in pump body **10 bar**
- Continuous running duty **S1**

GP2W – 5CR

FIELD AND PERFORMANCE DATA

50 Hz



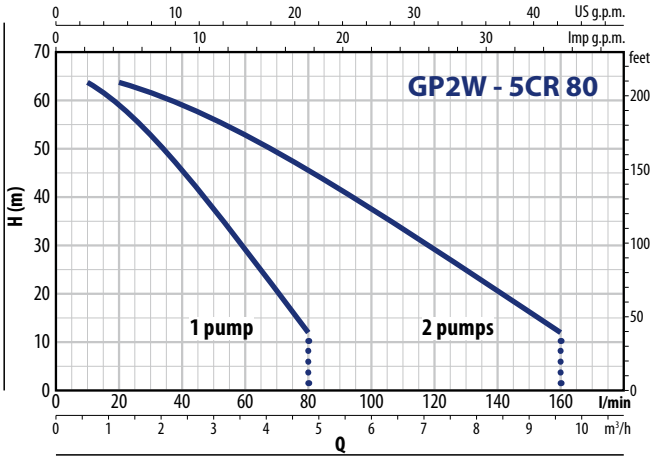
TYPE		POWER P2		Q													
Single-phase	Three-phase	kW	HP	m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0	13.2	14.4	15.6
				l/min	**0**	**20**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**	**220**	**240**	**260**
GP2Wm - 5CR 80	GP2W - 5CR 80	2x0.75	2x1	H metres	67	64	59	53	45.5	37.5	29.5	20.5	12					
GP2Wm - 5CR 100	GP2W - 5CR 100	2x0.9	2x1.25		63	61.5	59.5	57	53.5	50.5	46.5	42.5	38	33	28	22	15	8

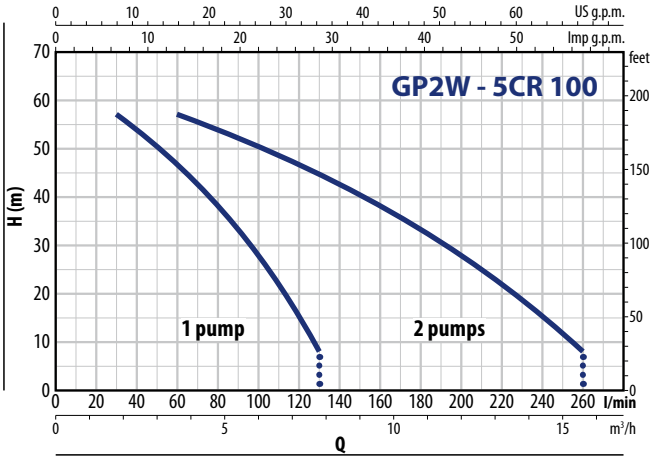
Q = Flow rate **H** = Total manometric head

※ The data shown in the diagram and tables indicate performance with 2 pumps in operation

PERFORMANCE CURVES

50 Hz



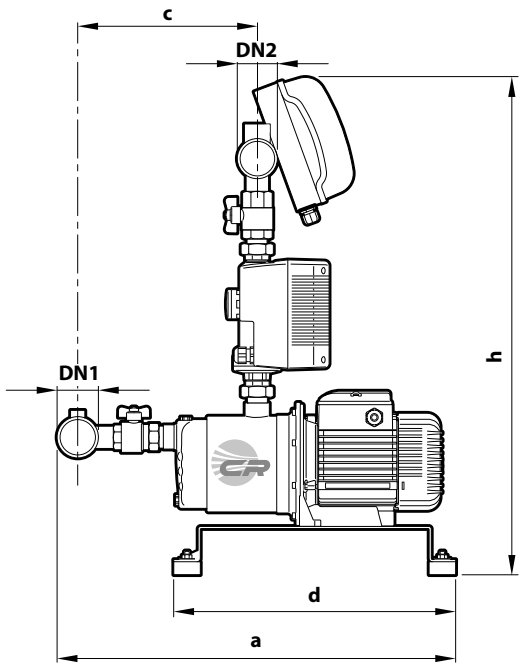


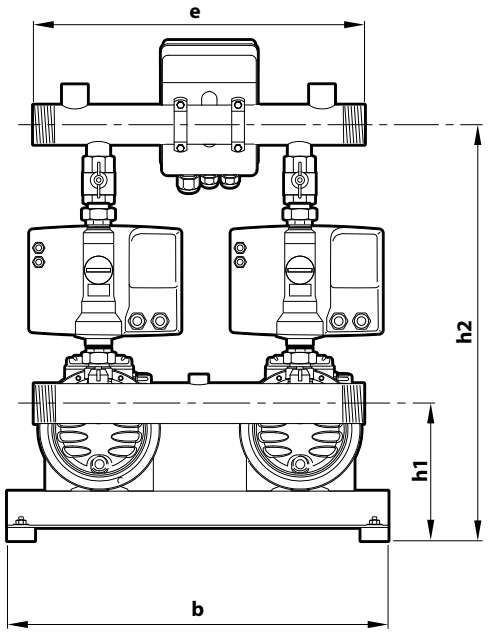
ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
GP2Wm - 5CR 80	2 x 9.0 A
GP2Wm - 5CR 100	2 x 10.0 A

TYPE **Three-phase**	VOLTAGE **400 V**
GP2W - 5CR 80	2 x 3.2 A
GP2W - 5CR 100	2 x 3.2 A

DIMENSIONS AND WEIGHT



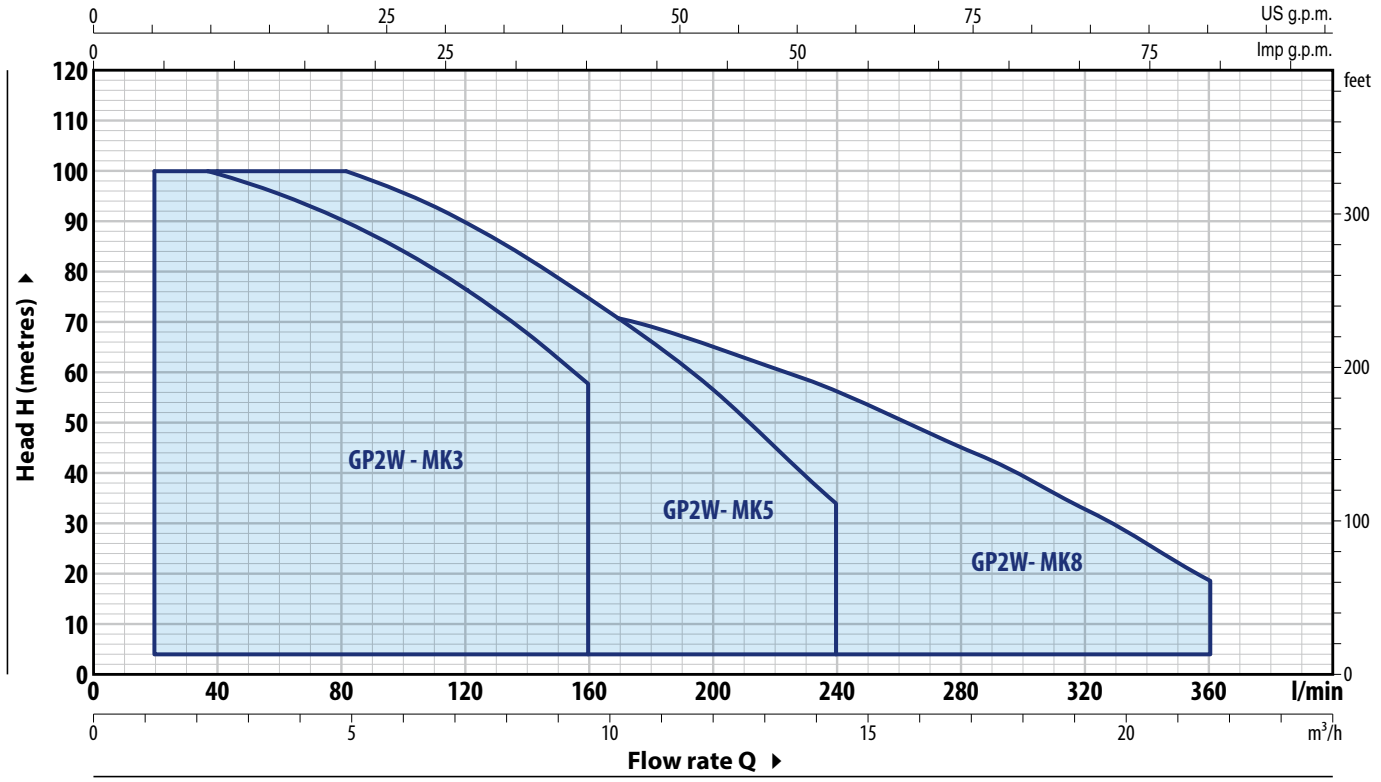


TIPO		BOCCHE		DIMENSIONS mm										kg	
Monofase	**Trifase**	DN1	DN2	a	b	c	d	e	h 1~	h 3~	h1	h2 1~	h2 3~	1~	3~
GP2Wm - 5CR 80	**GP2W - 5CR 80**	**1½"**	**1½"**	608	570	273	420	500	754	712	205	624	582	64	67
GP2Wm - 5CR 100	**GP2W - 5CR 100**	**2"**		687		347								65	68

GP2W – MK

FIELD AND PERFORMANCE DATA

50 Hz



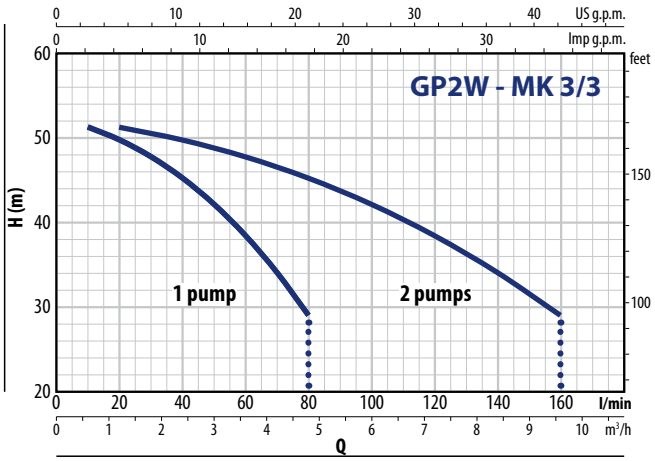
TYPE		POWER P2		Q											
Single-phase	Three-phase	kW	HP	m³/h	0	1.2	2.4	4.8	7.2	9.6	12.0	14.7	16.8	19.2	21.6
				l/min	**0**	**20**	**40**	**80**	**120**	**160**	**200**	**240**	**280**	**320**	**360**
GP2Wm - MK 3/3	**GP2W - MK 3/3**	2x0.75	2x1	H metres	52.5	51.5	50	45	38.5	29					
GP2Wm - MK 3/5	**GP2W - MK 3/5**	2x1.1	2x1.5		87	85	83	75	64	48					
GP2Wm - MK 3/6	**GP2W - MK 3/6**	2x1.5	2x2		100	100	100	90	77	58					
GP2Wm - MK 5/4	**GP2W - MK 5/4**	2x0.75	2x1		57	–	54	50	45	37.5	28.5	17			
GP2Wm - MK 5/5	**GP2W - MK 5/5**	2x1.1	2x1.5		71	–	67.5	62.5	56	47	35.5	21.5			
GP2Wm - MK 5/7	**GP2W - MK 5/7**	2x1.5	2x2		99	–	95	88	78	66	50	30			
GP2Wm - MK 5/8	**GP2W - MK 5/8**	2x2.2	2x3		100	–	100	100	90	75	57	34			
GP2Wm - MK 8/4	**GP2W - MK 8/4**	2x1.1	2x1.5		56	–	–	53.5	51	47.5	43	37.5	30.5	22	12
GP2Wm - MK 8/5	**GP2W - MK 8/5**	2x1.5	2x2		70	–	–	67	64	59.5	54	47	38	27.5	15.5
GP2Wm - MK 8/6	**GP2W - MK 8/6**	2x2.2	2x3		84	–	–	80	77	72	64.5	56	45.5	33	18.5

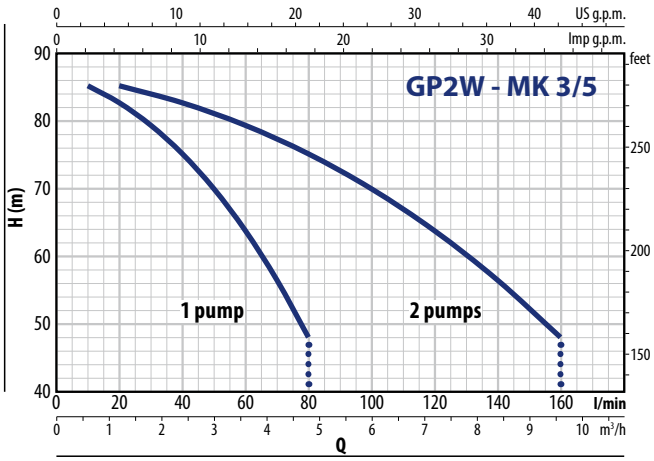
Q = Flow rate **H** = Total manometric head

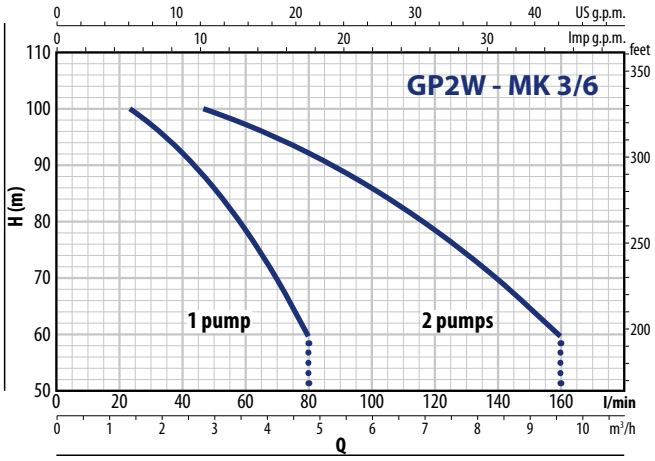
※ **The data shown in the diagram and tables indicate performance with 2 pumps in operation**

