



# **PENTAIR** STA-RITE

ELECTRIC PUMPS &  
BOOSTER SETS  
PRODUCT  
CATALOGUE



50 Hz

**ALL**  
**PUMPS**  **DIRECT**  
FOR ALL YOUR PUMPING SOLUTIONS

<https://www.allpumpsdirect.co.uk/Pump/Pentair-Sta-Rite->

# A LEADER IN WATER TECHNOLOGY

The Pentair Water Group is one of the world's leading companies for the engineering and manufacture of innovative products and systems suitable for all situations requiring the treatment, transportation and storage of water. The activity and success of the Group is based on values such as constant improvement, the continuous development of new products, high performance, competence, business ethics and market leadership. Pentair employees share personal values such as accountability, respect for others and the environment and a candid and practical work style. Strong customer relations and high quality standards mean that Pentair Water is ranked amongst the leading producers of water treatment technology and instruments.

## **SAFE, CLEAN WATER**

Providing clean, safe water to an ever-growing portion of the population is the Pentair Water Mission: a proven organization works to efficiently serve our customers through production plants located in every corner of the world, and through specialized sales and marketing networks.



## **ELECTRIC PUMPS**

Vertical and horizontal centrifugal pumps; submersible pumps for domestic, commercial, agricultural and industrial use; pumps for the drainage of clear and waste water; pressure booster units and fire-fighting systems, pumps for heating and air conditioning systems.



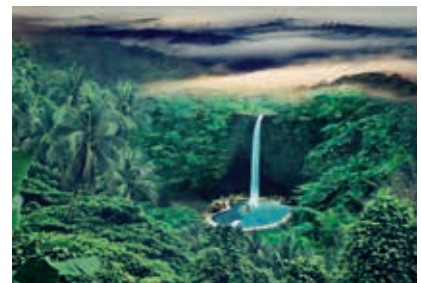
## **WATER TREATMENT**

Residential, commercial and industrial water conditioning control valves; fibreglass wound expansion tanks and vessels; water storage tanks.



## **FILTRATION**

Industrial, residential and commercial filtration systems; filter cartridges, components for the filtration of household water, pumps for mobile homes and boats, and pumps and accessories for industrial and food industry applications.



## **POOL & SPA**

A complete range of pool/spa equipment and accessories: filters, pumps, heating and lighting systems and cleaning accessories; dosing and control systems, and products and accessories for fountains and ponds.



# WATER ENERGY

## WE PUT ENERGY

## INTO YOUR WATER

The Sta-Rite brand exists since 1934 and is sold in over 100 countries worldwide. In Europe, Pentair already produces a wide range of Sta-Rite swimming pool pumps and cleaners for its pool division, which have gained a reputation for quality and durability. The new European Sta-Rite line for residential water supply and water disposal will be manufactured in Italy/Pisa.



### **FIRE-FIGHTING AND PRESSURIZATION SYSTEMS**

Vertical and horizontal centrifugal pumps. Complete systems for the transfer and pressurization of water. Fire-fighting systems.



### **ELECTRIC PUMPS FOR RESIDENTIAL USE**

Submersible pumps, self-priming pumps, multistage centrifugal pumps and compact pumping systems for domestic water supply, irrigation and the re-utilization of harvested rainwater.



### **ELECTRIC DRAINAGE PUMPS**

Pumps for the transfer of clear, dirty, waste water and sewage. Pumps for numerous applications (water in basins, tanks, pumping stations etc.)



### **ELECTRIC PUMPS FOR OPEN AND DRILLED WELLS**

Submersible pumps for irrigation and pumping underground waters.

# THE PISA PLANT BECOMES 100% GREEN.



Thanks to the development of a sophisticated photovoltaic system on the rooftop of the building, the Pentair Water plant in Pisa has become the first plant to produce **100% of the energy needed for its production activities.**

4100 solar panels that generate up to **1,280,000 kWh** each year have been installed on a surface area of 11,000 m<sup>2</sup>.

One of the greatest advantages includes a reduction of CO<sub>2</sub> emissions equal to **678 ton/year**. Our customers can rest assured

that products developed in the Pentair Water plant in Pisa are completely made using renewable energy.

The remarkable results achieved by the installation of the solar panels can be seen in real time on the various screens located throughout the plant.

All activities performed at the plant in Pisa are continuously improved, aiming towards maximum energy savings and minimum environmental impact.

In light of the initiatives undertaken and future plans, we can certainly say that Pentair Water is a leader in the management of its business, characterized by:

- Maximum environmental friendliness
- Maximum energy savings
- Improved safety conditions for workers
- Maximum respect for health



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# SECTION 1

## FREQUENCY CONVERTER



**MULTI EVO-E**  
FREQUENCY CONVERTER - SINGLE  
PHASE

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**MULTI EVO-E P**  
FREQUENCY CONVERTER - SINGLE  
PHASE

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**CPS10/JET**  
FREQUENCY CONVERTER - SINGLE  
PHASE

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**CPS10/DHR**  
FREQUENCY CONVERTER - SINGLE  
PHASE

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**CPS10/DHI**  
FREQUENCY CONVERTER - SINGLE  
PHASE

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**CPS10/MULTINOX-VE+**  
FREQUENCY CONVERTER - SINGLE  
PHASE

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**CPS10/PVM**  
FREQUENCY CONVERTER - SINGLE  
PHASE

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**CPS3-10/MULTINOX-VE+**  
FREQUENCY CONVERTER - THREE  
PHASE

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**CPS3-10/PVM**  
FREQUENCY CONVERTER - THREE  
PHASE

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## MULTI EVO-E

SINGLE PHASE - FREQUENCY CONVERTER

- High reliability - thanks to the durable and innovative design
- Quiet operation - improved user comfort thanks to its quiet operation
- Compact dimensions
- Many possible uses for the residential market
- Excellent priming capacity



### DESCRIPTION

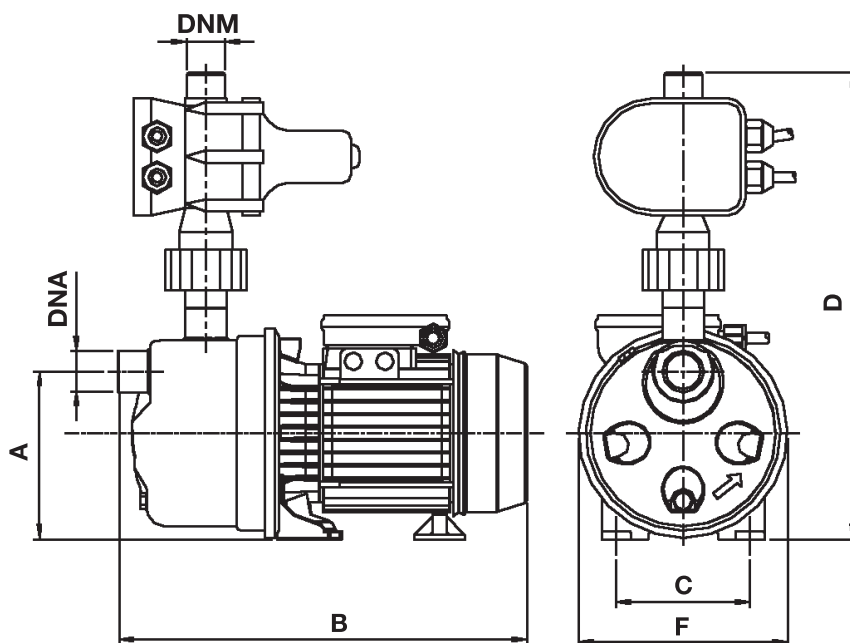
The system consists of a multi-stage centrifugal horizontal pump Multi EVO-E and an electronic control system (inverter) which allows to keep the pressure constant in the system, reducing or increasing the speed of rotation of the pump.

All models are certified for use with drinking water (ACS)

### APPLICATIONS

- Pressurization and supply
- Irrigation
- Use of rainwater
- Washing systems

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

# MULTI EVO-E

## SINGLE PHASE - FREQUENCY CONVERTER

| Type             | Flow rate Q [m³/h]  | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6  | 4.8  | 6    | 7.2  | 8.4  | 9.6  | 10.8 | 12   |
|------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MULTI EVO-E 3-40 | Delivery head H [m] | 44.0 | 40.0 | 35.0 | 30.0 | 24.0 | 18.5 | 6.0  |      |      |      |      |      |      |
| MULTI EVO-E 3-50 |                     | 54.5 | 51.0 | 47.0 | 42.5 | 37.0 | 31.0 | 18.0 |      |      |      |      |      |      |
| MULTI EVO-E 3-60 |                     | 68.0 | 64.0 | 60.0 | 55.0 | 48.5 | 42.0 | 26.5 |      |      |      |      |      |      |
| MULTI EVO-E 5-40 |                     |      | 44.5 | 42.0 | 39.0 | 36.0 | 32.5 | 25.0 | 16.5 | 7.0  |      |      |      |      |
| MULTI EVO-E 5-50 |                     |      | 54.0 | 51.0 | 48.0 | 44.5 | 41.0 | 33.0 | 24.0 | 14.0 |      |      |      |      |
| MULTI EVO-E 5-60 |                     |      | 70.0 | 66.5 | 62.0 | 58.0 | 54.0 | 44.5 | 34.5 | 24.0 |      |      |      |      |
| MULTI EVO-E 8-40 |                     |      |      |      | 46.0 | 45.0 | 44.5 | 42.0 | 39.0 | 35.0 | 30.0 | 24.0 | 18.0 | 10.0 |
| MULTI EVO-E 8-50 |                     |      |      |      | 54.0 | 53.0 | 52.0 | 49.0 | 46.0 | 42.0 | 36.5 | 30.5 | 23.5 | 16.5 |

### MECHANICAL DATA

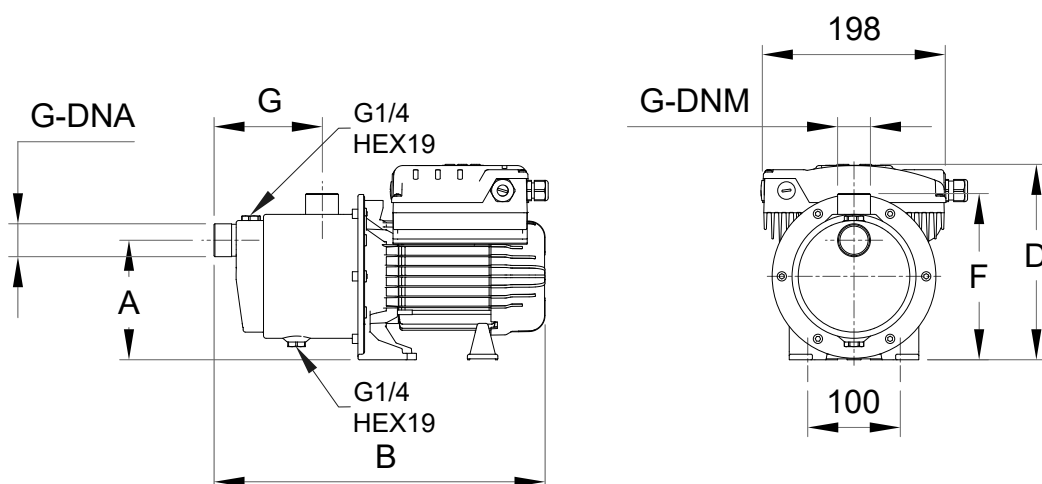
|               |                                                                              |                                                                             |                                                                                                                   |
|---------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Shaft         | Stainless steel Europe:<br>EN10088-1 X5CrNi18-10 (1.4301)<br>USA: AISI 304   | Mechanical seal<br>Counterface<br>Operating pressure max.<br>Type of liquid | Carbon graphite / NBR / SS<br>Ceramic / NBR<br>8 bar<br>clean water without suspended solids or abrasive material |
| Impeller      | PP0 reinforced with fibreglass                                               | Temperature of the liquid max.                                              | 50 °C                                                                                                             |
| Motor housing | Die-cast aluminium                                                           | Suction height max                                                          | 6 m                                                                                                               |
| Pump housing  | Stainless steel Europe:<br>EN10088-1 X 5 CrNi 1810 (1.4301)<br>USA: AISI 304 | Gasket                                                                      | NBR 70 Shore A                                                                                                    |
| Diffuser      | PP0 reinforced with fibreglass                                               |                                                                             |                                                                                                                   |

### ELECTRICAL DATA

|                   |              |                          |          |
|-------------------|--------------|--------------------------|----------|
| Voltage           | 1/N/PE~230 V | Ambient temperature max. | 40 °C    |
| Type of enclosure | IP 55        | Rotation speed           | 2850 rpm |
| Insulation class  | F            |                          |          |

### MULTI EVO-E

| Type             | Code No.        | Motor rating<br>P1 | P2      | Current | Weight  |
|------------------|-----------------|--------------------|---------|---------|---------|
| MULTI EVO-E 3-40 | <b>N42E2540</b> | 0.80 kW            | 0.50 kW | 5.1 A   | 10.0 kg |
| MULTI EVO-E 3-50 | <b>N42E2151</b> | 1.00 kW            | 0.75 kW | 7.0 A   | 12.1 kg |
| MULTI EVO-E 3-60 | <b>N42E2162</b> | 1.35 kW            | 0.95 kW | 8.7 A   | 13.4 kg |
| MULTI EVO-E 5-40 | <b>N42E4140</b> | 1.00 kW            | 0.75 kW | 7.0 A   | 12.2 kg |
| MULTI EVO-E 5-50 | <b>N42E4151</b> | 1.25 kW            | 0.90 kW | 8.5 A   | 13.0 kg |
| MULTI EVO-E 5-60 | <b>N42E4162</b> | 1.80 kW            | 1.30 kW | 11.5 A  | 14.5 kg |
| MULTI EVO-E 8-40 | <b>N42E7140</b> | 1.70 kW            | 1.20 kW | 11.0 A  | 15.0 kg |
| MULTI EVO-E 8-50 | <b>N42E7151</b> | 2.00 kW            | 1.40 kW | 13.0 A  | 16.7 kg |



# MULTI EVO-E

SINGLE PHASE - FREQUENCY CONVERTER

## DIMENSIONS [mm]

| Type             | A   | B   | C   | D   | F   | G   | DNA    | DNM    | E   |
|------------------|-----|-----|-----|-----|-----|-----|--------|--------|-----|
| MULTI EVO-E 3-40 | 129 | 360 | 100 | 211 | 180 | 116 | 1"     | 1"     | 198 |
| MULTI EVO-E 3-50 | 129 | 377 | 100 | 220 | 180 | 116 | 1"     | 1"     | 198 |
| MULTI EVO-E 3-60 | 129 | 377 | 100 | 220 | 180 | 116 | 1"     | 1"     | 198 |
| MULTI EVO-E 5-40 | 125 | 380 | 100 | 220 | 180 | 119 | 1 1/4" | 1"     | 198 |
| MULTI EVO-E 5-50 | 125 | 380 | 100 | 220 | 180 | 119 | 1 1/4" | 1"     | 198 |
| MULTI EVO-E 5-60 | 125 | 413 | 100 | 230 | 180 | 119 | 1 1/4" | 1"     | 198 |
| MULTI EVO-E 8-40 | 125 | 430 | 100 | 230 | 187 | 137 | 1 1/4" | 1 1/4" | 198 |
| MULTI EVO-E 8-50 | 125 | 430 | 100 | 230 | 187 | 137 | 1 1/4" | 1 1/4" | 198 |



# MULTI EVO-E

SINGLE PHASE - FREQUENCY CONVERTER

## MULTI EVO-E P

SINGLE PHASE - FREQUENCY CONVERTER

- High-level reliability - thanks to the resistant and innovative design
- Quiet operation - improved user comfort thanks to its quiet operation
- Compact dimensions
- Wide range of performance levels for the residential market
- Excellent priming capacity



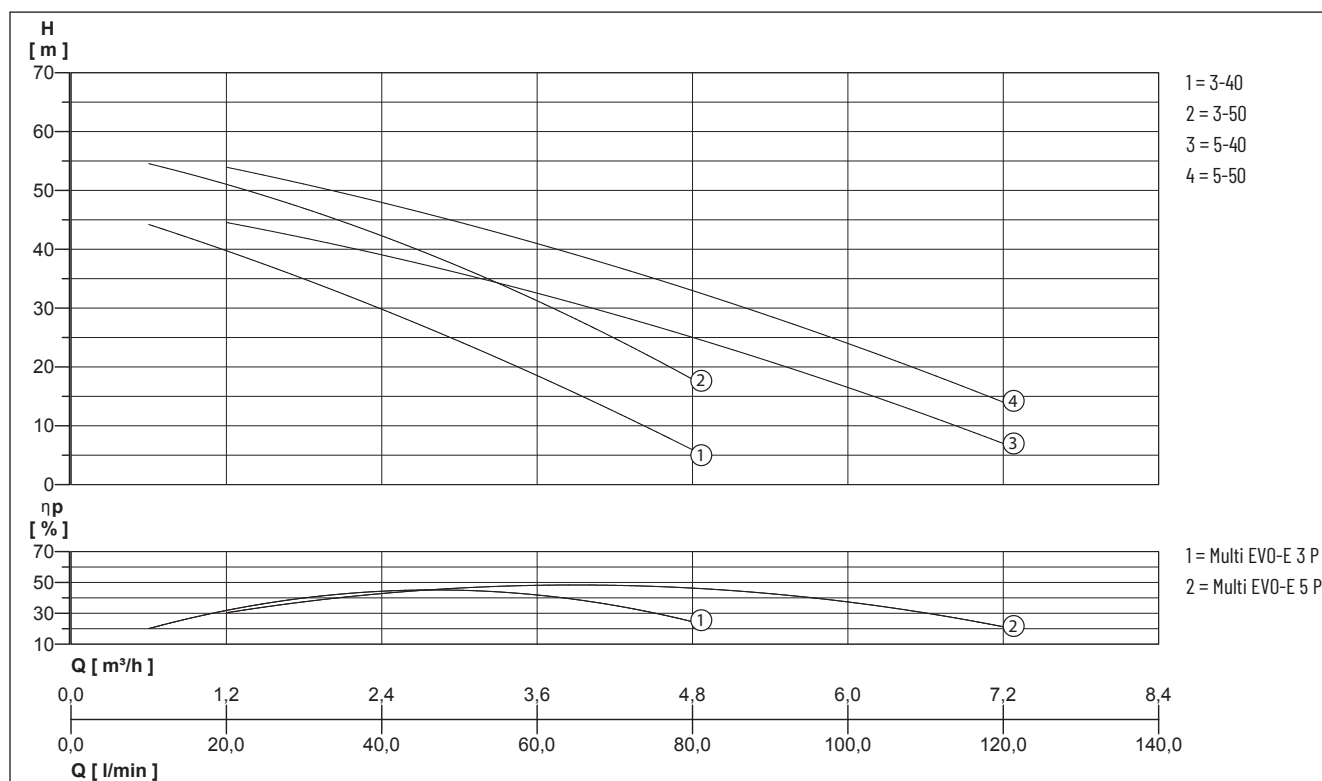
### DESCRIPTION

The system is composed of a Multi EVO horizontal multistage electric centrifugal pump with plastic casing and a CPS electronic control system (inverter), which allows the pressure to be maintained constant in the system, reducing or increasing the electric pump motor rotation speed.

### APPLICATIONS

- Pressurization and supply
- Irrigation
- Rainwater recovery systems
- Washing systems

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type               | Flow rate Q [m³/h]  | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6  | 4.8  | 6    | 7.2  |
|--------------------|---------------------|------|------|------|------|------|------|------|------|------|
| Multi EVO-E 3-40 P | Delivery head H [m] | 44.0 | 40.0 | 35.0 | 30.0 | 24.0 | 18.5 | 6.0  |      |      |
| Multi EVO-E 3-50 P |                     | 54.5 | 51.0 | 47.0 | 42.5 | 37.0 | 31.0 | 18.0 |      |      |
| Multi EVO-E 5-40 P |                     |      | 44.5 | 42.0 | 39.0 | 36.0 | 32.5 | 25.0 | 16.5 | 7.0  |
| Multi EVO-E 5-50 P |                     |      | 54.0 | 51.0 | 48.0 | 44.5 | 41.0 | 33.0 | 24.0 | 14.0 |

# MULTI EVO-E P

## SINGLE PHASE - FREQUENCY CONVERTER

### MECHANICAL DATA

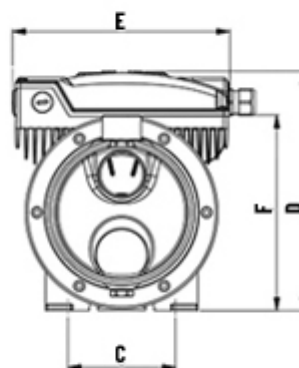
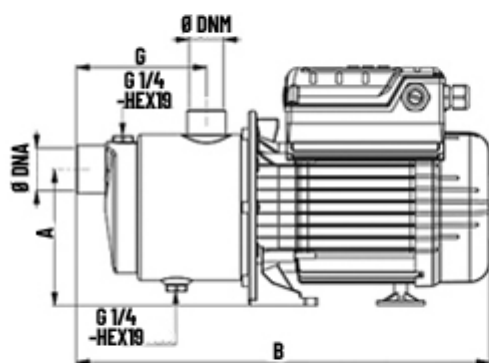
|                 |                                                                            |                                |                                                           |
|-----------------|----------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft           | Stainless steel Europe:<br>EN10088-1 X5CrNi18-10 (1.4301)<br>USA: AISI 304 | Counterface                    | Ceramic / NBR                                             |
| Impeller        | PPO reinforced with fibreglass                                             | Operating pressure max.        | 7 bar                                                     |
| Motor housing   | Die-cast aluminium                                                         | Type of liquid                 | clean water without suspended solids or abrasive material |
| Pump housing    | PPO reinforced with fibreglass                                             | Temperature of the liquid max. | 50 °C                                                     |
| Diffuser        | PPO reinforced with fibreglass                                             | Suction height max             | 6 m                                                       |
| Mechanical seal | Carbon graphite / NBR / SS                                                 | Gasket                         | NBR 70 Shore A                                            |

### ELECTRICAL DATA

|                   |              |                          |          |
|-------------------|--------------|--------------------------|----------|
| Voltage           | 1/N/PE~230 V | Ambient temperature max. | 40 °C    |
| Type of enclosure | IP 55        | Rotation speed           | 2850 rpm |
| Insulation class  | F            |                          |          |

### MULTI EVO-E P

| Type               | Code No.        | Motor rating |        | Current | Weight  |
|--------------------|-----------------|--------------|--------|---------|---------|
|                    |                 | P1           | P2     |         |         |
| Multi EVO-E 3-40 P | <b>N43E2540</b> | 0.80 kW      | 0.5 kW | 5.1 A   | 9.8 kg  |
| Multi EVO-E 3-50 P | <b>N43E2151</b> | 1.00 kW      | 0.7 kW | 7.0 A   | 11.8 kg |
| Multi EVO-E 5-40 P | <b>N43E4140</b> | 1.00 kW      | 0.7 kW | 7.0 A   | 11.9 kg |
| Multi EVO-E 5-50 P | <b>N43E4151</b> | 1.25 kW      | 0.9 kW | 8.5 A   | 12.7 kg |



### DIMENSIONS [mm]

| Type               | A   | B   | C  | D   | F   | G   | DNA | DNM | E   |
|--------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|
| Multi EVO-E 3-40 P | 123 | 373 | 99 | 211 | 181 | 137 | 1"  | 1"  | 198 |
| Multi EVO-E 3-50 P | 123 | 392 | 99 | 220 | 181 | 137 | 1"  | 1"  | 198 |
| Multi EVO-E 5-40 P | 123 | 392 | 99 | 220 | 181 | 137 | 1"  | 1"  | 198 |
| Multi EVO-E 5-50 P | 123 | 392 | 99 | 220 | 181 | 137 | 1"  | 1"  | 198 |

## CPS10/JET

SINGLE PHASE - FREQUENCY CONVERTER

- High reliability - thanks to the durable and innovative design
- Quiet operation - improved user comfort thanks to its quiet operation
- Compact dimensions
- Many possible uses for the residential market
- Excellent priming capacity



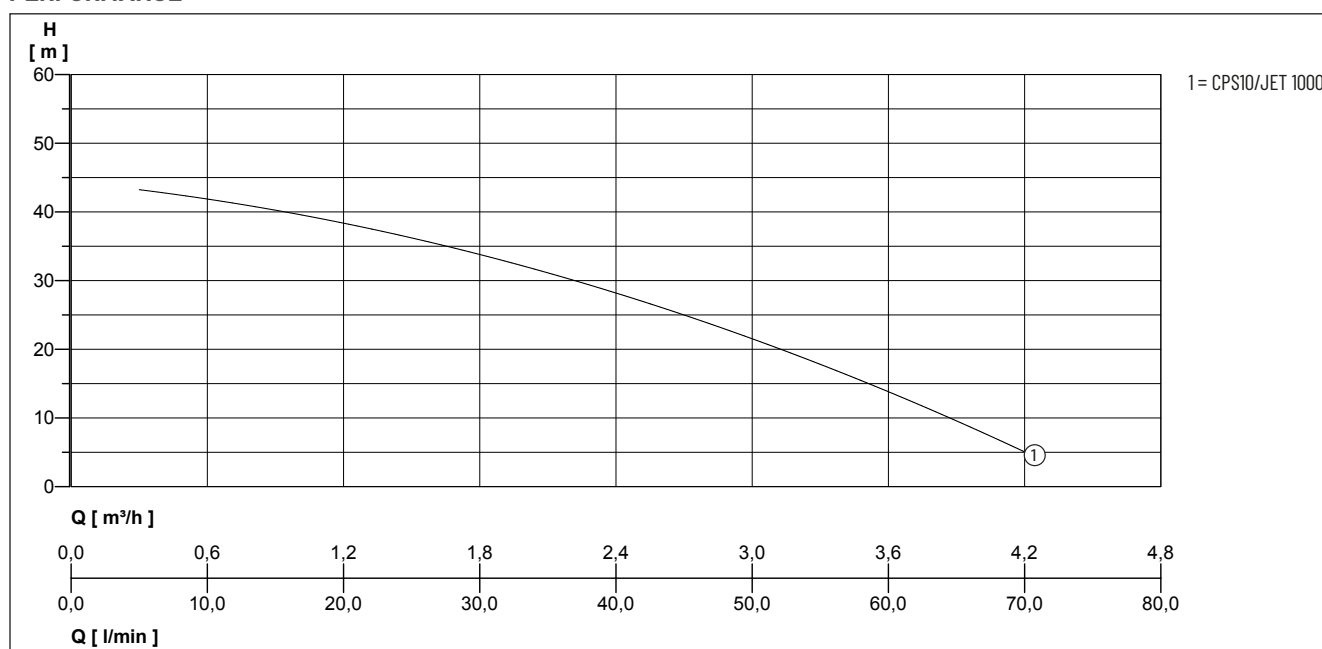
### DESCRIPTION

The system consists of a self-priming centrifugal horizontal pump CPS10/JET and an electronic control system (inverter) which allows to keep the pressure constant in the system, reducing or increasing the speed of rotation of the pump.