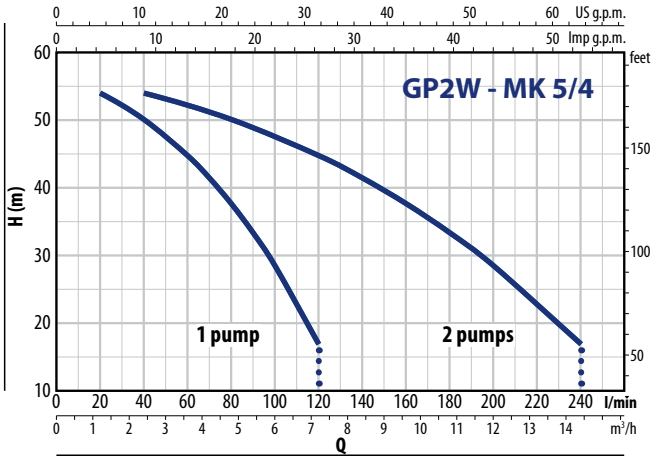
PERFORMANCE CURVES

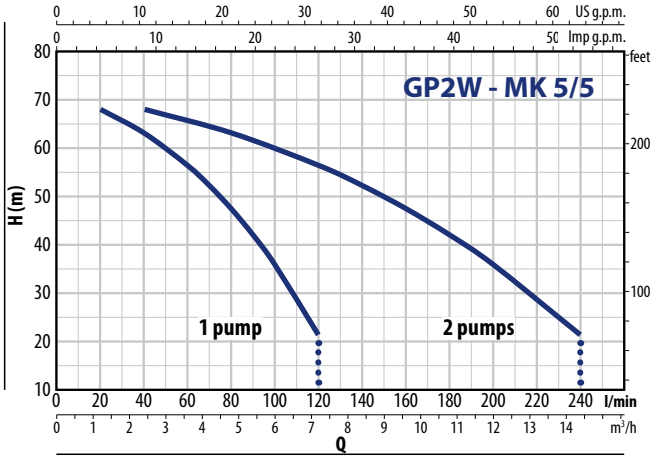
50 Hz

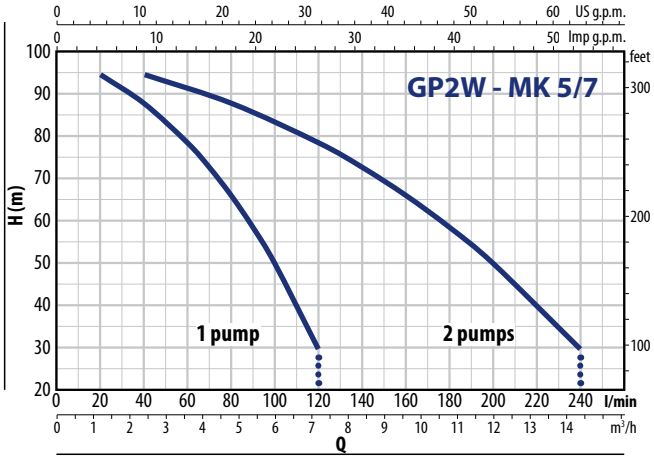


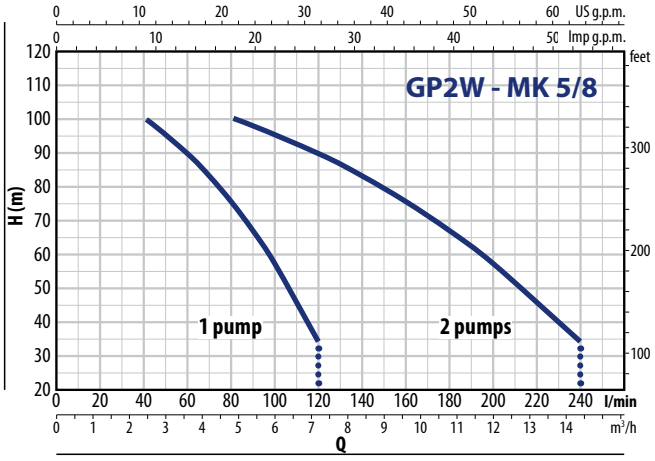


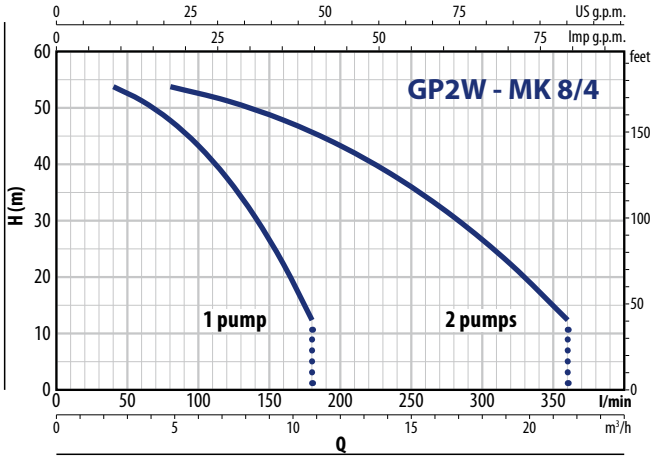








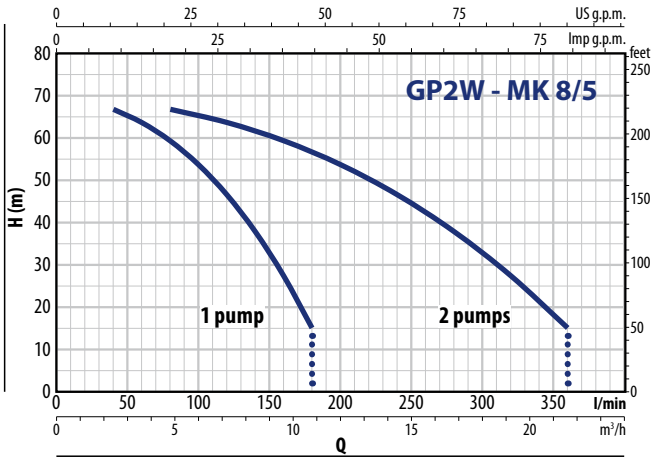


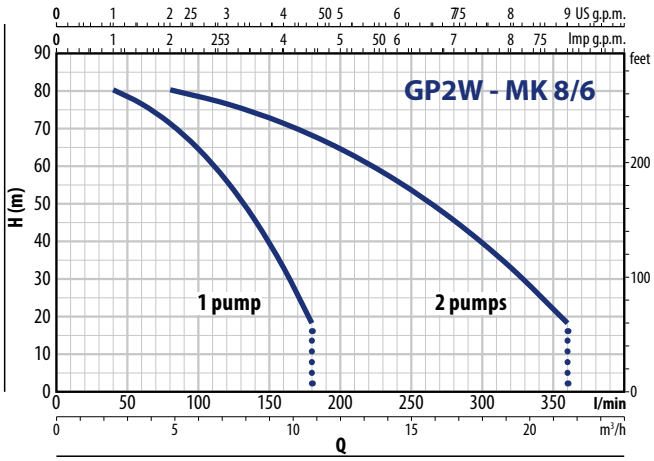


GP2W – MK

PERFORMANCE CURVES

50 Hz



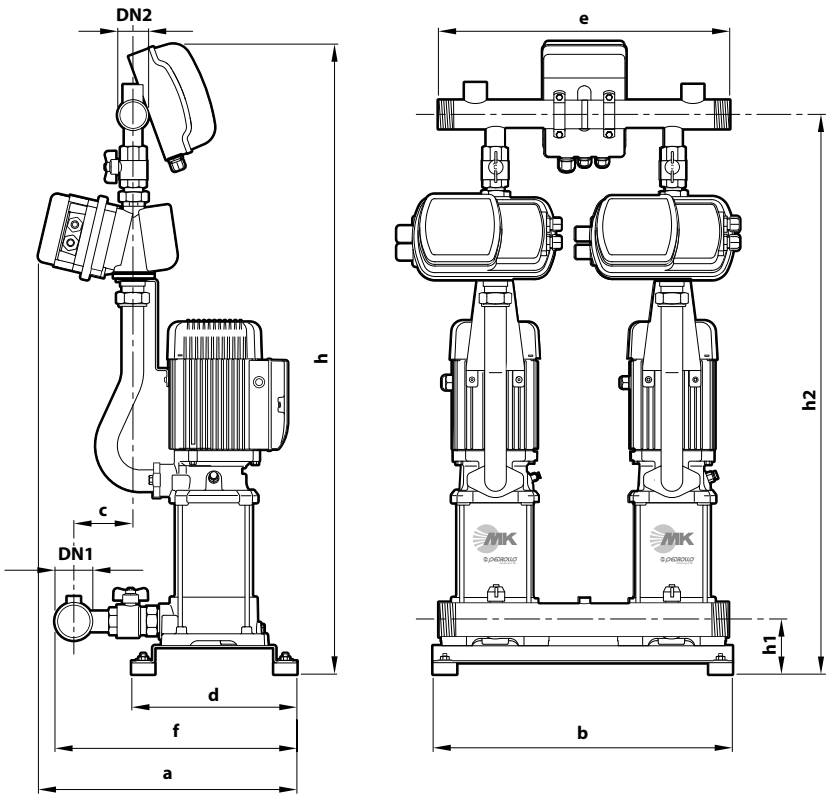


ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
GP2Wm - MK 3/3	2 x 9.0 A
GP2Wm - MK 3/5	2 x 12.5 A
GP2Wm - MK 3/6	2 x 14.0 A
GP2Wm - MK 5/4	2 x 9.0 A
GP2Wm - MK 5/5	2 x 11.0 A
GP2Wm - MK 5/7	2 x 13.5 A
GP2Wm - MK 5/8	2 x 16.0 A
GP2Wm - MK 8/4	2 x 12.5 A
GP2Wm - MK 8/5	2 x 14.0 A
GP2Wm - MK 8/6	2 x 18.0 A

TYPE **Three-phase**	VOLTAGE **400 V**
GP2W - MK 3/3	2 x 3.3 A
GP2W - MK 3/5	2 x 4.2 A
GP2W - MK 3/6	2 x 5.0 A
GP2W - MK 5/4	2 x 3.3 A
GP2W - MK 5/5	2 x 4.0 A
GP2W - MK 5/7	2 x 5.0 A
GP2W - MK 5/8	2 x 6.0 A
GP2W - MK 8/4	2 x 4.2 A
GP2W - MK 8/5	2 x 5.0 A
GP2W - MK 8/6	2 x 6.5 A

DIMENSIONS AND WEIGHT

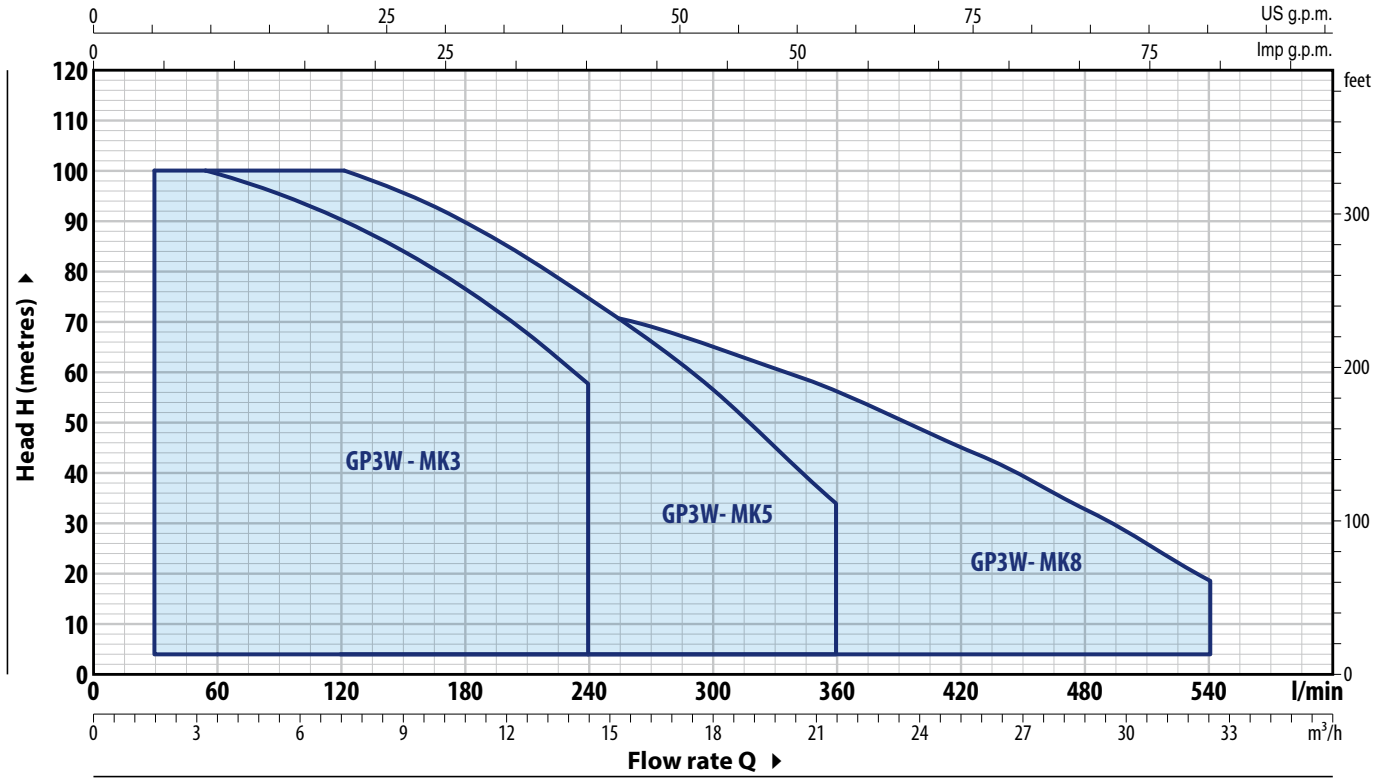


TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	f	h	h1	h2	1~	3~
GP2Wm - MK 3/3	**GP2W - MK 3/3**									965		842	80.0	79.0
GP2Wm - MK 3/5	**GP2W - MK 3/5**									1019		896	84.0	84.0
GP2Wm - MK 3/6	**GP2W - MK 3/6**									1046		923	88.0	87.0
GP2Wm - MK 5/4	**GP2W - MK 5/4**	**2"**	**1½"**			107			420	992		869	80.0	80.0
GP2Wm - MK 5/5	**GP2W - MK 5/5**									1019		896	83.0	83.0
GP2Wm - MK 5/7	**GP2W - MK 5/7**			447	510		284	500		1073	91	950	88.0	88.0
GP2Wm - MK 5/8	**GP2W - MK 5/8**									1100		977	89.0	88.0
GP2Wm - MK 8/4	**GP2W - MK 8/4**									992		869	86.0	86.0
GP2Wm - MK 8/5	**GP2W - MK 8/5**	**2½"**	**2"**			115			435	1019		896	87.0	86.0
GP2Wm - MK 8/6	**GP2W - MK 8/6**									1046		923	93.0	92.0

GP3W – MK

FIELD AND PERFORMANCE DATA

50 Hz



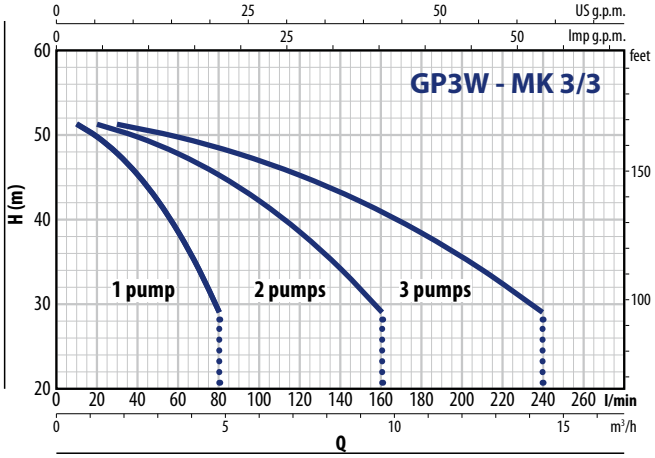
TYPE		POWER P2		Q											
Single-phase	Three-phase	kW	HP	m³/h	0	1.8	3.6	7.2	10.8	14.5	18.1	21.7	25.3	28.9	32.5
				l/min	**0**	**30**	**60**	**120**	**180**	**240**	**300**	**360**	**420**	**480**	**540**
GP3Wm - MK 3/3	**GP3W - MK 3/3**	3x0.75	3x1	H metres	52.5	51.5	50	45	38.5	29					
GP3Wm - MK 3/5	**GP3W - MK 3/5**	3x1.1	3x1.5		87	85	83	75	64	48					
GP3Wm - MK 3/6	**GP3W - MK 3/6**	3x1.5	3x2		100	100	100	90	77	58					
GP3Wm - MK 5/4	**GP3W - MK 5/4**	3x0.75	3x1		57	–	54	50	45	37.5	28.5	17			
GP3Wm - MK 5/5	**GP3W - MK 5/5**	3x1.1	3x1.5		71	–	67.5	62.5	56	47	35.5	21.5			
GP3Wm - MK 5/7	**GP3W - MK 5/7**	3x1.5	3x2		99	–	95	88	78	66	50	30			
GP3Wm - MK 5/8	**GP3W - MK 5/8**	3x2.2	3x3		100	–	100	100	90	75	57	34			
GP3Wm - MK 8/4	**GP3W - MK 8/4**	3x1.1	3x2		56	–	–	53.5	51	47.5	43	37.5	30.5	22.1	12
GP3Wm - MK 8/5	**GP3W - MK 8/5**	3x1.5	3x2.5		70	–	–	67	64	59.5	54	47	38	27.5	15.5
GP3Wm - MK 8/6	**GP3W - MK 8/6**	3x2.2	3x3		84	–	–	80	77	72	64.5	56	45.5	33	18.5

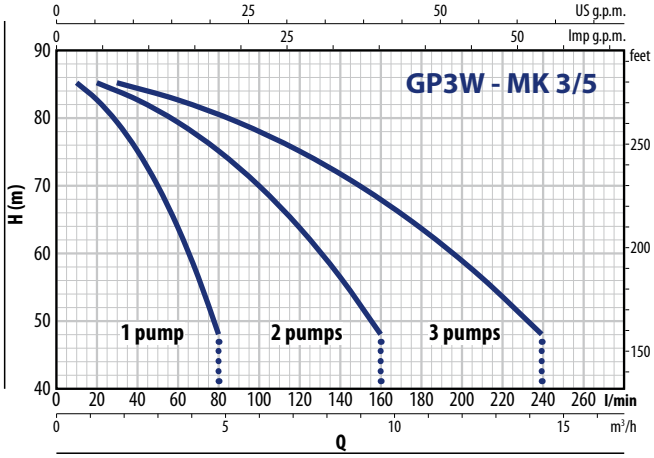
Q = Flow rate **H** = Total manometric head

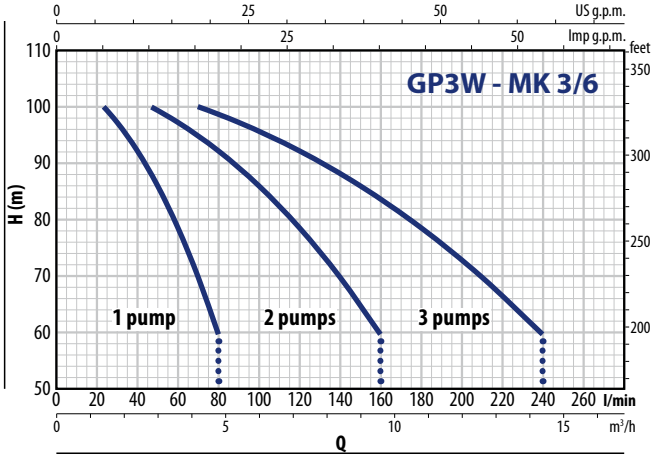
※ **The data shown in the diagram and tables indicate performance with 3 pumps in operation**

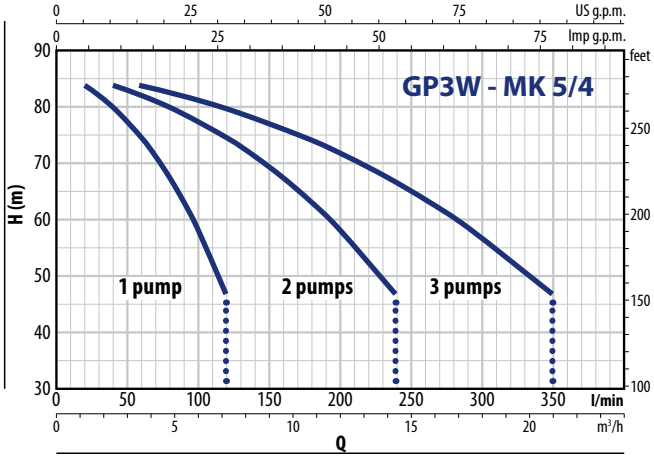
PERFORMANCE CURVES

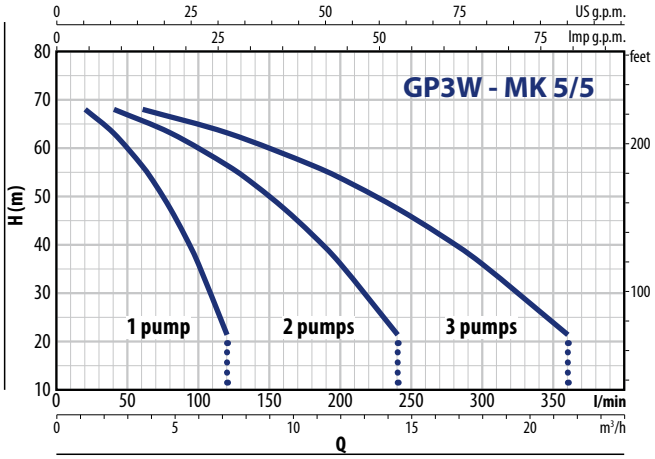
50 Hz

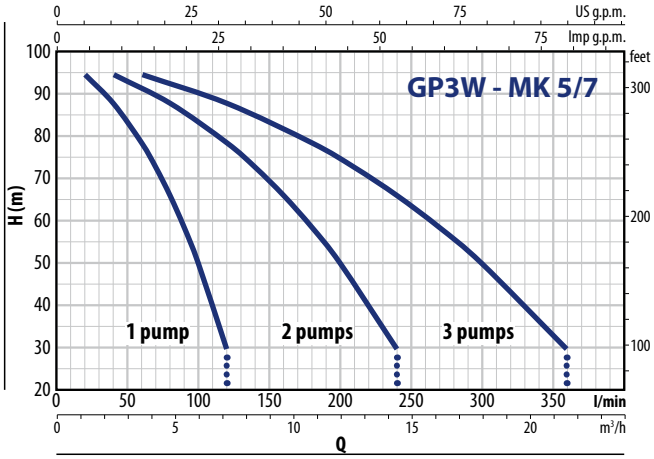


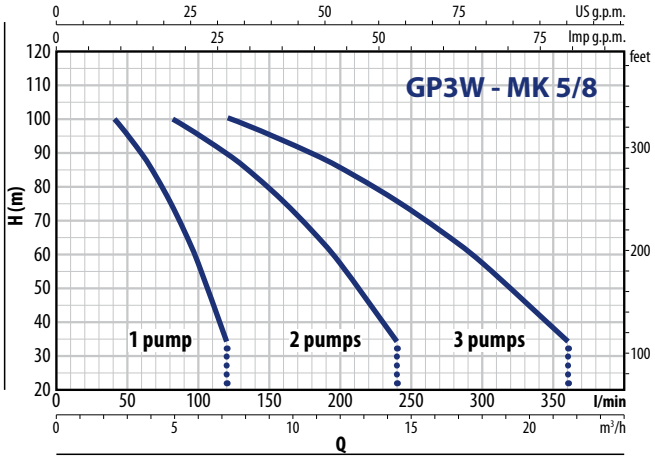


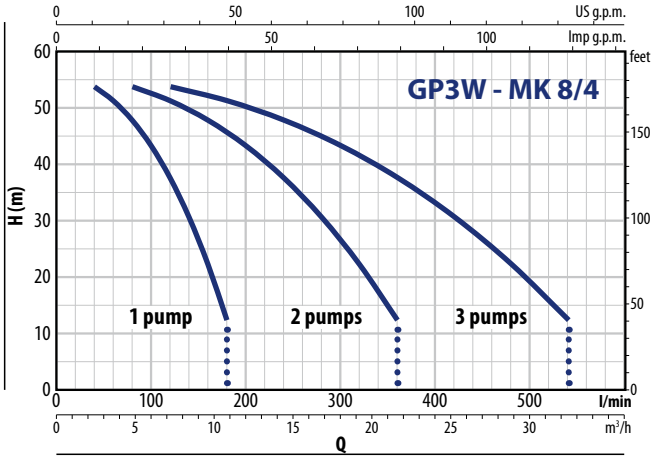








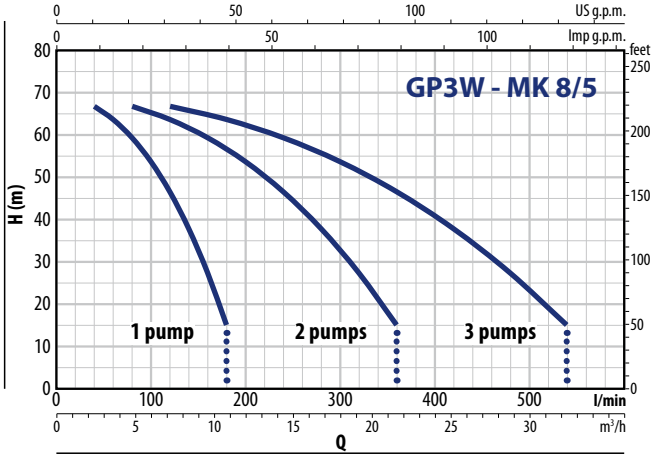


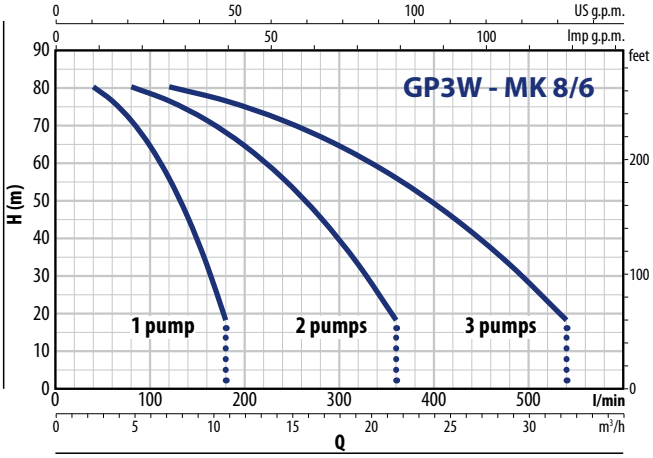


GP3W – MK

PERFORMANCE CURVES

50 Hz



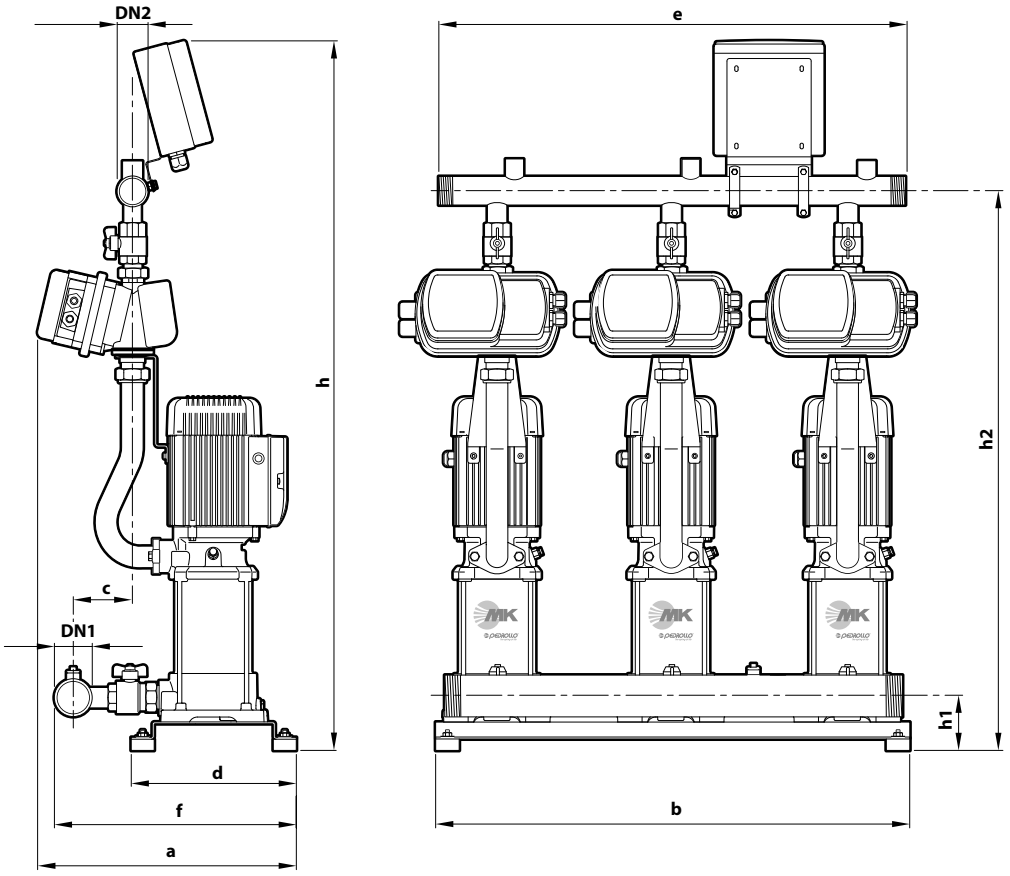


ABSORPTION

TYPE **Single-phase**	VOLTAGE **230 V**
GP3Wm - MK 3/3	3 x 9.0 A
GP3Wm - MK 3/5	3 x 12.5 A
GP3Wm - MK 3/6	3 x 14.0 A
GP3Wm - MK 5/4	3 x 9.0 A
GP3Wm - MK 5/5	3 x 11.0 A
GP3Wm - MK 5/7	3 x 13.5 A
GP3Wm - MK 5/8	3 x 16.0 A
GP3Wm - MK 8/4	3 x 12.5 A
GP3Wm - MK 8/5	3 x 14.0 A
GP3Wm - MK 8/6	3 x 18.0 A

TYPE **Three-phase**	VOLTAGE **400 V**
GP3W - MK 3/3	3 x 3.3 A
GP3W - MK 3/5	3 x 4.2 A
GP3W - MK 3/6	3 x 5.0 A
GP3W - MK 5/4	3 x 3.3 A
GP3W - MK 5/5	3 x 4.0 A
GP3W - MK 5/7	3 x 5.0 A
GP3W - MK 5/8	3 x 6.0 A
GP3W - MK 8/4	3 x 4.2 A
GP3W - MK 8/5	3 x 5.0 A
GP3W - MK 8/6	3 x 6.5 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm									kg	
Single-phase	**Three-phase**	DN1	DN2	a	b	c	d	e	f	h	h1	h2	1~	3~
GP3Wm - MK 3/3	**GP3W - MK 3/3**									1143		849	123.0	124.0
GP3Wm - MK 3/5	**GP3W - MK 3/5**									1197		876	130.0	130.0
GP3Wm - MK 3/6	**GP3W - MK 3/6**									1224		930	135.0	136.0
GP3Wm - MK 5/4	**GP3W - MK 5/4**									1170		876	124.0	125.0
GP3Wm - MK 5/5	**GP3W - MK 5/5**									1197		903	129.0	130.0
GP3Wm - MK 5/7	**GP3W - MK 5/7**	**2½"**	**2"**	447	810	115	284	800	435	1251	91	957	136.0	136.0
GP3Wm - MK 5/8	**GP3W - MK 5/8**									1278		984	140.0	140.0
GP3Wm - MK 8/4	**GP3W - MK 8/4**									1170		876	131.0	132.0
GP3Wm - MK 8/5	**GP3W - MK 8/5**									1197		903	132.0	133.0
GP3Wm - MK 8/6	**GP3W - MK 8/6**									1224		930	142.0	142.0





PERFORMANCE RANGE

- Flow rate up to **3.5 m³/h** (0.97 l/s)
- Head up to **6 m**

INSTALLATION AND USE

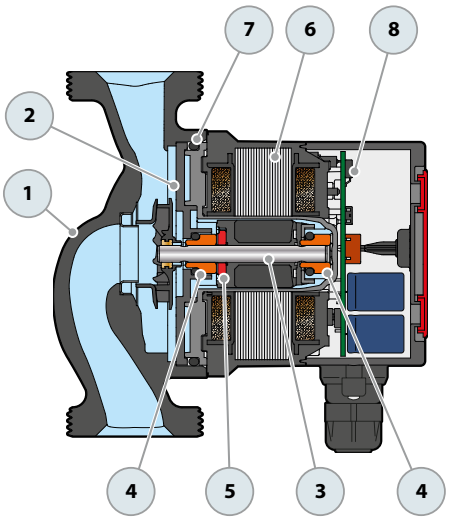
Energy-efficient, class A electronic circulators significantly reduce electricity use by up to 85% compared to traditional models with similar performance, making them an ideal choice for home and residential heating systems. These circulators feature advanced control electronics that allow for customizable functionality to meet the specific needs of various systems. Users can easily adjust and select the desired operating program directly from the user interface's controller, enhancing system efficiency and comfort by minimizing energy consumption and reducing water flow noise in pipes, valves, and radiators. For optimal performance, installation should be in well-ventilated, enclosed spaces or areas protected from the elements.

APPLICATION LIMITS

- Liquid temperature between **+2 °C** and **+95 °C**
- Ambient temperature between **0 °C** and **+40 °C**
- Maximum working pressure = **6 bar**.
- Minimum suction pressure:
  - **0.3 bar** to 50 °C
  - **1.0 bar** to 95 °C
- Maximum relative humidity **≤ 95%.**
- Sound pressure level < **43 db(A)**
- Glycol maximum **30%**
- Continuous running duty **S1**

COMPONENTS

1	**Pump body**	Cast iron with cataphoresis treatment
2	**Impeller**	Technopolymer
3	**Shaft**	Ceramic
4	**Bearings**	Graphite
5	**end thrust, thrust**	Ceramic
6	**Motor**	– Motor 230 V (-10%; +6%) - 50 Hz – Power consumption P1: min 3 W - max 42 W – Absorbed current I1: Min 0.03 A - Max 0.33 A – Insulation: class H – Protection rating: IP 44 – Appliance class: II
7	**Gaskets**	EPDM
8	**Circuit board**	



OPERATING MODE

The user interface enables users to select the optimal working curve for the circulator through three distinct programs. A bright LED indicator displays the circulator's operating status, with variations in illumination providing clear, at-a-glance information.



P
1 and 2

PROPORTIONAL PROGRAM

GREEN LED

This setting proportionally adjusts the pressure (head) based on the system's heat demand and desired flow rate



C
I and II

CONSTANT PROGRAM

ORANGE LED

This setting maintains a constant pressure level (head) according on the system's heat demand and desired flow rate.



MIN
MAX

CUSTOMISED PROGRAM

LED BLU

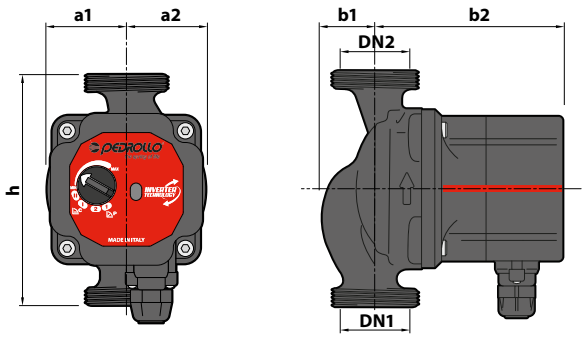
Allows the pump's speed to be set to a constant level, adjustable through a selector that can be positioned between the MIN and MAX settings to fine-tune performance.

An LED indicator on the user interface alerts to the potential presence of air in the system. Should this occur, the circulator's on-board electronics automatically engage a motor unlocking feature to resolve the issue.

WHITE LED
Presence of air in the system. Bleed the system

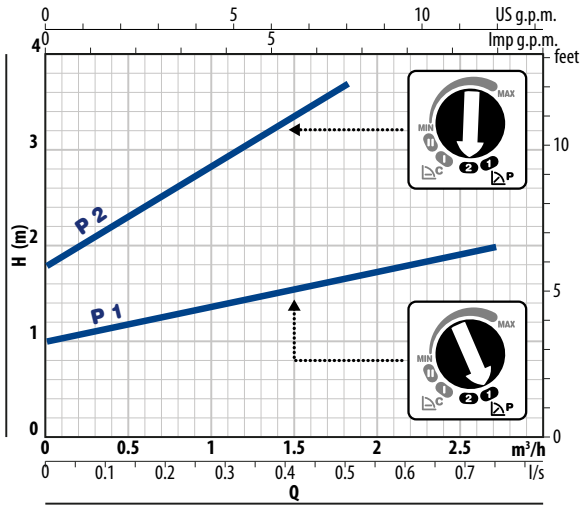
RED LED
The circulator is in a locked state but is still under power

DIMENSIONS AND WEIGHT

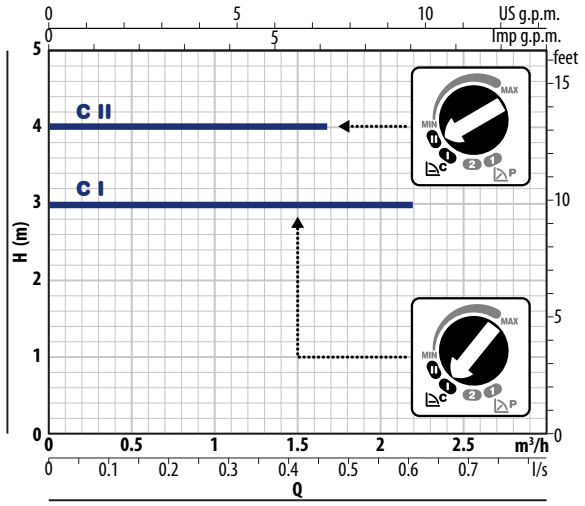


TYPE	PORTS		DIMENSIONS mm					kg
Single-phase	**DN1**	**DN2**	h	a1	a2	b1	b2	
DHL 25-60/130	**G 1½**	**G 1½**	**130**	45	45	29	104.2	2.01
DHL 25-60/180			**180**					2.60

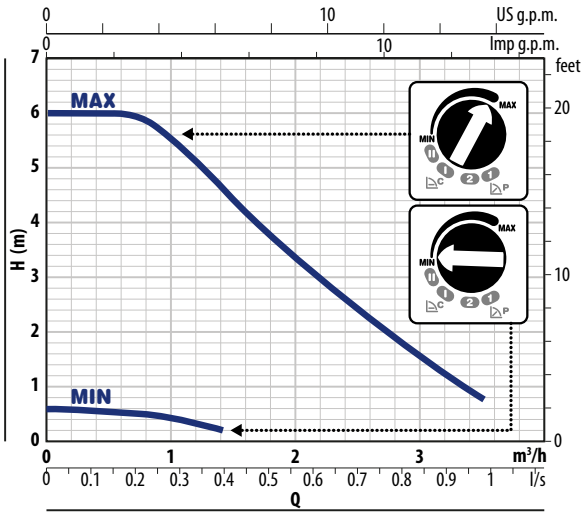
PERFORMANCE CURVES P



PERFORMANCE CURVES C



PERFORMANCE CURVES MIN – MAX



E1 - E2 Electronic control panels for pumps



INSTALLATION AND USE

E1/E2 are **multifunctional electronic control panels** designed to manage one or two pumps in residential, commercial, or industrial settings.
Thanks to their versatility, they provide protection and facilitate operations such as pressurization, filling, drainage, and emptying, accommodating both clean and wastewater applications.

PRODUCT DESCRIPTION

E1/E2 electronic control panels offer unmatched adaptability for various systems by featuring **six selectable operating modes**. These modes facilitate comprehensive pump management and protection through both analogue and digital inputs, alongside electrical parameter monitoring.

Equipped with an intuitive **keypad and LCD display**, the panels simplify programming and configuration of pump settings, protections, and operational modes through a user-friendly guided process.

These panels feature **dry-running protection**, managed through power factor (**cosφ**), current control, or by activating a float or level probe. The integrated self-learning Wizard simplifies the system initialization by automatically storing key electrical parameter values, ensuring a quick and straightforward setup.

When managing two pumps, the **E2** panel automatically switches between them, reducing wear and maximizing efficiency in their operation.