### APPLICATIONS

- Pressurization and supply
- Irrigation
- Use of rainwater
- Washing systems

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type           | Flow rate Q [m³/h]  | 0.3 | 1.2 | 1.8 | 2.4 | 3  | 3.6 | 4.2 |
|----------------|---------------------|-----|-----|-----|-----|----|-----|-----|
| CPS10/JET 1000 | Delivery head H [m] | 45  | 36  | 32  | 28  | 25 | 15  | 3   |

# CPS10/JET

## SINGLE PHASE - FREQUENCY CONVERTER

### MECHANICAL DATA

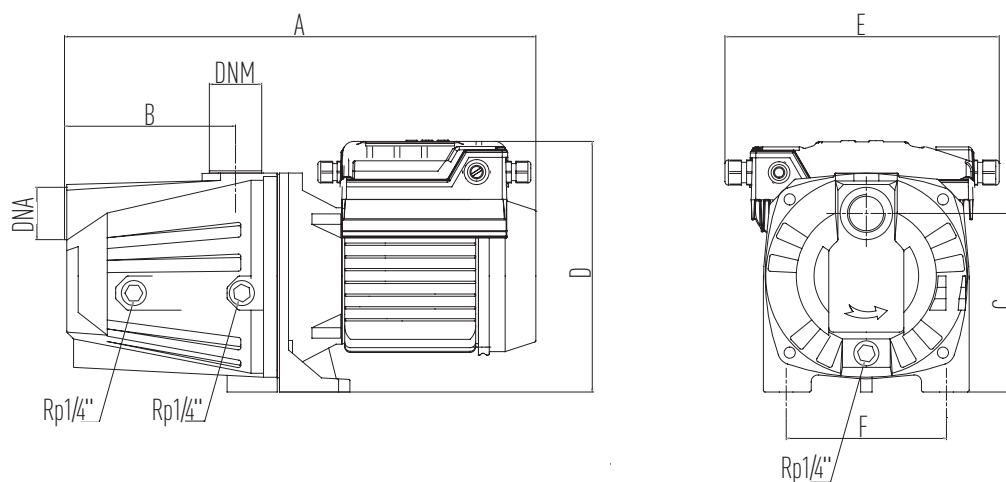
|                 |                                            |                                |                                                           |
|-----------------|--------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft           | Stainless steel X 12 CrNiS 1809 (AISI 416) | Operating pressure max.        | 6 bar                                                     |
| Impeller        | Technopolymer                              | Type of liquid                 | clean water without suspended solids or abrasive material |
| Motor housing   | Cast iron EN GJL 200                       | Temperature of the liquid max. | 50 °C                                                     |
| Pump housing    | Cast iron EN GJL 200                       | Gasket                         | NBR 70 Shore A                                            |
| Mechanical seal | Graphite                                   | Weight                         | 20.8 kg                                                   |
| Counterface     | Ceramic                                    |                                |                                                           |

### ELECTRICAL DATA

|                 |              |                          |                                                                         |
|-----------------|--------------|--------------------------|-------------------------------------------------------------------------|
| Voltage         | 1/N/PE~230 V | Type of enclosure        | IP55 (if installed on motors with a degree of protection IP55 or above) |
| Motor rating P1 | 1.1 kW       | Insulation class         | F                                                                       |
| Motor rating P2 | 0.75 kW      | Ambient temperature max. | 40 °C                                                                   |
| Current         | 7.7 A        | Rotation speed           | 2850 rpm                                                                |

### CPS10/JET

| Type           | Code No. |
|----------------|----------|
| CPS10/JET 1000 | N4700960 |



### DIMENSIONS [mm]

| Type           | A   | B   | C   | D   | DNA | DNM | E   |
|----------------|-----|-----|-----|-----|-----|-----|-----|
| CPS10/JET 1000 | 400 | 147 | 160 | 260 | 1"  | 1"  | 195 |

## CPS10/DHR

SINGLE PHASE - FREQUENCY CONVERTER

- High reliability - thanks to the durable and innovative design
- Quiet operation - improved user comfort thanks to its quiet operation
- Compact dimensions
- Many possible uses for the residential market



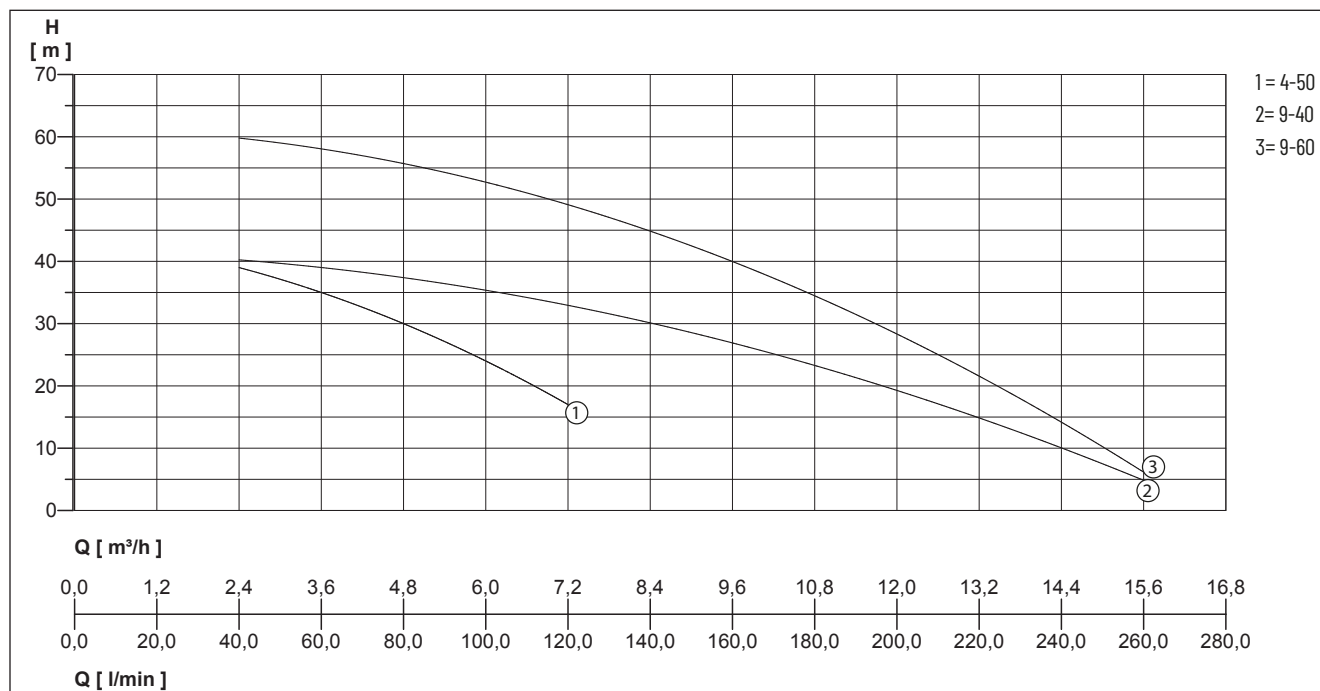
### DESCRIPTION

The system consists of a multi-stage centrifugal horizontal pumps CPS10/DHR and an electronic control system (inverter) which allows to keep the pressure constant in the system, reducing or increasing the speed of rotation of the pump.

### APPLICATIONS

- Pressurization and supply
- Irrigation
- Use of rainwater
- Washing systems

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type           | Flow rate Q [m³/h]  | 2.4 | 3.6 | 4.8 | 6  | 7.2 | 9.6 | 12 | 14.4 | 15.6 |
|----------------|---------------------|-----|-----|-----|----|-----|-----|----|------|------|
| CPS10/DHR 4-50 | Delivery head H [m] | 39  | 35  | 30  | 24 | 17  |     |    |      |      |
| CPS10/DHR 9-40 |                     | 40  | 39  | 38  | 35 | 33  | 27  | 19 | 10   | 5    |
| CPS10/DHR 9-60 |                     | 60  | 58  | 56  | 52 | 49  | 40  | 29 | 14   | 6    |

# CPS10/DHR

## SINGLE PHASE - FREQUENCY CONVERTER

### MECHANICAL DATA

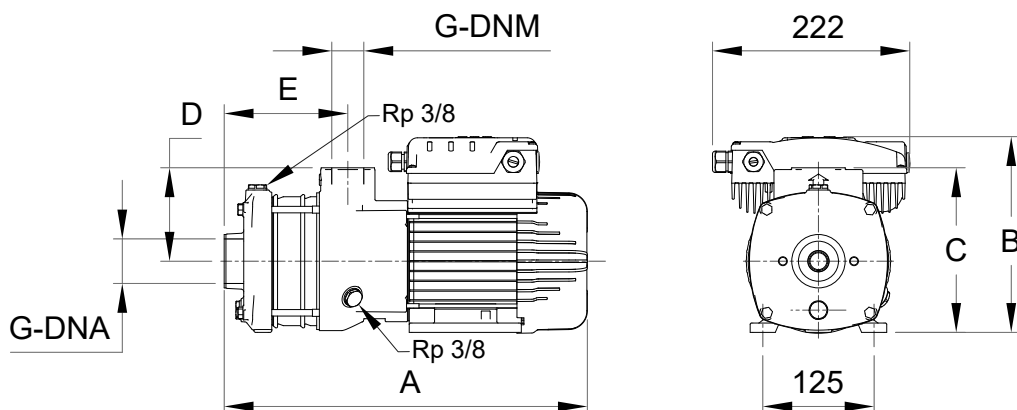
|               |                                         |                                |                                                           |
|---------------|-----------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft         | Stainless steel X5 CrNi 1810 (AISI 304) | Mechanical seal                | Ceramic / Graphite / NBR                                  |
| Impeller      | Stainless steel X5CrNi18-10 (AISI 304)  | Operating pressure max.        | 10 bar<br>6 bar                                           |
| Motor housing | Cast aluminium                          | Type of liquid                 | clean water without suspended solids or abrasive material |
| Diffuser      | Stainless steel X5CrNi18-10 (AISI 304)  | Temperature of the liquid max. | 90 °C                                                     |
|               |                                         | Gasket                         | NBR                                                       |

### ELECTRICAL DATA

|                   |                                                                         |                          |          |
|-------------------|-------------------------------------------------------------------------|--------------------------|----------|
| Voltage           | 1/N/PE~230 V                                                            | Insulation class         | F        |
| Type of enclosure | IP55 (if installed on motors with a degree of protection IP55 or above) | Ambient temperature max. | 40 °C    |
|                   |                                                                         | Rotation speed           | 2850 rpm |

### CPS10/DHR

| Type           | Code No. | Motor rating |        | Current | Weight  |
|----------------|----------|--------------|--------|---------|---------|
|                |          | P1           | P2     |         |         |
| CPS10/DHR 4-50 | N4700930 | 1.25 kW      | 0.9 kW | 9.1 A   | 18.0 kg |
| CPS10/DHR 9-40 | N4700940 | 1.70 kW      | 1.3 kW | 12.5 A  | 21.1 kg |
| CPS10/DHR 9-60 | N4700950 | 2.35 kW      | 1.5 kW | 18.4 A  | 26.0 kg |



### DIMENSIONS [mm]

| Type           | A   | B   | C     | D    | F   | E~  | DNA    | DNM    | E   |
|----------------|-----|-----|-------|------|-----|-----|--------|--------|-----|
| CPS10/DHR 4-50 | 394 | 205 | 137,5 | 66,5 | 222 | 173 | 1 1/4" | 1"     | 190 |
| CPS10/DHR 9-40 | 408 | 220 | 185   | 105  | 222 | 137 | 1 1/4" | 1 1/4" | 137 |
| CPS10/DHR 9-60 | 468 | 220 | 185   | 105  | 222 | 198 | 1 1/2" | 1 1/4" | 198 |



## CPS10/DHI

SINGLE PHASE - FREQUENCY CONVERTER

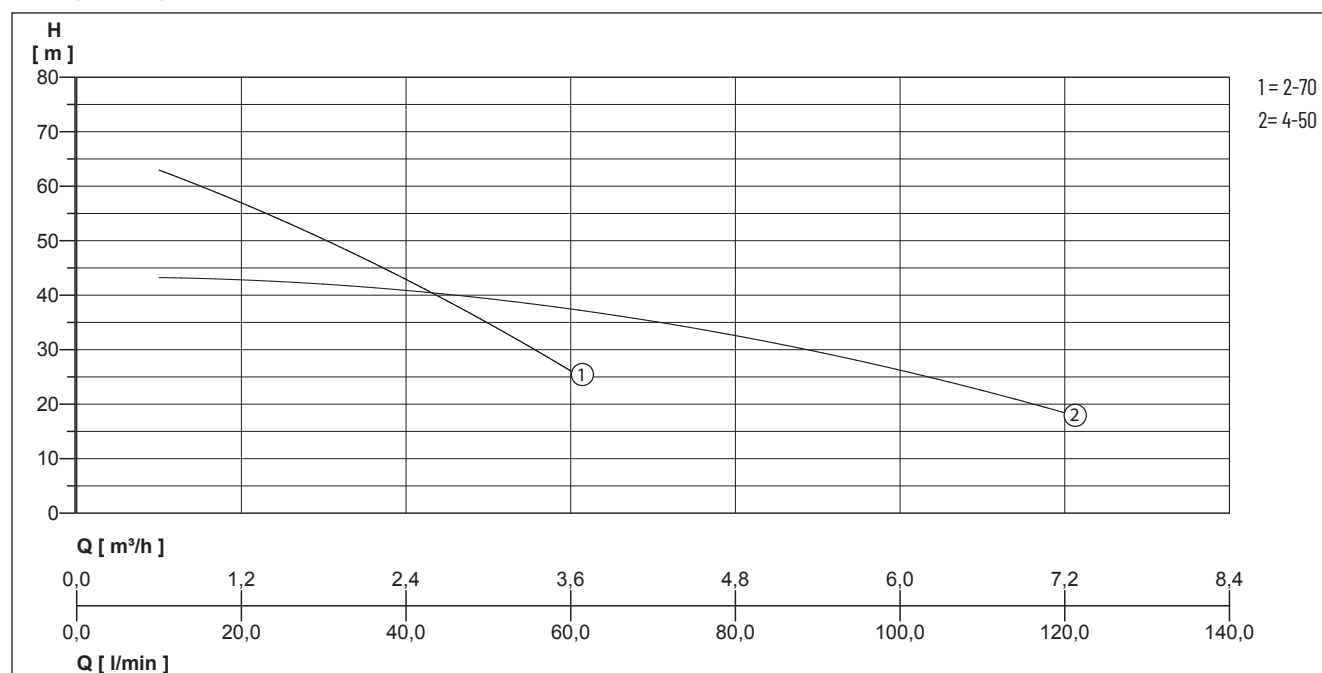
- High reliability - thanks to the durable and innovative design
- Quiet operation - improved user comfort thanks to its quiet operation
- Compact dimensions
- Many possible uses for the residential market



### DESCRIPTION

The system consists of a multi-stage centrifugal horizontal pumps CPS10/DHI and an electronic control system (inverter) which allows to keep the pressure constant in the system, reducing or increasing the speed of rotation of the pump.

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type           | Flow rate Q [m³/h]  | 0.6 | 1.2 | 1.8 | 2.4 | 3  | 3.6 | 4.8 | 6  | 7.2 |
|----------------|---------------------|-----|-----|-----|-----|----|-----|-----|----|-----|
| CPS10/DHI 2-70 | Delivery head H [m] | 63  | 57  | 50  | 43  | 35 | 26  |     |    |     |
| CPS10/DHI 4-50 |                     |     |     |     | 42  | 39 | 36  | 33  | 27 | 18  |

# CPS10/DHI

## SINGLE PHASE - FREQUENCY CONVERTER

### MECHANICAL DATA

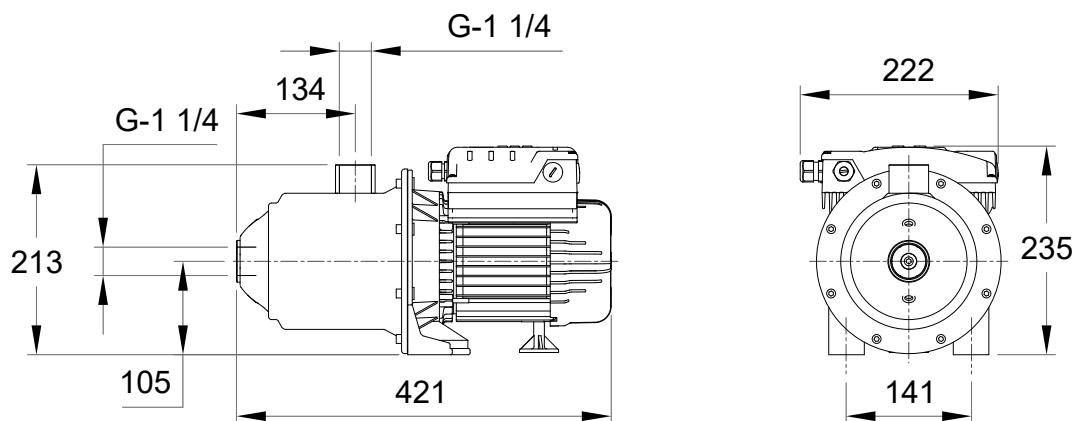
|               |                                                                                |                 |                                                              |
|---------------|--------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------|
| Shaft         | Stainless steel Europe:<br>EN10088-1 X2CrNiMo17-12-2<br>(1.4404) USA: AISI 316 | Diffuser        | Stainless steel X CrNiMo<br>17-12-03 (AISI 316)              |
| Impeller      | Stainless steel X CrNiMo<br>17-12-03 (AISI 316)                                | Mechanical seal | Graphite                                                     |
| Motor housing | Cast iron EN GJL 200                                                           | Counterface     | Ceramic                                                      |
| Pump housing  | Stainless steel X CrNiMo<br>17-12-03 (AISI 316)                                | Type of liquid  | clean water without suspended<br>solids or abrasive material |

### ELECTRICAL DATA

|                   |                                                                               |                          |          |
|-------------------|-------------------------------------------------------------------------------|--------------------------|----------|
| Voltage           | 1/N/PE~230 V                                                                  | Insulation class         | F        |
| Type of enclosure | IP55 (if installed on motors<br>with a degree of protection<br>IP55 or above) | Ambient temperature max. | 40 °C    |
|                   |                                                                               | Rotation speed           | 2850 rpm |

### CPS10/DHI

| Type           | Code No.        | Motor rating P2 | Current | Weight  |
|----------------|-----------------|-----------------|---------|---------|
| CPS10/DHI 2-70 | <b>N4700270</b> | 0.90 kW         | 10.6 A  | 17.4 kg |
| CPS10/DHI 4-50 | <b>N4700260</b> | 0.87 kW         | 10.5 A  | 17.6 kg |



### DIMENSIONS [mm]

| Type           | A   | B   | C   | D   | F   | G   | E~  | DNA    | DNM    | E   |
|----------------|-----|-----|-----|-----|-----|-----|-----|--------|--------|-----|
| CPS10/DHI 2-70 | 105 | 421 | 141 | 235 | 213 | 134 | 222 | 1 1/4" | 1 1/4" | 232 |
| CPS10/DHI 4-50 | 105 | 421 | 141 | 235 | 213 | 134 | 222 | 1 1/4" | 1 1/4" | 232 |

# **PENTAIR STA-RITE** **CPS10/MULTINOX-VE+** SINGLE PHASE - FREQUENCY CONVERTER

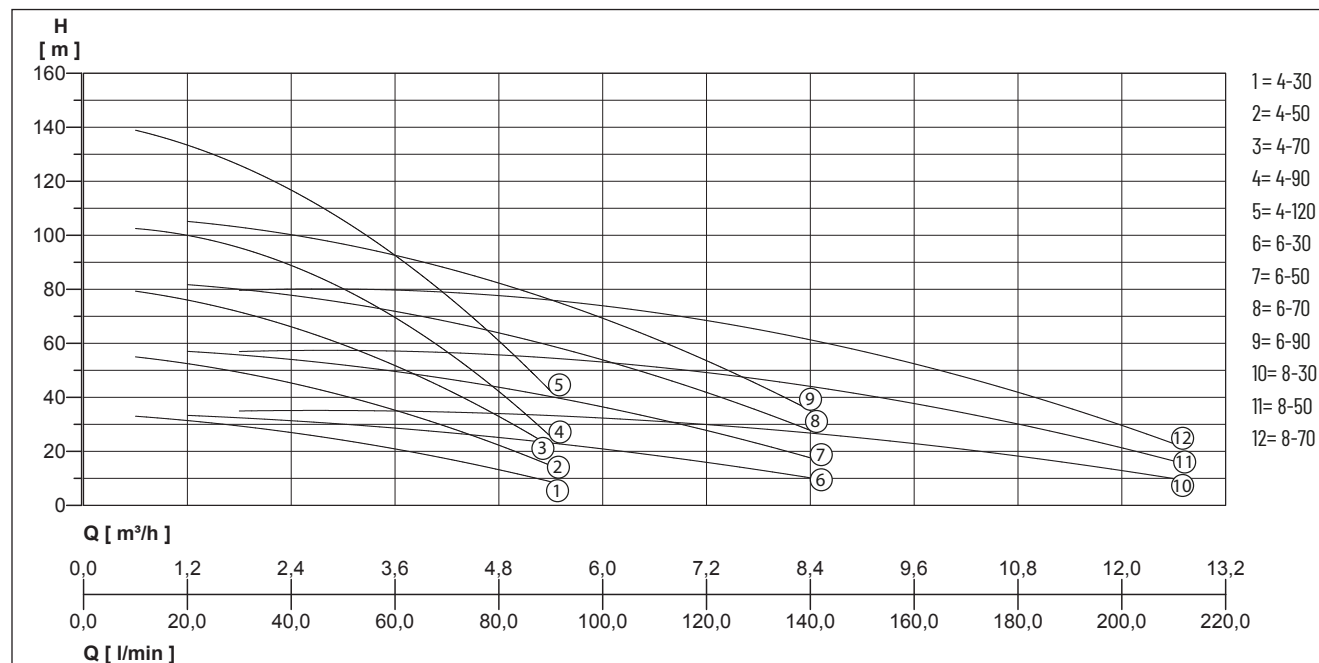
- High reliability - thanks to the durable and innovative design
- Quiet operation - improved user comfort thanks to its quiet operation
- Many possible uses for the residential market
- High performances



## DESCRIPTION

The system consists of a multi-stage centrifugal vertical pumps CPS10/MULTINOX-VE+ and an electronic control system (inverter) which allows to keep the pressure constant in the system, reducing or increasing the speed of rotation of the pump.

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.  $MEI \geq 0.4$  - Reference  $MEI \geq 0.70$  - The information on the reference efficiency is available at the address: [www.euroupump.org/efficiencycharts](http://www.euroupump.org/efficiencycharts) For the efficiency data see the PUMPS of the series MULTINOX-VE+

# CPS10/MULTINOX-VE+

## SINGLE PHASE - FREQUENCY CONVERTER

| Type                     | Flow rate Q [m³/h]  | 0.6 | 1.2 | 2   | 2.4 | 3   | 3.6 | 4.2 | 5  | 5.4 | 6  | 7.2 | 8.4 | 9  | 11 | 13 |
|--------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|----|----|----|
| CPS10 MULTINOX VE+ 4-30  | Delivery head H [m] | 33  | 31  | 30  | 27  | 24  | 21  | 17  | 13 | 9   |    |     |     |    |    |    |
| CPS10 MULTINOX VE+ 4-50  |                     | 55  | 52  | 50  | 45  | 41  | 35  | 29  | 22 | 15  |    |     |     |    |    |    |
| CPS10 MULTINOX VE+ 4-70  |                     | 79  | 76  | 72  | 67  | 59  | 51  | 43  | 33 | 22  |    |     |     |    |    |    |
| CPS10 MULTINOX VE+ 4-90  |                     | 104 | 99  | 95  | 88  | 79  | 69  | 59  | 46 | 32  |    |     |     |    |    |    |
| CPS10 MULTINOX VE+ 4-120 |                     | 138 | 134 | 127 | 117 | 105 | 92  | 78  | 60 | 43  |    |     |     |    |    |    |
| CPS10 MULTINOX VE+ 6-30  |                     |     | 34  | 32  | 31  | 30  | 28  | 27  | 26 | 23  | 21 | 16  | 10  |    |    |    |
| CPS10 MULTINOX VE+ 6-50  |                     |     | 58  | 56  | 53  | 51  | 49  | 47  | 44 | 41  | 37 | 28  | 17  |    |    |    |
| CPS10 MULTINOX VE+ 6-70  |                     |     | 83  | 80  | 77  | 74  | 71  | 68  | 64 | 60  | 55 | 42  | 27  |    |    |    |
| CPS10 MULTINOX VE+ 6-90  |                     |     | 107 | 103 | 99  | 95  | 92  | 87  | 83 | 77  | 71 | 54  | 34  |    |    |    |
| CPS10 MULTINOX VE+ 8-30  |                     |     |     | 35  | 35  | 35  | 35  | 35  | 34 | 33  | 32 | 30  | 27  | 25 | 18 | 10 |
| CPS10 MULTINOX VE+ 8-50  |                     |     |     | 57  | 57  | 56  | 56  | 56  | 54 | 53  | 52 | 50  | 45  | 40 | 28 | 16 |
| CPS10 MULTINOX VE+ 8-70  |                     |     |     | 80  | 80  | 79  | 78  | 78  | 76 | 74  | 72 | 70  | 63  | 56 | 40 | 22 |

### MECHANICAL DATA

|                    |                                         |                                |                                                           |
|--------------------|-----------------------------------------|--------------------------------|-----------------------------------------------------------|
| Run dry protection | Yes                                     | Diffuser                       | Technopolymer                                             |
| Shaft              | Stainless steel X5 CrNi 1810 (AISI 304) | Type of liquid                 | clean water without suspended solids or abrasive material |
| Impeller           | Technopolymer                           | Temperature of the liquid max. | 50 °C                                                     |
| Pump housing       | Stainless steel X5 CrNi 1810 (AISI 304) | Suction height max             | 6 m                                                       |
|                    |                                         | Gasket                         | NBR                                                       |

### ELECTRICAL DATA

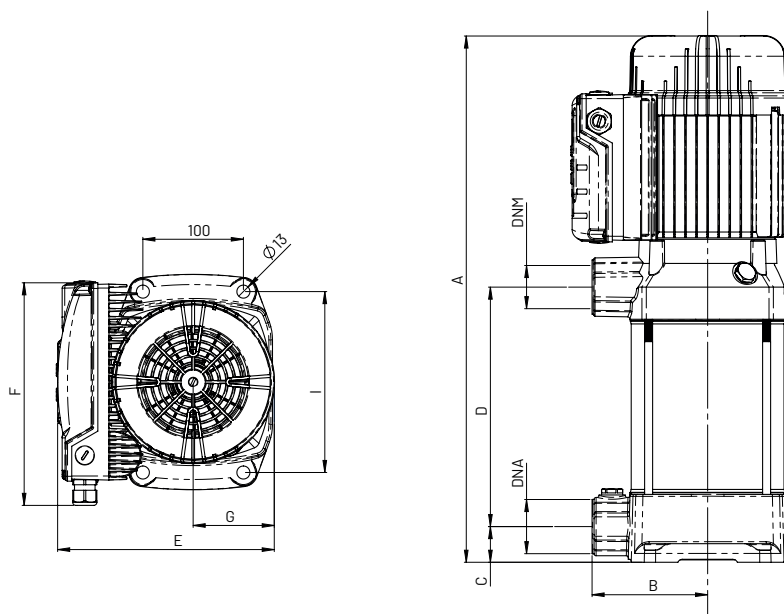
|                   |              |                          |          |
|-------------------|--------------|--------------------------|----------|
| Voltage           | 1/N/PE~230 V | Ambient temperature max. | 40 °C    |
| Type of enclosure | IP 55        | Rotation speed           | 2850 rpm |
| Insulation class  | F            |                          |          |

### CPS10/MULTINOX-VE+

| Type                     | Code No.        | Motor rating<br>P1 | P2      | Current | Weight |
|--------------------------|-----------------|--------------------|---------|---------|--------|
| CPS10 MULTINOX VE+ 4-30  | <b>N4700870</b> | 0.75 kW            | 0.75 kW | 5.0 A   | 21 kg  |
| CPS10 MULTINOX VE+ 4-50  | <b>N4700970</b> | 1.10 kW            | 1.30 kW | 7.5 A   | 25 kg  |
| CPS10 MULTINOX VE+ 4-70  | <b>N4700980</b> | 1.60 kW            | 1.30 kW | 10.3 A  | 29 kg  |
| CPS10 MULTINOX VE+ 4-90  | <b>N4700990</b> | 2.00 kW            | 1.50 kW | 11.0 A  | 30 kg  |
| CPS10 MULTINOX VE+ 4-120 | <b>N4701000</b> | 2.60 kW            | 1.50 kW | 17.8 A  | 32 kg  |
| CPS10 MULTINOX VE+ 6-30  | <b>N4700880</b> | 0.70 kW            | 0.90 kW | 8.0 A   | 21 kg  |
| CPS10 MULTINOX VE+ 6-50  | <b>N4701010</b> | 1.50 kW            | 1.30 kW | 11.6 A  | 25 kg  |
| CPS10 MULTINOX VE+ 6-70  | <b>N4701020</b> | 2.10 kW            | 1.50 kW | 15.2 A  | 29 kg  |
| CPS10 MULTINOX VE+ 6-90  | <b>N4701030</b> | 2.41 kW            | 1.50 kW | 16.0 A  | 30 kg  |
| CPS10 MULTINOX VE+ 8-30  | <b>N4701040</b> | 1.20 kW            | 1.30 kW | 8.0 A   | 21 kg  |
| CPS10 MULTINOX VE+ 8-50  | <b>N4701050</b> | 2.00 kW            | 1.30 kW | 12.5 A  | 25 kg  |
| CPS10 MULTINOX VE+ 8-70  | <b>N4701060</b> | 2.60 W             | 1.50 kW | 16.0 A  | 41 kg  |

# CPS10/MULTINOX-VE+

SINGLE PHASE - FREQUENCY CONVERTER



## DIMENSIONS [mm]

| Type                     | A   | B   | C  | D   | F   | G  | I   | DNA    | DNM    | E   |
|--------------------------|-----|-----|----|-----|-----|----|-----|--------|--------|-----|
| CPS10 MULTINOX VE+ 4-30  | 416 | 115 | 35 | 130 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 4-50  | 470 | 115 | 35 | 184 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 4-70  | 524 | 115 | 35 | 238 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 4-90  | 578 | 115 | 35 | 292 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 4-120 | 660 | 115 | 35 | 373 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 6-30  | 416 | 115 | 35 | 130 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 6-50  | 470 | 115 | 35 | 184 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 6-70  | 524 | 115 | 35 | 238 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 6-90  | 578 | 115 | 35 | 292 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 8-30  | 416 | 115 | 35 | 130 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 8-50  | 470 | 115 | 35 | 184 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |
| CPS10 MULTINOX VE+ 8-70  | 524 | 115 | 35 | 373 | 220 | 80 | 180 | 1 1/4" | 1 1/4" | 220 |

# CPS10/MULTINOX-VE+

SINGLE PHASE - FREQUENCY CONVERTER

## CPS10/PVM

SINGLE PHASE - FREQUENCY CONVERTER

- High reliability - thanks to the durable and innovative design
- Silent operation - improved user comfort thanks to its silent operation
- Many possible uses for the residential market
- High performances



### DESCRIPTION

The system consists of a multi-stage centrifugal horizontal pumps CPS10/PVM and an electronic control system (inverter) which allows to keep the pressure constant in the system, reducing or increasing the speed of rotation of the pump.

### MECHANICAL DATA

|                    |                                  |                                |         |
|--------------------|----------------------------------|--------------------------------|---------|
| Run dry protection | Yes                              | Mechanical seal                | SiC/SiC |
| Shaft              | Stainless steel 1.4057; AISI 431 | Temperature of the liquid max. | 120 °C  |
| Impeller           | Stainless steel 1.4301; AISI 304 | Gasket                         | EPDM    |
| Pump housing       | Cast iron EN GJL 200             |                                |         |

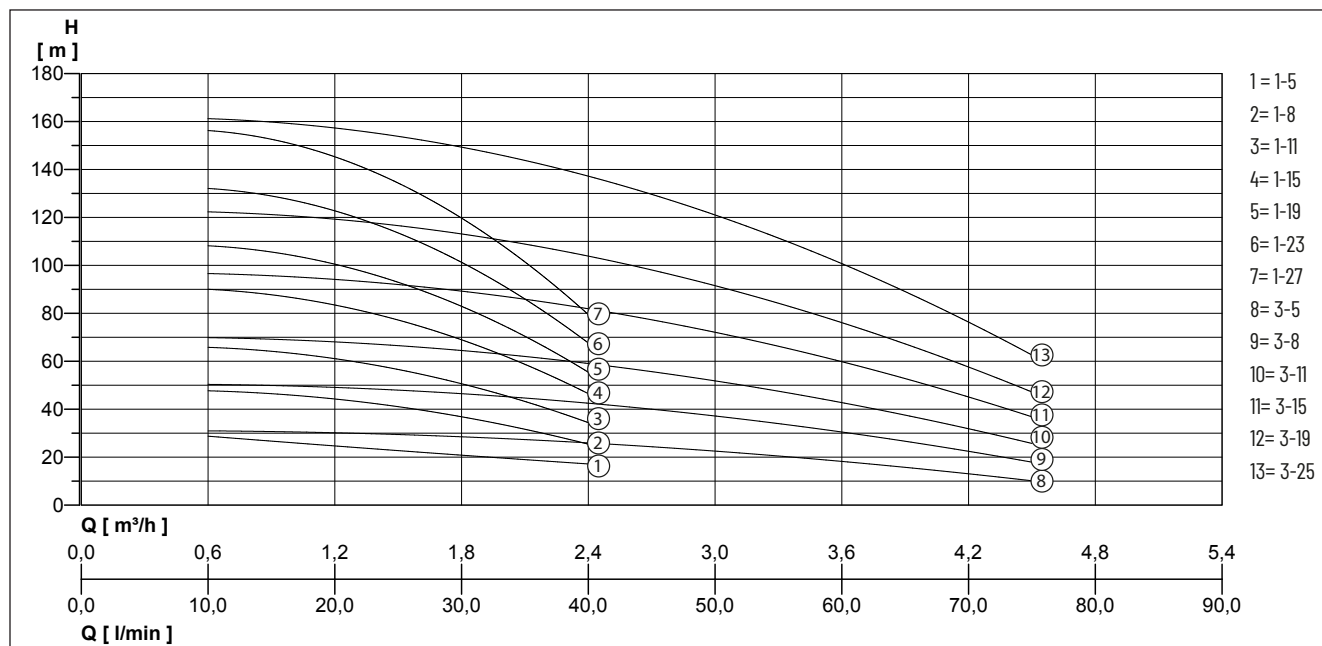
### ELECTRICAL DATA

|                   |              |                          |          |
|-------------------|--------------|--------------------------|----------|
| Voltage           | 1/N/PE~230 V | Ambient temperature max. | 40 °C    |
| Type of enclosure | IP 55        | Rotation speed           | 2850 rpm |
| Insulation class  | F            |                          |          |

# CPS 10/PVM 1 PVM 3

## SINGLE PHASE - FREQUENCY CONVERTER

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances. MEI  $\geq 0.4$  - Reference MEI  $\geq 0.70$  - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts) For the efficiency data see the PUMPS of the series PVM

| Type           | Flow rate Q [m³/h]  | 0.6   | 1.2   | 1.8   | 2.4   | 3     | 3.6  | 4.2  | 4.5  |
|----------------|---------------------|-------|-------|-------|-------|-------|------|------|------|
| CPS10 PVM 1-5  | Delivery head H [m] | 29.4  | 22.7  | 22.8  | 16.5  |       |      |      |      |
| CPS10 PVM 1-8  |                     | 47.6  | 44.5  | 36.6  | 25.5  |       |      |      |      |
| CPS10 PVM 1-11 |                     | 65.7  | 61.4  | 50.3  | 34.5  |       |      |      |      |
| CPS10 PVM 1-15 |                     | 89.9  | 83.8  | 68.6  | 46.6  |       |      |      |      |
| CPS10 PVM 1-19 |                     | 108.0 | 101.0 | 82.4  | 55.6  |       |      |      |      |
| CPS10 PVM 1-23 |                     | 132.0 | 123.0 | 101.0 | 67.7  |       |      |      |      |
| CPS10 PVM 1-27 |                     | 156.0 | 146.0 | 119.0 | 79.7  |       |      |      |      |
| CPS10 PVM 3-5  |                     | 31.1  | 30.0  | 28.3  | 26.2  | 22.6  | 18.0 | 13.3 | 10.0 |
| CPS10 PVM 3-8  |                     | 50.5  | 48.9  | 46.2  | 42.9  | 37.3  | 30.1 | 22.7 | 17.8 |
| CPS10 PVM 3-11 |                     | 70.0  | 67.9  | 64.1  | 59.6  | 52.1  | 42.1 | 32.1 | 25.7 |
| CPS10 PVM 3-15 |                     | 96.0  | 93.2  | 88.0  | 81.9  | 71.7  | 58.2 | 44.7 | 36.1 |
| CPS10 PVM 3-19 |                     | 121.9 | 118.0 | 111.9 | 104.0 | 91.3  | 74.3 | 57.2 | 46.5 |
| CPS10 PVM 3-25 |                     | 160.8 | 156.0 | 147.8 | 138.0 | 120.8 | 98.4 | 76.0 | 62.1 |

### CPS 10/PVM 1 PVM 3

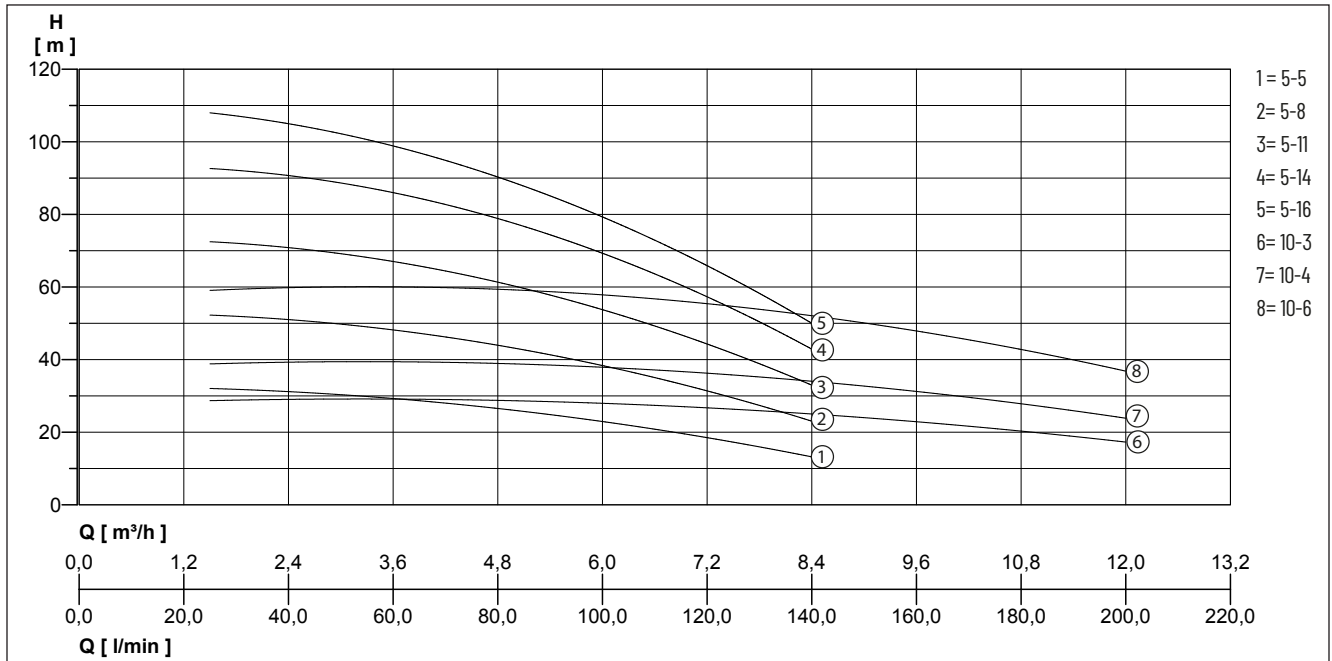
| Type           | Code No. | Motor rating |         | Current | Weight |
|----------------|----------|--------------|---------|---------|--------|
|                |          | P1           | P2      |         |        |
| CPS10 PVM 1-5  | N4700890 | 0.4 kW       | 0.37 kW | 3.4 A   | 29 kg  |
| CPS10 PVM 1-8  | N4700910 | 0.6 W        | 0.55 kW | 4.1 A   | 31 kg  |
| CPS10 PVM 1-11 | N4700920 | 0.7 kW       | 0.55 kW | 4.8 A   | 32 kg  |
| CPS10 PVM 1-15 | N4700530 | -            | 0.80 kW | 5.8 A   | 36 kg  |
| CPS10 PVM 1-19 | N4700540 | -            | 1.10 kW | 7.4 A   | 38 kg  |
| CPS10 PVM 1-23 | N4700550 | -            | 1.10 kW | 8.3 A   | 40 kg  |
| CPS10 PVM 1-27 | N4700560 | -            | 1.50 kW | 9.9 A   | 50 kg  |
| CPS10 PVM 3-5  | N4700900 | 0.4 W        | 0.37 kW | 3.0 A   | 29 kg  |
| CPS10 PVM 3-8  | N4700580 | -            | 0.80 kW | 4.8 A   | 33 kg  |
| CPS10 PVM 3-11 | N4700590 | -            | 1.10 kW | 6.6 A   | 35 kg  |
| CPS10 PVM 3-15 | N4700600 | -            | 1.10 kW | 9.0 A   | 37 kg  |
| CPS10 PVM 3-19 | N4700610 | -            | 1.50 kW | 11.0 A  | 47 kg  |
| CPS10 PVM 3-25 | N4700620 | -            | 2.20 kW | 15.0 A  | 52 kg  |



# CPS 10/PVM 5 PVM 10

## SINGLE PHASE - FREQUENCY CONVERTER

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances. MEI  $\geq 0.4$  - Reference MEI  $\geq 0.70$  - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts) For the efficiency data see the PUMPS of the series PVM

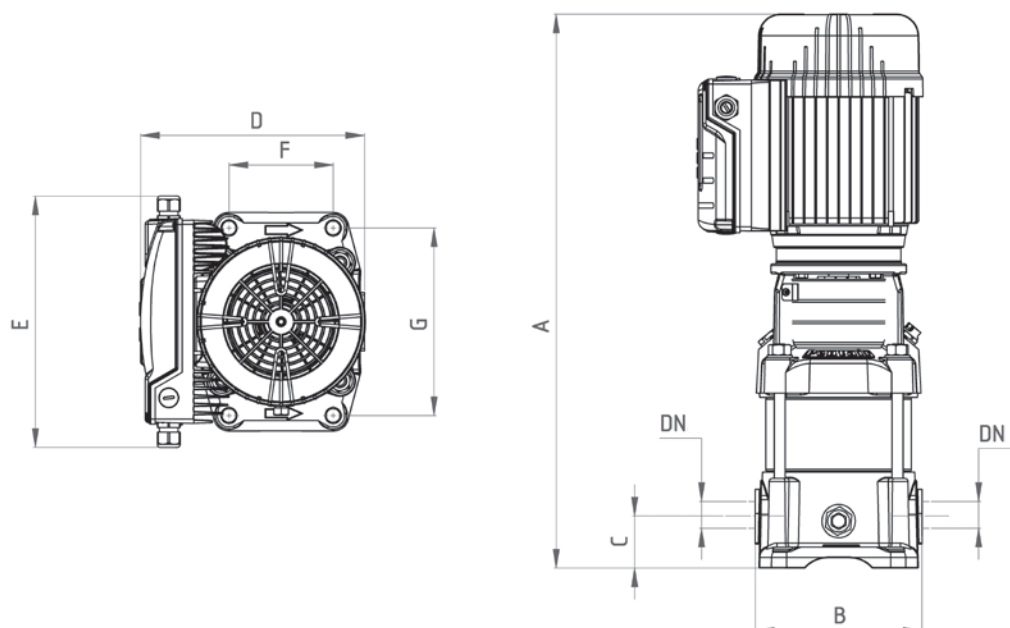
| Type           | Flow rate Q [m³/h]  | 1.5  | 2.4   | 3    | 3.6  | 4.5  | 4.8  | 6    | 7.2  | 7.5  | 8.4  | 9    | 10.5 | 12   |
|----------------|---------------------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
| CPS10 PVM 5-5  | Delivery head H [m] |      | 31.1  |      | 29.4 |      | 26.8 | 22.9 | 18.0 |      | 13.5 |      |      |      |
| CPS10 PVM 5-8  |                     |      | 51.1  |      | 48.5 |      | 44.3 | 38.2 | 30.5 |      | 23.6 |      |      |      |
| CPS10 PVM 5-11 |                     |      | 71.1  |      | 67.5 |      | 61.8 | 53.5 | 43.0 |      | 33.8 |      |      |      |
| CPS10 PVM 5-14 |                     |      | 91.1  |      | 86.6 |      | 79.4 | 68.9 | 55.8 |      | 43.9 |      |      |      |
| CPS10 PVM 5-16 |                     |      | 104.5 |      | 99.3 |      | 91.0 | 79.1 | 64.7 |      | 50.7 |      |      |      |
| CPS10 PVM 10-3 |                     | 28.9 |       | 29.0 |      | 28.7 |      | 27.8 |      | 26.4 |      | 24.4 | 21.0 | 17.1 |
| CPS10 PVM 10-4 |                     | 39.1 |       | 39.2 |      | 38.9 |      | 37.7 |      | 35.8 |      | 33.2 | 28.8 | 23.6 |
| CPS10 PVM 10-6 |                     | 59.4 |       | 59.8 |      | 59.4 |      | 57.5 |      | 54.7 |      | 50.8 | 44.2 | 36.5 |

### CPS 10/PVM 5 PVM 10

| Type           | Code No.        | Motor rating P2 | Current | Weight |
|----------------|-----------------|-----------------|---------|--------|
| CPS10 PVM 5-5  | <b>N4700630</b> | 0.75 kW         | 5.4 A   | 32 kg  |
| CPS10 PVM 5-8  | <b>N4700820</b> | 1.10 kW         | 8.7 A   | 35 kg  |
| CPS10 PVM 5-11 | <b>N4700650</b> | 2.20 kW         | 12.0 A  | 48 kg  |
| CPS10 PVM 5-14 | <b>N4700660</b> | 2.20 kW         | 15.2 A  | 50 kg  |
| CPS10 PVM 5-16 | <b>N4700670</b> | 2.20 kW         | 17.4 A  | 51 kg  |
| CPS10 PVM 10-3 | <b>N4700680</b> | 1.10 kW         | 2.4 A   | 45 kg  |
| CPS10 PVM 10-4 | <b>N4700690</b> | 1.50 kW         | 3.2 A   | 55 kg  |
| CPS10 PVM 10-6 | <b>N4700700</b> | 2.20 kW         | 4.8 A   | 60 kg  |

# CPS10/PVM

SINGLE PHASE - FREQUENCY CONVERTER



## DIMENSIONS [mm]

| Type           | A    | B   | C   | D   | F   | G   | DN | E   |
|----------------|------|-----|-----|-----|-----|-----|----|-----|
| CPS10 PVM 1-5  | 510  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 1-8  | 564  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 1-11 | 618  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 1-15 | 736  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 1-19 | 808  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 1-23 | 880  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 1-27 | 1024 | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 3-5  | 510  | 510 | 510 | 510 | 510 | 510 | 32 | 510 |
| CPS10 PVM 3-8  | 610  | 610 | 610 | 610 | 610 | 610 | 32 | 610 |
| CPS10 PVM 3-11 | 664  | 664 | 664 | 664 | 664 | 664 | 32 | 664 |
| CPS10 PVM 3-15 | 736  | 736 | 736 | 736 | 736 | 736 | 32 | 736 |
| CPS10 PVM 3-19 | 880  | 880 | 880 | 880 | 880 | 880 | 32 | 880 |
| CPS10 PVM 3-25 | 988  | 988 | 988 | 988 | 988 | 988 | 32 | 988 |
| CPS10 PVM 5-5  | 601  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 5-8  | 682  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 5-11 | 835  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 5-14 | 916  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 5-16 | 970  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS10 PVM 10-3 | 612  | 280 | 80  | 160 | 130 | 215 | 40 | 232 |
| CPS10 PVM 10-4 | 714  | 280 | 80  | 160 | 130 | 215 | 40 | 232 |
| CPS10 PVM 10-6 | 774  | 280 | 80  | 160 | 130 | 215 | 40 | 232 |

## CPS3-10/MULTINOX-VE+

THREE PHASE - FREQUENCY CONVERTER

- Pressure measurement with the possibility to manage 2 independent levels adjustable by means of a time added internally or with an external connection
- Internal clock
- Calculation of the speed of the motor
- Protection against dry running
- Over and under current protection



### DESCRIPTION

CPS 3-10 is an electronic device capable of changing the frequency of a pump. Integrated directly on the motor, it allows to adjust its speed so as to supply the same pressure at all times, even when the water demand changes. CPS represents a compact, essential and reliable solution which is easy to use; designed to offer great comfort and benefits in various applications such as: irrigation, pressurization and water transfer, residential, commercial and industrial uses. The CPS range is characterised by a simple and elegant design with a backlight graphic display which informs the user of the operating parameters in real time.

The operating principle is simple and effective. The CPS powers the electric motor of the pump on which it is mounted and, by means of a feedback system that uses a pressure transducer, it changes the supply frequency of the electric motor depending on the water demand in order to keep the output pressure of the pump constant, the value of which is set on the device (set point). CPS ensures high levels of efficiency and greater flexibility in performance, ensuring a high energy saving and making the use of other control devices unnecessary.

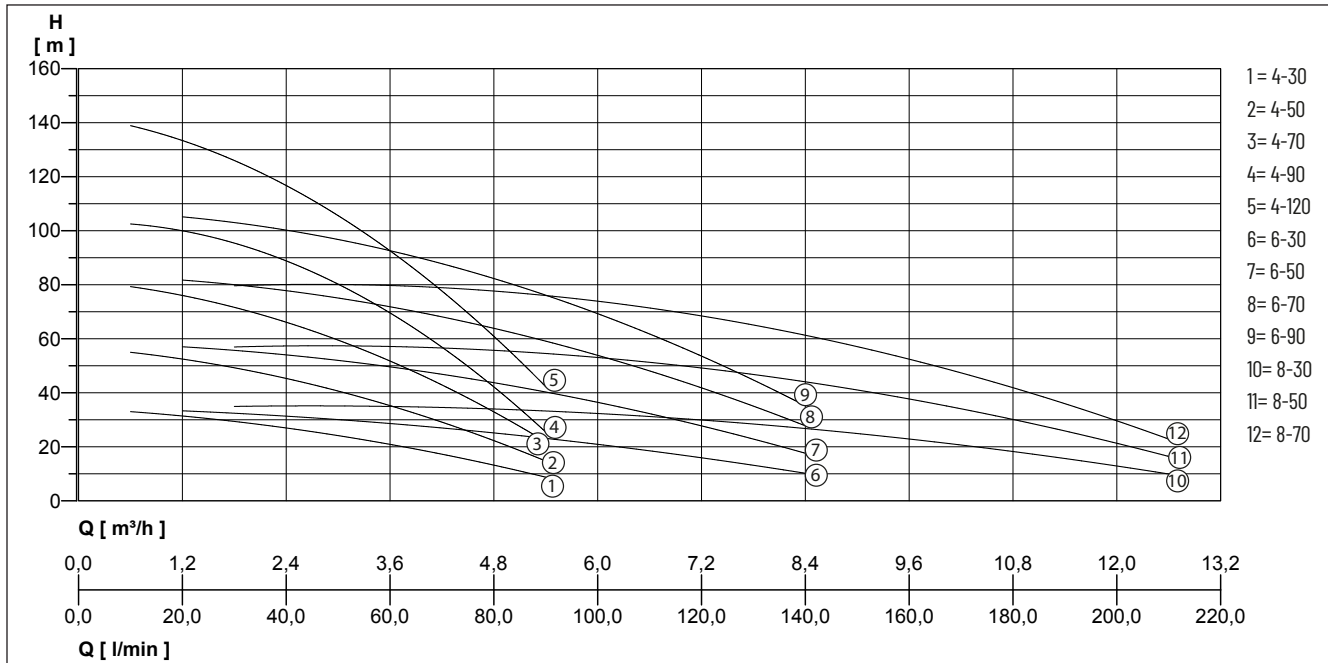
### APPLICATIONS

- Pressurization systems
- Water supply
- Industry
- Construction
- Washes

# CPS3-10/MULTINOX-VE+

## THREE PHASE - FREQUENCY CONVERTER

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances. MEI  $\geq 0.4$  - Reference MEI  $\geq 0.70$  - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts) For the efficiency data see the PUMPS of the series MULTINOX-VE+

| Type                       | Flow rate Q [m³/h]  | 0.6 | 1.2 | 2   | 2.4 | 3   | 3.6 | 4.2 | 5   | 5.4 | 6   | 7.2 | 8.4 | 9  | 11 | 13 |
|----------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| CPS3-10 MULTINOX VE+ 4-30  | Delivery head H [m] | 33  | 31  | 30  | 27  | 24  | 21  | 17  | 13  | 9   |     |     |     |    |    |    |
| CPS3-10 MULTINOX VE+ 4-50  |                     | 55  | 52  | 50  | 45  | 41  | 35  | 29  | 22  | 15  |     |     |     |    |    |    |
| CPS3-10 MULTINOX VE+ 4-70  |                     | 79  | 76  | 72  | 67  | 59  | 51  | 43  | 33  | 22  |     |     |     |    |    |    |
| CPS3-10 MULTINOX VE+ 4-90  |                     | 104 | 99  | 95  | 88  | 79  | 69  | 59  | 46  | 32  |     |     |     |    |    |    |
| CPS3-10 MULTINOX VE+ 4-120 |                     | 138 | 134 | 127 | 117 | 105 | 92  | 78  | 60  | 43  |     |     |     |    |    |    |
| CPS3-10 MULTINOX VE+ 6-30  |                     |     | 34  | 32  | 31  | 30  | 28  | 27  | 26  | 23  | 21  | 16  | 10  |    |    |    |
| CPS3-10 MULTINOX VE+ 6-50  |                     |     | 58  | 56  | 53  | 51  | 49  | 47  | 44  | 41  | 37  | 28  | 17  |    |    |    |
| CPS3-10 MULTINOX VE+ 6-70  |                     |     | 83  | 80  | 77  | 74  | 71  | 68  | 64  | 60  | 55  | 42  | 27  |    |    |    |
| CPS3-10 MULTINOX VE+ 6-90  |                     |     | 107 | 103 | 99  | 95  | 92  | 87  | 83  | 77  | 71  | 54  | 34  |    |    |    |
| CPS3-10 MULTINOX VE+ 8-30  |                     |     |     | 35  | 35  | 35  | 35  | 35  | 34  | 33  | 32  | 30  | 27  | 25 | 18 | 10 |
| CPS3-10 MULTINOX VE+ 8-50  |                     |     |     | 57  | 57  | 56  | 56  | 56  | 54  | 53  | 52  | 50  | 45  | 40 | 28 | 16 |
| CPS3-10 MULTINOX VE+ 8-70  |                     |     |     | 80  | 80  | 79  | 78  | 78  | 76  | 74  | 72  | 70  | 63  | 56 | 40 | 22 |
| CPS3-10 MULTINOX VE+ 8-90  |                     |     |     | 104 | 104 | 104 | 103 | 103 | 101 | 98  | 94  | 90  | 82  | 73 | 52 | 29 |
| CPS3-10 MULTINOX VE+ 8-120 |                     |     |     | 139 | 139 | 139 | 138 | 138 | 135 | 131 | 126 | 120 | 109 | 98 | 70 | 38 |

### MECHANICAL DATA

|                    |                                         |                                |                                                           |
|--------------------|-----------------------------------------|--------------------------------|-----------------------------------------------------------|
| Run dry protection | Yes                                     | Diffuser                       | Technopolymer                                             |
| Shaft              | Stainless steel X5 CrNi 1810 (AISI 304) | Type of liquid                 | clean water without suspended solids or abrasive material |
| Impeller           | Technopolymer                           | Temperature of the liquid max. | 50 °C                                                     |
| Pump housing       | Stainless steel X5 CrNi 1810 (AISI 304) | Suction height max             | 6 m                                                       |
|                    |                                         | Gasket                         | NBR                                                       |

### ELECTRICAL DATA

|                   |              |                          |          |
|-------------------|--------------|--------------------------|----------|
| Voltage           | 3/N/PE-400 V | Ambient temperature max. | 40 °C    |
| Type of enclosure | IP 55        | Rotation speed           | 2850 rpm |
| Insulation class  | F            |                          |          |

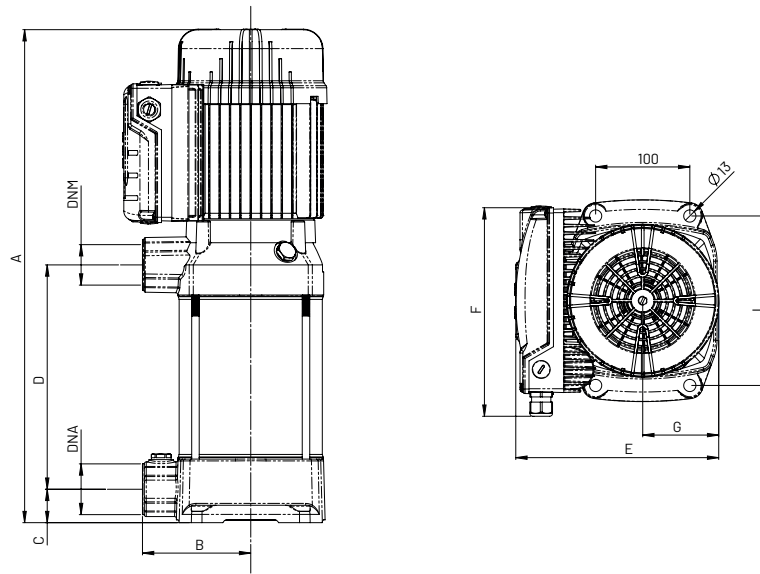
# CPS3-10/MULTINOX-VE+

## THREE PHASE - FREQUENCY CONVERTER

### CPS3-10/MULTINOX-VE+

| Type                       | Code No.        | Motor rating |        | Current | Weight |
|----------------------------|-----------------|--------------|--------|---------|--------|
|                            |                 | P1           | P2     |         |        |
| CPS3-10 MULTINOX VE+ 4-30  | <b>N4810340</b> | 0.75 kW      | 0.7 kW | 1.7 A   | 21 kg  |
| CPS3-10 MULTINOX VE+ 4-50  | <b>N4810400</b> | 1.30 kW      | 1.3 kW | 3.0 A   | 25 kg  |
| CPS3-10 MULTINOX VE+ 4-70  | <b>N4810410</b> | 1.60 kW      | 1.3 kW | 3.2 A   | 29 kg  |
| CPS3-10 MULTINOX VE+ 4-90  | <b>N4810420</b> | 2.00 kW      | 1.5 kW | 4.0 A   | 30 kg  |
| CPS3-10 MULTINOX VE+ 4-120 | <b>N4810430</b> | 2.60 kW      | 1.5 kW | 5.2 A   | 32 kg  |
| CPS3-10 MULTINOX VE+ 6-30  | <b>N4810350</b> | 0.90 kW      | 0.7 kW | 2.3 A   | 21 kg  |
| CPS3-10 MULTINOX VE+ 6-50  | <b>N4810440</b> | 1.40 kW      | 1.3 kW | 3.2 A   | 25 kg  |
| CPS3-10 MULTINOX VE+ 6-70  | <b>N4810450</b> | 1.80 kW      | 1.5 kW | 3.6 A   | 29 kg  |
| CPS3-10 MULTINOX VE+ 6-90  | <b>N4810460</b> | 2.41 kW      | 1.5 kW | 7.6 A   | 30 kg  |
| CPS3-10 MULTINOX VE+ 8-30  | <b>N4810470</b> | 1.00 kW      | 1.3 kW | 2.1 A   | 21 kg  |
| CPS3-10 MULTINOX VE+ 8-50  | <b>N4810480</b> | 1.80 kW      | 1.5 kW | 3.6 A   | 25 kg  |
| CPS3-10 MULTINOX VE+ 8-70  | <b>N4810490</b> | 2.60 kW      | 1.5 kW | 5.0 A   | 41 kg  |
| CPS3-10 MULTINOX VE+ 8-90  | <b>N4800380</b> | -            | 3.0 kW | 9.7 A   | 42 kg  |
| CPS3-10 MULTINOX VE+ 8-120 | <b>N4800390</b> | -            | 4.0 kW | 12.3 A  | 45 kg  |

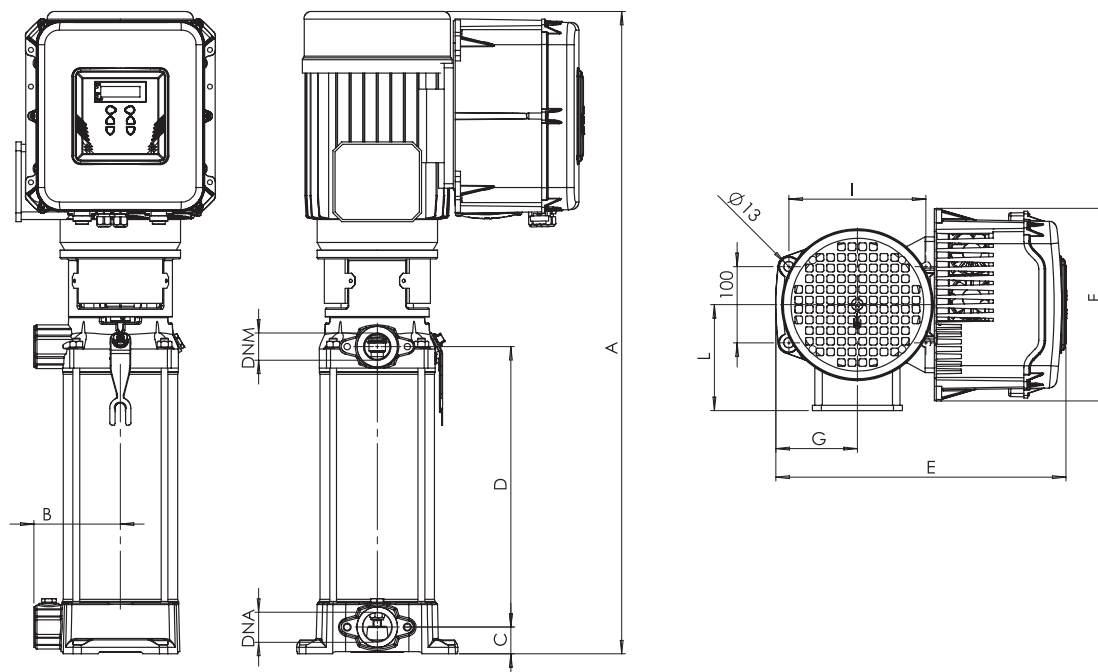
Figure 1



# CPS3-10/MULTINOX-VE+

## THREE PHASE - FREQUENCY CONVERTER

Figure 2



### DIMENSIONS [mm]

| Type                       | Fig. | A   | B   | C  | D   | F   | G   | I   | L   | DNA    | DNM    | E   |
|----------------------------|------|-----|-----|----|-----|-----|-----|-----|-----|--------|--------|-----|
| CPS3-10 MULTINOX VE+ 4-30  | 1    | 416 | 115 | 35 | 130 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 4-50  | 1    | 470 | 115 | 35 | 184 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 4-70  | 1    | 524 | 115 | 35 | 238 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 4-90  | 1    | 578 | 115 | 35 | 292 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 4-120 | 1    | 660 | 115 | 35 | 373 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 6-30  | 1    | 416 | 115 | 35 | 130 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 6-50  | 1    | 470 | 115 | 35 | 184 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 6-70  | 1    | 524 | 115 | 35 | 238 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 6-90  | 1    | 578 | 115 | 35 | 292 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 8-30  | 1    | 416 | 115 | 35 | 130 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 8-50  | 1    | 470 | 115 | 35 | 184 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 8-70  | 1    | 524 | 115 | 35 | 373 | 220 | 80  | 180 |     | 1 1/4" | 1 1/4" | 220 |
| CPS3-10 MULTINOX VE+ 8-90  | 2    | 730 | 115 | 35 | 292 | 253 | 105 | 180 | 140 | 1 1/4" | 1 1/4" | 370 |
| CPS3-10 MULTINOX VE+ 8-120 | 2    | 855 | 115 | 35 | 373 | 253 | 105 | 180 | 145 | 1 1/4" | 1 1/4" | 380 |

## CPS3-10/PVM

### THREE PHASE - FREQUENCY CONVERTER

- Pressure measurement with the possibility to manage 2 independent levels adjustable by means of a time added internally or with an external connection
- Start and stop
- Internal clock
- Calculation of the speed of the motor
- Protection against dry running
- Over and under current protection



#### DESCRIPTION

CPS 3-10 is an electronic device capable of changing the frequency of a pump. Integrated directly on the motor, it allows to adjust its speed so as to supply the same pressure at all times, even when the water demand changes. CPS represents a compact, essential and reliable solution which is easy to use; designed to offer great comfort and benefits in various applications such as: irrigation, pressurization and water transfer, residential, commercial and industrial uses. The CPS range is characterised by a simple and elegant design with a backlight graphic display which informs the user of the operating parameters in real time.