MAIN FEATURES

※ Power supply:
1~ 230V±15% (E1/E2 MONO)
3~ 400V±15% (E1/E2 TRI)
※ Frequency: **50/60 Hz**
※ door lock main isolating switch,
※ Motor and auxiliary circuit protection fuse
※ **ABS** outer container
※ **IP55** protection degree
※ Ambient temperature: **-5 °C ÷ +40 °C**
※ Relative humidity **50% at 40 °C**

INPUTS

E1/E2 electronic control panels allow pumps to be managed via analogue and digital inputs:
※ Pressure switches
※ Floats
※ Remote contacts
※ Run/stop floats
※ Level probes
※ Pressure transducers

CONTROLS

※ Minimum and maximum operating current control
※ Minimum and maximum supply voltage control
※ Input phase failure or inversion control

E1 Electronic control panel for one single pump

TYPE	VOLTAGE	CURRENT POWER (*)	FUSES PROTECTION
E1 MONO	**1~ 230 V - 50/60 Hz**	up to **18 A**	**20 A**
E1 TRI/1	**3~ 400 V - 50/60 Hz**	up to **18 A**	**20 A**
E1 TRI/2	**3~ 400 V - 50/60 Hz**	up to **25 A**	**32 A**

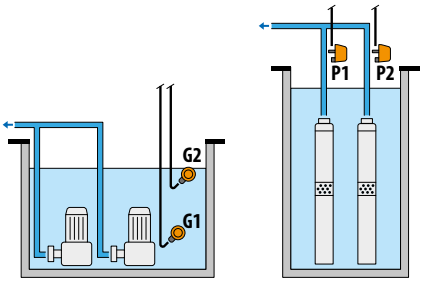
(*) The rated current value refers to a single electric pump

E2 Electronic control panel for two pumps

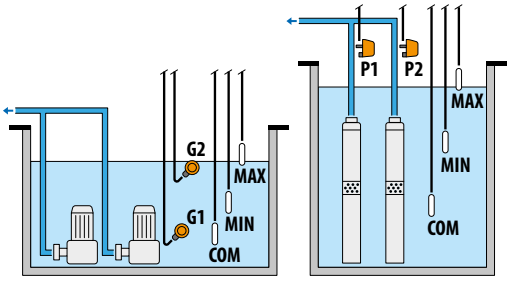
TYPE	VOLTAGE	CURRENT POWER (*)	FUSES COVER
E2 MONO	**1~ 230V - 50/60 Hz**	up to **18 A**	**20 A**
E2 TRI	**3~ 400V - 50/60 Hz**	up to **16 A**	**32 A**

OPERATING MODE

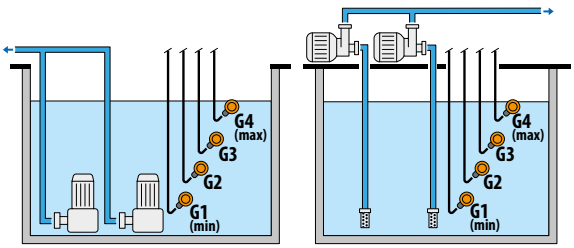
MODE 1: **DRAINING AND PRESSURIZING**
Dry run protection via cosφ or current



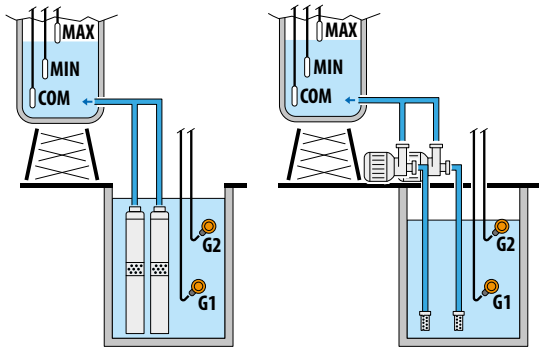
MODE 2: **DRAINING AND PRESSURIZING**
Dry run protection via level probes



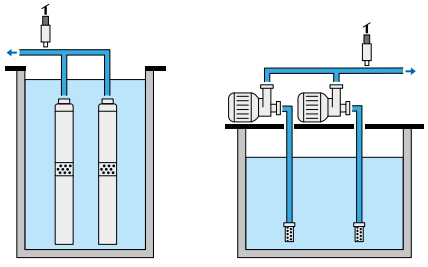
MODE 3: **DRAINING**
Dry run protection via minimum float switch



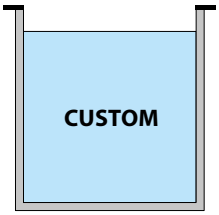
MODE 4: **FILLING**
Dry run protection via minimum float switch



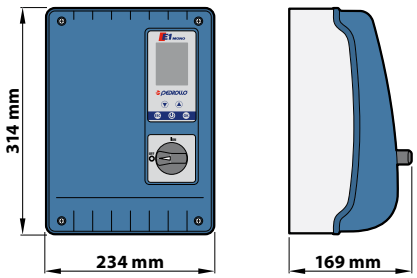
MODE 5: **PRESSURIZING**
Dry run protection via cosφ or current

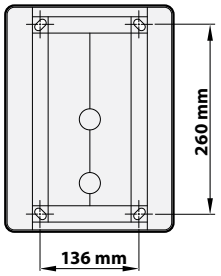


MODE 6: CUSTOMIZED:



DIMENSIONS AND HOLE SPACING FOR MOUNTING





CONTROL PANELS



QEM/3 Control panel for 3" submersible pumps

TYPE	CODE	POWER MOTOR (P2)		CAPACITOR	CURRENT POWER
Single-phase		kW	HP	CAPACITY	A
QEM/3-050	530ECS305A1	0.37	**0.50**	12.5 µF	5
QEM/3-075	530ECS307A1	0.55	**0.75**	16 µF	6
QEM/3-100	530ECS310A1	0.75	**1**	20 µF	7
QEM/3-150	530ECS315A1	1.1	**1.5**	30 µF	10

※ Single-phase 230 V 50 Hz



QEM Control panel for 4" single-phase submersible pumps

TYPE	CODE	POWER MOTOR (P2)		CAPACITOR	CURRENT POWER
Single-phase		kW	HP	CAPACITY	A
QEM 050	530ECN05A1	0.37	**0.50**	20 µF	5
QEM 075	530ECN07A1	0.55	**0.75**	25 µF	6
QEM 100	530ECN10A1	0.75	**1**	35 µF	7
QEM 150	530EC15A1	1.1	**1.5**	40 µF	11
QEM 200	530ECN20A1	1.5	**2**	60 µF	13
QEM 300	530EC30A1	2.2	**3**	75 µF	18

※ Single-phase 230 V 50 Hz



QET Control panel for 3", 4" and 6" three-phase submersible pumps

TYPE	CODE	POWER MOTOR (P2)		CURRENT POWER
Three-phase		kW	HP	A
QET 050	530TNF05A	0.37	**0.50**	1.7
QET 075	530TNF07A	0.55	**0.75**	2
QET 100	530TNF10A	0.75	**1**	2.5
QET 150	530TNF15A	1.1	**1.5**	3.9
QET 200	530TNF20A	1.5	**2**	4.8
QET 300	530TNF30A	2.2	**3**	7
QET 400	530TNF40A	3	**4**	9
QET 550	530TNF55A	4	**5.5**	11.5
QET 750	530TNF75A	5.5	**7.5**	15.5
QET 1000	530AD100A	7.5	**10**	21.5
QET 1250	530AD125A	9.2	**12.5**	23.5
QET 1500	530AD150A	11	**15**	27.5
QET 2000	530AD200A	15	**20**	36
QET 2500	530AD250A	18.5	**25**	45
QET 3000	530AD300A	22	**30**	54
QET 4000	530AD400A	30	**40**	68
QET 5000	530AD500A	37	**50**	85

※ The control panel is equipped with a selector switch for manual or automatic operation with provision for connecting a float switch (or pressure switch, etc.).

※ Three-phase 400 V - 50 Hz

QSM Control panel 4" single-phase pumps with level probes





Probes indicator

TYPE Single-phase	CODE	POWER MOTOR (P_2) kW	HP	CAPACITOR CAPACITY	CURRENT POWER A
QSM 050	530MFLCN05A1	0.37	**0.50**	20 µF	5
QSM 075	530MFLCN07A1	0.55	**0.75**	25 µF	6
QSM 100	530MFLCN10A1	0.75	**1**	35 µF	7
QSM 150	530MFLC15A1	1.1	**1.5**	40 µF	11
QSM 200	530MFLCN20A1	1.5	**2**	60 µF	13
QSM 300	530MFLC30A1	2.2	**3**	75 µF	18

※ The control panel features a selector switch allowing for either manual or automatic operation. It comes preconfigured to connect with devices like a float switch, pressure switch, or level probes, offering protection against the pump running dry.
※ **Single-phase 230 V 50 Hz**

QST Control panel for 3", 4" and 6" three-phase pumps with level probes





Probes indicator

TYPE Three-phase	CODE	MOTOR POWER (P_2) kW	HP	CURRENT POWER A
QST 50	530TFLC05A	0.37	**0.50**	1.7
QST 75	530TFLC07A	0.55	**0.75**	2
QST 100	530TFLC10A	0.75	**1**	2.5
QST 150	530TFLC15A	1.1	**1.5**	3.9
QST 200	530TFLC20A	1.5	**2**	4.8
QST 300	530TFLC30A	2.2	**3**	7
QST 400	530TFLC40A	3	**4**	9
QST 550	530TFLC55A	4	**5.5**	11.5
QST 750	530TFLC75A	5.5	**7.5**	15.5
QST 1000	530ADL100A	7.5	**10**	21.5
QST 1250	530ADL125A	9.2	**12.5**	23.5
QST 1500	530ADL150A	11	**15**	27.5
QST 2000	530ADL200A	15	**20**	36
QST 2500	530ADL250A	18.5	**25**	45
QST 3000	530ADL300A	22	**30**	54
QST 4000	530ADL400A	30	**40**	68
QST 5000	530ADL500A	37	**50**	85

※ The control panel features a selector switch allowing for either manual or automatic operation. It comes preconfigured to connect with devices like a float switch, pressure switch, or level probes, offering protection against the pump running dry.
※ Three-phase 400 V - 50 Hz

CONTROL PANELS



QES Control panel for three-phase drainage pumps

TYPE Three-phase	CODE	POWER MOTOR (P_2) kW	 HP	CURRENT POWER A
QES 150	532QES150A	1.1	**1.5**	4.2
QES 200	532QES200A	1.5	**2**	5.2
QES 300	532QES300A	2.2	**3**	6.5
QES 400	532QES400A	3	**4**	8

※ The control panel features a selector switch allowing for either manual or automatic operation. It comes preconfigured to connect with devices like a float switch and the integrated thermal protector for VXC, VXC-F, MC, MC-F drainage pumps

※ **Three-phase 380 - 415V 50 Hz**



ALARM KIT Electronic control panel for SAR 250 and SAR 550

TYPE	CODE	VOLTAGE
ALARM KIT	KSKIT-ALARM	**single-phase 230V 50 Hz**

※ The panel contains an electronic board, a buffer battery to power the panel, a red flashing light and a 90 dB alarm siren at 1 m.

※ The panel is preconfigured for the connection of a float switch (included in the kit) that triggers the alarm when the contact is closed.


SF

SF - SPHERICAL TANK

TYPE	CODE	FITTING	CAPACITY	PALLET CAPACITY No. of tanks
24 SF	50011	1"	**24 litres**	**54**

※ Maximum operating pressure **8 bar** - Interchangeable butyl rubber diaphragm


CL

CL -CYLINDRICAL TANKS

TYPE	CODE	FITTING	CAPACITY	PALLET CAPACITY No. of tanks
24 CL	50012	1"	**20 litres**	**56**
60 CL	50031	1"	**60 litres**	**15**
100 CL	50032	1"	**100 litres**	**12**

※ Maximum operating pressure **10 bar** - Interchangeable butyl rubber diaphragm


VT

VT - VERTICAL TANKS

TYPE	CODE	FITTING	CAPACITY	PALLET CAPACITY No. of tanks
8 VT	50051	1"	**8 litres**	**189**
19 VT	50052	1"	**19 litres**	**63**
60 VT	50040	1"	**60 litres**	**15**
100 VT	50041	1"	**100 litres**	**12**
200 VT	50042	1½"	**200 litres**	**6**
300 VT	50043	1½"	**300 litres**	**6**

※ Maximum operating pressure **10 bar (8 bar** for 8VT, 19VT) - Interchangeable butyl rubber diaphragm

REPLACEMENT MEMBRANE

24 SF	CODE 50019
24 CL	CODE 50019
60 CL	CODE 5001960
100 CL	CODE 50019100

REPLACEMENT MEMBRANE

8 VT	CODE 5001905/8
19 VT	CODE 50019
60 VT	CODE 5001960
100 VT	CODE 50019100
200 VT	CODE 50019200C
300 VT	CODE 50019300


1SF 05SF

SF - *SPHERICAL TANKS WITH FIXED MEMBRANE*

TYPE	CODE	FITTING	CAPACITY
05SF 0.5	500570045	½"	**½ litre**
05SF 1.0	500570090	1"	**½ litre**
1SF 0.5	50057005	½"	**1 litre**
1SF 1.0	50057010	1"	**1 litre**

※ Maximum operating pressure **10 bar**
※ Start of production: 03.2024 for 1SF – 07.2024 for 05SF

ACCESSORIES

ROUND TANK KIT

KSP-24





PSG-1



FSG2

TYPE	CODE
KSP-24 ※ **24-litre** round tank ※ Pressure gauge **0 - 6 bar**. ※ 5-way fitting - G 1" ※ Pressure switch '**PSG-1**	50008SP24
KSD-24 ※ **24-litre** round tank ※ Pressure gauge **0 - 6 bar**. ※ 5-way fitting - G 1" ※ Pressure switch '**FSG2**	50010

CYLINDER KITS

KCP-24





PSG-1



FSG2

TYPE	CODE
KCP-24 ※ **20-litres** cylindrical tank ※ Pressure gauge **0 - 6 bar**. ※ 5-way fitting - G 1" ※ Hose G 1" (**500 mm**) ※ Pressure switch '**PSG-1**	50008CP24
KCD-24 ※ **20-litre** cylindrical tank ※ Pressure gauge **0 - 6 bar.** ※ 5-way fitting - G 1" ※ Hose G 1" **(500 mm)** ※ Pressure switch '**FSG2**	50009

KCP-60





PSG-1



FSG2

TYPE	CODE
KCP-60 ※ **60-litre** cylindrical tank ※ Pressure gauge **0 - 6 bar**. ※ 5-way fitting - G 1" ※ Hose G 1" (**600 mm**) ※ Pressure switch'**PSG-1**	50008CP60
KCD-60 ※ **60-litre** cylindrical tank ※ Pressure gauge **0 - 6 bar.** ※ 5-way fitting - G 1" ※ Hose G 1" **(600 mm)** ※ Pressure switch '**FSG2**	50009/67

ACCESSORIES FOR ELECTRIC SUBMERSIBLE PUMPS



TYPE	CODE	CABLE DIAMETER	CABLE WEIGHT	TENSILE STRENGTH
SAFETY CABLE (in polypropylene)	116310	**Ø 8 mm**	30 gr/m	960 kg
	116311	**Ø 10 mm**	45 gr/m	1425 Kg
	116312	**Ø 12 mm**	65 gr/m	2030 kg
	116313	**Ø 14 mm**	90 gr/m	2790 kg
	116314	**Ø 16 mm**	115 gr/m	3500 kg

※ Twisted cable made of UV-stabilised polypropylene yarn
※ Maximum available reel length: 220 metres



SAFETY CABLE (AISI 316 stainless steel)	116305	**Ø 5 mm**	100 gr/m	1500 kg

※ 49 wire cable in AISI 316 stainless steel
※ Maximum available reel length: 250 metres



STRAIGHT SHACKLE WITH PIN (For **8 mm** cable) (in **AISI 316** stainless steel)	CODE 1160305



5 mm CABLE CLAMP (in **AISI 316** stainless steel)	CODE 1160304

FLOAT SWITCHES



TYPE	CODE		LENGTH
	CABLE = **H07 RN-F**	**PVC** CABLE	
0315/3	50014H	50014	**3 metres**
0315/5	500145H	500145	**5 metres**
0315/10	5001410H	5001410	**10 metres**

※ With cable **H07 RN-F**: single function (emptying), with 10 A switch
※ With cable **PVC**: dual function (emptying and filling), with 10 A switch



T 80/3	50014/1H	50014/1	**3 metres**
T 80/5	50014/5H	50014/5	**5 metres**
T 80/10	50014/10H	50014/10	**10 metres**

※ With **H07 RN-F** cable: single-function (emptying), double sealed float switches, with 10 A switch
※ With **PVC** cable: dual-function (emptying and filling), double sealed float switches, with 10 A switch



SMALL 3	50014S4	50014S3	**3 metres**
SMALL 5	50014S5	50014S51	**5 metres**

※ With **H07 RN-F** cable: single-function (emptying), double sealed float switches, with 10 A switch
※ With **PVC** cable: dual-function (emptying and filling), double sealed float switches, with 10 A switch



TYPE	CODE	CABLE	LENGTH
MAC 5	54SARGL001	PVC	10 **metres**

※ Tilting float: dual function (emptying and filling), double sealed protection chamber, with 10 A switch
※ Recommended for Waste Water Recovery Stations (SAR)

ACCESSORIES





AIRFLO - AIR FEEDERS

TYPE	CODE	TANK CAPACITY
AIRFLO 1	50021	100 + 500 litres
AIRFLO 2	50022	750 + 2000 litres

※ Air feeders suitable for maintaining the air cushion in autoclave tanks without a membrane.

NA *- 3-WAY NIPPLE FOR AIR FEEDERS*

TYPE	CODE	FITTING	DOUBLE CENTRAL ATTACK
NA < 1.00	50023	**1" x 1"**	½" x ¼" (male/female)
NA < 1.25	50023/1	**1¼"** x **1¼"**	½" x ¼" (male/female)
NA < 1.50	50023/2	**1½"** x **1½"**	½" x ¼" (male/female)
NA < 2.00	50023/3	**2" x 2"**	½" x ¼" (male/female)

※ 3-way brass fittings for air supply connections (AIRFLO)



PSG



FSG

PRESSURE SWITCHES

TYPE	CODE	FITTING	CALIBRATION (*)
PSG-1	50018/8	**¼" Female**	**1.4 – 2.8 bar**
PSG-1M	50018/8M	**¼" Male**	**1.4 – 2.8 bar**
FSG 2	50018	**¼" Female**	**1.4 – 2.8 bar**
FYG 22	50018/1	**¼" Female**	**5.4 – 7.0 bar**
FYG 32	50018/2	**¼" Female**	**8 – 10.5 bar**
PT/5 SK (Three-phase)	50018/8T	**¼" Female**	**1.4 – 2.8 bar**

※ **PSG** registered Community model no. 002248955
(*) Adjustable



MC



MR



MCG



MRG

PRESSURE GAUGES

TYPE	CODE	FITTING	DIAMETER	SCALE
MC 6	50015/2	**¼"** - central	**50 mm**	0 – **6 bar**
MR 6	50015	**¼"** - radial	**63 mm**	0 – **6 bar**
MR 10	50015/0	**¼"** - radial	**63 mm**	0 – **10 bar**

GLYCERINE BATH PRESSURE GAUGES

TYPE	CODE	FITTING	DIAMETER	SCALE
MCG 6	50015/2G	**¼"** - central	**50 mm**	0 – **6 bar**
MRG 6	50015G	**¼"** - radial	**63 mm**	0 – **6 bar**
MRG 10	50015/0G	**¼"** - radial	**63 mm**	0 – **10 bar**



FITTINGS 3-5 WAYS

TYPE	CODE	FITTING
R 3 - 3 vie	50017	**1"**
R 4 - 4 vie	50016V8	**1"**
R 5 - 5 vie	50016	**1"**

※ **R 3**: three-way brass fitting with **G 1"** connections
※ **R 4**: four-way brass fitting with **G ½"** and **G ¼"** connections
※ **R 5**: five-way brass fitting with **G 1"** and **G ¼"** connections



HOSES

TYPE	CODE	TUBE	FITTINGS	LENGTH
TF 5	50013	**1"**	**1" x 1"**	**500 mm**
TF 6	50013/1	**1"**	**1" x 1"**	**600 mm**
TF 10	50013/6	**1"**	**1" x 1"**	**1000 mm**

※ EPDM rubber hoses
※ Maximum operating pressure **10 bar**



HOSES COMPLETE WITH ELBOW

TYPE	CODE	TUBE	FITTINGS	LENGTH
TFG 5	50013/01	**¾"**	**1" x 1"**	**500 mm**
TFG 6	50013/10	**1"**	**1" x 1"**	**600 mm**

※ EPDM rubber hoses
※ Maximum operating pressure **10 bar**



QUICK RELEASE COUPLINGS

TYPE	CODE	Hose connector diameter	Male union thread
FASTFIT 1.25	5027125	**Ø 32 mm**	**1¼"**
FASTFIT 1.5	5027150	**Ø 38 mm**	**1½"**
FASTFIT 2	5027200	**Ø 50 mm**	**2"**
FASTFIT 3	5027300	**Ø 75 mm**	**3"**

※ CAMLOCK polypropylene quick release coupling kit: - n.1 female coupling with hose connector - n.1 male coupling with male thread





HOSE FITTINGS

TYPE	CODE	RUBBER HOLDER	THREADED CONNECTOR
RP 0.75	50210	**Ø 25 mm**	**¾"**
RP 1	50211	**Ø 30 mm**	**1"**
RP 1.25	50212	**Ø 35 mm**	**1¼"**
RP 1.5	50213	**Ø 40 mm**	**1½"**
RP 2	50214	**Ø 50 mm**	**2"**
RPG 0.75	50220	**Ø 25 mm**	**¾"**
RPG 1	50221	**Ø 30 mm**	**1"**
RPG 1.25	50222	**Ø 35 mm**	**1¼"**
RPG 1.5	50223	**Ø 40 mm**	**1½"**
RPG 2	50224	**Ø 50 mm**	**2"**

※ Nylon fittings

ACCESSORIES



VF - *FOOT VALVES*

TYPE	CODE	FITTING
VF 0.5	50100	**½"**
VF 0.75	50101	**¾"**
VF 1	50102	**1"**
VF 1.25	50103	**1¼"**
VF 1.5	50104	**1½"**
VF 2	50105	**2"**

※ Brass foot valves with stainless steel suction filter



VR - *CHECK VALVES*

TYPE	CODE	FITTINGS
VR 0.5	50110	**½"**
VR 0.75	50111	**¾"**
VR 1	50112	**1"**
VR 1.25	50113	**1¼"**
VR 1.5	50114	**1½"**
VR 2	50115	**2"**

※ Brass check valves



VR-FT - *BALL CHECK VALVES*

TYPE	CODE	FITTINGS
VR-FT 1.25	501201	**1¼"**
VR-FT 1.5	501202	**1½"**
VR-FT 2	501203	**2"**

※ Check valves for submersible pumps (sewage)
※ Max. operating pressure **16 bar**
※ Min. operating pressure **0.3 bar**
※ Operating temperature 0 °C - **+80 °C**



VR-FF - *BALL CHECK VALVES*

TYPE	CODE	FITTINGS
VR-FF/DN 65 - FLANGED	501210	**DN 65** (PN16) **2½"**
VR-FF/DN 80 - FLANGED	501212	**DN 65** (PN16) **2½"**
VR-FF/DN 100 - FLANGED	501214	**DN 65** (PN16) **2½"**

※ Check valves for submersible pumps (sewage).
※ Max. operating pressure **16 bar**
※ Min. operating pressure **0.3 bar**
※ Operating temperature 0 °C - **+80 °C**



SCHUKO SOCKET WITH PROTECTIVE SHELLS

TYPE	CODE
PSC	117985

※ Water and dust protection with IP 65 or IP 67 rating
※ Mechanical protection from tearing



ELECTRIC CABLES FOR ELECTRIC SUBMERSIBLE PUMPS

TYPE	CODE	TYPE	WEIGHT PER METRE
4 x 1 mm²	117G100AN	H07 RN-F	0.165 kg
4 x 1.5 mm²	117G150AN	H07 RN-F	0.205 kg
4 x 2.5 mm²	117G200AN	H07 RN-F	0.290 kg
4 x 4 mm²	117G250AN	H07 RN-F	0.420 kg
4 x 6 mm²	117G300AN	H07 RN-F	0.505 kg
4 x 10 mm²	117G350AN	H07 RN-F	1.030 Kg
4 x 16 mm²	117G400AN	H07 RN-F	2.050 Kg



CABLES WITH PLUG

TYPE	CODE	CABLE SECTION	LENGTH	PLUG
H05 VV-F (PVC)	117FGA21G	**3 x 0.75 mm²**	150 cm	SCHUKO
H07 RN-F (NEOPRENE)	117GLA21G	**3 x 1 mm²**	150 cm	SCHUKO



ELECTRICAL CABLES FOR PHOTOVOLTAIC SYSTEMS

FG21M21 TYPE	CODE	WEIGHT PER METRE
1 x **4 mm²** colour red	117SF104R	0.060 kg
1 x **4 mm²** colour black	117SF104N	0.060 kg
1 x **6 mm²** colour red	117SF106R	0.080 kg
1 x **6 mm²** colour black	117SF106N	0.080 kg

ACCESSORIES



F - *FILTER HOLDER WITH PLASTIC HEADER*

TYPE	CODE	THREADED FITTINGS	HEIGHT CARTRIDGE
MEDIUM - F 0.75	504F075M	**¾"**	5"
MEDIUM - F 1	504F100M	**1"**	5"
JUNIOR - F 0.75	504F075J	**¾"**	7"
JUNIOR - F 1	504F100J	**1"**	7"
SENIOR - F 0.75	504F075S	**¾"**	10"
SENIOR - F 1	504F100S	**1"**	10"

※ Maximum operating pressure **5 bar** (at **+20 °C**)
※ Maximum temperature + **45 °C (at 2 bar pressure**)



SPANNER FOR DISASSEMBLY OF F-HOLDER CONTAINER

(code: 504KNPP)



RL - *POLYESTER FILTER CARTRIDGES*

TYPE	CODE	FILTRATION	HEIGHT CARTRIDGE	TYPE FILTER HOUSING
RL 5	504C05	50 µ	5"	MEDIUM **F**
RL 7	504C07	50 µ	7"	JUNIOR **F**
RL 10	504C10	50 µ	10"	SENIOR **F**



FA - *POLYPROPYLENE FILTER CARTRIDGES*

TYPE	CODE	FILTRATION	HEIGHT CARTRIDGE	TYPE FILTER HOUSING
FA 5	504F05	50 µ	5"	MEDIUM **F**
FA 7	504F07	50 µ	7"	JUNIOR **F**
FA 10	504F10	50 µ	10"	SENIOR **F**



HA - *FILTER CARTRIDGE WITH POLYPHOSPHATE CRYSTALS*

TYPE	CODE	HEIGHT CARTRIDGE	TYPE FILTER HOUSING
HA 10	504F08	10"	SENIOR **F**



LA - *ACTIVATED CARBON FILTER*

TYPE	CODE	HEIGHT CARTRIDGE	TYPE FILTER HOUSING
LA 10 BX	504LA10BX	10"	SENIOR **F**



GARDEN KIT - *FLEXIBLE SUCTION HOSE*

TYPE	CODE	FITTING	LENGTH
GARDEN KIT	50200	**1"**	7 metres

※ Flexible hose, complete with foot valve



TEFLON FOR HYDRAULIC JOINTS

TYPE	CODE	LENGTH	TAPE WIDTH
TFN 1	14TFN/1	**12 m**	**12 mm**
TFN 2	14TFN/21	**30 m**	**12 mm**
TFN 3	14TFN/3	**12 m**	**19 mm**



SPRAY CAN

TYPE	CODE	COLOUR	CAPACITY
SPRAY PAINT 1	120200A/2	**Pedrollo blue**	400 ml



※ **RECOMMENDED**

CAST RESIN CABLE JOINTING KIT

TYPE	CODE	NUMBER CONDUCTORS	SECTION CABLES	INSIDE DIAMETER FITTING
RPS 1	530GT3M82A1	4	**1 – 4 mm²**	**Ø 38 mm**
RPS 2	530GT3M82A2	4	**1 – 10 mm²**	**Ø 32 mm**
RPS 3	530GT3M92A1	4	**6 – 16 mm²**	**Ø 36 mm**



※ **ECONOMICAL**

HEAT SHRINKABLE CABLE SPLICE KIT

TYPE	CODE	NUMBER CONDUCTORS	SECTION CABLES
GPS 1	530GT3MGPS1	4	**1 - 2.5 mm²**
GPS 2	530GT3MGPS2	4	**4 – 6 mm²**

ACCESSORIES



BEARINGS FOR PUMPS AND MOTORS

TYPE	CODE	DIMENSIONS
6201 ZZ	113001	12 x 32 x **10 mm**
6201 ZZ - C3E	113001C3E	12 x 32 x **10 mm**
6201 2RS - C3	113001SC3E	12 x 32 x **10 mm**
6202 ZZ - C3	113012	15 x 35 x **11 mm**
6203	113002A	17 x 40 x **12 mm**
6203 ZZ	113002	17 x 40 x **12 mm**
6203 ZZ - C3E	113002C3E	17 x 40 x **12 mm**
6203 2RS - C3E	113002RC3E	17 x 40 x **12 mm**
6204 ZZ - C3	113003C3E	20 x 47 x **14 mm**
6204 ZZ - C3E	113003	20 x 47 x **14 mm**
6204 2RS - C3E	113004RC3E	20 x 47 x **14 mm**
6205 ZZ	113004	25 x 52 x **15 mm**
6206 ZZ - C3	113005C3E	30 x 62 x **16 mm**
6208 ZZ - C3	113008	40 x 80 x **18 mm**
6003 ZZ - C3	113010	17 x 35 x **10 mm**
6212 ZZ - C3	113020	60 x 110 x **22 mm**
6302	1130145	15 x 42 x **13 mm**
6303 2RS - C3	113014SC3	17 x 47 x **14 mm**
6304 ZZ	113013	20 x 52 x **15 mm**
6304 ZZ - C3	113013C3E	20 x 52 x **15 mm**
6304 2RS - C3	113013SC3	20 x 52 x **15 mm**
6305	113043	25 x 62 x **17 mm**
6306 ZZ - C3	113015	30 x 72 x **19 mm**
6307 ZZ - C3	113017	35 x 80 x **21 mm**
6308 ZZ - C3	113018	40 x 90 x **23 mm**
6308 2RS - C3	113025	40 x 90 x **23 mm**
6309 ZZ - C3	1130185	45 x 100 x **25 mm**
6310 ZZ - C3	113019	50 x 110 x **27 mm**
6312 ZZ - C3	113021	60 x 130 x **31 mm**
6313 ZZ - C3	113023	65 x 140 x **33 mm**
6314 ZZ - C3	113024	70 x 150 x **35 mm**
3203 B 2RS - C3	113040RC3E	17 x 40 x **17.5 mm**
3304 B ZZ - C3	113041	20 x 52 x 22.**2 mm**
3305 B 2RS - C3	113042	25 x 62 x 25.**4 mm**
3308 A 2RS - C3	113044	40 x 90 x 36.**5 mm**
7202 B	113029	15 x 35 x 22.**2 mm**



FANS FOR PUMPS AND MOTORS

TYPE	CODE	DIMENSIONS	SHAFT DIAMETER
FAN-63	14VN059	104 x **21 mm**	**12 mm**
FAN-63/1	14VN067	99 x **22 mm**	**12 mm**
FAN-63/2	14VN068	99 x **26 mm**	**12 mm**
FAN-71R	14VN07	125 x **24 mm**	**14.5 mm**
FAN-71	14VN076	114 x **20 mm**	**14.5 mm**
FAN-71/1	14VN072	116 x **23 mm**	**14.5 mm**
FAN-80R	14VN08	138 x **27 mm**	**20 mm**
FAN-80	14VN08181	126 x **26 mm**	**20 mm**
FAN-90R	14VN09	162 x **32 mm**	**24 mm**
FAN-90	14VN095	148 x **33 mm**	**24 mm**
FAN-100R	14VN10	176 x **38 mm**	**28 mm**
FAN-100	14VN10162	155 x **37 mm**	**28 mm**
FAN-132	14VN132	165 x **45 mm**	**36 mm**
FAN-180	14VN180	240 x **60 mm**	**55 mm**
FAN-250	14VN250	230 x **90 mm**	**63 mm**

CAPACITORS WITH FASTON CONNECTIONS



TYPE F
Capacitor with faston

TYPE	CODE	CAPACITY	Voltage	Frequency
10 F	111010F	**10** µF	450 VL	50 – 60 Hz
10 FC *	111010FC	**10** µF	450 VL	50 – 60 Hz
12 F	111012F	**12.5** µF	450 VL	50 – 60 Hz
14 F	111014F	**14** µF	450 VL	50 – 60 Hz
16 F - 500	111016F5	**16** µF	500 VL	50 – 60 Hz
16 F - 450	111016F		450 VL	50 – 60 Hz
16 F - 250	112016F		250 VL	50 – 60 Hz
20 F - 500	111020F5	**20** µF	500 VL	50 – 60 Hz
20 F - 450	111020F		450 VL	50 – 60 Hz
25 F - 450	111025F	**25** µF	450 VL	50 – 60 Hz
25 F - 250	112025F		250 VL	50 – 60 Hz
30 F - 250	112030F	**30** µF	250 VL	50 – 60 Hz
31 F	111031F	**31.5** µF	450 VL	50 – 60 Hz
35 F	111035F	**35** µF	450 VL	50 – 60 Hz
35 FC *	111035F1	**35** µF	450 VL	50 – 60 Hz
40 F	111040F	**40** µF	450 VL	50 – 60 Hz
45 F	111045F	**45** µF	450 VL	50 – 60 Hz
50 F	111050F	**50** µF	450 VL	50 – 60 Hz
60 F - 450	111060F	**60** µF	450 VL	50 – 60 Hz
60 F - 300	112061F		300 VL	50 – 60 Hz
60 F - 250	112060F		250 VL	50 – 60 Hz
70 F	111070F	**70** µF	450 VL	50 – 60 Hz
80 F	112080F	**80** µF	250 VL	50 – 60 Hz
90 F	111090F	**90** µF	450 VL	50 – 60 Hz

(*) FC = Special small capacitor
※ VDE-IMQ approved capacitors

CAPACITORS WITH OUTGOING CABLES



TYPE C
Capacitor with outgoing cables

TYPE	CODE	CAPACITY	Voltage	Frequency
10 C	1110102F	**10** µF	450 VL	50 – 60 Hz
12 C	1110122F	**12.5** µF	450 VL	50 – 60 Hz
16 C - 500	1110162F5	**16** µF	500 VL	50 – 60 Hz
16 C - 450	1110162F		450 VL	50 – 60 Hz
20 C - 500	1110202F5	**20** µF	500 VL	50 – 60 Hz
20 C - 450	1110202F		450 VL	50 – 60 Hz
25 C - 450	1110252F	**25** µF	450 VL	50 – 60 Hz
30 C - 250	1120302F	**30** µF	250 VL	50 – 60 Hz
31 C - 500	1110312F5	**31.5** µF	500 VL	50 – 60 Hz
31 C - 450	1110312F		450 VL	50 – 60 Hz
35 C - 500	1110352F5	**35** µF	500 VL	50 – 60 Hz
35 C - 450	1110352F		450 VL	50 – 60 Hz
35 CC * - 450	1110352F1	**35** µF	450 VL	50 – 60 Hz
40 C	1110402F	**40** µF	450 VL	50 – 60 Hz
50 C	1110502F	**50** µF	450 VL	50 – 60 Hz
60 C	1120602F	**60** µF	250 VL	50 – 60 Hz
70 C - 450	1110702F	**70** µF	450 VL	50 – 60 Hz
70 C - 250	1120702F5	**70** µF	250 VL	50 – 60 Hz
75 C	1110752F	**75** µF	450 VL	50 – 60 Hz
80 C - 250	1120802F	**80** µF	250 VL	50 – 60 Hz
80 C - 450	1110802FC	**80** µF	450 VL	50 – 60 Hz
100 C	1111002FC	**100** µF	450 VL	50 – 60 Hz

(*) CC = Special small capacitor
※ VDE-IMQ approved capacitors



CAPACITOR WITH CIRCUIT BREAKER

TYPE	CODE	CAPACITY	Voltage	Frequency
80 D	111080D2F	**80 µF**	320-480 VL	50 – 60 Hz

※ Capacitor for submersible pumps with grinder (TRITUS)