The operating principle is simple and effective. The CPS powers the electric motor of the pump on which it is mounted and, by means of a feedback system that uses a pressure transducer, it changes the supply frequency of the electric motor depending on the water demand in order to keep the output pressure of the pump constant, the value of which is set on the device (set point). CPS ensures high levels of efficiency and greater flexibility in performance, ensuring a high energy saving and making the use of other control devices unnecessary.

#### APPLICATIONS

- Pressurization systems
- Water supply
- Industry
- Construction
- Washes

#### MECHANICAL DATA

|                    |                                  |                 |         |
|--------------------|----------------------------------|-----------------|---------|
| Run dry protection | Yes                              | Mechanical seal | SiC/SiC |
| Shaft              | Stainless steel 1.4057; AISI 431 | Gasket          | EPDM    |

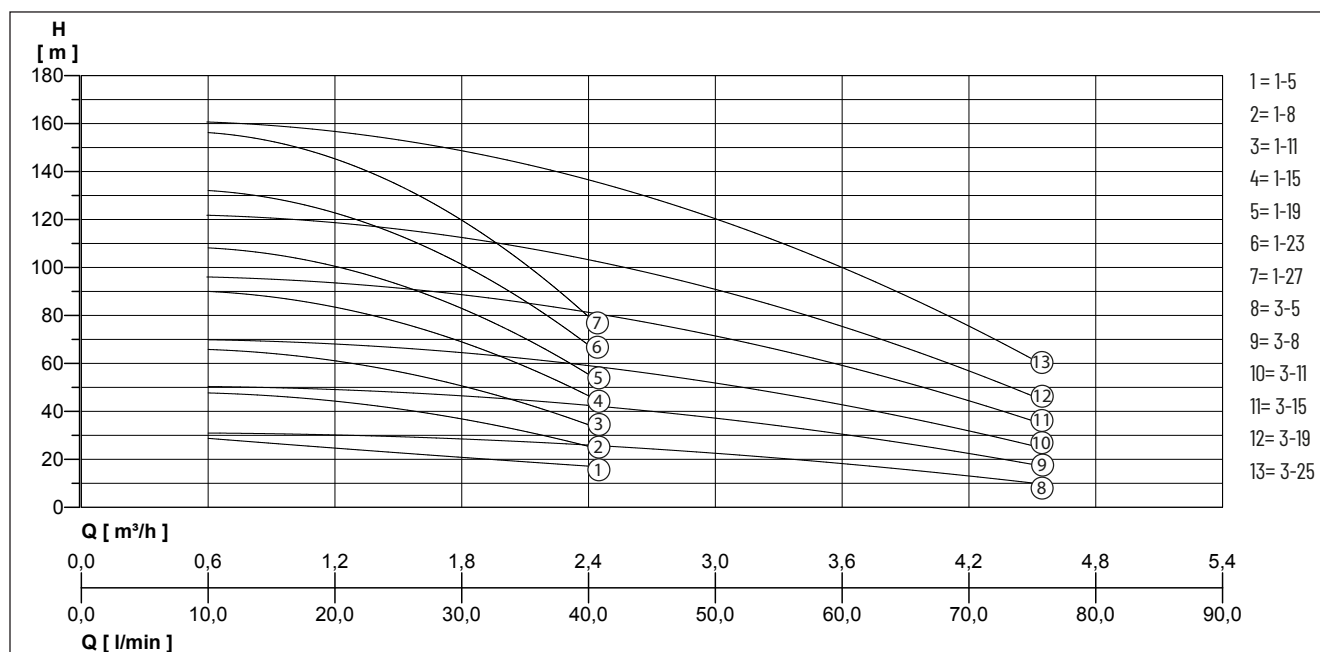
#### ELECTRICAL DATA

|                   |                                                                         |                          |       |
|-------------------|-------------------------------------------------------------------------|--------------------------|-------|
| Voltage           | 3/N/PE~400 V                                                            | Ambient temperature max. | 50 °C |
| Type of enclosure | IP55 (if installed on motors with a degree of protection IP55 or above) |                          |       |

# CPS3-10/PVM 1 PVM 3

## THREE PHASE - FREQUENCY CONVERTER

### PERFORMANCE



| Type               | Flow rate Q [m³/h]  | 0.6   | 1.2   | 1.8   | 2.4   | 3.6  | 4.5  |
|--------------------|---------------------|-------|-------|-------|-------|------|------|
| CPS3-10 PVM 1-5 F  | Delivery head H [m] | 29.4  | 22.7  | 22.8  | 16.5  |      |      |
| CPS3-10 PVM 1-8 F  |                     | 47.6  | 44.5  | 36.6  | 25.5  |      |      |
| CPS3-10 PVM 1-11 F |                     | 65.7  | 61.4  | 50.3  | 34.5  |      |      |
| CPS3-10 PVM 1-15 F |                     | 89.9  | 83.8  | 68.6  | 46.6  |      |      |
| CPS3-10 PVM 1-19 F |                     | 108.0 | 100.7 | 82.4  | 55.6  |      |      |
| CPS3-10 PVM 1-23 F |                     | 132.2 | 123.1 | 100.7 | 67.7  |      |      |
| CPS3-10 PVM 1-27 F |                     | 156.4 | 145.6 | 119.0 | 79.7  |      |      |
| CPS3-10 PVM 3-5 F  |                     |       | 30.0  |       | 26.2  | 18.0 | 10.0 |
| CPS3-10 PVM 3-8 F  |                     |       | 48.9  |       | 42.9  | 30.1 | 17.8 |
| CPS3-10 PVM 3-11 F |                     |       | 67.9  |       | 59.6  | 42.1 | 25.7 |
| CPS3-10 PVM 3-15 F |                     |       | 93.2  |       | 81.9  | 58.2 | 36.1 |
| CPS3-10 PVM 3-19 F |                     |       | 118.4 |       | 104.2 | 74.3 | 46.5 |
| CPS3-10 PVM 3-25 F |                     |       | 156.3 |       | 137.6 | 98.4 | 62.1 |

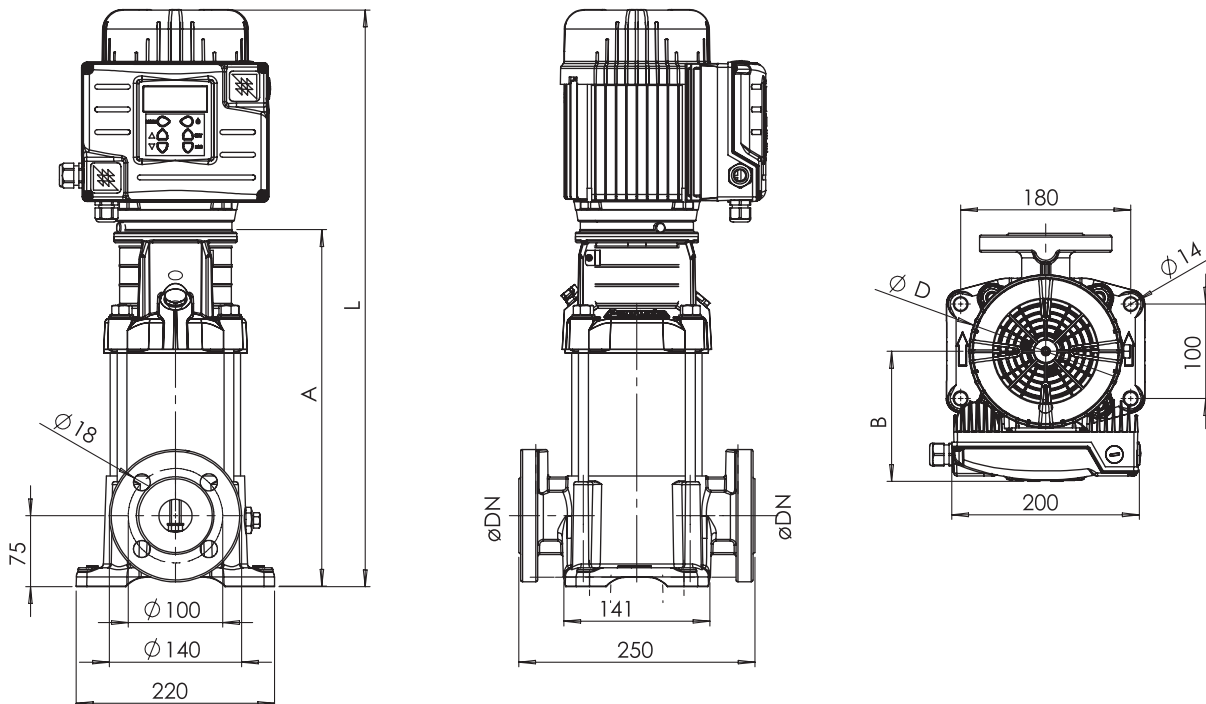


# CPS3-10/PVM 1 PVM 3

## THREE PHASE - FREQUENCY CONVERTER

### CPS3-10/PVM 1 PVM 3

| Type               | Code No.        | Motor rating |         | Current | Impeller                         | Pump housing                            | Temperature of the liquid max. | Weight |
|--------------------|-----------------|--------------|---------|---------|----------------------------------|-----------------------------------------|--------------------------------|--------|
| P1                 | P2              |              |         |         |                                  |                                         |                                |        |
| CPS3-10 PVM 1-5 F  | <b>N4810360</b> | 0.4 kW       | 0.37 kW | 1.50 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 29 kg  |
| CPS3-10 PVM 1-8 F  | <b>N4810380</b> | 0.6 kW       | 0.55 kW | 2.30 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 31 kg  |
| CPS3-10 PVM 1-11 F | <b>N4810390</b> | 0.9 kW       | 0.55 kW | 2.10 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 32 kg  |
| CPS3-10 PVM 1-15 F | <b>N4810030</b> | -            | 0.75 kW | 4.40 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | -                              | 36 kg  |
| CPS3-10 PVM 1-19 F | <b>N4810040</b> | -            | 1.10 kW | 5.50 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 38 kg  |
| CPS3-10 PVM 1-23 F | <b>N4810050</b> | -            | 1.10 kW | 6.70 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 40 kg  |
| CPS3-10 PVM 1-27 F | <b>N4810060</b> | -            | 1.50 kW | 7.80 A  | Stainless steel 1.4301; AISI 304 | Stainless steel X5 CrNi 1810 (AISI 304) | 120 °C                         | 50 kg  |
| CPS3-10 PVM 3-5 F  | <b>N4810370</b> | 0.4 kW       | 0.37 kW | 0.90 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 29 kg  |
| CPS3-10 PVM 3-8 F  | <b>N4810080</b> | -            | 0.75 kW | 1.45 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 33 kg  |
| CPS3-10 PVM 3-11 F | <b>N4810090</b> | -            | 0.75 kW | 2.00 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 35 kg  |
| CPS3-10 PVM 3-15 F | <b>N4810100</b> | -            | 1.10 kW | 2.70 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 37 kg  |
| CPS3-10 PVM 3-19 F | <b>N4810110</b> | -            | 1.50 kW | 3.40 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 47 kg  |
| CPS3-10 PVM 3-25 F | <b>N4810120</b> | -            | 2.20 kW | 4.50 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                    | 120 °C                         | 52 kg  |



# CPS3-10/PVM 1 PVM 3

THREE PHASE - FREQUENCY CONVERTER

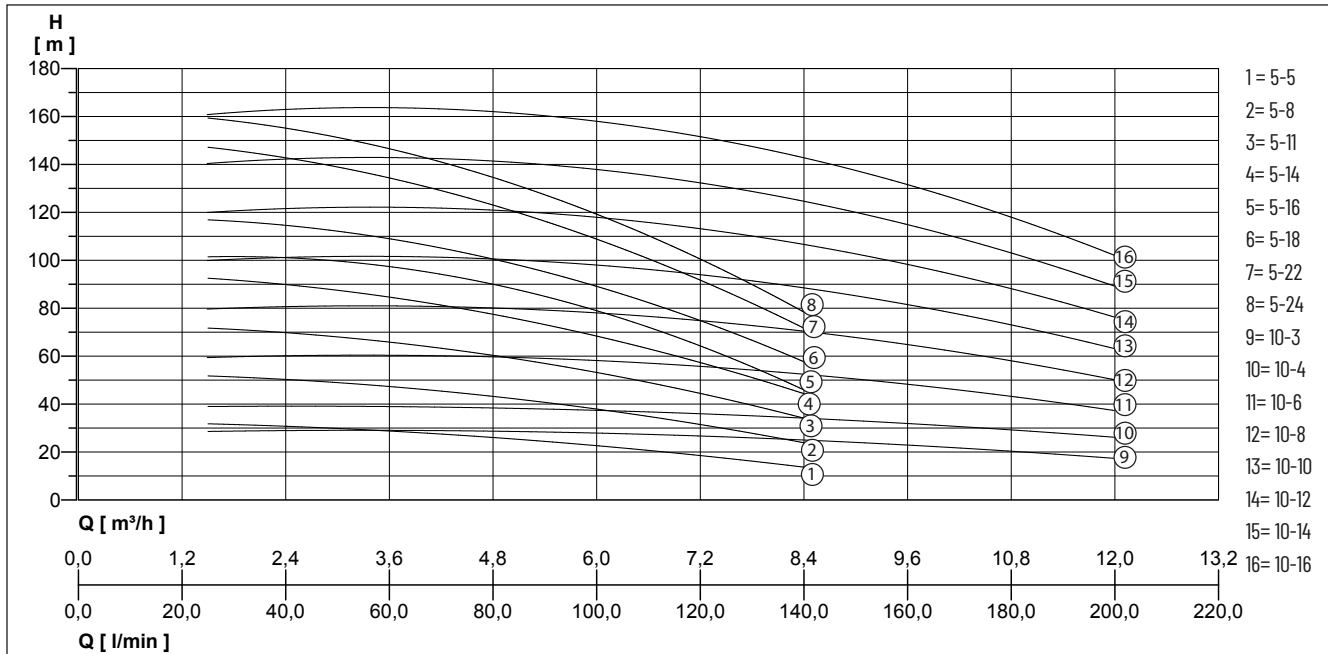
## DIMENSIONS [mm]

| Type               | A    | B   | C   | D   | F   | G   | DN | E   |
|--------------------|------|-----|-----|-----|-----|-----|----|-----|
| CPS3-10 PVM 1-5 F  | 510  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS3-10 PVM 1-8 F  | 564  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS3-10 PVM 1-11 F | 618  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS3-10 PVM 1-15 F | 736  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS3-10 PVM 1-19 F | 808  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS3-10 PVM 1-23 F | 880  | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS3-10 PVM 1-27 F | 1024 | 250 | 75  | 135 | 100 | 180 | 32 | 232 |
| CPS3-10 PVM 3-5 F  | 510  | 510 | 510 | 510 | 510 | 510 | 32 | 510 |
| CPS3-10 PVM 3-8 F  | 610  | 610 | 610 | 610 | 610 | 610 | 32 | 610 |
| CPS3-10 PVM 3-11 F | 664  | 664 | 664 | 664 | 664 | 664 | 32 | 664 |
| CPS3-10 PVM 3-15 F | 736  | 736 | 736 | 736 | 736 | 736 | 32 | 736 |
| CPS3-10 PVM 3-19 F | 880  | 880 | 880 | 880 | 880 | 880 | 32 | 880 |
| CPS3-10 PVM 3-25 F | 988  | 988 | 988 | 988 | 988 | 988 | 32 | 988 |

# CPS3-10/PVM 5 PVM 10

## THREE PHASE - FREQUENCY CONVERTER

### PERFORMANCE



| Type               | Flow rate $Q$ [ $m^3/h$ ] | 1.5   | 3     | 4.5   | 6     | 7.5   | 8.4  | 9     | 10.5  | 12    |
|--------------------|---------------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| CPS3-10 PVM 5-5 F  | Delivery head $H$ [m]     |       | 29.4  | 26.8  | 22.9  | 17.5  | 13.5 |       |       |       |
| CPS3-10 PVM 5-8 F  |                           |       | 48.5  | 44.3  | 38.2  | 29.9  | 23.6 |       |       |       |
| CPS3-10 PVM 5-11 F |                           |       | 67.5  | 61.8  | 53.5  | 42.3  | 33.8 |       |       |       |
| CPS3-10 PVM 5-14 F |                           |       | 86.6  | 79.4  | 68.9  | 54.6  | 43.9 |       |       |       |
| CPS3-10 PVM 5-16 F |                           |       | 99.3  | 91.0  | 79.1  | 62.9  | 50.7 |       |       |       |
| CPS3-10 PVM 5-18 F |                           |       | 112.0 | 102.7 | 89.3  | 71.1  | 57.4 |       |       |       |
| CPS3-10 PVM 5-22 F |                           |       | 137.4 | 126.1 | 109.7 | 87.6  | 70.9 |       |       |       |
| CPS3-10 PVM 5-24 F |                           |       | 150.1 | 137.8 | 119.9 | 95.9  | 77.7 |       |       |       |
| CPS3-10 PVM 10-3 F |                           | 28.8  | 29.0  | 28.4  | 27.8  | 26.4  |      | 24.4  | 21.1  | 17.1  |
| CPS3-10 PVM 10-4 F |                           | 39.0  | 39.2  | 38.0  | 37.7  | 36.0  |      | 33.2  | 29.0  | 23.6  |
| CPS3-10 PVM 10-6 F |                           | 59.6  | 59.8  | 59.2  | 57.5  | 55.0  |      | 50.8  | 44.7  | 36.5  |
| CPS3-10 PVM 10-8   |                           | 79.8  | 80.3  | 79.9  | 77.4  | 73.6  |      | 68.4  | 59.7  | 49.5  |
| CPS3-10 PVM 10-10  |                           | 100.1 | 101.0 | 100.3 | 97.2  | 92.6  |      | 86.0  | 75.2  | 62.4  |
| CPS3-10 PVM 10-12  |                           | 120.5 | 121.0 | 120.8 | 117.0 | 111.5 |      | 104.0 | 90.7  | 75.4  |
| CPS3-10 PVM 10-14  |                           | 140.8 | 142.0 | 141.2 | 137.0 | 130.4 |      | 121.2 | 106.2 | 88.3  |
| CPS3-10 PVM 10-16  |                           | 161.2 | 163.0 | 161.7 | 157.0 | 149.3 |      | 139.0 | 121.7 | 101.0 |

# CPS3-10/PVM 5 PVM 10

## THREE PHASE - FREQUENCY CONVERTER

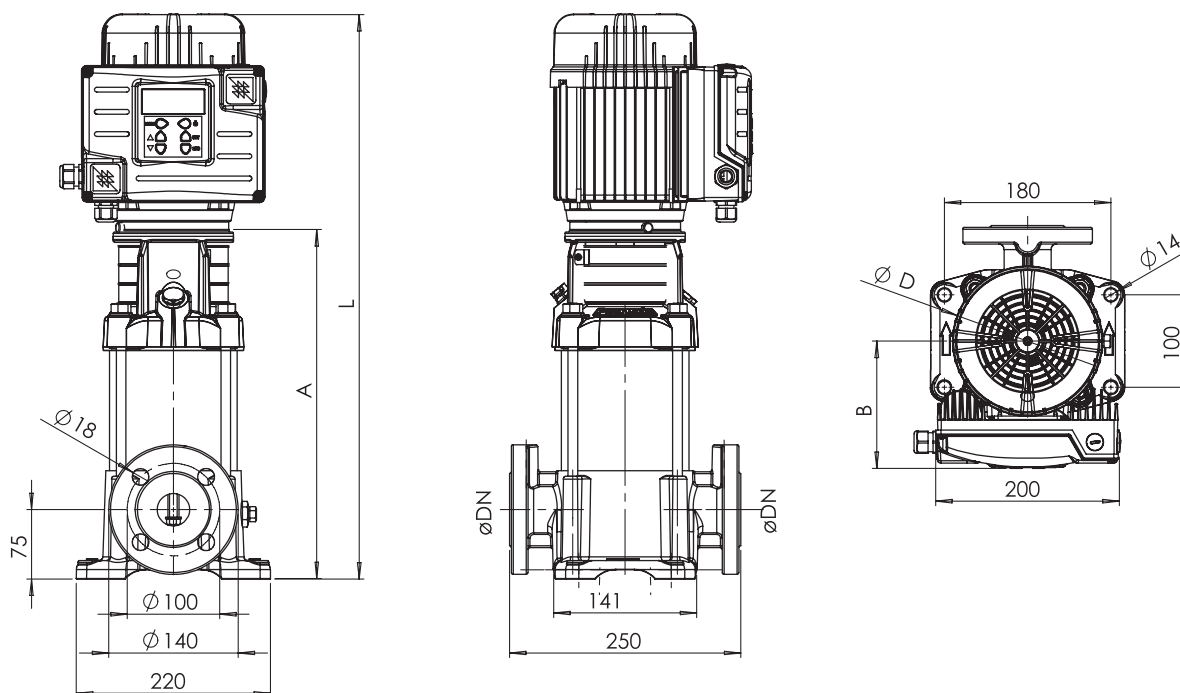
### CPS3-10/PVM 5 PVM 10

| Type               | Code No.        | Motor rating<br>P2 | Current | Impeller                                     | Pump housing            | Temperature of<br>the liquid max. | Weight |
|--------------------|-----------------|--------------------|---------|----------------------------------------------|-------------------------|-----------------------------------|--------|
| CPS3-10 PVM 5-5 F  | <b>N4810130</b> | 0.75 kW            | 1.7 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 32 kg  |
| CPS3-10 PVM 5-8 F  | <b>N4810140</b> | 1.10 kW            | 2.7 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 35 kg  |
| CPS3-10 PVM 5-11 F | <b>N4810150</b> | 2.20 kW            | 3.7 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 48 kg  |
| CPS3-10 PVM 5-14 F | <b>N4810160</b> | 2.20 kW            | 4.8 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 50 kg  |
| CPS3-10 PVM 5-16 F | <b>N4810170</b> | 2.20 kW            | 5.4 A   | Stainless steel<br>X5CrNi18-10 (AISI<br>304) | Cast iron EN<br>GJL 200 | 120 °C                            | 51 kg  |
| CPS3-10 PVM 5-18 F | <b>N4800450</b> | 3.00 kW            | 6.1 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 59 kg  |
| CPS3-10 PVM 5-22 F | <b>N4800460</b> | 4.00 kW            | 7.5 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 65 kg  |
| CPS3-10 PVM 5-24 F | <b>N4800470</b> | 4.00 kW            | 8.2 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 66 kg  |
| CPS3-10 PVM 10-3 F | <b>N4810180</b> | 1.10 kW            | 2.4 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 45 kg  |
| CPS3-10 PVM 10-4 F | <b>N4810190</b> | 1.50 kW            | 3.2 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 55 kg  |
| CPS3-10 PVM 10-6 F | <b>N4810200</b> | 2.20 kW            | 4.8 A   | Stainless steel<br>1.4301; AISI 304          | -                       | 120 °C                            | 60 kg  |
| CPS3-10 PVM 10-8   | <b>N4800400</b> | 3.00 kW            | 6.4 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 70 kg  |
| CPS3-10 PVM 10-10  | <b>N4800410</b> | 4.00 kW            | 8.0 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 75 kg  |
| CPS3-10 PVM 10-12  | <b>N4800420</b> | 4.00 kW            | 9.6 A   | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 77 kg  |
| CPS3-10 PVM 10-14  | <b>N4800430</b> | 5.50 kW            | 11.0 A  | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 109 kg |
| CPS3-10 PVM 10-16  | <b>N4800440</b> | 5.50 kW            | 13.0 A  | Stainless steel<br>1.4301; AISI 304          | Cast iron EN<br>GJL 200 | 120 °C                            | 111 kg |