BEARINGS

MODEL	BEARINGS	
2CP		
2CP 25/130	6203 ZZ	6203 ZZ
2CP 25/14 2CP 25/16	6204 ZZ - C3	6204 ZZ - C3
2CP 32/200 2CP 32/210	6206 ZZ - C3	6206 ZZ - C3
2CP 40/180	6306 ZZ - C3	6206 ZZ - C3
2CP 40/200	6308 ZZ - C3	6308 ZZ - C3
2-5CP		
2-3-4CP 80 3CP 100	6202 ZZ - C3	6201 ZZ
4CP 100 5CP 80-100 I	6203 ZZ	6203 ZZ
2-5CR		
2-3-4CR 80 3CR 100	6202 ZZ - C3	6201 ZZ
4CR 100 5CR 80-100	6203 ZZ	6203 ZZ
4BLOCK		
4BLOCK	6203	6203
BC		
BC 10	6203 ZZ - C3	6203 ZZ - C3
BC 15-20	6303 2RS - C3	6203 ZZ - C3
BC 40-55-75	6306 ZZ - C3	6304 ZZ - C3
BC -MF		
BC 10 -MF	6203 ZZ - C3	6203 ZZ - C3
BC 15-20 -MF	6303 2RS - C3	6203 ZZ - C3
BC -ST		
BC 10 -ST	6203 ZZ - C3	6203 ZZ - C3
BC 15-20 -ST	6303 2RS - C3	6203 ZZ - C3
CK		
CK 50	6201 ZZ	6201 ZZ
CKR		
CKR 90	6203 ZZ	6203 ZZ
CP		
CP 100-130-132	6201 ZZ	6201 ZZ
CP 150-158	6203 ZZ	6203 ZZ
CP 160-170	6204 ZZ - C3	6204 ZZ - C3
CP 190-200	6304 ZZ	6204 ZZ - C3
CP 210	6307 ZZ - C3	6206 ZZ - C3
CP 220C	6206 ZZ - C3	6204 ZZ - C3
CP 220AH-A-B CP 230A-B-C CP 250B	6307 ZZ - C3	6206 ZZ - C3
CP 250A	6310 ZZ - C3	6308 ZZ - C3
CP ST4-ST6		
CP 100-130-132 ST4-ST6	6201 ZZ	6201 ZZ
CP 150-158 ST4-ST6	6203 ZZ	6203 ZZ
CP 170-180-190-200 ST4-ST6	6204 ZZ - C3	6204 ZZ - C3
D		
D 8-10-20	6203 ZZ - C3	6203 ZZ - C3
D 30	6303 2RS - C3	6203 ZZ - C3

MODEL	BEARINGS	
DAVIS		
DAVIS	6203 ZZ - C3	6203 ZZ - C3
DC		
DC 8-10-20-30	6203 ZZ - C3	6203 ZZ - C3
DC 42-43-44	3305B 2RS	6204 ZZ - C3
DG-BLU		
DG-BLU	6203 ZZ	6203 ZZ
F		
F 32/160	6306 ZZ - C3	6206 ZZ - C3
F 32/200	6307 ZZ - C3	6206 ZZ - C3
F 32/250	6310 ZZ - C3	6308 ZZ - C3
F 40/125	6206 ZZ - C3	6204 ZZ - C3
F 40/160	6306 ZZ - C3	6206 ZZ - C3
F 40/200	6307 ZZ - C3	6206 ZZ - C3
F 40/250	6310 ZZ - C3	6308 ZZ - C3
F 50/125	6306 ZZ - C3	6206 ZZ - C3
F 50/160	6307 ZZ - C3	6206 ZZ - C3
F 50/200 F 50/250	6310 ZZ - C3	6308 ZZ - C3
F 65/125	6307 ZZ - C3	6206 ZZ - C3
F 65/160 F 65/200 F 80/160 F 100/160	6310 ZZ - C3	6308 ZZ - C3
F 65/250 F 80/200 F 80/250B	6312 ZZ - C3	6212 ZZ - C3
F 80/250A	6314 ZZ - C3	6313 ZZ - C3
F 100/200	6312 ZZ - C3	6212 ZZ - C3
F 100/250	6314 ZZ - C3	6313 ZZ - C3
F -INOX		
F 50/160 -I F 65/125 -I	6307 ZZ - C3	6206 ZZ - C3
F4		
F4 32/160	6206 ZZ - C3	6204 ZZ - C3
F4 32/200	6307 ZZ - C3	6206 ZZ - C3
F4 32/250	6208 ZZ - C3	6206 ZZ - C3
F4 40/160	6206 ZZ - C3	6204 ZZ - C3
F4 40/200	6307 ZZ - C3	6206 ZZ - C3
F4 40/250	6208 ZZ - C3	6206 ZZ - C3
F4 50/125	6206 ZZ - C3	6204 ZZ - C3
F4 50/160	6307 ZZ - C3	6206 ZZ - C3
F4 50/200 F4 50/250	6208 ZZ - C3	6206 ZZ - C3
F4 65/125	6307 ZZ - C3	6206 ZZ - C3
F4 65/160 F4 65/200	6208 ZZ - C3	6206 ZZ - C3
F4 65/250	6310 ZZ - C3	6308 ZZ - C3
F4 80/160	6208 ZZ - C3	6206 ZZ - C3
F4 80/200 F4 80/250	6310 ZZ - C3	6308 ZZ - C3
F4 100/160	6208 ZZ - C3	6206 ZZ - C3
F4 100/200 F4 100/250	6310 ZZ - C3	6308 ZZ - C3

MODEL	BEARINGS	
F4 -INOX		
F4 50/160 -I F4 65/125 -I	6307 ZZ - C3	6206 ZZ - C3
FAMILY		
FAMILY	6201 ZZ	6201 ZZ
FCR		
FCR 15-30	6307 ZZ - C3	6206 ZZ - C3
FCR 80/2-3-4	6202 ZZ - C3	6201 ZZ
FCR 80/5	6203 ZZ	6203 ZZ
FCR 90-130-200-240	6304 2RS - C3	6204 ZZ - C3
FCR 100/3	6202 ZZ - C3	6201 ZZ
FCR 100/4-5	6203 ZZ	6203 ZZ
FG		
FG 32/160 FG 32/200	6307 ZZ - C3	6307 ZZ - C3
FG 32/250	6307 ZZ - C3	6208 ZZ - C3
FG 40/125 FG 40/160 FG 40/200	6307 ZZ - C3	6307 ZZ - C3
FG 40/250	6307 ZZ - C3	6208 ZZ - C3
FG 50/125 FG 50/160 FG 50/200	6307 ZZ - C3	6307 ZZ - C3
FG 50/250	6307 ZZ - C3	6208 ZZ - C3
FG 65/125 FG 65/160 FG 65/200	6307 ZZ - C3	6307 ZZ - C3
FG 65/250	6309 ZZ - C3	6309 ZZ - C3
FG 80/160	6307 ZZ - C3	6307 ZZ - C3
FG 80/200 FG 80/250	6309 ZZ - C3	6309 ZZ - C3
FG 100/160	6307 ZZ - C3	6307 ZZ - C3
FG 100/200 FG 100/250	6309 ZZ - C3	6309 ZZ - C3
FLUID SOLAR		
FLUID SOLAR 1/10, 2/6, 4/4, 6/3	6203 2RS - C3	6203 ZZ - C3
FLUID SOLAR 1/20, 2/14, 4/8, 6/6	3203B 2RS - C3	6203 ZZ - C3
FUTURE JET		
FUTURE-JET 1	6201 ZZ	6201 ZZ
FUTURE-JET 2	6203 ZZ	6203 ZZ
FUTURE JET-ST		
FUTURE-JET 1-ST	6201 ZZ	6201 ZZ
FUTURE-JET 2-ST	6203 ZZ	6203 ZZ
HF		
HF 4-5-51	6203 ZZ	6203 ZZ
HF 50	6201 ZZ	6201 ZZ
HF 5M-70	6204 ZZ - C3	6204 ZZ - C3
HF 6	6304 ZZ	6204 ZZ - C3
HF 8-20	6306 ZZ - C3	6206 ZZ - C3
HF 30	6307 ZZ - C3	6206 ZZ - C3
HT & HT-PRO		
HT & HT-PRO 3/4-5-6-7	6304 2RS - C3	6204 ZZ - C3
HT & HT-PRO 3/8-9-10	6307 2RS - C3	6206 2RS - C3
HT & HT-PRO 5/2-3-4-5-6	6304 2RS - C3	6204 ZZ - C3
HT & HT-PRO 5/7-8-9-10	6307 2RS - C3	6206 2RS - C3
HT & HT-PRO 8/3-4-5-6	6304 2RS - C3	6204 ZZ - C3
HT & HT-PRO 8/7-8-9-10-11	6307 2RS - C3	6206 2RS - C3
HT & HT-PRO 15/2-3-4-5	6307 2RS - C3	6206 2RS - C3
HT & HT-PRO 15/6-7	3309A 2RS	6308 2RS - C3
HT & HT-PRO 30/2-3-4	6307 2RS - C3	6206 2RS - C3
HT & HT-PRO 30/5-6-7-8	3309A 2RS	6308 2RS - C3
JCR		
JCR 1	6201 ZZ	6201 ZZ
JCR 2	6203 ZZ	6203 ZZ
JSW		
JSW 1	6201 ZZ	6201 ZZ
JSW 2	6203 ZZ	6203 ZZ
JSW 3	6204 ZZ - C3	6204 ZZ - C3
MAGNIFICA		
MAGNIFICA 1-2	6203 2RS - C3	6203 2RS - C3
MAGNIFICA 3-4-5	6204 2RS - C3	6204 2RS - C3
MC		
MC /45	6203 ZZ - C3	6203 ZZ - C3
MC /50-65	6305	6204 ZZ - C3
MC-F		
MC /50-65 -F	6305	6204 ZZ - C3
MC4		
MC4 /55	6309 ZZ - C3	6306 ZZ - C3
MC4 /80	3309B 2RS - C3	6308 ZZ - C3
MK		
MK	6304 ZZ	6204 ZZ - C3
NGA & NGA-PRO		
NGA & NGA-PRO 1-2	6203 ZZ	6203 ZZ
NGA & NGA-PRO 3	6204 ZZ - C3	6204 ZZ - C3
NK		
NK	6303 2RS - C3	6203 ZZ - C3
PK		
PK 60-65	6201 ZZ	6201 ZZ
PK 80-90	6203 ZZ	6203 ZZ
PK 100-200-300	6204 ZZ - C3	6204 ZZ - C3
PKS		
PKS 60-65	6201 ZZ	6201 ZZ
PKS 80	6203 ZZ	6203 ZZ
PLUG & DRAIN		
PLUG & DRAIN	6201 ZZ	6201 ZZ
PLURIJET		
PLURIJET 3-4/80 PLURIJET 3-4/90	6202 ZZ - C3	6201 ZZ
PLURIJET 5-6/90	6304 2RS - C3	6204 ZZ - C3
PLURIJET 3/100	6202 ZZ - C3	6201 ZZ
PLURIJET 4/100	6203 ZZ	6203 ZZ
PLURIJET 3/120	6202 ZZ - C3	6201 ZZ
PLURIJET 4/120	6203 ZZ	6203 ZZ
PLURIJET /130-200	6304 2RS - C3	6204 ZZ - C3

BEARINGS

MODEL	BEARINGS	
PQ		
PQ 60-61-65	6201 ZZ	6201 ZZ
PQ 80-90	6203 ZZ	6203 ZZ
PQ 100-200-300	6204 ZZ - C3	6204 ZZ - C3
PQ 3000		
PQ 3000	6204 ZZ - C3	6204 ZZ - C3
PQ-Bs, PQ-PPS		
PQ 60-65-81 Bs PQ81-PPS	6201 ZZ	6201 ZZ
PQA		
PQA 60	6201 ZZ	6201 ZZ
PQA 70-90	6203 ZZ	6203 ZZ
PV		
PV 55-60-65-81	6201 ZZ	6201 ZZ
PV 70-90	6203 ZZ	6203 ZZ
RX		
RX 1-2-3	6201 ZZ	6201 ZZ
RX 4-5	6203 ZZ - C3	6203 ZZ - C3
RX VORTEX		
RX 2-3/20	6201 ZZ	6201 ZZ
RX 4-5/40	6203 ZZ - C3	6203 ZZ - C3
SPRINKLER		
SKR 1.1-1.5	6204 ZZ - C3	6204 ZZ - C3
TEX		
TEX	6201 ZZ	6201 ZZ
TOP		
TOP 1-2-3	6201 ZZ	6201 ZZ
TOP 4-5	6203 ZZ - C3	6203 ZZ - C3
TOP FLOOR		
TOP FLOOR	6201 ZZ	6201 ZZ
TOP MULTI-AD		
TOP MULTI 1-AD	6201 ZZ - C3	6201 ZZ - C3
TOP MULTI		
TOP MULTI 1-2-3	6201 ZZ - C3	6201 ZZ - C3
TOP MULTI 4-5	6302 ZZ	6201 ZZ
TOP MULTI-EVO		
TOP MULTI 1-2-3 EVO	6201 ZZ - C3	6201 ZZ - C3
TOPMULTI 4-5 EVO	6302 ZZ	6201 ZZ
TOP MULTI-TECH		
TOP MULTI TECH 2-3	6202 ZZ - C3	6201 ZZ
TOP MULTI TECH 4-5	6302 ZZ	6201 ZZ
TOP MULTI-EVOTECH		
TOP MULTI EVOTECH 2-3	6202 ZZ - C3	6201 ZZ
TOP MULTI EVOTECH 4-5	6302 ZZ	6201 ZZ
TOP VORTEX		
TOP VORTEX	6201 ZZ	6201 ZZ
TRITUS		
TRITUS TR 0.75-0.9-1.1-1.3	6203 ZZ - C3	6203 ZZ - C3
TRITUS TR 1.5-2.2	3304B ZZ - C3	6304 ZZ - C3
TRITUS TR 2.2AP-3-3AP-4	3305B 2RS	6204 ZZ - C3
TRITUS INOX		
TIG	6303 2RS - C3	6203 ZZ - C3

MODEL	BEARINGS	
UP		
UP	6303 2RS - C3	6203 ZZ - C3
VX		
VX 8-10	6203 ZZ - C3	6203 ZZ - C3
VX 15-20	6303 2RS - C3	6203 ZZ - C3
VX 40-55-75	6306 ZZ - C3	6304 ZZ - C3
VX -MF		
VX 8-10 -MF	6203 ZZ - C3	6203 ZZ - C3
VX 15-20 -MF	6303 2RS - C3	6203 ZZ - C3
VX -ST		
VX 8-10 -ST	6203 ZZ - C3	6203 ZZ - C3
VX 15-20 -ST	6303 2RS - C3	6203 ZZ - C3
VXC		
VXC /35-45	6203 ZZ - C3	6203 ZZ - C3
VXC /50-65	6305	6204 ZZ - C3
VXC-F		
VXC /50-65 -F	6305	6204 ZZ - C3
VXC4		
VXC4 /80	3309B 2RS - C3	6308 ZZ - C3
VXC4 /100	6309 ZZ - C3	6306 ZZ - C3
WR		
WR40-S/125 WR50-S/125	6203 2RS - C3	6203 2RS - C3
WR50/125	3205A 2RS	6204 2RS - C3
ZX1		
ZXm 1/40	6201 ZZ	6201 ZZ
ZX2		
ZXm 2/30-40	6203 ZZ - C3	6203 ZZ - C3

CAPACITORS

MODEL	CAPACITOR
2-5CP	
2CPm 80-I	10 µF - 450 VL
3CPm 100-I	14 µF - 450 VL
3CPm 80-I	12.5 µF - 450 VL
4CPm 100-I	20 µF - 450 VL
4CPm 80-I	14 µF - 450 VL
5CPm 100-I	25 µF - 450 VL
5CPm 80-I	20 µF - 450 VL
2-5CR	
2CRm 80	10 µF - 450 VL
3CRm 100	14 µF - 450 VL
3CRm 80	12.5 µF - 450 VL
4CRm 100	20 µF - 450 VL
4CRm 80	14 µF - 450 VL
5CRm 100	25 µF - 450 VL
5CRm 80	20 µF - 450 VL
2CP	
2CPm 25/14A	45 µF - 450 VL
2CPm 25/14B	31.5 µF - 450 VL
2CPm 25/16A	50 µF - 450 VL
2CPm 25/16B	45 µF - 450 VL
2CPm 25/16C	31.5 µF - 450 VL
2CPm 25/130N	20 µF - 450 VL
3SR	
3SRm 1/14	12.5 µF - 450 VL
3SRm 1/21	12.5 µF - 450 VL
3SRm 1/31	16 µF - 450 VL
3SRm 1/42	20 µF - 450 VL
3SRm 1/62	30 µF - 450 VL
3SRm 2/10	12.5 µF - 450 VL
3SRm 2/14	12.5 µF - 450 VL
3SRm 2/21	16 µF - 450 VL
3SRm 2/28	20 µF - 450 VL
3SRm 2/41	30 µF - 450 VL
3SRm 4/5	12.5 µF - 450 VL
3SRm 4/8	12.5 µF - 450 VL
3SRm 4/12	16 µF - 450 VL
3SRm 4/16	20 µF - 450 VL
3SRm 4/23	30 µF - 450 VL
3SRm 5/5	12.5 µF - 450 VL
3SRm 5/8	12.5 µF - 450 VL
3SRm 5/11	16 µF - 450 VL
3SRm 5/15	20 µF - 450 VL
3SRm 5/23	30 µF - 450 VL
4BLOCK	
4BLOCKm 2/7	20 µF - 450 VL
4BLOCKm 2/10	20 µF - 450 VL
4BLOCKm 2/13	35 µF - 450 VL
4BLOCKm 2/18	35 µF - 450 VL
4BLOCKm 4/5	20 µF - 450 VL
4BLOCKm 4/7	20 µF - 450 VL
4BLOCKm 4/9	35 µF - 450 VL
4BLOCKm 6/10	35 µF - 450 VL
4BLOCKm 4/13	35 µF - 450 VL