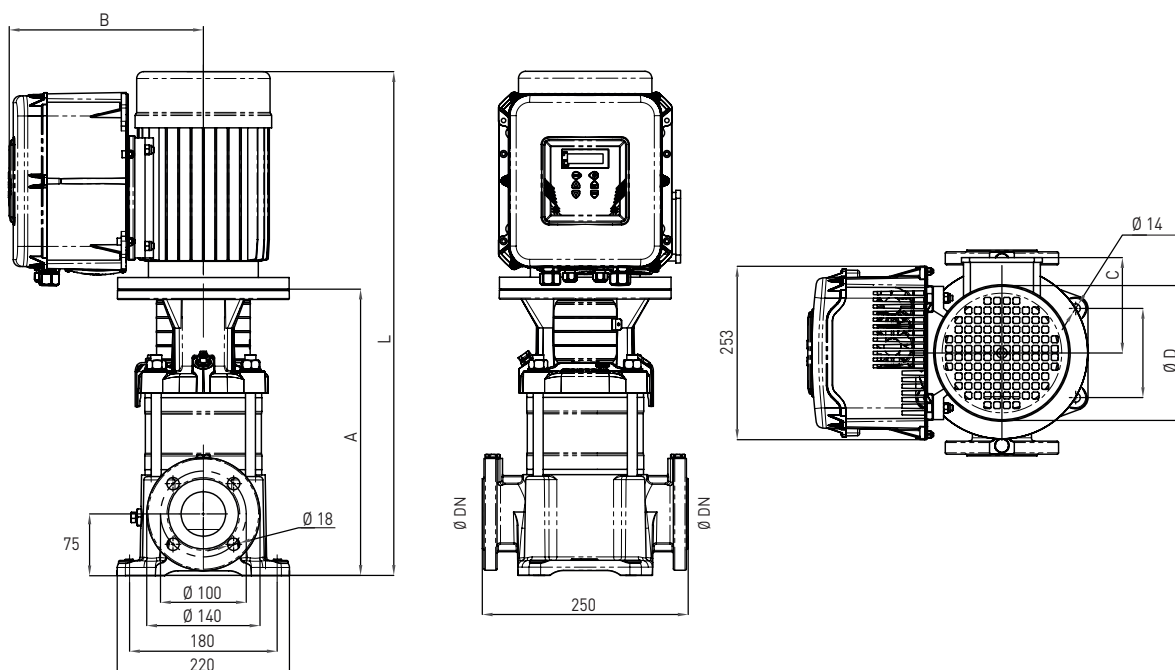
# CPS3-10/PVM 5 PVM 10

## THREE PHASE - FREQUENCY CONVERTER

CPS3-10 PVM 5 Fig. 1



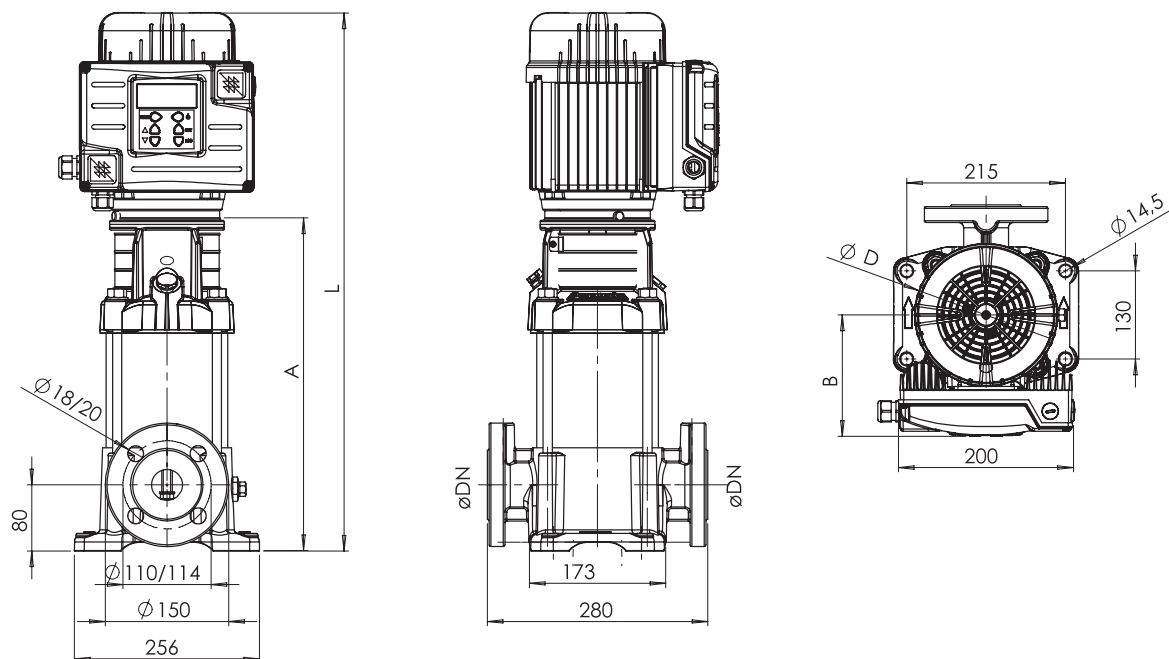
CPS3-10 PVM 5 Fig. 2



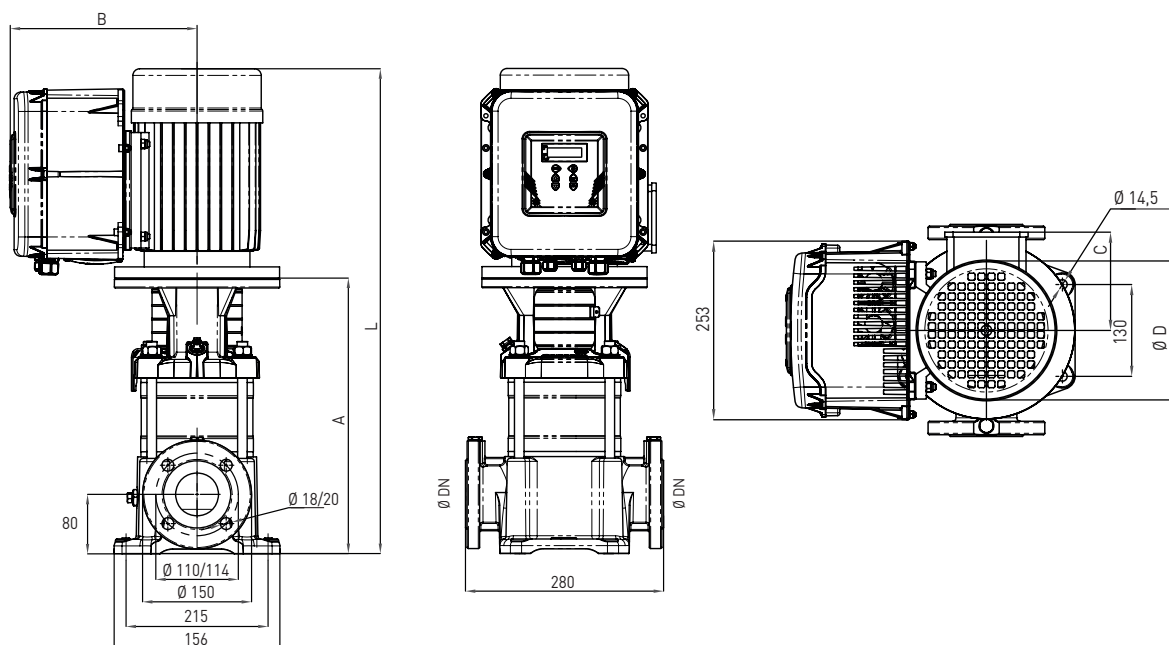
# CPS3-10/PVM 5 PVM 10

## THREE PHASE - FREQUENCY CONVERTER

CPS3-10 PVM 10 Fig. 1



CPS3-10 PVM 10 Fig. 2



# CPS3-10/PVM 5 PVM 10

## THREE PHASE - FREQUENCY CONVERTER

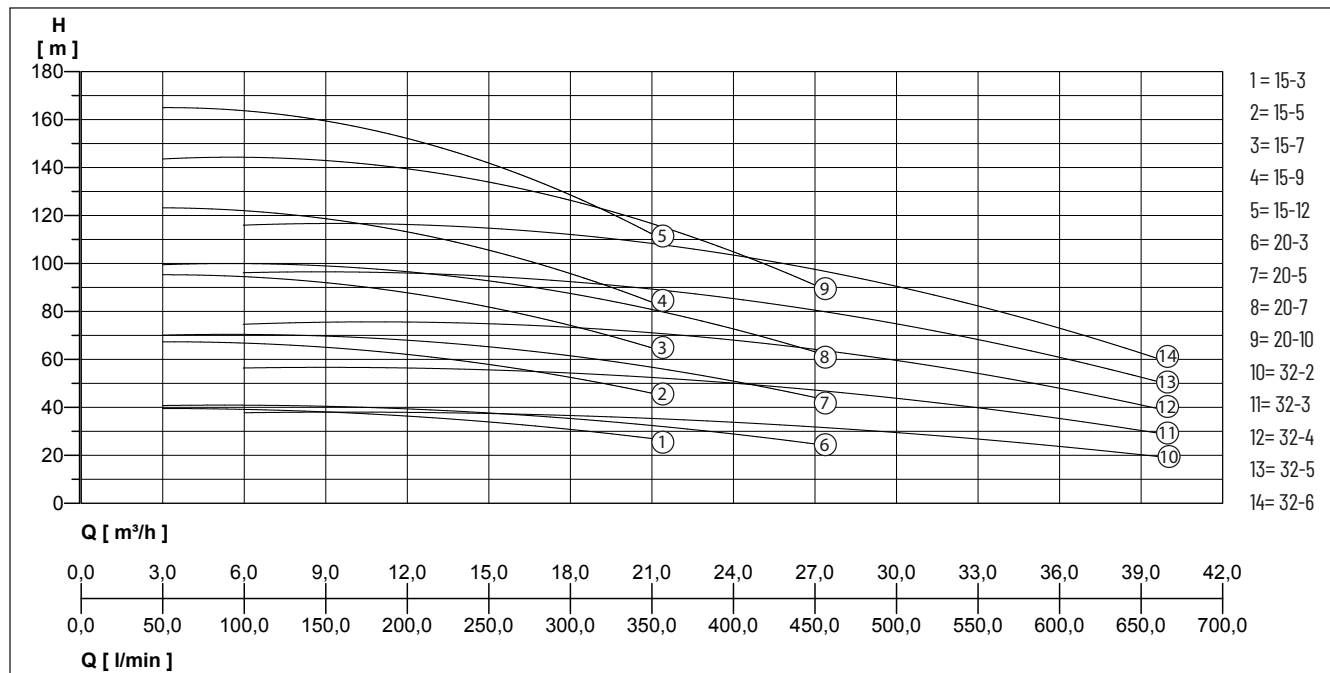
### DIMENSIONS [mm]

| Type               | Fig. | A   | B   | C   | D   | L    | DN |
|--------------------|------|-----|-----|-----|-----|------|----|
| CPS3-10 PVM 5-5 F  | 1    | 366 | 132 |     | 141 | 601  | 32 |
| CPS3-10 PVM 5-8 F  | 1    | 447 | 132 |     | 141 | 682  | 32 |
| CPS3-10 PVM 5-11 F | 1    | 544 | 155 |     | 180 | 811  | 32 |
| CPS3-10 PVM 5-14 F | 1    | 625 | 155 |     | 180 | 892  | 32 |
| CPS3-10 PVM 5-16 F | 1    | 679 | 155 |     | 180 | 946  | 32 |
| CPS3-10 PVM 5-18 F | 2    | 737 | 274 | 145 | 196 | 1058 | 32 |
| CPS3-10 PVM 5-22 F | 2    | 845 | 286 | 161 | 225 | 1173 | 32 |
| CPS3-10 PVM 5-24 F | 2    | 899 | 286 | 161 | 225 | 1227 | 32 |
| CPS3-10 PVM 10-3 F | 1    | 377 | 132 |     | 141 | 612  | 40 |
| CPS3-10 PVM 10-4 F | 1    | 423 | 155 |     | 180 | 690  | 40 |
| CPS3-10 PVM 10-6 F | 1    | 483 | 155 |     | 180 | 750  | 40 |
| CPS3-10 PVM 10-8   | 2    | 548 | 274 | 145 | 196 | 869  | 40 |
| CPS3-10 PVM 10-10  | 2    | 608 | 286 | 161 | 225 | 936  | 40 |
| CPS3-10 PVM 10-12  | 2    | 668 | 286 | 161 | 225 | 996  | 40 |
| CPS3-10 PVM 10-14  | 2    | 760 | 306 | 195 | 248 | 1125 | 40 |
| CPS3-10 PVM 10-16  | 2    | 820 | 306 | 195 | 248 | 1185 | 40 |

# CPS3-10/PVM 15 PVM 32

## THREE PHASE - FREQUENCY CONVERTER

### PERFORMANCE



| Type              | Flow rate Q [m³/h]  | 3     | 6     | 9     | 12    | 15    | 18    | 21    | 24    | 27   | 30   | 36   | 39.6 |
|-------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| CPS3-10 PVM 15-3  | Delivery head H [m] | 39.6  | 39.2  | 37.8  | 36.3  | 34.1  | 31.0  | 26.8  |       |      |      |      |      |
| CPS3-10 PVM 15-5  |                     | 67.4  | 66.9  | 64.7  | 62.0  | 58.1  | 52.7  | 45.7  |       |      |      |      |      |
| CPS3-10 PVM 15-7  |                     | 95.3  | 94.7  | 91.6  | 87.7  | 82.0  | 74.4  | 64.6  |       |      |      |      |      |
| CPS3-10 PVM 15-9  |                     | 123.2 | 122.4 | 118.0 | 113.0 | 106.0 | 96.0  | 83.6  |       |      |      |      |      |
| CPS3-10 PVM 15-12 |                     | 165.0 | 163.9 | 159.0 | 152.0 | 142.0 | 129.0 | 112.0 |       |      |      |      |      |
| CPS3-10 PVM 20-3  |                     | 41.2  | 40.8  | 39.9  | 39.1  | 37.5  | 35.6  | 33.0  | 29.3  | 24.1 |      |      |      |
| CPS3-10 PVM 20-5  |                     | 70.7  | 70.3  | 69.0  | 67.7  | 64.9  | 61.7  | 57.2  | 52.4  | 42.8 |      |      |      |
| CPS3-10 PVM 20-7  |                     | 100.3 | 99.7  | 98.0  | 96.3  | 92.4  | 87.7  | 81.3  | 74.6  | 61.5 |      |      |      |
| CPS3-10 PVM 20-10 |                     | 144.6 | 144.0 | 141.6 | 139.0 | 133.6 | 127.0 | 117.6 | 106.0 | 89.5 |      |      |      |
| CPS3-10 PVM 32-2  |                     |       | 38.0  |       | 37.7  |       | 36.2  |       | 33.8  |      | 29.8 | 24.2 | 19.0 |
| CPS3-10 PVM 32-3  |                     |       | 58.0  |       | 57.4  |       | 55.0  |       | 51.5  |      | 45.5 | 37.2 | 30.0 |
| CPS3-10 PVM 32-4  |                     |       | 76.0  |       | 77.1  |       | 73.9  |       | 69.2  |      | 61.2 | 50.3 | 40.0 |
| CPS3-10 PVM 32-5  |                     |       | 98.0  |       | 96.8  |       | 92.7  |       | 86.8  |      | 76.9 | 63.3 | 51.0 |
| CPS3-10 PVM 32-6  |                     |       | 118.0 |       | 117.0 |       | 112.0 |       | 105.0 |      | 92.6 | 76.3 | 60.0 |

### CPS3-10/PVM 15 PVM 32

| Type              | Code No.        | Motor rating P2 | Current | Impeller                         | Pump housing         | Temperature of the liquid max. | Weight |
|-------------------|-----------------|-----------------|---------|----------------------------------|----------------------|--------------------------------|--------|
| CPS3-10 PVM 15-3  | <b>N4800480</b> | 3.0 kW          | 5.1 A   | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 70 kg  |
| CPS3-10 PVM 15-5  | <b>N4800490</b> | 4.0 kW          | 8.5 A   | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 76 kg  |
| CPS3-10 PVM 15-7  | <b>N4800500</b> | 5.5 kW          | 12.0 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 109 kg |
| CPS3-10 PVM 15-9  | <b>N4800510</b> | 7.5 kW          | 15.0 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 118 kg |
| CPS3-10 PVM 15-12 | <b>N4800520</b> | 11.0 kW         | 20.0 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 158 kg |
| CPS3-10 PVM 20-3  | <b>N4800540</b> | 4.0 kW          | 8.5 A   | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 73 kg  |
| CPS3-10 PVM 20-5  | <b>N4800550</b> | 5.5 kW          | 11.9 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 106 kg |
| CPS3-10 PVM 20-7  | <b>N4800560</b> | 7.5 kW          | 15.3 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 115 kg |
| CPS3-10 PVM 20-10 | <b>N4800570</b> | 11.0 kW         | 20.4 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 155 kg |
| CPS3-10 PVM 32-2  | <b>N4800580</b> | 4.0 kW          | 7.1 A   | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 93 kg  |
| CPS3-10 PVM 32-3  | <b>N4800590</b> | 5.5 kW          | 10.7 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 115 kg |
| CPS3-10 PVM 32-4  | <b>N4800600</b> | 7.5 kW          | 14.3 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 125 kg |
| CPS3-10 PVM 32-5  | <b>N4800610</b> | 11.0 kW         | 17.8 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 168 kg |
| CPS3-10 PVM 32-6  | <b>N4800620</b> | 11.0 kW         | 21.4 A  | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200 | 120 °C                         | 171 kg |



# CPS3-10/PVM 15 PVM 32

## THREE PHASE - FREQUENCY CONVERTER

Fig. 1

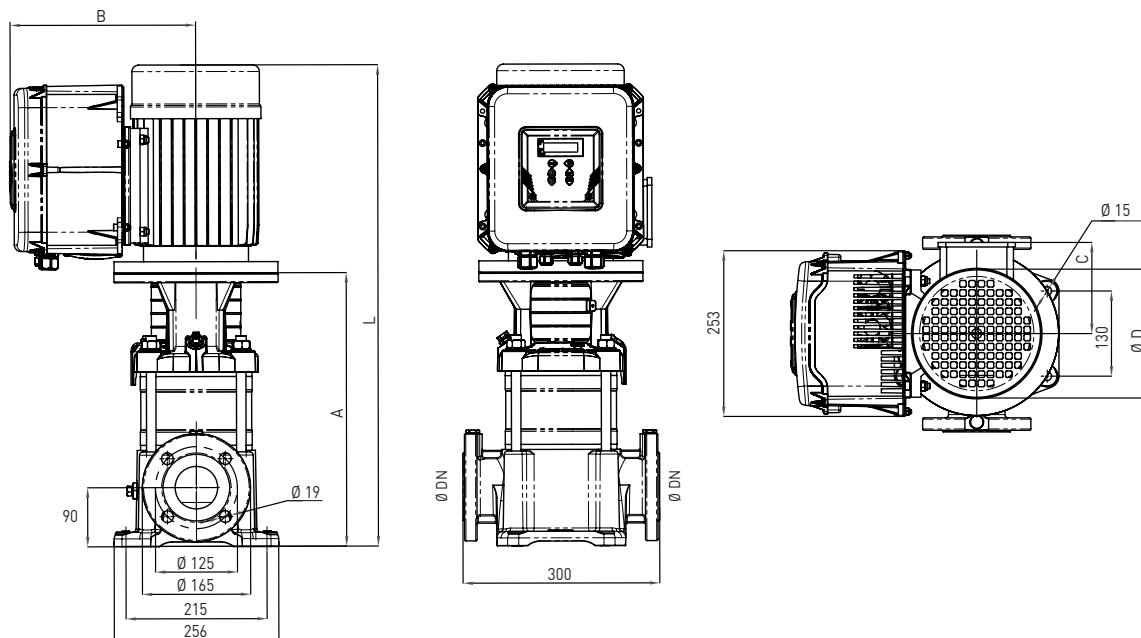
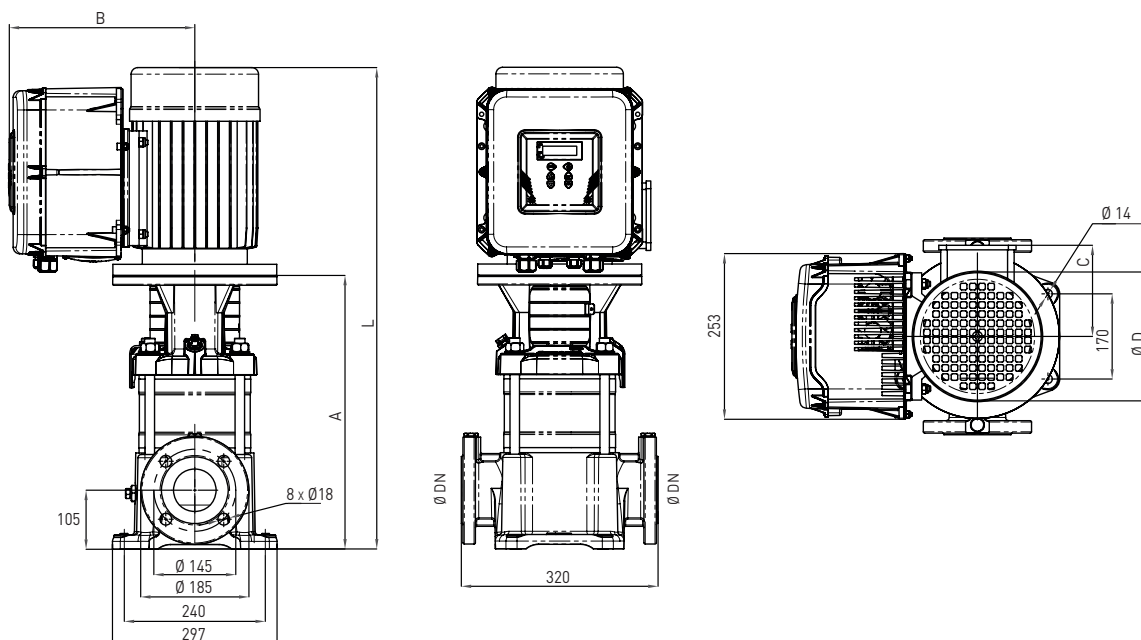


Fig. 2



# CPS3-10/PVM 15 PVM 32

## THREE PHASE - FREQUENCY CONVERTER

### DIMENSIONS [mm]

| Type              | Fig. | A   | B   | C   | D   | L    | DN |
|-------------------|------|-----|-----|-----|-----|------|----|
| CPS3-10 PVM 15-3  | 1    | 465 | 274 | 145 | 196 | 786  | 50 |
| CPS3-10 PVM 15-5  | 1    | 555 | 286 | 161 | 225 | 883  | 50 |
| CPS3-10 PVM 15-7  | 1    | 677 | 306 | 195 | 248 | 1042 | 50 |
| CPS3-10 PVM 15-9  | 1    | 767 | 306 | 195 | 248 | 1152 | 50 |
| CPS3-10 PVM 15-12 | 1    | 979 | 334 | 238 | 317 | 1477 | 50 |
| CPS3-10 PVM 20-3  | 1    | 465 | 286 | 161 | 225 | 793  | 50 |
| CPS3-10 PVM 20-5  | 1    | 587 | 306 | 195 | 248 | 952  | 50 |
| CPS3-10 PVM 20-7  | 1    | 677 | 306 | 195 | 248 | 1062 | 50 |
| CPS3-10 PVM 20-10 | 1    | 889 | 334 | 238 | 317 | 1387 | 50 |
| CPS3-10 PVM 32-2  | 2    | 574 | 286 | 161 | 225 | 902  | 65 |
| CPS3-10 PVM 32-3  | 2    | 644 | 306 | 195 | 248 | 1009 | 65 |
| CPS3-10 PVM 32-4  | 2    | 714 | 306 | 195 | 248 | 1099 | 65 |
| CPS3-10 PVM 32-5  | 2    | 894 | 334 | 238 | 317 | 1392 | 65 |
| CPS3-10 PVM 32-6  | 2    | 964 | 334 | 238 | 317 | 1462 | 65 |

# SECTION 2

## SURFACE PUMPS



### JET

SURFACE PUMPS - SELF PRIMING

PAG. 47



### MULTI EVO-SP

SURFACE PUMPS - HORIZONTAL  
MULTISTAGE

PAG. 73



### JETINOX

SURFACE PUMPS - SELF PRIMING

PAG. 51



### CM

SURFACE PUMPS - HORIZONTAL  
SINGLE STAGE

PAG. 75



### MULTI EVO - A

SURFACE PUMPS - SELF PRIMING

PAG. 55



### CB

SURFACE PUMPS - HORIZONTAL  
TWO - STAGE

PAG. 79



### SWIMMEY

SURFACE PUMPS - SELF PRIMING

PAG. 59



### MULTINOX-VE+

SURFACE PUMPS - VERTICAL  
MULTISTAGE

PAG. 81



### MULTI EVO

SURFACE PUMPS - SELF PRIMING

PAG. 63



### PVM - PVMI - PVMX

SURFACE PUMPS - VERTICAL  
MULTISTAGE

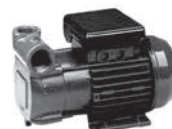
PAG. 85



### DHR

SURFACE PUMPS - HORIZONTAL  
MULTISTAGE

PAG. 67



### PGA-DELTA OIL

SURFACE PUMPS - SPECIAL USE

PAG. 113



### DHI

SURFACE PUMPS - HORIZONTAL  
MULTISTAGE

PAG. 71

## ACCESSORIES

PAG. 249



## JET

### SURFACE PUMPS - SELF-PRIMING

- Sturdy and resistant
- Self-priming
- Excellent priming capacity
- Many possible uses for residential market
- Wide range of performance levels for the residential market
- High-efficiency motors according to EU(2019)/1781



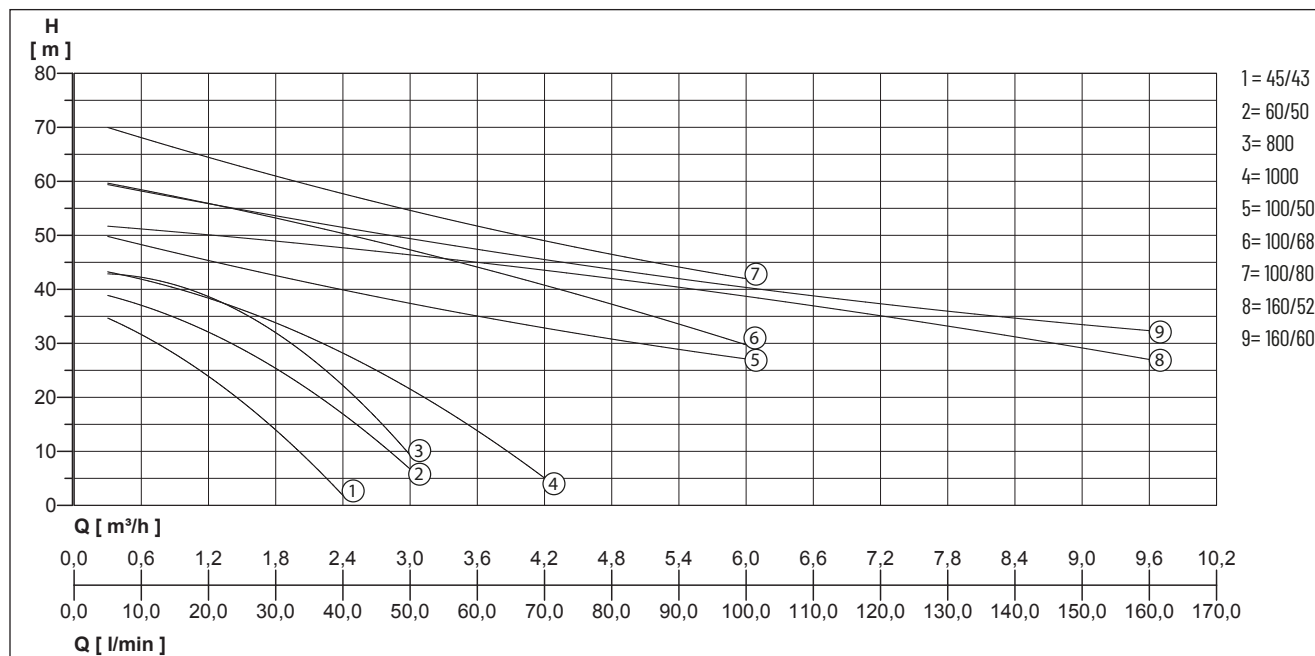
#### DESCRIPTION

The self-priming pumps in the JET range combine the advantages and practical features of centrifugal pumps with the functionality of self-priming pumps. The Venturi pipe system on these pumps guarantees optimal hydraulic performance and impressive suction capacity, maintaining priming even in the presence of air or gas bubbles trapped in the water.

#### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing, garden irrigation, supply to fountains, transfers.
- Lifting from wells or tanks

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

# JET

## SURFACE PUMPS - SELF-PRIMING

| Type           | Flow rate Q [m³/h]  | 0    | 0.3  | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6  | 4.2 | 4.8  | 6    | 7.8  | 9.6  |
|----------------|---------------------|------|------|------|------|------|------|------|------|-----|------|------|------|------|
| NEWJET 45/43 M | Delivery head H [m] | 43.0 |      | 30.0 | 23.0 | 16.0 | 1.0  |      |      |     |      |      |      |      |
| NEWJET 60/50 M |                     | 43.0 |      | 36.0 | 31.0 | 26.0 | 18.0 | 6.0  |      |     |      |      |      |      |
| JET 800 M/T    |                     |      | 44.0 |      | 36.0 | 31.0 | 27.0 | 7.0  |      |     |      |      |      |      |
| JET 1000 M/T   |                     |      | 45.0 |      | 36.0 | 32.0 | 28.0 | 25.0 | 15.0 | 3.0 |      |      |      |      |
| JET 100/50 M/T |                     |      | 50.0 |      | 45.0 |      | 40.0 |      | 35.0 |     | 31.0 | 27.0 |      |      |
| JET 100/68 M/T |                     |      | 60.0 |      | 55.5 |      | 49.0 |      | 47.5 |     | 34.5 | 30.5 |      |      |
| JET 100/80 T   |                     |      | 70.0 |      | 64.3 |      | 58.0 |      | 51.5 |     | 46.5 | 42.0 |      |      |
| JET 160/52 M/T |                     |      | 52.0 |      | 49.5 |      | 48.0 |      | 45.0 |     | 42.0 | 38.7 | 33.2 | 27.0 |
| JET 160/60 T   |                     |      | 59.0 |      | 55.6 |      | 53.0 |      | 47.0 |     | 43.4 | 40.0 | 36.0 | 32.5 |

### MECHANICAL DATA

|                 |                                            |                                |                                                           |
|-----------------|--------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft           | Stainless steel X 12 CrNiS 1809 (AISI 416) | Type of liquid                 | clean water without suspended solids or abrasive material |
| Pump housing    | Cast iron EN GJL 200                       | Temperature of the liquid max. | 50 °C                                                     |
| Diffuser        | Technopolymer                              | Suction height max             | 8 m                                                       |
| Mechanical seal | Graphite                                   | Gasket                         | NBR 70 shore                                              |
| Counterface     | Ceramic                                    |                                |                                                           |

### ELECTRICAL DATA

|                  |   |                          |       |
|------------------|---|--------------------------|-------|
| Insulation class | F | Ambient temperature max. | 40 °C |
|------------------|---|--------------------------|-------|

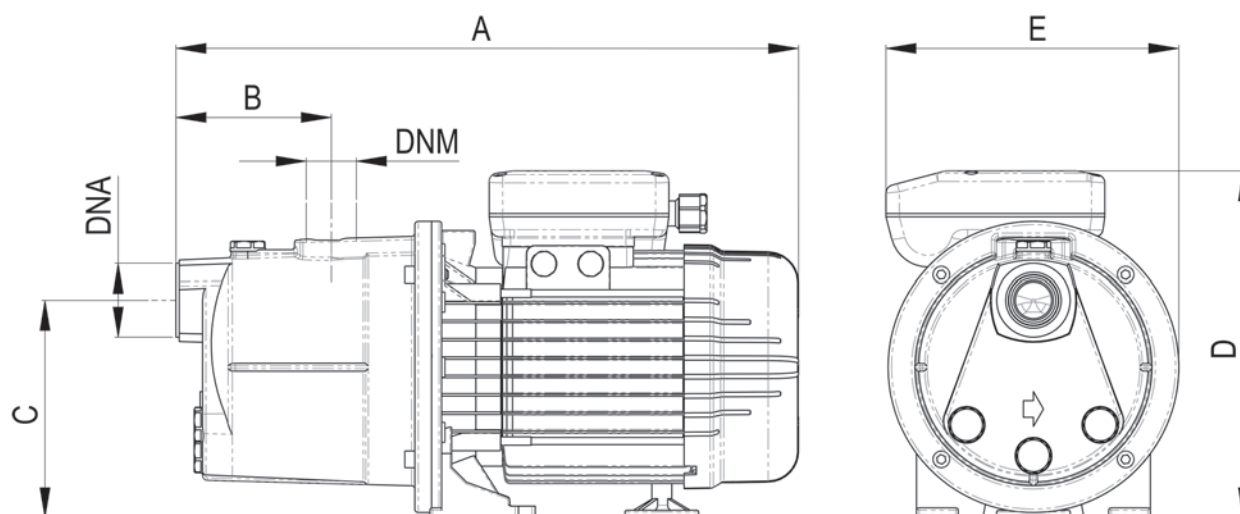
### JET

| Type                                                                                          | Code No.        | Voltage        | Motor rating |         | Current     | Type of enclosure                                                       | Motor housing        | Weight  |
|-----------------------------------------------------------------------------------------------|-----------------|----------------|--------------|---------|-------------|-------------------------------------------------------------------------|----------------------|---------|
|                                                                                               |                 |                | P1           | P2      |             |                                                                         |                      |         |
| <b>Operating pressure max.: 6 bar, Impeller: Technopolymer with stainless steel shim ring</b> |                 |                |              |         |             |                                                                         |                      |         |
| NEWJET 45/43 M                                                                                | <b>N4176050</b> | 1/N/PE~230 V   | 0.60 kW      | 0.37 kW | 3.0 A       | IP55 (if installed on motors with a degree of protection IP55 or above) | Aluminum             | 8.2 kg  |
| NEWJET 60/50 M                                                                                | <b>N4176582</b> | 1/N/PE~230 V   | 0.72 kW      | 0.45 kW | 3.2 A       | IP 44                                                                   | Aluminum             | 9.0 kg  |
| <b>Operating pressure max.: 6 bar, Impeller: Technopolymer/Moulded brass alloy</b>            |                 |                |              |         |             |                                                                         |                      |         |
| JET 800 M                                                                                     | <b>N4176552</b> | 1/N/PE~230 V   | 1.00 kW      | 0.45 kW | 4.5 A       | IP 44                                                                   | Cast iron EN GJL 200 | 14.2 kg |
| JET 800 T                                                                                     | <b>N4177030</b> | 3/PE~230/400 V | 0.90 kW      | 0.75 kW | 3.3 A/1.8 A | IP 44                                                                   | Cast iron EN GJL 200 | 14.2 kg |
| JET 1000 M                                                                                    | <b>N4173012</b> | 1/N/PE~230 V   | 1.00 kW      | 0.55 kW | 4.5 A       | IP 44                                                                   | Cast iron EN GJL 200 | 16.8 kg |
| JET 1000 T                                                                                    | <b>N4177040</b> | 3/PE~230/400 V | 0.95 kW      | 0.75 kW | 3.4 A/1.9 A | IP 44                                                                   | Cast iron EN GJL 200 | 16.8 kg |
| <b>Operating pressure max.: 10 bar, Impeller: Moulded brass alloy</b>                         |                 |                |              |         |             |                                                                         |                      |         |
| JET 100/50 M                                                                                  | <b>N4175010</b> | 1/N/PE~230 V   | 1.70 kW      | 1.10 kW | 8.1 A       | IP 44                                                                   | Cast iron EN GJL 200 | 25.5 kg |
| JET 100/50 T                                                                                  | <b>N4175020</b> | 3/PE~230/400 V | 1.80 kW      | 1.10 kW | 5.5 A/3.2 A | IP 44                                                                   | Cast iron EN GJL 200 | 25.5 kg |
| JET 100/68 M                                                                                  | <b>N4175030</b> | 1/N/PE~230 V   | 2.10 kW      | 1.50 kW | 9.8 A       | IP 44                                                                   | Cast iron EN GJL 200 | 26.6 kg |
| JET 100/68 T                                                                                  | <b>N4175040</b> | 3/PE~230/400 V | 2.80 kW      | 1.50 kW | 5.5 A/3.2 A | IP 44                                                                   | Cast iron EN GJL 200 | 26.6 kg |
| JET 100/80 T                                                                                  | <b>N4175050</b> | 3/PE~230/400 V | 2.60 kW      | 2.20 kW | 8.1 A/4.7 A | IP 44                                                                   | Cast iron EN GJL 200 | 28.1 kg |
| JET 160/52 M                                                                                  | <b>N4175080</b> | 1/N/PE~230 V   | 2.30 kW      | 1.50 kW | 10.5 A      | IP 44                                                                   | Cast iron EN GJL 200 | 26.6 kg |
| JET 160/52 T                                                                                  | <b>N4175090</b> | 3/PE~230/400 V | 2.10 kW      | 1.50 kW | 6.9 A/4.0 A | IP 44                                                                   | Cast iron EN GJL 200 | 26.6 kg |
| JET 160/60 T                                                                                  | <b>N4175100</b> | 3/PE~230/400 V | 2.60 kW      | 2.20 kW | 8.1 A/4.7 A | IP 44                                                                   | Cast iron EN GJL 200 | 28.1 kg |

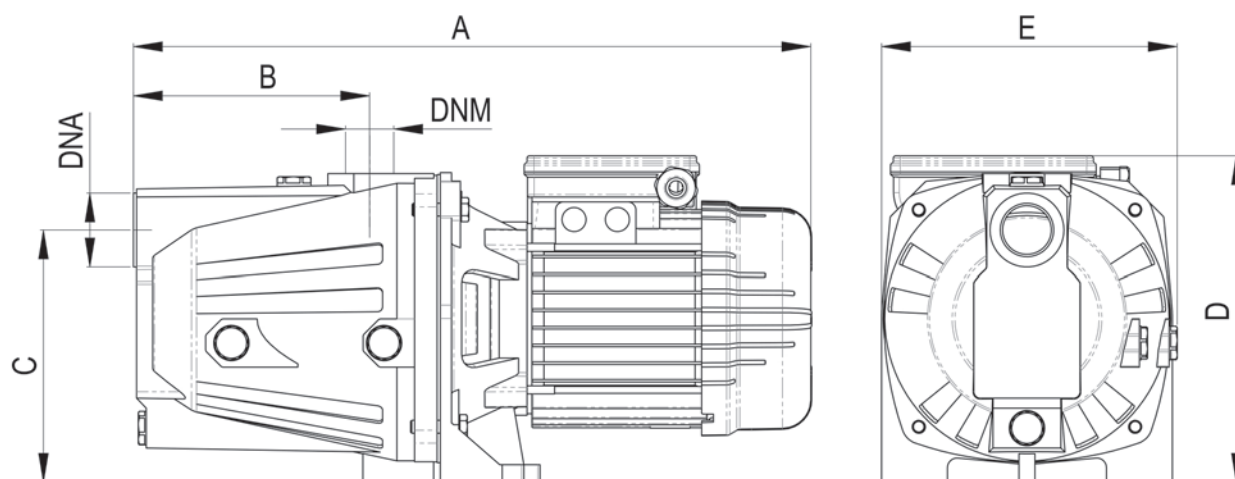
# JET

SURFACE PUMPS - SELF-PRIMING

## Version NEWJET



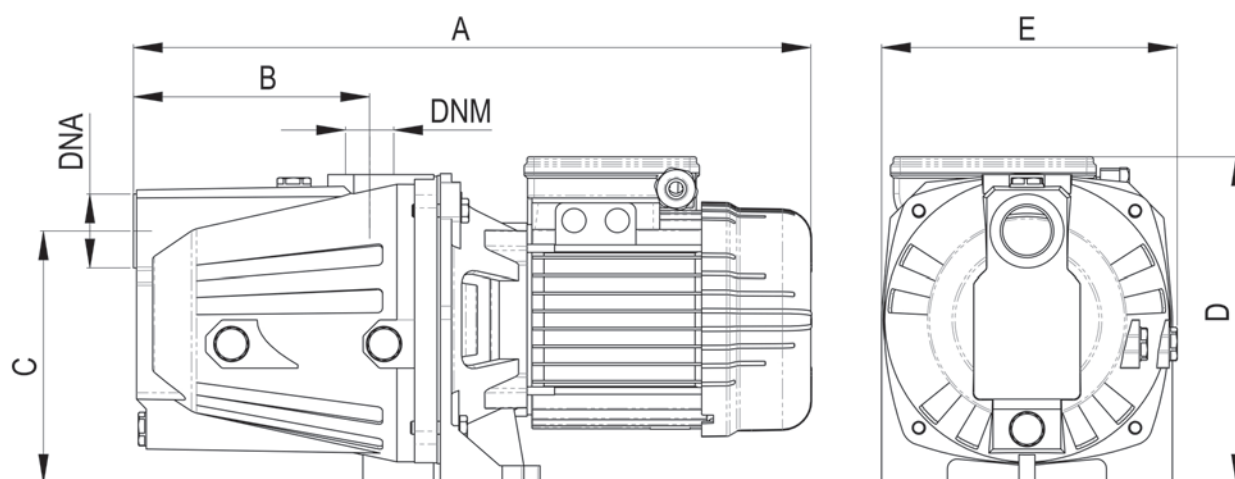
## Version 800-1000



# JET

## SURFACE PUMPS - SELF-PRIMING

Version 100-160



### DIMENSIONS [mm]

| Type           | A   | B   | C   | D   | F   | G   | DNA    | DNM | E   |
|----------------|-----|-----|-----|-----|-----|-----|--------|-----|-----|
| NEWJET 45/43 M | 351 | 93  | 130 | 199 |     |     | 1"     | 1"  | 177 |
| NEWJET 60/50 M | 371 | 93  | 130 | 207 |     |     | 1"     | 1"  | 177 |
| JET 800 M/T    | 421 | 147 | 160 | 207 | 215 | 140 | 1"     | 1"  | 182 |
| JET 1000 M/T   | 421 | 147 | 160 | 207 | 215 | 140 | 1"     | 1"  | 182 |
| JET 100/50 M   | 508 | 157 | 170 | 247 | 223 | 157 | 1 1/2" | 1"  | 220 |
| JET 100/50 T   | 520 | 157 | 170 | 247 | 223 | 157 | 1 1/2" | 1"  | 220 |
| JET 100/68 M   | 508 | 157 | 170 | 247 | 223 | 157 | 1 1/2" | 1"  | 220 |
| JET 100/68 T   | 520 | 157 | 170 | 247 | 223 | 157 | 1 1/2" | 1"  | 220 |
| JET 100/80 T   | 521 | 157 | 170 | 207 | 223 | 157 | 1 1/2" | 1"  | 220 |
| JET 160/52 M   | 508 | 157 | 170 | 247 | 223 | 157 | 1 1/2" | 1"  | 220 |
| JET 160/52 T   | 521 | 157 | 170 | 247 | 223 | 157 | 1 1/2" | 1"  | 220 |
| JET 160/60 T   | 521 | 157 | 170 | 207 | 223 | 157 | 1 1/2" | 1"  | 220 |



# JETINOX

SURFACE PUMPS - SELF-PRIMING

- Self-priming
- Excellent priming capacity
- Stainless steel pump body
- Many possible uses for the residential market
- Quite operation
- Compact dimensions
- High-efficiency motors according to EU(2019)/1781



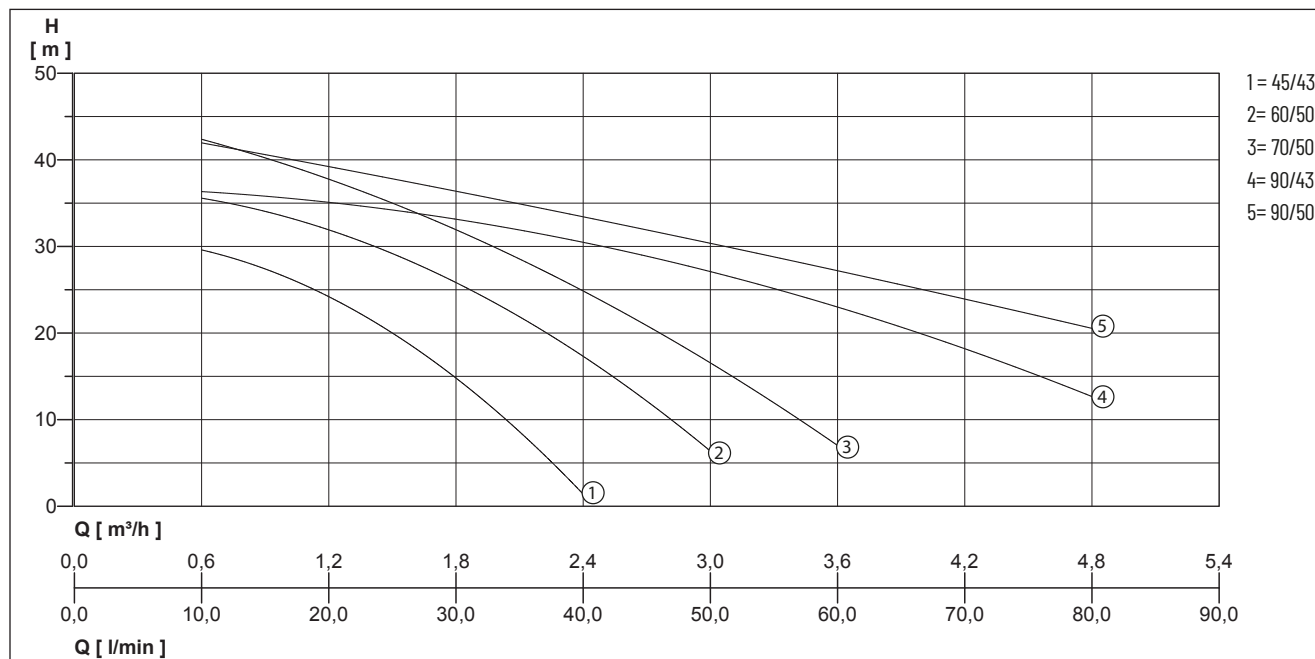
## DESCRIPTION

The self-priming pumps in the JETINOX range combine the advantages and practical features of centrifugal pumps with the functionality of self-priming pumps, as well as quality performance. The Venturi pipe system on these pumps guarantees optimal hydraulic performance and impressive suction capacity, maintaining priming even in the presence of air or gas bubbles trapped in the water.

## APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing, garden irrigation, supply to fountains, transfers.
- Lifting from wells or tanks

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type              | Flow rate Q [m³/h]  | 0    | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6  | 4.2  | 4.8  |
|-------------------|---------------------|------|------|------|------|------|------|------|------|------|
| JETINOX 45/43 M   | Delivery head H [m] | 43.0 | 30.0 | 23.0 | 16.0 | 1.0  |      |      |      |      |
| JETINOX 60/50 C/M |                     | 46.0 | 36.0 | 31.0 | 26.0 | 18.0 | 6.0  |      |      |      |
| JETINOX 70/50 C   |                     | 48.0 | 42.5 | 37.5 | 32.0 | 25.0 | 16.5 | 7.0  |      | 20.0 |
| JETINOX 70/50 M   |                     | 48.0 | 42.5 | 37.5 | 32.0 | 25.0 | 16.5 | 7.0  |      | 10.0 |
| JETINOX 90/43 C/M |                     | 43.0 | 38.0 | 34.0 | 32.0 | 29.0 | 27.0 | 25.0 | 21.0 | 10.0 |
| JETINOX 90/50 C/M |                     | 50.0 | 42.0 | 39.0 | 37.0 | 33.0 | 30.0 | 27.0 | 25.0 | 20.0 |

# JETINOX

## SURFACE PUMPS - SELF-PRIMING

### MECHANICAL DATA

|               |                                              |                                |                                                           |
|---------------|----------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft         | Stainless steel X 12 CrNiS 1809 (AISI 416)   | Mechanical seal                | Graphite                                                  |
| Impeller      | Technopolymer with stainless steel shim ring | Counterface                    | Ceramic                                                   |
| Motor housing | Die-cast aluminium                           | Operating pressure max.        | 6 bar                                                     |
| Pump housing  | Stainless steel X5 CrNi 1810 (AISI 304)      | Type of liquid                 | clean water without suspended solids or abrasive material |
| Diffuser      | Technopolymer                                | Temperature of the liquid max. | 50 °C                                                     |
|               |                                              | Suction height max             | 8 m                                                       |
|               |                                              | Gasket                         | NBR 70 shore                                              |

### ELECTRICAL DATA

|                   |              |                          |       |
|-------------------|--------------|--------------------------|-------|
| Voltage           | 1/N/PE~230 V | Insulation class         | F     |
| Type of enclosure | IP 44        | Ambient temperature max. | 40 °C |

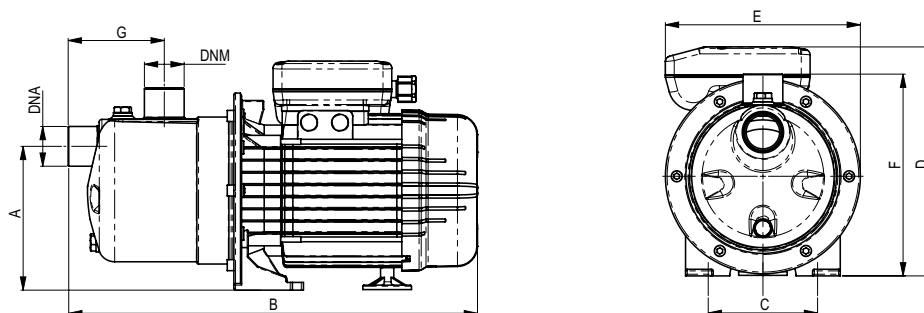
### JETINOX

| Type            | Code No.        | Motor rating |         | Current | Plug    | Weight  |
|-----------------|-----------------|--------------|---------|---------|---------|---------|
|                 |                 | P1           | P2      |         |         |         |
| JETINOX 45/43 M | <b>N4176190</b> | 0.60 kW      | 0.37 kW | 3.00 A  | Without | 4.7 kg  |
| JETINOX 60/50 C | <b>N4176912</b> | 0.72 kW      | 0.45 kW | 3.20 A  | Safety  | 8.2 kg  |
| JETINOX 60/50 M | <b>N4176572</b> | 0.80 kW      | 0.45 kW | 4.00 A  | Without | 8.2 kg  |
| JETINOX 70/50 C | <b>N4176902</b> | 1.00 kW      | 0.55 kW | 4.50 A  | Safety  | 9.5 kg  |
| JETINOX 70/50 M | <b>N4176762</b> | 0.74 kW      | 0.55 kW | 2.65 A  | Without | 9.5 kg  |
| JETINOX 90/43 C | <b>N4176892</b> | 1.30 kW      | 0.75 kW | 6.20 A  | Safety  | 11.0 kg |
| JETINOX 90/43 M | <b>N4176282</b> | 1.30 kW      | 0.75 kW | 6.20 A  | Without | 11.0 kg |
| JETINOX 90/50 C | <b>N4177022</b> | 1.36 kW      | 0.90 kW | 6.00 A  | Safety  | 13.0 kg |
| JETINOX 90/50 M | <b>N4176502</b> | 1.36 kW      | 0.90 kW | 6.00 A  | Without | 13.0 kg |

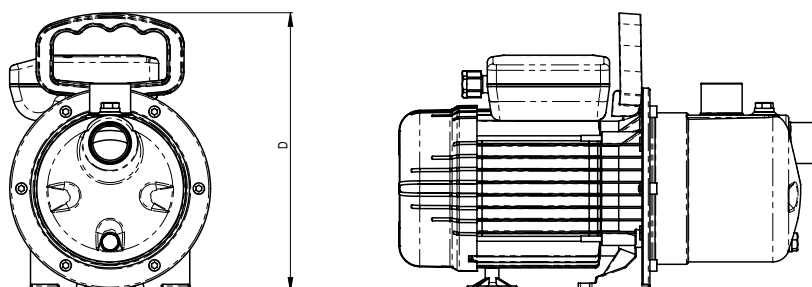
# JETINOX

## SURFACE PUMPS - SELF-PRIMING

### Version M



### Version C (complete with handle, cable, schuko plug and switch)



### DIMENSIONS [mm]

| Type            | A   | B   | C   | D   | F   | G  | DNA    | DNM | E   |
|-----------------|-----|-----|-----|-----|-----|----|--------|-----|-----|
| JETINOX 45/43 M | 130 | 352 | 100 | 199 | 185 | 87 | 1"     | 1"  | 177 |
| JETINOX 60/50 C | 130 | 370 | 100 | 245 | 185 | 87 | 1"     | 1"  | 177 |
| JETINOX 60/50 M | 130 | 370 | 100 | 207 | 185 | 87 | 1"     | 1"  | 177 |
| JETINOX 70/50 C | 143 | 351 | 100 | 245 | 200 | 76 | 1"     | 1"  | 177 |
| JETINOX 70/50 M | 143 | 351 | 100 | 207 | 200 | 76 | 1"     | 1"  | 177 |
| JETINOX 90/43 C | 158 | 395 | 141 | 275 | 214 | 98 | 1 1/4" | 1"  | 205 |
| JETINOX 90/43 M | 158 | 395 | 141 | 207 | 214 | 98 | 1 1/4" | 1"  | 205 |
| JETINOX 90/50 C | 158 | 425 | 141 | 275 | 214 | 98 | 1 1/4" | 1"  | 218 |
| JETINOX 90/50 M | 158 | 425 | 141 | 230 | 214 | 98 | 1 1/4" | 1"  | 218 |

# JETINOX

SURFACE PUMPS - SELF-PRIMING

## MULTI EVO-A

SURFACE PUMPS - SELF-PRIMING

- High reliability - thanks to the durable and innovative design
- Silent operation - improved user comfort thanks to its silent operation
- Compact dimensions
- Many possible uses for the residential market
- Excellent priming capacity
- High-efficiency motors according to EU(2019)/1781



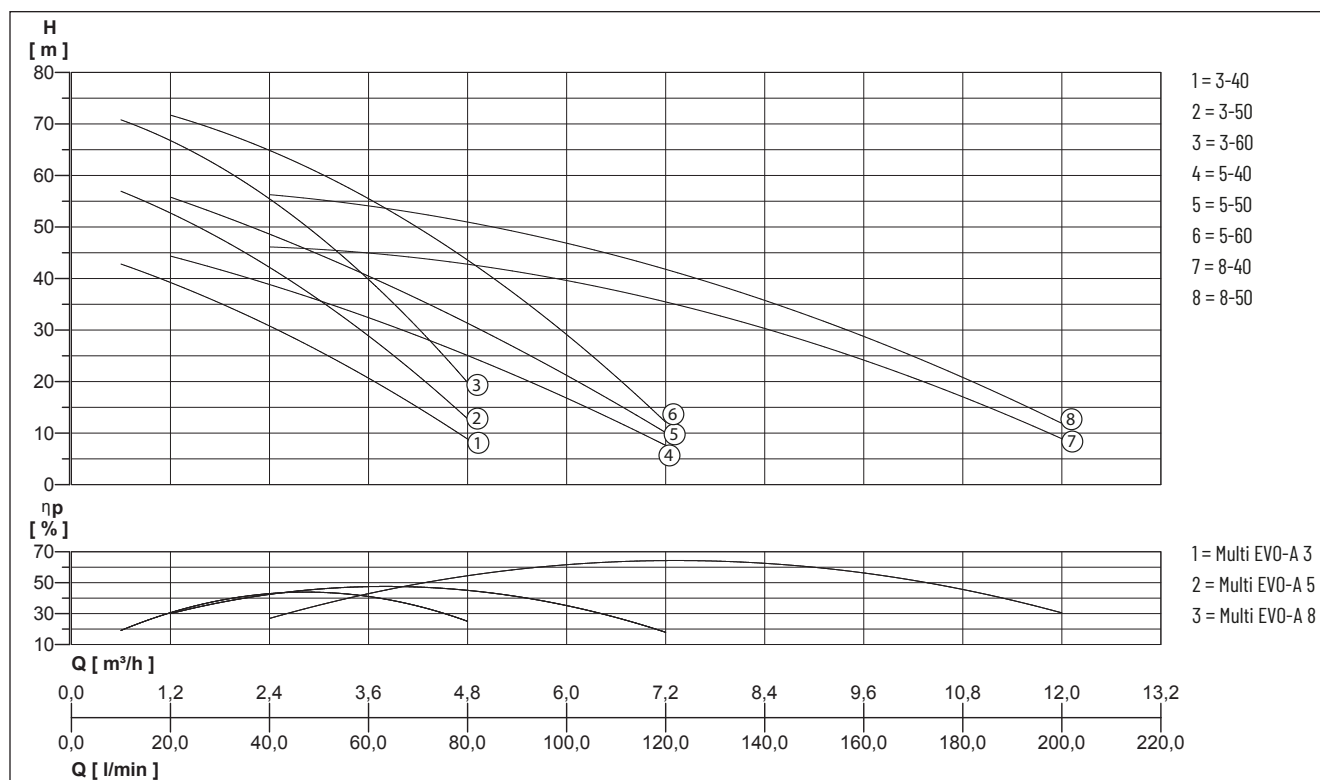
### DESCRIPTION

Multi EVO-A is a self-priming multi-stage centrifugal horizontal pump with an inlet with axial thread and an outlet with radial thread. The innovative, high efficiency hydraulic system is connected to a motor of the latest generation with a mechanical seal.

### APPLICATIONS

- Pressurization and supply
- Irrigation
- Use of rainwater
- Washing systems

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

# MULTI EVO-A

## SURFACE PUMPS - SELF-PRIMING

| Type                     | Flow rate Q [m³/h]  | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6  | 4.8  | 6    | 7.2  | 8.4  | 9.6  | 10.8 | 12   |
|--------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MULTI EVO-A 3-40 M/M-C/T | Delivery head H [m] | 42.5 | 39.5 | 35.5 | 31.0 | 25.5 | 20.5 | 9.0  |      |      |      |      |      |      |
| MULTI EVO-A 3-50 M/T     |                     | 56.5 | 53.0 | 48.5 | 42.0 | 35.5 | 28.6 | 13.0 |      |      |      |      |      |      |
| MULTI EVO-A 3-60 M/T     |                     | 70.5 | 67.0 | 62.0 | 55.5 | 48.0 | 39.5 | 20.0 |      |      |      |      |      |      |
| MULTI EVO-A 5-40 M/T     |                     |      | 44.5 | 41.5 | 39.0 | 35.5 | 32.5 | 25.0 | 17.0 | 7.5  |      |      |      |      |
| MULTI EVO-A 5-50 M/M-C/T |                     |      | 56.0 | 52.0 | 48.5 | 45.0 | 40.5 | 31.0 | 21.5 | 10.0 |      |      |      |      |
| MULTI EVO-A 5-60 M/T     |                     |      | 71.5 | 68.5 | 65.0 | 61.0 | 55.5 | 43.5 | 28.5 | 12.5 |      |      |      |      |
| MULTI EVO-A 8-40 M/T     |                     |      |      |      | 46.0 | 46.0 | 45.0 | 42.0 | 40.0 | 36.0 | 30.0 | 24.0 | 17.0 | 9.0  |
| MULTI EVO-A 8-50 M/T     |                     |      |      |      | 56.5 | 55.0 | 54.0 | 51.0 | 47.0 | 42.0 | 36.0 | 28.0 | 21.0 | 12.0 |

### MECHANICAL DATA

|               |                                                                              |                                |                                                           |
|---------------|------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft         | Stainless steel Europe:<br>EN10088-1 X5CrNi18-10 (1.4301)<br>USA: AISI 304   | Diffuser                       | PPO reinforced with fibreglass                            |
| Impeller      | PPO reinforced with fibreglass                                               | Mechanical seal                | Carbon graphite / NBR / SS                                |
| Motor housing | Die-cast aluminium                                                           | Counterface                    | Ceramic / NBR                                             |
| Pump housing  | Stainless steel Europe:<br>EN10088-1 X 5 CrNi 1810 (1.4301)<br>USA: AISI 304 | Operating pressure max.        | 8 bar                                                     |
|               |                                                                              | Type of liquid                 | clean water without suspended solids or abrasive material |
|               |                                                                              | Temperature of the liquid max. | 50 °C                                                     |
|               |                                                                              | Gasket                         | NBR 70 Shore A                                            |

### ELECTRICAL DATA

|                   |       |                          |       |
|-------------------|-------|--------------------------|-------|
| Type of enclosure | IP 55 | Ambient temperature max. | 40 °C |
| Insulation class  | F     |                          |       |