MODEL	CAPACITOR
4BLOCKm 6/3	20 µF - 450 VL
4BLOCKm 6/5	20 µF - 450 VL
4BLOCKm 6/7	35 µF - 450 VL
4BLOCKm 8/3	20 µF - 450 VL
4BLOCKm 8/5	35 µF - 450 VL
4BLOCKm 8/8	35 µF - 450 VL
4PD	
4PDm/0.50	20 µF - 450 VL
4PDm/0.75	25 µF - 450 VL
4PDm/1	35 µF - 450 VL
4PDm/1.5	40 µF - 450 VL
4PDm/2	60 µF - 450 VL
4PDm/3	75 µF - 450 VL
4PS	
4PSm/0.50	20 µF - 450 VL
4PSm/0.75	25 µF - 450 VL
4PSm/1	35 µF - 450 VL
4PSm/1.5	40 µF - 450 VL
4PSm/2	60 µF - 450 VL
4PSm/3	70 µF - 450 VL
BC	
BCm 10/50	25 µF - 450 VL
BCm 15/50	35 µF - 450 VL
BCm 20/50	35 µF - 450 VL
BC-MF	
BCm 10/50-MF	25 µF - 450 VL
BCm 15/50-MF	35 µF - 450 VL
BCm 20/50-MF	35 µF - 450 VL
BC-ST	
BCm 10/50-ST	25 µF - 450 VL
BCm 15/50-ST	35 µF - 450 VL
BCm 20/50-ST	35 µF - 450 VL
CK	
CKm 50	12.5 µF - 450 VL
CKm 50-BP	12.5 µF - 450 VL
CKR	
CKRm 90	20 µF - 450 VL
CP	
CPm 100	10 µF - 450 VL
CPm 130	12.5 µF - 450 VL
CPm 132	14 µF - 450 VL
CPm 150	20 µF - 450 VL
CPm 158	20 µF - 450 VL
CPm 170	31.5 µF - 450 VL
CPm 170M	31.5 µF - 450 VL
CPm 190	45 µF - 450 VL
CPm 200	50 µF - 450 VL
CPm 160A	50 µF - 450 VL
CPm 160B	45 µF - 450 VL
CPm 160C	31.5 µF - 450 VL
CPm 220C	50 µF - 450 VL
CP-ST4	
CPm 100-ST4	10 µF - 450 VL

CAPACITORS

MODEL	CAPACITOR
CPm 130-ST4	12.5 µF - 450 VL
CPm 132-ST4	14 µF - 450 VL
CPm 150-ST4	20 µF - 450 VL
CPm 158-ST4	20 µF - 450 VL
CPm 170M-ST4	31.5 µF - 450 VL
CPm 170-ST4	31.5 µF - 450 VL
CPm 180-ST4	31.5 µF - 450 VL
CPm 190-ST4	45 µF - 450 VL
CPm 200-ST4	50 µF - 450 VL
CP-ST6	
CPm 100-ST6	10 µF - 450 VL
CPm 130-ST6	12.5 µF - 450 VL
CPm 132-ST6	14 µF - 450 VL
CPm 150-ST6	20 µF - 450 VL
CPm 158-ST6	20 µF - 450 VL
CPm 170M-ST6	31.5 µF - 450 VL
CPm 170-ST6	31.5 µF - 450 VL
CPm 180-ST6	31.5 µF - 450 VL
CPm 190-ST6	45 µF - 450 VL
CPm 200-ST6	50 µF - 450 VL
D	
Dm 8	20 µF - 450 VL
Dm 10	25 µF - 450 VL
Dm 20	25 µF - 450 VL
Dm 30	35 µF - 450 VL
DAVIS	
DAVIS	31.5 µF - 500 VL
DC	
DCm 10	20 µF - 450 VL
DCm 20	20 µF - 450 VL
DCm 30	25 µF - 450 VL
DCm 42	50 µF - 450 VL
DCm 43	60 µF - 450 VL
F	
Fm 32/160B	50 µF - 450 VL
Fm 32/160C	45 µF - 450 VL
Fm 40/125B	45 µF - 450 VL
Fm 40/125C	31.5 µF - 450 VL
Fm 40/160C	50 µF - 450 VL
Fm 50/125C	50 µF - 450 VL
FAMILY	
FAMILY	12.5 µF - 450 VL
FCR	
FCRm 80/2	10 µF - 450 VL
FCRm 80/3	12.5 µF - 450 VL
FCRm 80/4	14 µF - 450 VL
FCRm 80/5	20 µF - 450 VL
FCRm 100/3	14 µF - 450 VL
FCRm 100/4	20 µF - 450 VL
FCRm 100/5	25 µF - 450 VL
FCRm 90/5	31.5 µF - 450 VL
FCRm 90/6	45 µF - 450 VL
FCRm 90/7	50 µF - 450 VL

MODEL	CAPACITOR
FCRm 130/3	31.5 µF - 450 VL
FCRm 130/4	45 µF - 450 VL
FCRm 130/5	50 µF - 450 VL
FCRm 130/6	50 µF - 450 VL
FCRm 200/3	31.5 µF - 450 VL
FCRm 200/4	45 µF - 450 VL
FCRm 200/5	50 µF - 450 VL
FCRm 200/6	50 µF - 450 VL
FCRm 240/3	45 µF - 450 VL
FCRm 240/4	50 µF - 450 VL
FCRm 240/5	50 µF - 450 VL
FUTURE JET	
FUTURE JETm 1A	14 µF - 450 VL
FUTURE JETm 1B	12.5 µF - 450 VL
FUTURE JETm 1C	10 µF - 450 VL
FUTURE JETm 2A	25 µF - 450 VL
FUTURE JETm 2AH	25 µF - 450 VL
FUTURE JETm 2C	25 µF - 450 VL
FUTURE JET-ST	
FUTURE JETm 1A-ST	14 µF - 450 VL
FUTURE JETm 1B-ST	12.5 µF - 450 VL
FUTURE JETm 1C-ST	10 µF - 450 VL
FUTURE JETm 2A-ST	25 µF - 450 VL
FUTURE JETm 2C-ST	25 µF - 450 VL
HF	
HFm 4	20 µF - 450 VL
HFm 6A	50 µF - 450 VL
HFm 6B	45 µF - 450 VL
HFm 6C	31.5 µF - 450 VL
HFm 50A	14 µF - 450 VL
HFm 50B	12.5 µF - 450 VL
HFm 51A	20 µF - 450 VL
HFm 51B	20 µF - 450 VL
HFm 5A	25 µF - 450 VL
HFm 5AM	45 µF - 450 VL
HFm 5ARM	50 µF - 450 VL
HFm 5B	20 µF - 450 VL
HFm 5BM	31.5 µF - 450 VL
HFm 70B	45 µF - 450 VL
HFm 70C	31.5 µF - 450 VL
HT	
HTm 10/3	45 µF - 450 VL
HTm 10/4	50 µF - 450 VL
HTm 10/5	50 µF - 450 VL
HTm 3/4	31.5 µF - 450 VL
HTm 3/5	31.5 µF - 450 VL
HTm 3/6	45 µF - 450 VL
HTm 3/7	50 µF - 450 VL
HTm 5/2	31.5 µF - 450 VL
HTm 5/3	31.5 µF - 450 VL
HTm 5/4	45 µF - 450 VL
HTm 5/5	50 µF - 450 VL
HTm 5/6	50 µF - 450 VL
HTm 8/3	31.5 µF - 450 VL

MODEL	CAPACITOR
HTm 8/4	45 µF - 450 VL
HTm 8/5	50 µF - 450 VL
HTm 8/6	50 µF - 450 VL
HT-PRO	
HTm 3/4 - PRO	31.5 µF - 450 VL
HTm 3/5 - PRO	31.5 µF - 450 VL
HTm 3/6 - PRO	45 µF - 450 VL
HTm 3/7 - PRO	50 µF - 450 VL
HTm 5/2 - PRO	31.5 µF - 450 VL
HTm 5/3 - PRO	31.5 µF - 450 VL
HTm 5/4 - PRO	45 µF - 450 VL
HTm 5/5 - PRO	50 µF - 450 VL
HTm 5/6 - PRO	50 µF - 450 VL
HTm 8/3 - PRO	31.5 µF - 450 VL
HTm 8/4 - PRO	45 µF - 450 VL
HTm 8/5 - PRO	50 µF - 450 VL
HTm 8/6 - PRO	50 µF - 450 VL
HTm 10/3 - PRO	45 µF - 450 VL
HTm 10/4 - PRO	50 µF - 450 VL
HTm 10/5 - PRO	50 µF - 450 VL
JCR1	
JCRm 1A	14 µF - 450 VL
JCRm 1B	12.5 µF - 450 VL
JCRm 1C	10 µF - 450 VL
JCRm 2A	25 µF - 450 VL
JCRm 2C	25 µF - 450 VL
JSW1	
JSWm 1A	14 µF - 450 VL
JSWm 1B	12.5 µF - 450 VL
JSWm 1C	10 µF - 450 VL
JSWm 2A	25 µF - 450 VL
JSWm 2C	25 µF - 450 VL
JSWm 3AH	50 µF - 450 VL
JSWm 3AL	50 µF - 450 VL
JSWm 3AM	50 µF - 450 VL
JSWm 3BH	45 µF - 450 VL
JSWm 3BL	45 µF - 450 VL
JSWm 3BM	45 µF - 450 VL
JSWm 3CH	31.5 µF - 450 VL
JSWm 3CL	31.5 µF - 450 VL
JSWm 3CM	31.5 µF - 450 VL
MAGNIFICA	
MAGNIFICA 1m	20 µF - 450 VL
MAGNIFICA 2m	20 µF - 450 VL
MAGNIFICA 3m	31.5 µF - 450 VL
MAGNIFICA 4m	45 µF - 450 VL
MAGNIFICA 5m	50 µF - 450 VL
MC	
MCm 10/45	20 µF - 450 VL
MCm 15/45	25 µF - 450 VL
MCm 15/50	50 µF - 450 VL
MCm 20/50	50 µF - 450 VL
MCm 30/50	60 µF - 450 VL
MCm 30/65	60 µF - 450 VL

MODEL	CAPACITOR
MC-F	
MCm 15/50-F	50 µF - 450 VL
MCm 20/50-F	50 µF - 450 VL
MCm 30/50-F	60 µF - 450 VL
MCm 30/65-F	60 µF - 450 VL
MK	
MKm 3/3	31.5 µF - 450 VL
MKm 3/5	31.5 µF - 450 VL
MKm 3/6	45 µF - 450 VL
MKm 5/4	31.5 µF - 450 VL
MKm 5/5	31.5 µF - 450 VL
MKm 5/7	45 µF - 450 VL
MKm 5/8	50 µF - 450 VL
MKm 8/4	31.5 µF - 450 VL
MKm 8/5	45 µF - 450 VL
MKm 8/6	50 µF - 450 VL
NGA	
NGAm 1A	20 µF - 450 VL
NGAm 1B	16 µF - 450 VL
NGAm 2A	20 µF - 450 VL
NGAm 2B	20 µF - 450 VL
NGAm 3A	50 µF - 450 VL
NGAm 3B	50 µF - 450 VL
NGAm 3C	45 µF - 450 VL
NGAm 3D	31.5 µF - 450 VL
NGA-PRO	
NGAm 1A-PRO	20 µF - 450 VL
NGAm 1B-PRO	16 µF - 450 VL
NGAm 2A-PRO	20 µF - 450 VL
NGAm 2B-PRO	20 µF - 450 VL
NGAm 3A-PRO	50 µF - 450 VL
NGAm 3B-PRO	50 µF - 450 VL
NGAm 3C-PRO	45 µF - 450 VL
NGAm 3D-PRO	31.5 µF - 450 VL
NK	
NKm 2/2 GE	20 µF - 450 VL
NKm 2/3 GE	20 µF - 450 VL
NKm 2/4 GE	25 µF - 450 VL
NKm 2/5 GE	25 µF - 450 VL
NKm 2/6 GE	35 µF - 450 VL
NKm 4/3 GE	20 µF - 450 VL
NKm 4/4 GE	25 µF - 450 VL
NKm 4/5 GE	25 µF - 450 VL
NKm 4/6 GE	35 µF - 450 VL
NKm 8/3 GE	25 µF - 450 VL
NKm 8/4 GE	35 µF - 450 VL
PK	
PKm 100	31.5 µF - 450 VL
PKm 200	45 µF - 450 VL
PKm 300	50 µF - 450 VL
PKm 60	10 µF - 450 VL
PKm 65	14 µF - 450 VL
PKm 80	20 µF - 450 VL
PKm 90	20 µF - 450 VL

CAPACITORS

MODEL	CAPACITOR
PKS	
PKSm 60	10 µF - 450 VL
PKSm 65	14 µF - 450 VL
PKSm 80	20 µF - 450 VL
PLUG & DRAIN	
RXm 2	10 µF - 450 VL
RXm 3	14 µF - 450 VL
TOP 2-FLOOR	10 µF - 450 VL
TOP 3	14 µF - 450 VL
PLURIJET	
PLURIJETm 3/100	14 µF - 450 VL
PLURIJETm 3/80	12.5 µF - 450 VL
PLURIJETm 4/100	20 µF - 450 VL
PLURIJETm 4/80	14 µF - 450 VL
PLURIJETm 3/120	14 µF - 450 VL
PLURIJETm 3/90	12.5 µF - 450 VL
PLURIJETm 4/120	20 µF - 450 VL
PLURIJETm 4/90	14 µF - 450 VL
PLURIJETm 3/130	31.5 µF - 450 VL
PLURIJETm 3/200	31.5 µF - 450 VL
PLURIJETm 4/130	45 µF - 450 VL
PLURIJETm 4/200	45 µF - 450 VL
PLURIJETm 5/130	50 µF - 450 VL
PLURIJETm 5/200	50 µF - 450 VL
PLURIJETm 5/90	31.5 µF - 450 VL
PLURIJETm 6/90	45 µF - 450 VL
PQ	
PQm 100	31.5 µF - 450 VL
PQm 200	45 µF - 450 VL
PQm 300	50 µF - 450 VL
PQm 60	10 µF - 450 VL
PQm 61	10 µF - 450 VL
PQm 65	14 µF - 450 VL
PQm 80	20 µF - 450 VL
PQm 90	20 µF - 450 VL
PQ81-Bs, PQ81-PPS	
PQm 81-Bs PQm 81-PPS	14 µF - 450 VL
PQA	
PQAm 60	10 µF - 450 VL
PQAm 70	16 µF - 450 VL
PQAm 90	20 µF - 450 VL
PQ-Bs	
PQm 60-Bs	10 µF - 450 VL
PQm 65-BS	14 µF - 450 VL
PRIMA	
PRIMA 50m	10 µF - 450 VL
PRIMA 75m	12 µF - 450 VL
PRIMA 100m	20 µF - 450 VL
PRIMA 150m	20 µF - 450 VL
PV	
PVm 55	10 µF - 450 VL
PVm 60	10 µF - 450 VL
PVm 65	14 µF - 450 VL
PVm 70	25 µF - 450 VL

MODEL	CAPACITOR
PVm 81	14 µF - 450 VL
PVm 90	25 µF - 450 VL
RX	
RXm 1	10 µF - 450 VL
RXm 2	10 µF - 450 VL
RXm 3	14 µF - 450 VL
RXm 4	20 µF - 450 VL
RXm 5	25 µF - 450 VL
RX-VORTEX	
RXm 2/20	10 µF - 450 VL
RXm 3/20	14 µF - 450 VL
RXm 4/40	20 µF - 450 VL
RXm 5/40	25 µF - 450 VL
SPRINKLER	
SKRm 1.1	31.5 µF - 450 VL
SKRm 1.5	45 µF - 450 VL
TEX	
TEX 2	10 µF - 450 VL
TEX 3	12.5 µF - 450 VL
TOP	
TOP 1	10 µF - 450 VL
TOP 2	10 µF - 450 VL
TOP 3	14 µF - 450 VL
TOP 4 N	16 µF - 450 VL
TOP 5 N	20 µF - 450 VL
TOP FLOOR	
TOP 1-FLOOR	10 µF - 450 VL
TOP 2-FLOOR	10 µF - 450 VL
TOP 3-FLOOR	14 µF - 450 VL
TOP MULTI	
TOP MULTI 1	10 µF - 450 VL
TOP MULTI 2	12.5 µF - 450 VL
TOP MULTI 3	12.5 µF - 450 VL
TOP MULTI 4	14 µF - 450 VL
TOP MULTI 5	14 µF - 450 VL
TOP MULTI-AD	
TOP MULTI 1-AD	10 µF - 450 VL
TOP MULTI-EVO	
TOP MULTI 1 EVO	10 µF - 450 VL
TOP MULTI 2-EVO	12.5 µF - 450 VL
TOP MULTI 3-EVO	12.5 µF - 450 VL
TOP MULTI 4-EVO	14 µF - 450 VL
TOP MULTI 5-EVO	14 µF - 450 VL
TOP MULTI-EVOTECH	
TOP MULTI-EVOTECH 2	12.5 µF - 450 VL
TOP MULTI-EVOTECH 3	12.5 µF - 450 VL
TOP MULTI-EVOTECH 4	14 µF - 450 VL
TOP MULTI-EVOTECH 5	14 µF - 450 VL
TOP MULTI-TECH	
TOP MULTI-TECH 2	12.5 µF - 450 VL
TOP MULTI-TECH 3	12.5 µF - 450 VL
TOP MULTI-TECH 4	14 µF - 450 VL
TOP MULTI-TECH 5	14 µF - 450 VL

MODEL	CAPACITOR
TOP VORTEX	
TOP 1 - VORTEX	10 µF - 450 VL
TOP 1 - VORTEX/GM	10 µF - 450 VL
TOP 2 - VORTEX	10 µF - 450 VL
TOP 2 - VORTEX/GM	10 µF - 450 VL
TOP 3 - VORTEX	14 µF - 450 VL
TOP 3 - VORTEX/GM	14 µF - 450 VL
TRITUS	
TRm 0.75	25 µF - 450 VL / 80 µF - 450 VL
TRm 0.9	25 µF - 450 VL / 80 µF - 450 VL
TRm 1.1	25 µF - 450 VL / 80 µF - 450 VL
TRm 1.3	25 µF - 450 VL / 80 µF - 450 VL
TRm 1.5	50 µF - 450 VL / 80 µF - 450 VL
TRm 2.2 AP	60 µF - 450 VL / 120 µF - 330 VL
TIGm 0.55	25 µF - 450 VL
TIGm 0.75	25 µF - 450 VL
TIGm 1.1	35 µF - 450 VL
TIGm 1.3	35 µF - 450 VL
TRITUS-TX	12.5 µF - 450 VL
UP	
UPm 2/2-GE	20 µF - 450 VL
UPm 2/3-GE	20 µF - 450 VL
UPm 2/4-GE	25 µF - 450 VL
UPm 2/5-GE	25 µF - 450 VL
UPm 2/6-GE	35 µF - 450 VL
UPm 4/3-GE	20 µF - 450 VL
UPm 4/4-GE	25 µF - 450 VL
UPm 4/5-GE	25 µF - 450 VL
UPm 4/6-GE	35 µF - 450 VL
UPm 8/3-GE	25 µF - 450 VL
UPm 8/4-GE	35 µF - 450 VL
VILLABELLA	
VILLABELLA 50m	20 µF - 450 VL
VILLABELLA 75m	20 µF - 450 VL
VILLABELLA 100m	25 µF - 450 VL
VILLABELLA 150m	30 µF - 450 VL
VILLABELLA 200m	40 µF - 450 VL
VILLABELLA 300m	40 µF - 450 VL
VX	
VXm 10/35	25 µF - 450 VL
VXm 10/50	25 µF - 450 VL
VXm 15/35	35 µF - 450 VL
VXm 15/50	35 µF - 450 VL
VXm 20/35	35 µF - 450 VL
VXm 20/50	35 µF - 450 VL
VXm 8/35	20 µF - 450 VL
VXm 8/50	20 µF - 450 VL
VXC	
VXCm 10/35	20 µF - 450 VL
VXCm 10/45	20 µF - 450 VL
VXCm 15/35	25 µF - 450 VL
VXCm 15/45	25 µF - 450 VL
VXCm 15/50	50 µF - 450 VL
VXCm 15/65	50 µF - 450 VL
VXCm 20/50	50 µF - 450 VL

MODEL	CAPACITOR
VXCm 20/65	50 µF - 450 VL
VXCm 30/50	60 µF - 450 VL
VXCm 30/65	60 µF - 450 VL
VXC-F	
VXCm 15/50-F	50 µF - 450 VL
VXCm 15/65-F	50 µF - 450 VL
VXCm 20/50-F	50 µF - 450 VL
VXCm 20/65-F	50 µF - 450 VL
VXCm 30/50-F	60 µF - 450 VL
VXCm 30/65-F	60 µF - 450 VL
VX-MF	
VXm 10/35-MF	25 µF - 450 VL
VXm 10/50-MF	25 µF - 450 VL
VXm 15/35-MF	35 µF - 450 VL
VXm 15/50-MF	35 µF - 450 VL
VXm 20/35-MF	35 µF - 450 VL
VXm 20/50-MF	35 µF - 450 VL
VXm 8/35-MF	20 µF - 450 VL
VXm 8/50-MF	20 µF - 450 VL
VX-ST	
VXm 10/35-ST	25 µF - 450 VL
VXm 10/50-ST	25 µF - 450 VL
VXm 15/35-ST	35 µF - 450 VL
VXm 15/50-ST	35 µF - 450 VL
VXm 20/35-ST	35 µF - 450 VL
VXm 20/50-ST	35 µF - 450 VL
VXm 8/35-ST	20 µF - 450 VL
VXm 8/50-ST	20 µF - 450 VL
WR	
WRm 40/125-SA	20 µF - 450 VL
WRm 40/125-SB	20 µF - 450 VL
WRm 50/125A	50 µF - 450 VL
WRm 50/125B	45 µF - 450 VL
WRm 50/125C	31.5 µF - 450 VL
WRm 50/125-SA	50 µF - 450 VL
WRm 50/125-SB	45 µF - 450 VL
ZX1	
ZXm 1A/40	16 µF - 450 VL
ZXm 1B/40	12.5 µF - 450 VL
ZXm 2/30	20 µF - 450 VL
ZXm 2/40	20 µF - 450 VL
ZX2-GM	
ZXm 2/30-GM	20 µF - 450 VL
ZXm 2/40-GM	20 µF - 450 VL

CABLE SIZING FOR SUBMERSIBLE MOTORS

SINGLE-PHASE 230 V - 50 Hz

MOTOR POWER (P2)		cable cross-section in mm²						
kW	HP	4 x 1	4 x 1.5	4 x 2.5	4 x 4	4 x 6	4 x 10	4 x 16
		maximum cable length in metres						
0.37	0.50	60	90	140				
0.55	0.75	45	70	110	180			
0.75	1	35	50	85	140	210		
1.1	1.5	25	35	60	95	145	240	
1.5	2		30	45	75	115	190	305
2.2	3			30	50	75	125	200

Three-phase 230 V — 50 Hz

MOTOR POWER (P2)		cable cross-section in mm²									
kW	HP	4x1	4 x 1.5	4 x 2.5	4 x 4	4 x 6	4 x 10	4 x 16	4 x 25	4 x 35	4 x 50	4 x 70
		maximum cable length in metres										
0.37	0.50	100	152	255								
0.55	0.75	83	126	210	338							
0.75	1	65	99	165	265	405						
1.1	1.5	48	72	120	192	292	485					
1.5	2		53	88	142	215	360					
2.2	3			60	97	147	245	392				
3	4			47	73	110	183	295	510			
4	5.5				55	83	138	220	380			
5.5	7.5					60	100	160	275	385		
7.5	10					45	73	114	195	275	395	
9.2	12.5						64	100	157	220	315	
11	15						54	87	135	190	270	378
13	17.5							75	117	164	236	330
15	20							65	102	144	205	287
18.5	25								82	114	162	225
22	30								69	95	137	190
30	40									70	102	142
37	50									52	68	95

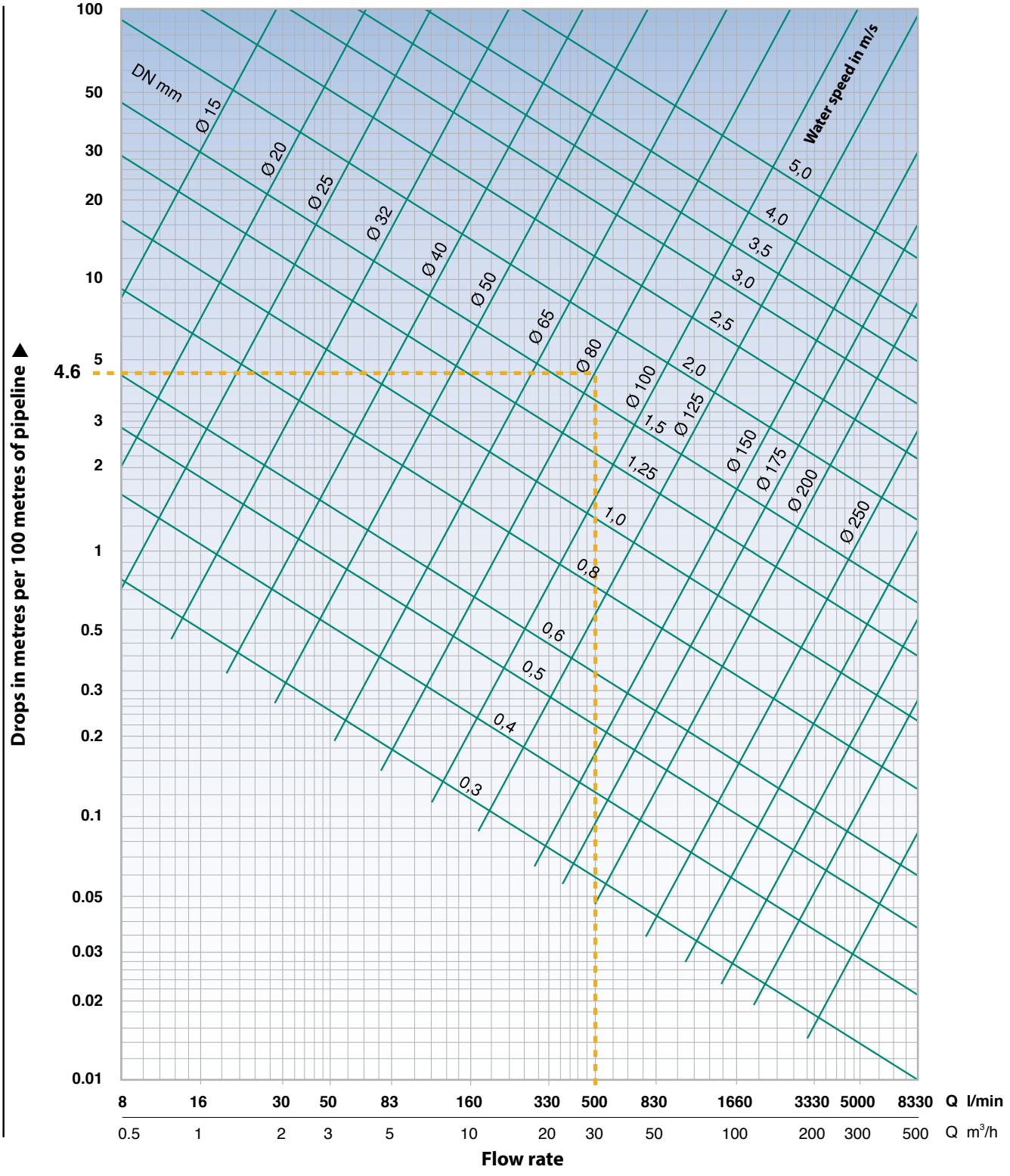
Three-phase 400 V — 50 Hz

MOTOR POWER (P2)		cable cross-section in mm²									
kW	HP	4x1	4 x 1.5	4 x 2.5	4 x 4	4 x 6	4 x 10	4 x 16	4 x 25	4 x 35	4 x 50	4 x 70
		maximum cable length in metres										
0.37	0.50	300										
0.55	0.75	250	380									
0.75	1	195	295									
1.1	1.5	145	215	360								
1.5	2	105	160	265	425							
2.2	3	70	110	180	290	440						
3	4	55	85	140	220	330						
4	5.5	40	60	105	165	250	415					
5.5	7.5		45	75	120	180	300	480				
7.5	10		35	55	95	135	220	340	585			
9.2	12.5			47	75	115	190	300	470			
11	15			40	65	95	160	260	405			
13	17.5				60	85	140	225	350	490		
15	20				50	75	125	195	305	430		
18.5	25					58	100	155	245	340	485	
22	30					49	85	130	205	285	410	570
30	40					36	63	96	152	210	305	425
37	50						47	74	115	156	205	284

Voltage drop 3% - Maximum ambient temperature + 30 °C

PRESSURE DROP DIAGRAM

(for straight pipes of 15-250 mm internal diameter and flow rates of 8 to 8330 l/min)



The data in the table are valid for cold water and for liquids with the same kinematic viscosity, for factory-new, cast-iron pipes. The pressure drops **hv** resulting from the tables must be multiplied by: **0.8** for steel pipes, new rolled; **1.25** for iron pipes, old, slightly rusted; **1.7** for old pipes for which the reduced cross-section due to scaling must be taken into account.

➠ **EXAMPLE**: Flow data **Q = 500 l/min**, new steel pipe Ø 80 mm, pipe length 50 m.
On the horizontal axis, locate the flow rate and continue vertically until you meet the line of DN 80 mm.
Pressure losses are therefore read on the vertical axis.
hv = 4.6 m per 100 m of pipe.
hv1 = 4.6 x 0.8 = 3.68 m/100 (steel tube).
To consider the actual length of the pipe:
hv2 = 3.68 x 50:100 = 1.84 m (for 50 m of pipe).
The flow velocity is determined by considering the point of intersection between the oblique straight lines to be 1.5-2 m/sec. Thus in the present case we have:
C = 1.7 metres/sec. ac.

CONVERSION OF UNITS OF MEASUREMENT

LENGTH

millimeter	centimeter	metres	inch	foot	yard
mm	cm	m	in	ft	yd
1	0.1	0.001	0.0394	0.0033	0.0011
10	1	0.01	0.3937	0.0328	0.0109
1000	100	1	393.701	3.2808	10.936
25.4	2.54	0.0254	1	0.0833	0.0278
304.8	30.48	0.3048	12	1	0.3333
914.4	91.44	0.9144	36	3	1

1 kilometre = 1000 metres = 0.62137 miles - 1 mile = 1609.34 metres = 1.60934 kilometres

VOLUME

cubic metre	litre	millilitre	gallon Imp.	US gallon	cube foot
m^3	l	ml	Imp. gal.	US gal	ft^3
1	1000	1×10^6	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1×10^{-6}	0.001	1	2.2×10^{-4}	2.642 x 10-4 = 1047.75	3.53×10^{-5}
0.00455	4.546	4546	1	1.201	0.1605
0.00378	3.785	3785	0.8327	1	0.1337
0.0283	28.317	28.317	6.2288	7.4805	1

WEIGHT

kilogramme	pound	centiweight	ton	t long	t short
kg	lb	cwt	t	tn	sh. tn
1	2.205	0.0197	0.001	9.84×10^{-4}	0.0011
0.454	1	0.0089	4.54×10^{-4}	4.46×10^{-4}	5.0×10^{-4}
50.802	112	1	0.0508	0.05	0.056
1000	2204.6	19.684	1	0.9842	1.1023
1016	2240	20	1.0161	1	1.102
907.2	2000	17.857	0.9072	0.8929	1

VOLUMETRIC FLOW

litres latter	litres minute	Cubic metres time	cubic feet time	cubic feet minute	Imp. gal. minute	US gal. minute	US barrel day
l/s	l/min	m^3/h	ft^3/h	ft^3/min	Imp. gal/min	US gal/min	mineral oil US barrel/g
1	60	3.6	127.133	2.1189	13.2	15.85	543.439
0.017	1	0.06	2.1189	0.0353	0.22	0.264	9.057
0.278	16.667	1	35.3147	0.5886	3.666	4.403	150.955
0.008	0.472	0.0283	1	0.0167	0.104	0.125	4.275
0.472	28.317	1.6990	60	1	6.229	7.480	256.475
0.076	4.546	0.2728	9.6326	0.1605	1	1.201	41.175
0.063	3.785	0.2271	8.0209	0.1337	0.833	1	34.286
0.002	0.110	0.0066	0.2339	0.0039	0.024	0.029	1

PRESSURE AND HEAD

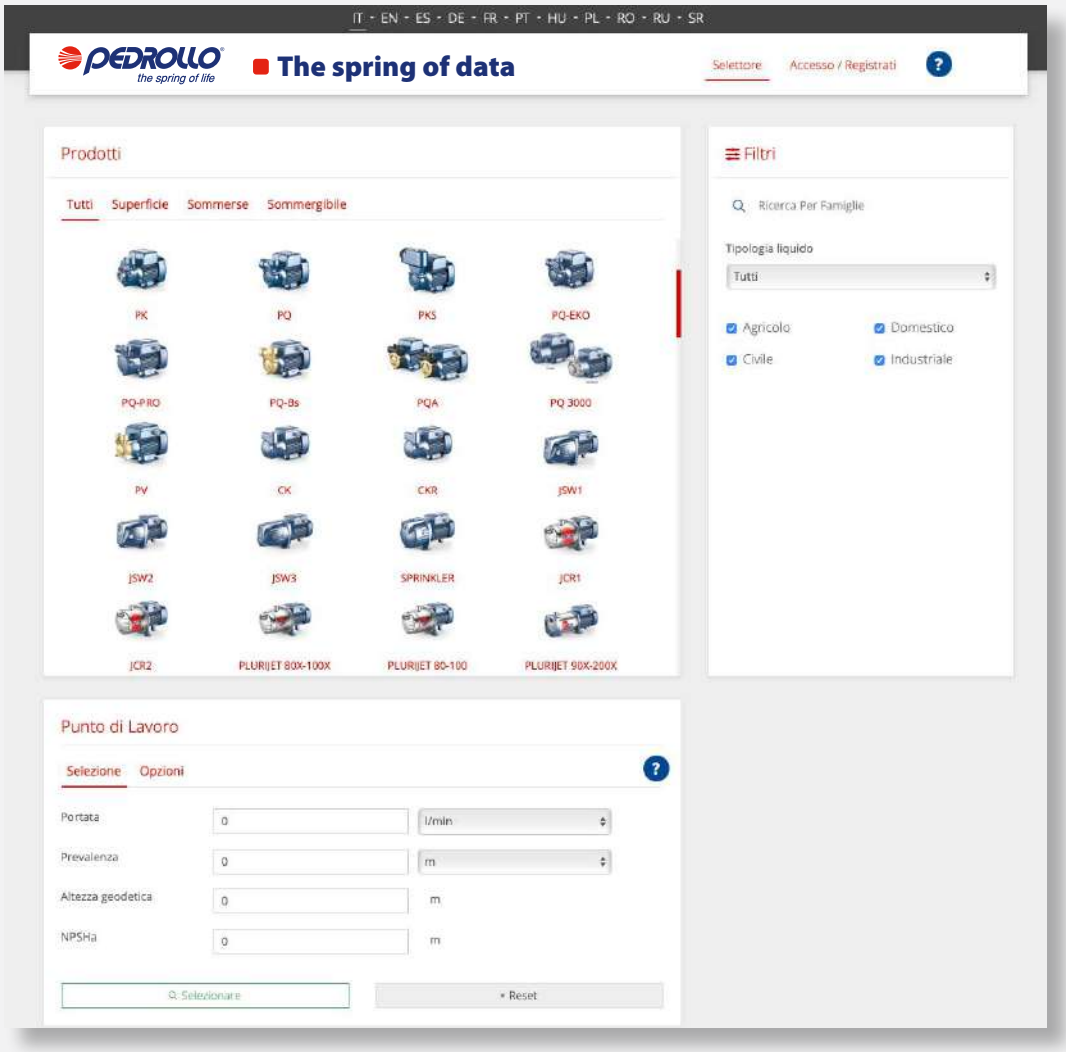
Newton metres panel/board N/m^2	kilopascal	bar	kilogramme force centimeter panel/board	pound force inch panel/board	foot Water %	metres Water %	millimeter mercury	inch mercury
(Pa)	kPa	bar	kgf/cm^2	psi	ft H_20	m H_20	mm Hg	In Hg
1	0.001	1×10^{-5}	1.02×10^{-5}	1.45×10^{-4}	3.35×10^{-4}	1.02×10^{-4}	0.0075	2.95×10^{-4}
1000	1	0.01	1.02×10^{-2}	0.145	0.335	0.102	7.5	0.295
100000	100	1	1.02	14.5	33.52	10.2	750.1	29.53
98067	98.07	0.981	1	14.22	32.81	10	735.6	28.96
6895	6.895	0.069	0.0703	1	2.31	0.703	51.72	2.036
2984	2.984	0.03	0.0305	0.433	1	0.305	22.42	0.882
9789	9.789	0.098	0.1	1.42	3.28	1	73.42	2.891
133.3	0.133	0.0013	0.0014	0.019	0.045	0.014	1	0.039
3386	3.386	0.0338	0.0345	0.491	1.133	0.345	25.4	1

PUMP SELECTOR

The spring of data

※ The Pedrollo pump selector.

※ The tool that helps you select the right pump for your requirements.



To access the **Pump Selector - The spring of data**
https://springofdata.pedrollo.com/selector

PUMP SELECTOR

For a general overview watch the Video Tutorial
https://www.youtube.com/watch?v=P9KGMOaDz58

VIDEO TUTORIAL

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