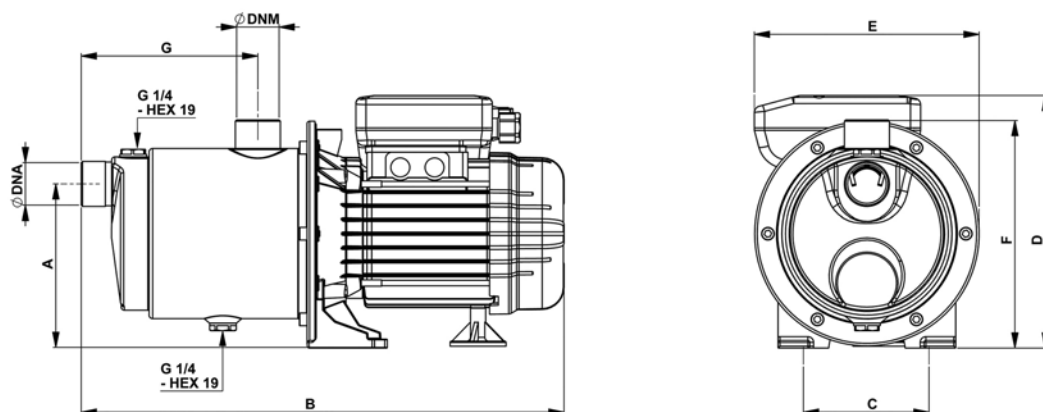
### MULTI EVO-A

| Type                 | Code No.        | Voltage        | Motor rating |         | Current       | Plug    | Weight  |
|----------------------|-----------------|----------------|--------------|---------|---------------|---------|---------|
|                      |                 |                | P1           | P2      |               |         |         |
| MULTI EVO-A 3-40 M   | <b>N4502540</b> | 1/N/PE~230 V   | 0.75 kW      | 0.40 kW | 3.40 A        | Without | 7.3 kg  |
| MULTI EVO-A 3-40 M-C | <b>N4502541</b> | 1/N/PE~230 V   | 0.75 kW      | 0.40 kW | 3.40 A        | Safety  | 7.3 kg  |
| MULTI EVO-A 3-40 T   | <b>N4502640</b> | 3/PE~230/400 V | 0.70 kW      | 0.50 kW | 2.40 A/1.40 A | Without | 7.6 kg  |
| MULTI EVO-A 3-50 M   | <b>N4502550</b> | 1/N/PE~230 V   | 0.95 kW      | 0.55 kW | 4.30 A        | Without | 9.3 kg  |
| MULTI EVO-A 3-50 T   | <b>N4502650</b> | 3/PE~230/400 V | 0.95 kW      | 0.75 kW | 3.30 A/1.90 A | Without | 9.3 kg  |
| MULTI EVO-A 3-60 M   | <b>N4502560</b> | 1/N/PE~230 V   | 1.20 kW      | 0.75 kW | 5.60 A        | Without | 10.8 kg |
| MULTI EVO-A 3-60 T   | <b>N4502260</b> | 3/PE~230/400 V | 1.17 kW      | 0.82 kW | 3.50 A/2.00 A | Without | 10.8 kg |
| MULTI EVO-A 5-40 M   | <b>N4504540</b> | 1/N/PE~230 V   | 1.00 kW      | 0.55 kW | 4.60 A        | Without | 9.0 kg  |
| MULTI EVO-A 5-40 T   | <b>N4504240</b> | 3/PE~230/400 V | 1.10 kW      | 0.75 kW | 3.40 A/2.00 A | Without | 9.0 kg  |
| MULTI EVO-A 5-50 M   | <b>N4504550</b> | 1/N/PE~230 V   | 1.30 kW      | 0.75 kW | 6.00 A        | Without | 10.6 kg |
| MULTI EVO-A 5-50 M-C | <b>N4504551</b> | 1/N/PE~230 V   | 1.30 kW      | 0.75 kW | 6.00 A        | Safety  | 10.6 kg |
| MULTI EVO-A 5-50 T   | <b>N4504250</b> | 3/PE~230/400 V | 1.25 kW      | 0.90 kW | 3.70 A/2.10 A | Without | 11.0 kg |
| MULTI EVO-A 5-60 M   | <b>N4504560</b> | 1/N/PE~230 V   | 1.60 kW      | 1.30 kW | 7.00 A        | Without | 13.5 kg |
| MULTI EVO-A 5-60 T   | <b>N4504260</b> | 3/PE~230/400 V | 1.57 kW      | 1.20 kW | 5.30 A/3.10 A | Without | 13.5 kg |
| MULTI EVO-A 8-40 M   | <b>N4507540</b> | 1/N/PE~230 V   | 1.62 kW      | 1.30 kW | 7.20 A        | Without | 13.5 kg |
| MULTI EVO-A 8-40 T   | <b>N4507240</b> | 3/PE~230/400 V | 1.50 kW      | 1.18 kW | 5.00 A/2.95 A | Without | 13.5 kg |
| MULTI EVO-A 8-50 M   | <b>N4507550</b> | 1/N/PE~230 V   | 2.00 kW      | 1.30 kW | 8.70 A        | Without | 14.5 kg |
| MULTI EVO-A 8-50 T   | <b>N4507250</b> | 3/PE~230/400 V | 1.95 kW      | 1.40 kW | 6.70 A/4.00 A | Without | 14.5 kg |

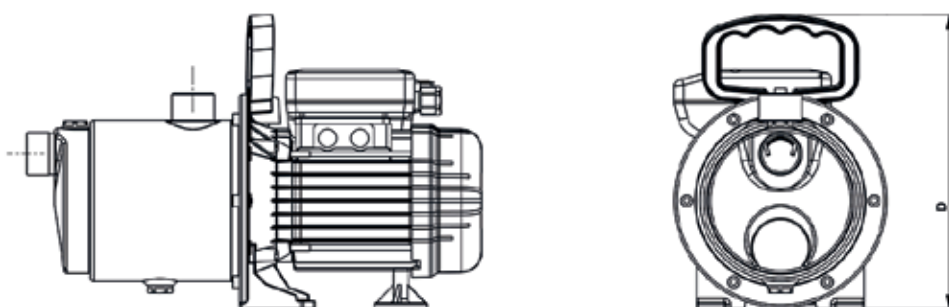
# MULTI EVO-A

## SURFACE PUMPS - SELF-PRIMING

Version 3-5



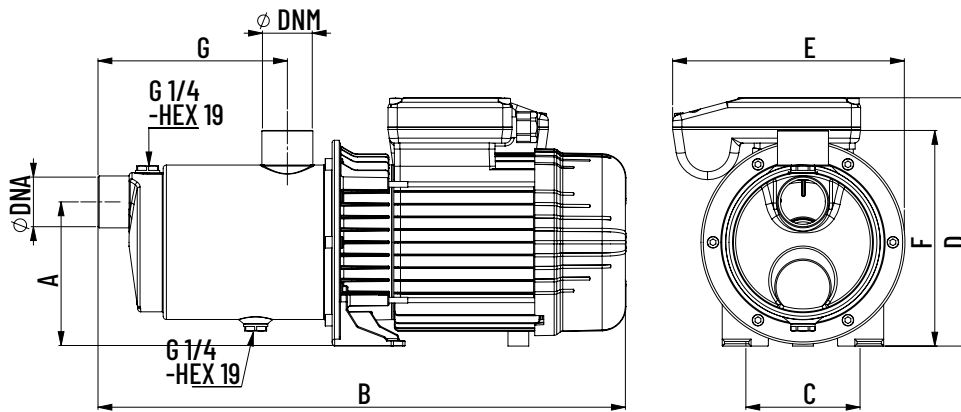
Version \*C



# MULTI EVO-A

## SURFACE PUMPS - SELF-PRIMING

Version 8



### DIMENSIONS [mm]

| Type                 | A   | B   | C   | D   | F   | G   | DNA    | DNM    | E   |
|----------------------|-----|-----|-----|-----|-----|-----|--------|--------|-----|
| MULTI EVO-A 3-40 M/T | 129 | 380 | 100 | 199 | 180 | 139 | 1"     | 1"     | 177 |
| MULTI EVO-A 3-40 M-C | 129 | 380 | 100 | 245 | 180 | 139 | 1"     | 1"     | 177 |
| MULTI EVO-A 3-50 M/T | 129 | 422 | 100 | 207 | 180 | 162 | 1"     | 1"     | 177 |
| MULTI EVO-A 3-60 M/T | 129 | 422 | 100 | 207 | 180 | 162 | 1"     | 1"     | 177 |
| MULTI EVO-A 5-40 M/T | 129 | 400 | 100 | 207 | 180 | 139 | 1"     | 1"     | 177 |
| MULTI EVO-A 5-50 M/T | 129 | 422 | 100 | 207 | 180 | 162 | 1"     | 1"     | 177 |
| MULTI EVO-A 5-50 M-C | 129 | 422 | 100 | 245 | 180 | 162 | 1"     | 1"     | 177 |
| MULTI EVO-A 5-60 M   | 129 | 457 | 100 | 215 | 180 | 162 | 1"     | 1"     | 203 |
| MULTI EVO-A 5-60 T   | 129 | 457 | 100 | 215 | 180 | 162 | 1"     | 1"     | 177 |
| MULTI EVO-A 8-40 M   | 125 | 457 | 100 | 215 | 187 | 164 | 1 1/4" | 1 1/4" | 203 |
| MULTI EVO-A 8-40 T   | 125 | 457 | 100 | 215 | 187 | 164 | 1 1/4" | 1 1/4" | 177 |
| MULTI EVO-A 8-50 M   | 125 | 457 | 100 | 215 | 187 | 164 | 1 1/4" | 1 1/4" | 203 |
| MULTI EVO-A 8-50 T   | 125 | 457 | 100 | 215 | 187 | 164 | 1 1/4" | 1 1/4" | 177 |



## SWIMMEY

SURFACE PUMPS - SELF-PRIMING

- High hydraulic performances
- Excellent priming capacity
- Wide range of performance levels for the residential market
- Sturdy and resistant
- High-efficiency motors according to EU(2019)/1781



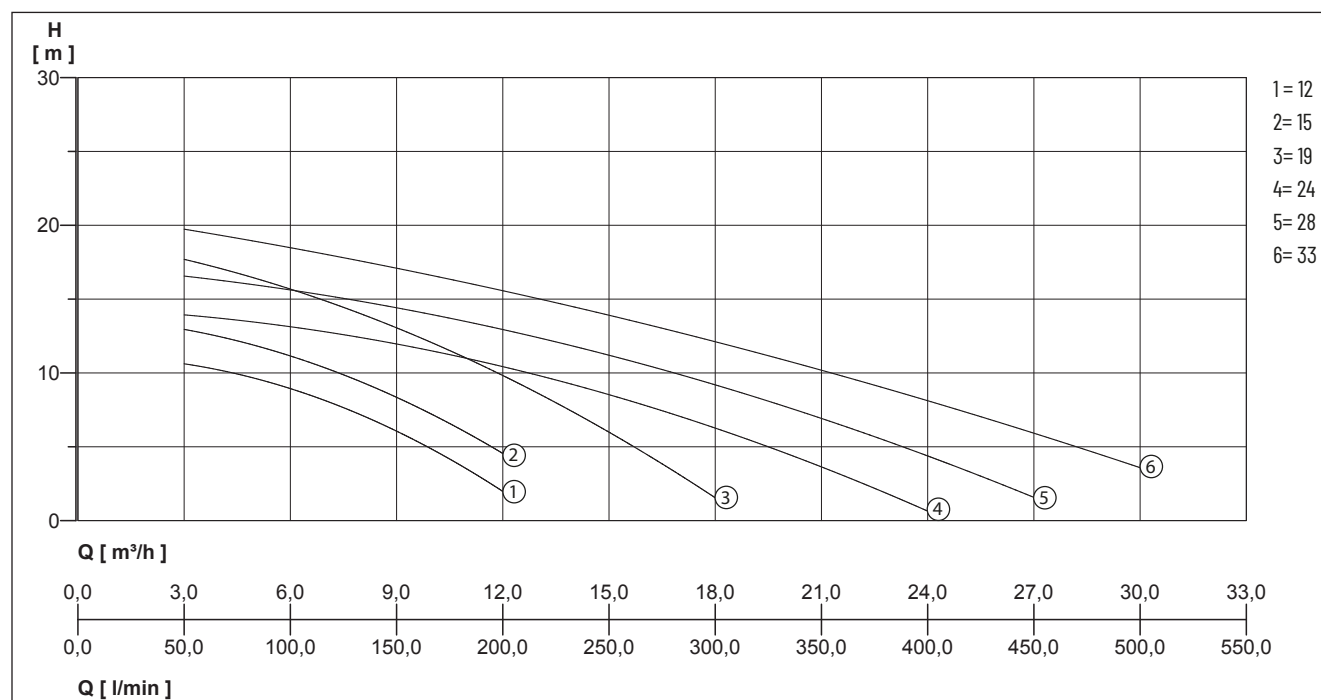
### DESCRIPTION

The SWIMMEY series pumps are designed to achieve maximum reliability regarding filtering in the recirculation of water treated with chlorine.

### APPLICATIONS

- Recirculation and filtration of water for swimming pools and basins.

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type           | Flow rate Q [m³/h]  | 6    | 9    | 12   | 18   | 21   | 24  | 27  | 30  |
|----------------|---------------------|------|------|------|------|------|-----|-----|-----|
| SWIMMEY 15 T/M | Delivery head H [m] | 11.0 | 8.5  | 4.5  |      |      |     |     |     |
| SWIMMEY 24 T/M |                     | 13.0 | 12.0 | 10.5 | 6.0  | 4.0  | 0.5 |     |     |
| SWIMMEY 12 M/T |                     | 9.0  | 6.0  | 2.0  |      |      |     |     |     |
| SWIMMEY 19 M/T |                     | 15.5 | 13.0 | 10.0 | 1.5  |      |     |     |     |
| SWIMMEY 28 M/T |                     | 15.5 | 14.5 | 13.0 | 9.0  | 7.0  | 4.5 | 1.5 |     |
| SWIMMEY 33 M/T |                     | 18.5 | 17.0 | 15.5 | 12.0 | 10.5 | 8.0 | 6.0 | 3.5 |

# SWIMMEY

## SURFACE PUMPS - SELF-PRIMING

### MECHANICAL DATA

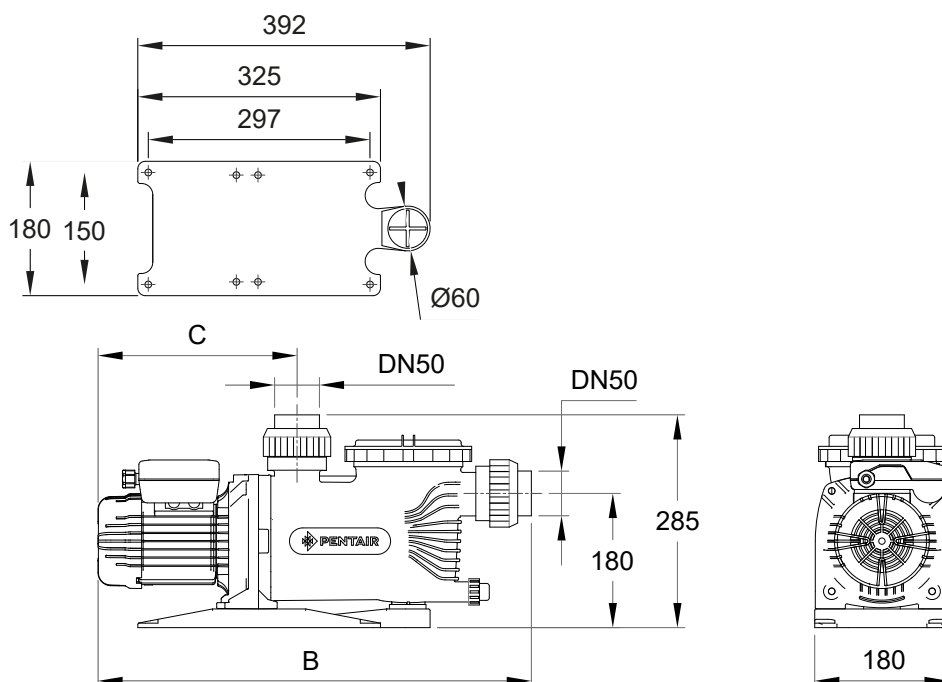
|              |                                                                  |                                |                                           |
|--------------|------------------------------------------------------------------|--------------------------------|-------------------------------------------|
| Bearing      | Self-lubricating ball bearings.                                  | Mechanical seal                | Graphite                                  |
| Shaft        | in stainless steel with insulating element                       | Counterface                    | Ceramic                                   |
| Impeller     | Made of fibreglass reinforced Lexan (resistant to sand abrasion) | Operating pressure max.        | 2.5 bar                                   |
| Pump housing | ABS                                                              | Type of liquid                 | swimming pool water treated with chlorine |
| Diffuser     | Made of fibreglass reinforced Lexan (resistant to sand abrasion) | Temperature of the liquid max. | 40 °C                                     |
|              |                                                                  | Suction height max             | 3 m                                       |

### ELECTRICAL DATA

|                   |       |                          |       |
|-------------------|-------|--------------------------|-------|
| Type of enclosure | IP X5 | Ambient temperature max. | 40 °C |
| Insulation class  | F     |                          |       |

### SWIMMEY

| Type         | Code No.        | Voltage      | Motor rating |         | Current     | Weight  |
|--------------|-----------------|--------------|--------------|---------|-------------|---------|
|              |                 |              | P1           | P2      |             |         |
| SWIMMEY 15 T | <b>N7241610</b> | 3/N/PE~400 V | 0.65 kW      | 0.50 kW | 2.2 A/1.3 A | 8.5 kg  |
| SWIMMEY 24 T | <b>N7241630</b> | 3/N/PE~400 V | 1.10 kW      | 0.90 kW | 3.4 A/1.9 A | 11.0 kg |
| SWIMMEY 12 M | <b>N7241660</b> | 1/N/PE~230 V | 0.47 kW      | 0.37 kW | 2.0 A       | 8.0 kg  |
| SWIMMEY 12 T | <b>N7241600</b> | 3/N/PE~400 V | 0.55 kW      | 0.40 kW | 1.7 A/1.1 A | 8.0 kg  |
| SWIMMEY 15 M | <b>N7241670</b> | 1/N/PE~230 V | 0.56 kW      | 0.37 kW | 2.5 A       | 8.5 kg  |
| SWIMMEY 19 M | <b>N7241680</b> | 1/N/PE~230 V | 1.06 kW      | 0.75 kW | 5.1 A       | 10.2 kg |
| SWIMMEY 19 T | <b>N7241620</b> | 3/N/PE~400 V | 1.10 kW      | 0.90 kW | 3.4 A/1.9 A | 10.2 kg |
| SWIMMEY 24 M | <b>N7241690</b> | 1/N/PE~230 V | 1.06 kW      | 0.75 kW | 5.1 A       | 11.0 kg |
| SWIMMEY 28 M | <b>N7241700</b> | 1/N/PE~230 V | 1.47 kW      | 1.30 kW | 6.5 A       | 13.0 kg |
| SWIMMEY 28 T | <b>N7241640</b> | 3/N/PE~400 V | 1.40 kW      | 1.30 kW | 4.5 A/2.6 A | 13.0 kg |
| SWIMMEY 33 M | <b>N7241710</b> | 1/N/PE~230 V | 1.78 kW      | 1.30 kW | 8.0 A       | 14.5 kg |
| SWIMMEY 33 T | <b>N7241650</b> | 3/N/PE~400 V | 1.75 kW      | 1.50 kW | 5.8 A/3.4 A | 14.5 kg |



# SWIMMEY

## SURFACE PUMPS - SELF-PRIMING

### DIMENSIONS [mm]

| Type           | A   | B   | C   | D   | DN | E   |
|----------------|-----|-----|-----|-----|----|-----|
| SWIMMEY 15 T/M | 285 | 580 | 270 | 180 | 50 | 180 |
| SWIMMEY 24 T/M | 285 | 600 | 290 | 180 | 50 | 180 |
| SWIMMEY 12 M/T | 285 | 580 | 270 | 180 | 50 | 180 |
| SWIMMEY 19 M/T | 285 | 600 | 290 | 180 | 50 | 180 |
| SWIMMEY 28 M/T | 285 | 625 | 315 | 180 | 50 | 180 |
| SWIMMEY 33 M/T | 285 | 625 | 315 | 180 | 50 | 180 |

# SWIMMEY

SURFACE PUMPS - SELF-PRIMING

## MULTI EVO

### HORIZONTAL MULTISTAGE - SURFACE PUMPS

- Low energy consumption thanks to the highly efficient hydraulic system
- High efficiency
- High reliability - thanks to the durable and innovative design
- Silent operation - improved user comfort thanks to its silent operation
- Compact dimensions
- Wide range
- High-efficiency motors according to EU(2019)/1781



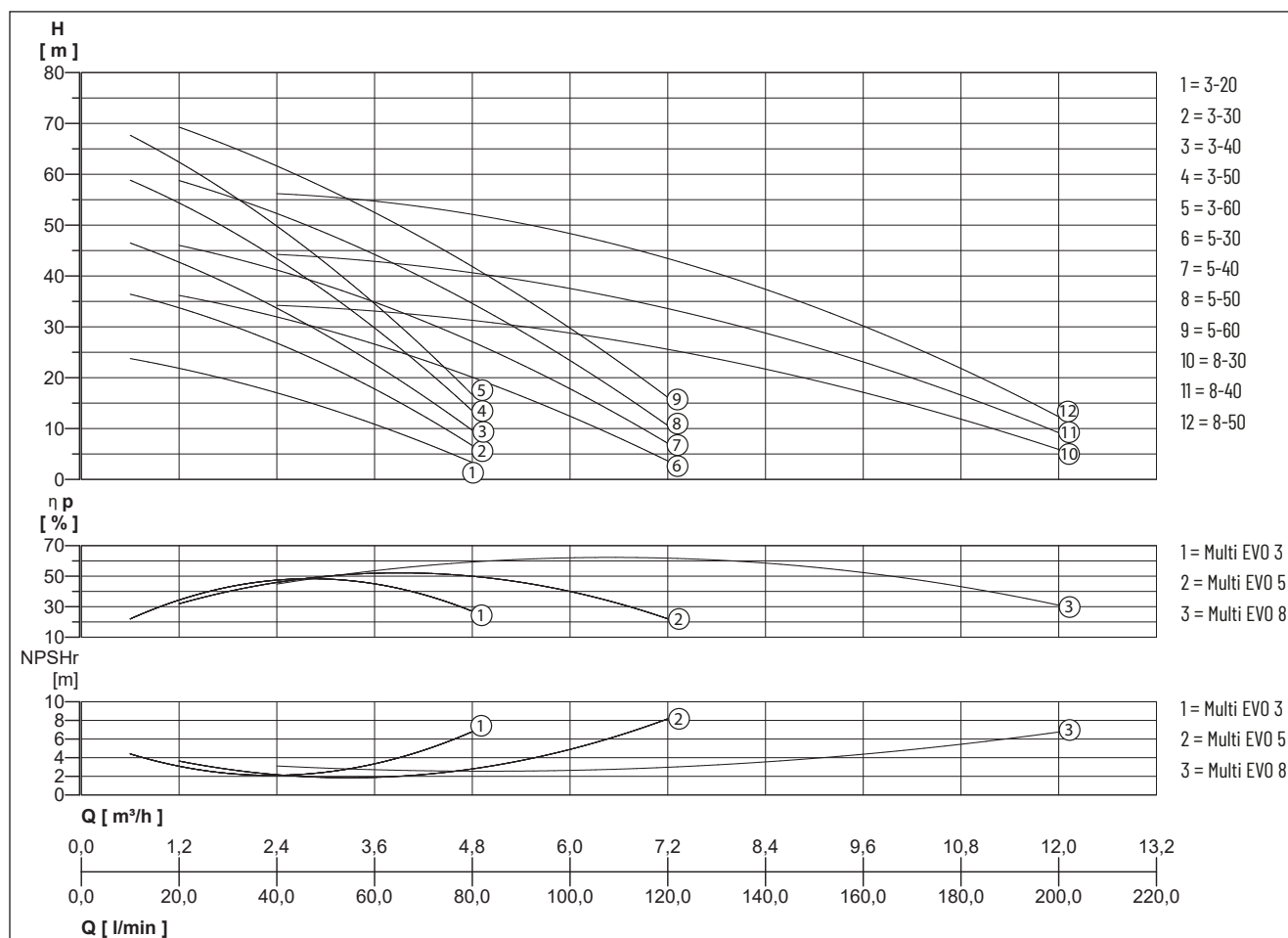
#### DESCRIPTION

Multi EVO is a multi-stage centrifugal horizontal pump with an inlet with axial thread and an outlet with radial thread. The innovative, high efficiency hydraulic system is connected to a motor of the latest generation with a mechanical seal.

#### APPLICATIONS

- Pressurization and supply
- Irrigation
- Use of rainwater
- Washing systems

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

# MULTI EVO

## HORIZONTAL MULTISTAGE - SURFACE PUMPS

| Type               | Flow rate Q [m³/h]  | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6  | 4.8  | 6    | 7.2  | 8.4  | 9.6  | 10.8 | 12   |
|--------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MULTI EVO 3-20M    | Delivery head H [m] | 23.5 | 22.0 | 20.0 | 17.0 | 14.0 | 10.5 | 3.5  |      |      |      |      |      |      |
| MULTI EVO 3-30 M/T |                     | 36.0 | 34.0 | 31.0 | 27.0 | 22.5 | 17.0 | 7.0  |      |      |      |      |      |      |
| MULTI EVO 3-40 M/T |                     | 46.0 | 43.0 | 39.0 | 34.0 | 28.0 | 22.0 | 10.0 |      |      |      |      |      |      |
| MULTI EVO 3-50 M/T |                     | 58.0 | 55.0 | 50.0 | 44.0 | 36.0 | 29.0 | 14.0 |      |      |      |      |      |      |
| MULTI EVO 3-60 M/T |                     | 67.0 | 62.0 | 57.0 | 50.0 | 42.0 | 34.0 | 17.0 |      |      |      |      |      |      |
| MULTI EVO 5-30 M/T |                     |      | 36.0 | 34.0 | 32.0 | 30.0 | 27.0 | 19.5 | 12.0 | 4.0  |      |      |      |      |
| MULTI EVO 5-40 M/T |                     |      | 46.0 | 44.0 | 41.0 | 38.0 | 35.0 | 27.0 | 18.0 | 7.0  |      |      |      |      |
| MULTI EVO 5-50 M/T |                     |      | 58.0 | 56.0 | 53.0 | 49.0 | 44.0 | 34.0 | 23.0 | 11.0 |      |      |      |      |
| MULTI EVO 5-60 M/T |                     |      | 69.0 | 66.0 | 62.0 | 57.0 | 52.0 | 42.0 | 30.0 | 16.0 |      |      |      |      |
| MULTI EVO 8-30 M/T |                     |      |      |      | 34.0 |      | 33.5 | 31.0 | 29.0 | 25.5 | 22.0 | 16.5 | 12.0 | 6.0  |
| MULTI EVO 8-40 M/T |                     |      |      |      | 44.5 |      | 42.5 | 40.5 | 37.5 | 34.0 | 29.0 | 23.0 | 16.0 | 9.5  |
| MULTI EVO 8-50 M/T |                     |      |      |      | 56.5 |      | 54.5 | 51.5 | 48.5 | 44.0 | 37.5 | 30.0 | 21.5 | 12.5 |

### MECHANICAL DATA

|                 |                                |                                |                                                           |
|-----------------|--------------------------------|--------------------------------|-----------------------------------------------------------|
| Impeller        | PPO reinforced with fibreglass | Operating pressure max.        | 8 bar                                                     |
| Motor housing   | Die-cast aluminium             | Type of liquid                 | clean water without suspended solids or abrasive material |
| Diffuser        | PPO reinforced with fibreglass | Temperature of the liquid max. | 50 °C                                                     |
| Mechanical seal | Carbon graphite / NBR / SS     | Suction height max             | 6 m                                                       |
| Counterface     | Ceramic / NBR                  | Gasket                         | NBR 70 Shore A                                            |

### ELECTRICAL DATA

|                   |       |                          |       |
|-------------------|-------|--------------------------|-------|
| Type of enclosure | IP 55 | Ambient temperature max. | 40 °C |
| Insulation class  | F     |                          |       |

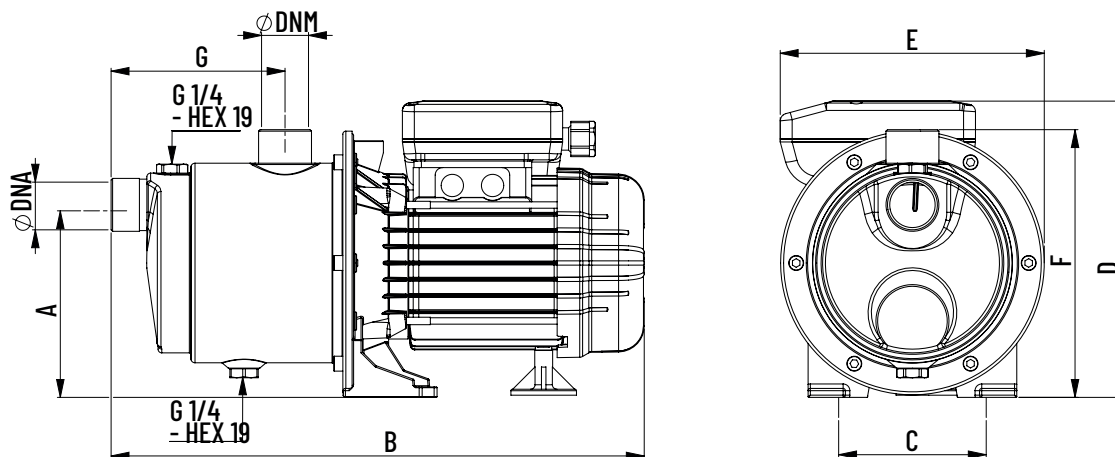
### MULTI EVO

| Type             | Code No. | Voltage        | Motor rating |         | Current       | Weight  |
|------------------|----------|----------------|--------------|---------|---------------|---------|
|                  |          |                | P1           | P2      |               |         |
| MULTI EVO 3-20M  | N4252520 | 1/N/PE~230 V   | 0.44 kW      | 0.27 kW | 2.00 A        | 6.7 kg  |
| MULTI EVO 3-30 M | N4252530 | 1/N/PE~230 V   | 0.65 kW      | 0.37 kW | 2.80 A        | 6.7 kg  |
| MULTI EVO 3-30 T | N4252630 | 3/PE~230/400 V | 0.60 kW      | 0.40 kW | 2.30 A/1.30 A | 6.7 kg  |
| MULTI EVO 3-40 M | N4252540 | 1/N/PE~230 V   | 0.75 kW      | 0.40 kW | 3.40 A        | 7.1 kg  |
| MULTI EVO 3-40 T | N4252640 | 3/PE~230/400 V | 0.70 kW      | 0.50 kW | 2.40 A/1.40 A | 7.1 kg  |
| MULTI EVO 3-50 M | N4252550 | 1/N/PE~230 V   | 0.95 kW      | 0.55 kW | 4.30 A        | 9.1 kg  |
| MULTI EVO 3-50 T | N4252650 | 3/PE~230/400 V | 0.95 kW      | 0.75 kW | 3.30 A/1.90 A | 9.1 kg  |
| MULTI EVO 3-60 M | N4252560 | 1/N/PE~230 V   | 1.20 kW      | 0.75 kW | 5.60 A        | 10.8 kg |
| MULTI EVO 3-60 T | N4252260 | 3/PE~230/400 V | 1.17 kW      | 0.82 kW | 3.50 A/2.00 A | 10.8 kg |
| MULTI EVO 5-30 M | N4254530 | 1/N/PE~230 V   | 0.75 kW      | 0.40 kW | 3.40 A        | 7.1 kg  |
| MULTI EVO 5-30 T | N4254630 | 3/PE~230/400 V | 0.70 kW      | 0.50 kW | 2.40 A/1.40 A | 7.1 kg  |
| MULTI EVO 5-40 M | N4254540 | 1/N/PE~230 V   | 1.00 kW      | 0.55 kW | 4.60 A        | 8.8 kg  |
| MULTI EVO 5-40 T | N4254240 | 3/PE~230/400 V | 1.10 kW      | 0.75 kW | 3.50 A/2.00 A | 8.8 kg  |
| MULTI EVO 5-50 M | N4254550 | 1/N/PE~230 V   | 1.30 kW      | 0.75 kW | 6.00 A        | 10.4 kg |
| MULTI EVO 5-50 T | N4254250 | 3/PE~230/400 V | 1.25 kW      | 0.90 kW | 3.70 A/2.10 A | 10.4 kg |
| MULTI EVO 5-60 M | N4254560 | 1/N/PE~230 V   | 1.60 kW      | 1.30 kW | 7.00 A        | 13.5 kg |
| MULTI EVO 5-60 T | N4254260 | 3/PE~230/400 V | 1.57 kW      | 1.20 kW | 5.30 A/3.10 A | 13.5 kg |
| MULTI EVO 8-30 M | N4257530 | 1/N/PE~230 V   | 1.23 kW      | 0.75 kW | 5.70 A        | 10.5 kg |
| MULTI EVO 8-30 T | N4257230 | 3/PE~230/400 V | 1.20 kW      | 0.90 kW | 3.70 A/2.10 A | 10.5 kg |
| MULTI EVO 8-40 M | N4257540 | 1/N/PE~230 V   | 1.62 kW      | 1.30 kW | 7.20 A        | 13.4 kg |
| MULTI EVO 8-40 T | N4257240 | 3/PE~230/400 V | 1.50 kW      | 1.18 kW | 5.00 A/2.95 A | 13.4 kg |
| MULTI EVO 8-50 M | N4257550 | 1/N/PE~230 V   | 2.00 kW      | 1.30 kW | 8.70 A        | 14.5 kg |
| MULTI EVO 8-50 T | N4257250 | 3/PE~230/400 V | 1.95 kW      | 1.40 kW | 6.70 A/4.00 A | 14.5 kg |

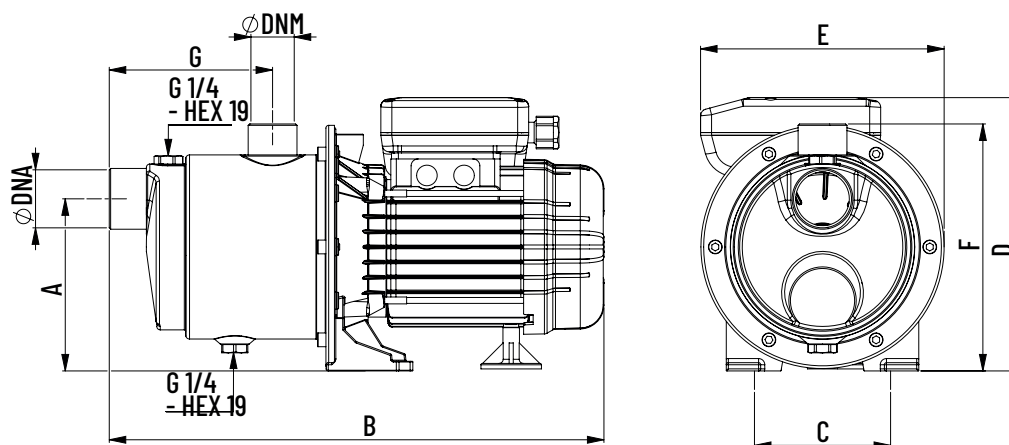
# MULTI EVO

HORIZONTAL MULTISTAGE - SURFACE PUMPS

## Version 3



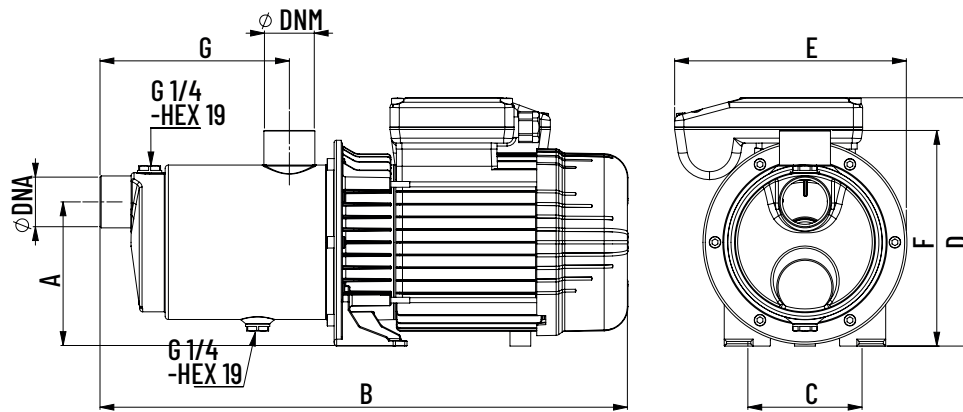
## Version 5



# MULTI EVO

## HORIZONTAL MULTISTAGE - SURFACE PUMPS

Version 8



### DIMENSIONS [mm]

| Type               | A   | B   | C   | D   | F   | G   | DNA    | DNM    | E   |
|--------------------|-----|-----|-----|-----|-----|-----|--------|--------|-----|
| MULTI EVO 3-20M    | 129 | 356 | 100 | 199 | 180 | 116 | 1"     | 1"     | 177 |
| MULTI EVO 3-30 M/T | 129 | 356 | 100 | 199 | 180 | 116 | 1"     | 1"     | 177 |
| MULTI EVO 3-40 M/T | 129 | 356 | 100 | 199 | 180 | 116 | 1"     | 1"     | 177 |
| MULTI EVO 3-50 M/T | 129 | 400 | 100 | 207 | 180 | 139 | 1"     | 1"     | 177 |
| MULTI EVO 3-60 M/T | 129 | 422 | 100 | 207 | 180 | 161 | 1"     | 1"     | 177 |
| MULTI EVO 5-30 M/T | 125 | 360 | 100 | 199 | 180 | 119 | 1 1/4" | 1"     | 177 |
| MULTI EVO 5-40 M/T | 125 | 380 | 100 | 207 | 180 | 119 | 1 1/4" | 1"     | 177 |
| MULTI EVO 5-50 M/T | 125 | 402 | 100 | 207 | 180 | 142 | 1 1/4" | 1"     | 177 |
| MULTI EVO 5-60 M   | 125 | 457 | 100 | 215 | 180 | 164 | 1 1/4" | 1"     | 203 |
| MULTI EVO 5-60 T   | 125 | 457 | 100 | 215 | 180 | 164 | 1 1/4" | 1"     | 177 |
| MULTI EVO 8-30 M/T | 125 | 398 | 100 | 207 | 187 | 137 | 1 1/4" | 1 1/4" | 177 |
| MULTI EVO 8-40 M   | 125 | 430 | 100 | 215 | 187 | 137 | 1 1/4" | 1 1/4" | 203 |
| MULTI EVO 8-40 T   | 125 | 430 | 100 | 215 | 187 | 137 | 1 1/4" | 1 1/4" | 177 |
| MULTI EVO 8-50 M   | 125 | 457 | 100 | 207 | 187 | 164 | 1 1/4" | 1 1/4" | 203 |
| MULTI EVO 8-50 T   | 125 | 457 | 100 | 207 | 187 | 164 | 1 1/4" | 1 1/4" | 177 |



## DHR

### HORIZONTAL MULTISTAGE - SURFACE PUMPS

- Low energy consumption
- Extremely silent operation
- Impellers and diffusers made of stainless steel AISI 304
- Threaded ports set for oval fittings (range DHR 9)
- High-efficiency motors according to EU(2019)/1781



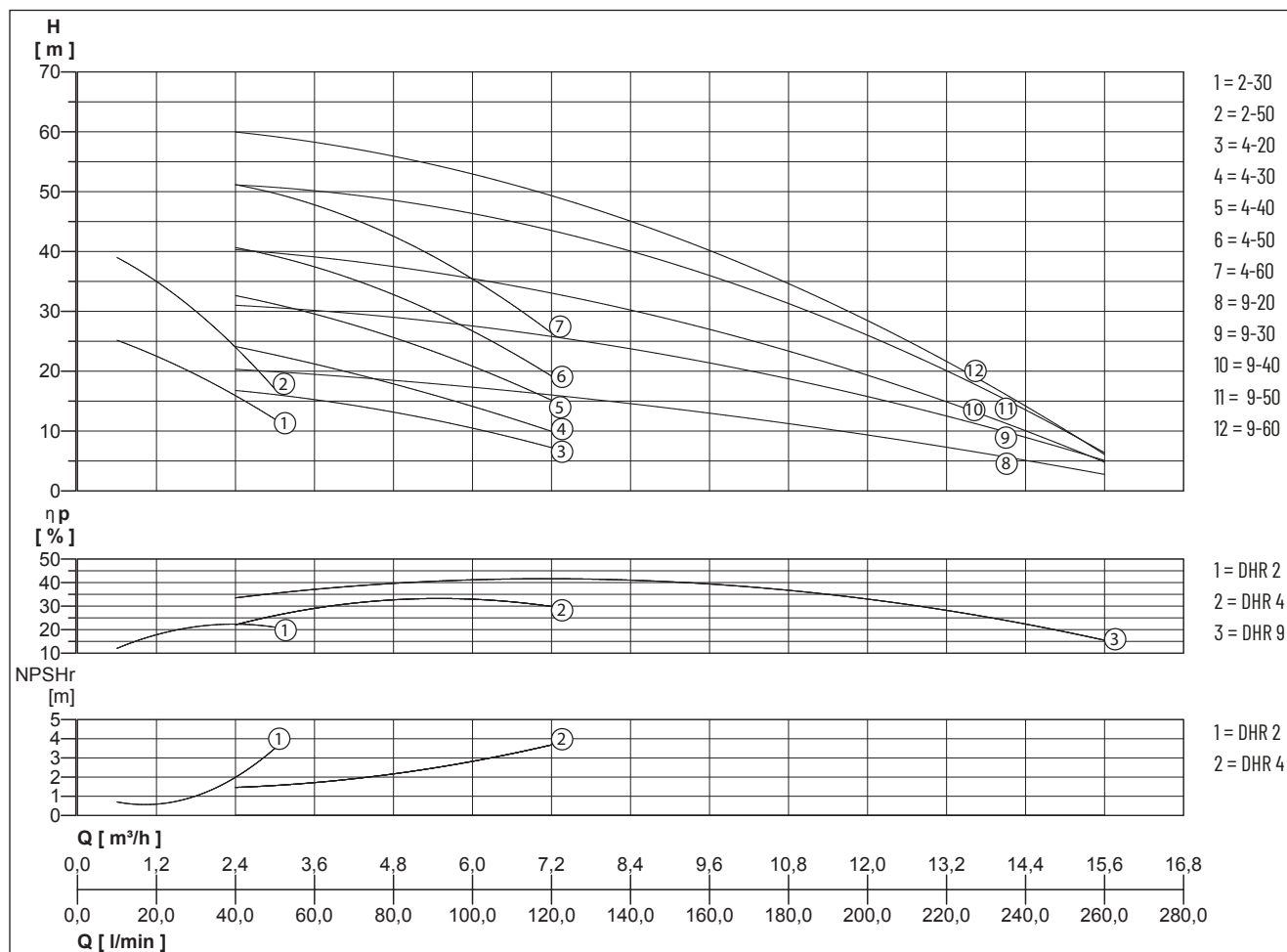
#### DESCRIPTION

The DHR series pumps are horizontal centrifugal pumps, not self-priming. All the rotating parts that come into contact with the pumped liquid are made of stainless steel AISI 304.

#### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing, garden irrigation, supply to fountains, transfers.

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

# DHR

## HORIZONTAL MULTISTAGE - SURFACE PUMPS

| Type         | Flow rate Q [m <sup>3</sup> /h] | 0.6 | 1.2 | 1.8 | 2.4 | 3  | 3.6 | 4.8 | 6  | 7.2 | 9.6 | 12 | 14.4 | 15.6 |
|--------------|---------------------------------|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----|------|------|
| DHR 2-30 M/T | Delivery head H [m]             | 25  | 23  | 19  | 16  | 12 |     |     |    |     |     |    |      |      |
| DHR 2-50 M/T |                                 | 39  | 35  | 30  | 24  | 17 |     |     |    |     |     |    |      |      |
| DHR 4-20 M/T |                                 |     |     |     | 17  | 16 | 15  | 13  | 11 | 7   |     |    |      |      |
| DHR 4-30 M/T |                                 |     |     |     | 24  | 23 | 21  | 18  | 14 | 10  |     |    |      |      |
| DHR 4-40 M/T |                                 |     |     |     | 33  | 31 | 29  | 26  | 21 | 15  |     |    |      |      |
| DHR 4-50 M/T |                                 |     |     |     | 41  | 39 | 37  | 33  | 27 | 19  |     |    |      |      |
| DHR 4-60 M/T |                                 |     |     |     | 52  | 49 | 47  | 43  | 36 | 26  |     |    |      |      |
| DHR 9-20 M/T |                                 |     |     |     | 20  |    |     | 19  |    | 16  | 13  | 9  | 5    | 3    |
| DHR 9-30 M/T |                                 |     |     |     | 31  |    |     | 29  |    | 26  | 21  | 16 | 9    | 5    |
| DHR 9-40 M/T |                                 |     |     |     | 40  |    |     | 38  |    | 33  | 27  | 19 | 10   | 5    |
| DHR 9-50 M/T |                                 |     |     |     | 51  |    |     | 49  |    | 43  | 36  | 26 | 14   | 6    |
| DHR 9-60 T   |                                 |     |     |     | 60  |    |     | 56  |    | 49  | 40  | 29 | 14   | 6    |

### MECHANICAL DATA

|               |                                         |                                |                                                               |
|---------------|-----------------------------------------|--------------------------------|---------------------------------------------------------------|
| Shaft         | Stainless steel X5 CrNi 1810 (AISI 304) | Mechanical seal                | Ceramic / Graphite / NBR                                      |
| Impeller      | Stainless steel X5CrNi18-10 (AISI 304)  | Operating pressure max.        | 10 bar (temp. of liquid 50°C)<br>6 bar (temp. of liquid 90°C) |
| Motor housing | Cast aluminium                          | Type of liquid                 | clean water without suspended solids or abrasive material     |
| Diffuser      | Stainless steel X5CrNi18-10 (AISI 304)  | Temperature of the liquid max. | 90 °C                                                         |
|               |                                         | Gasket                         | NBR                                                           |

### ELECTRICAL DATA

|                   |       |                          |       |
|-------------------|-------|--------------------------|-------|
| Type of enclosure | IP 55 | Ambient temperature max. | 50 °C |
| Insulation class  | F     |                          |       |

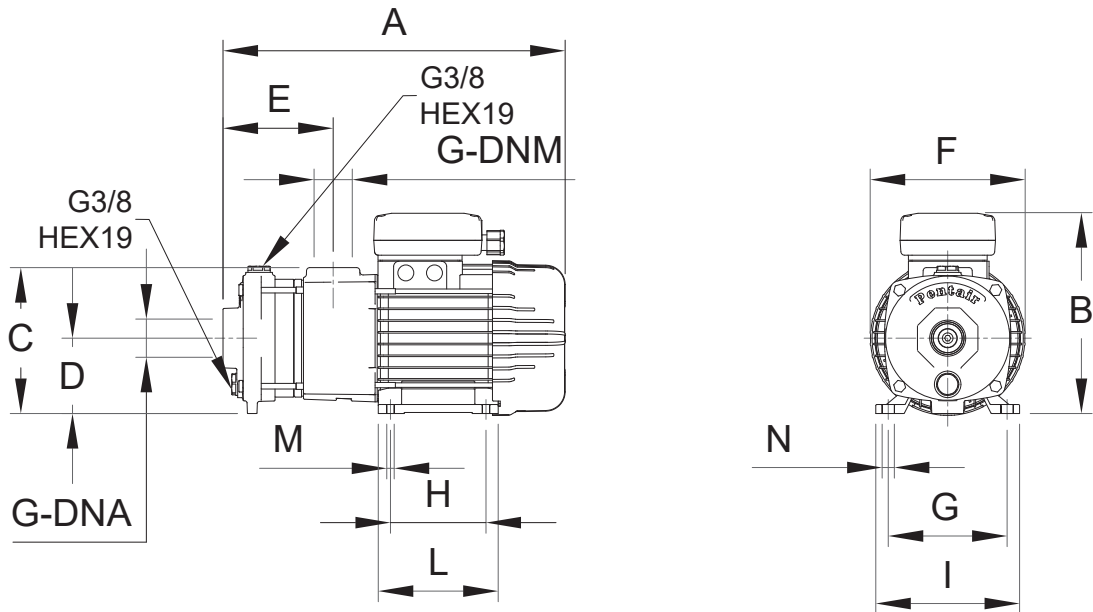
### DHR

| Type       | Code No. | Voltage        | Motor rating |         | Current     | Weight  |
|------------|----------|----------------|--------------|---------|-------------|---------|
|            |          |                | P1           | P2      |             |         |
| DHR 2-30 M | E9302203 | 1/N/PE~230 V   | 0.52 kW      | 0.45 kW | 2.5 A       | 10.2 kg |
| DHR 2-30 T | E9301203 | 3/PE~230/400 V | 0.50 kW      | 0.40 kW | 1.8 A/1.0 A | 10.2 kg |
| DHR 2-50 M | E9302205 | 1/N/PE~230 V   | 0.75 kW      | 0.45 kW | 3.3 A       | 11.5 kg |
| DHR 2-50 T | E9301205 | 3/PE~230/400 V | 0.75 kW      | 0.75 kW | 3.1 A/1.7 A | 11.5 kg |
| DHR 4-20 M | E9402202 | 1/N/PE~230 V   | 0.60 kW      | 0.45 kW | 2.7 A       | 10.5 kg |
| DHR 4-20 T | E9401202 | 3/PE~230/400 V | 0.60 kW      | 0.40 kW | 1.9 A/1.1 A | 10.5 kg |
| DHR 4-30 M | E9402203 | 1/N/PE~230 V   | 0.80 kW      | 0.45 kW | 3.5 A       | 10.7 kg |
| DHR 4-30 T | E9401203 | 3/PE~230/400 V | 0.75 kW      | 0.75 kW | 3.1 A/1.7 A | 10.7 kg |
| DHR 4-40 M | E9402204 | 1/N/PE~230 V   | 1.00 kW      | 0.55 kW | 4.5 A       | 12.0 kg |
| DHR 4-40 T | E9401304 | 3/PE~230/400 V | 0.95 kW      | 0.75 kW | 3.4 A/1.9 A | 12.0 kg |
| DHR 4-50 M | E9402205 | 1/N/PE~230 V   | 1.15 kW      | 0.75 kW | 5.0 A       | 13.9 kg |
| DHR 4-50 T | E9401305 | 3/PE~230/400 V | 1.10 kW      | 0.90 kW | 3.6 A/2.1 A | 13.9 kg |
| DHR 4-60 M | E9402206 | 1/N/PE~230 V   | 1.60 kW      | 1.30 kW | 7.3 A       | 17.0 kg |
| DHR 4-60 T | E9401306 | 3/PE~230/400 V | 1.35 kW      | 1.30 kW | 4.5 A/2.6 A | 17.0 kg |
| DHR 9-20 M | E9502202 | 1/N/PE~230 V   | 1.00 kW      | 0.90 kW | 4.5 A       | 19.2 kg |
| DHR 9-20 T | E9501202 | 3/PE~230/400 V | 0.90 kW      | 0.70 kW | 3.0 A/1.7 A | 17.5 kg |
| DHR 9-30 M | E9502203 | 1/N/PE~230 V   | 1.30 kW      | 0.90 kW | 5.5 A       | 20.0 kg |
| DHR 9-30 T | E9501303 | 3/PE~230/400 V | 1.35 kW      | 1.30 kW | 4.2 A/2.4 A | 19.1 kg |
| DHR 9-40 M | E9502204 | 1/N/PE~230 V   | 1.75 kW      | 1.30 kW | 7.6 A       | 21.5 kg |
| DHR 9-40 T | E9501304 | 3/PE~230/400 V | 1.60 kW      | 1.30 kW | 5.1 A/3.0 A | 20.1 kg |
| DHR 9-50 M | E9502205 | 1/N/PE~230 V   | 2.15 kW      | 1.30 kW | 9.5 A       | 23.7 kg |
| DHR 9-50 T | E9501305 | 3/PE~230/400 V | 1.85 kW      | 1.50 kW | 5.7 A/3.4 A | 22.0 kg |
| DHR 9-60 T | E9501306 | 3/PE~230/400 V | 2.30 kW      | 1.50 kW | 7.4 A/4.2 A | 24.0 kg |

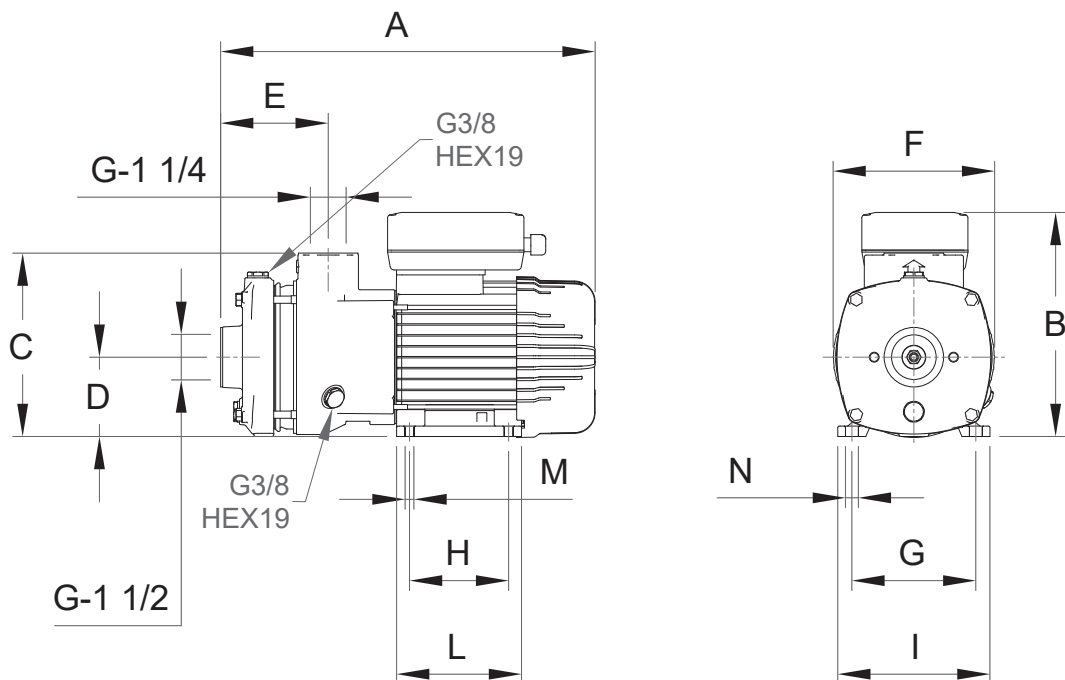
# DHR

## HORIZONTAL MULTISTAGE - SURFACE PUMPS

### DHR 2-4



### DHR 9



# DHR

## HORIZONTAL MULTISTAGE - SURFACE PUMPS

### DIMENSIONS [mm]

| Type       | A   | B   | C     | D  | F   | G   | H   | I   | L   | M   | N  | DNA    | DNM    | E   |
|------------|-----|-----|-------|----|-----|-----|-----|-----|-----|-----|----|--------|--------|-----|
| DHR 2-30 M | 326 | 205 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1"     | 1"     | 105 |
| DHR 2-30 T | 326 | 190 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1"     | 1"     | 105 |
| DHR 2-50 M | 362 | 205 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1"     | 1"     | 141 |
| DHR 2-50 T | 362 | 190 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1"     | 1"     | 141 |
| DHR 4-20 M | 339 | 205 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1 1/4" | 1"     | 119 |
| DHR 4-20 T | 339 | 190 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1 1/4" | 1"     | 119 |
| DHR 4-30 M | 339 | 205 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1 1/4" | 1"     | 119 |
| DHR 4-30 T | 339 | 190 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1 1/4" | 1"     | 119 |
| DHR 4-40 M | 366 | 205 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1 1/4" | 1"     | 146 |
| DHR 4-40 T | 366 | 190 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1 1/4" | 1"     | 146 |
| DHR 4-50 M | 394 | 205 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1 1/4" | 1"     | 173 |
| DHR 4-50 T | 394 | 190 | 137,5 | 71 | 142 | 112 | 90  | 135 | 112 | 7,5 | 12 | 1 1/4" | 1"     | 173 |
| DHR 4-60 M | 445 | 230 | 149   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/4" | 1"     | 200 |
| DHR 4-60 T | 445 | 209 | 149   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/4" | 1"     | 200 |
| DHR 9-20 M | 378 | 227 | 185   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/2" | 1 1/4" | 107 |
| DHR 9-20 T | 378 | 196 | 185   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/2" | 1 1/4" | 107 |
| DHR 9-30 M | 378 | 227 | 185   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/2" | 1 1/4" | 107 |
| DHR 9-30 T | 378 | 196 | 185   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/2" | 1 1/4" | 107 |
| DHR 9-40 M | 408 | 227 | 185   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/2" | 1 1/4" | 137 |
| DHR 9-40 T | 408 | 196 | 185   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/2" | 1 1/4" | 137 |
| DHR 9-50 M | 438 | 227 | 185   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/2" | 1 1/4" | 168 |
| DHR 9-50 T | 438 | 196 | 185   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/2" | 1 1/4" | 168 |
| DHR 9-60 T | 468 | 196 | 185   | 80 | 160 | 125 | 100 | 153 | 125 | 9   | 13 | 1 1/2" | 1 1/4" | 198 |

## DHI

### HORIZONTAL MULTISTAGE - SURFACE PUMPS

- Hydraulic in AISI316 stainless steel
- High efficiency
- Quite operation
- Compact dimensions
- Sturdy and resistant
- High-efficiency motors according to EU(2019)/1781



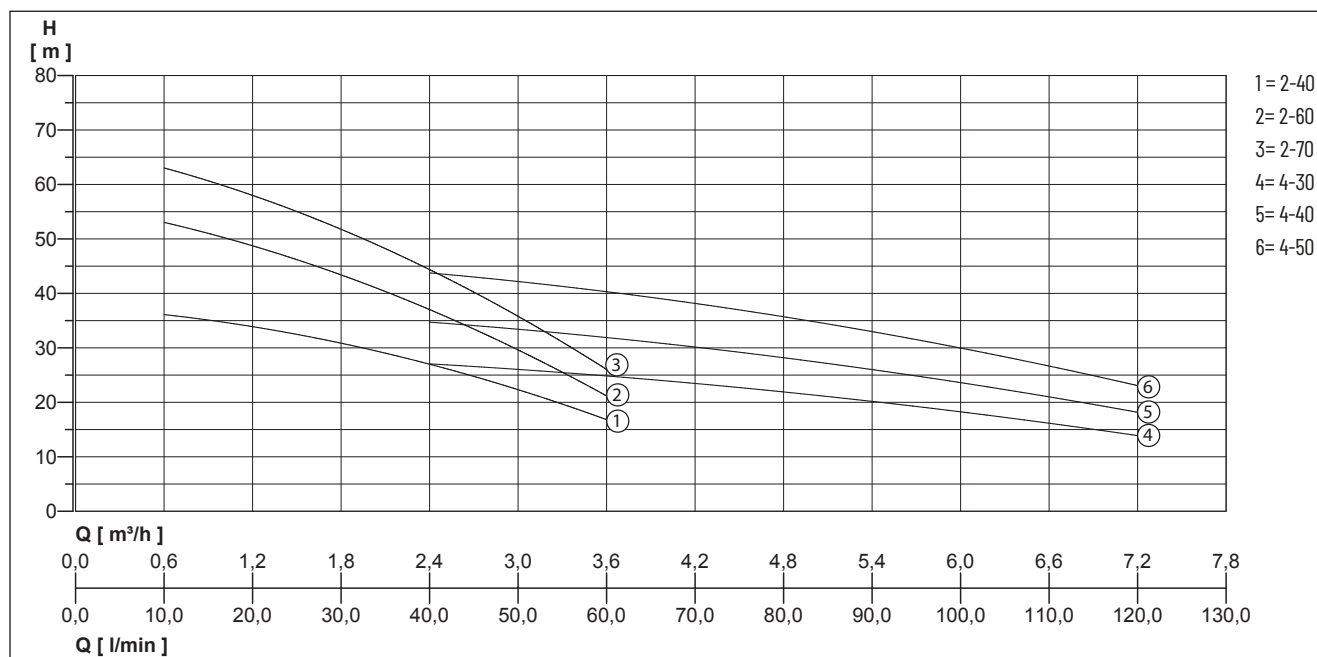
#### DESCRIPTION

The DHI series horizontal multi-stage centrifugal pumps have the following advantages: high hydraulic performance regarding pressure and capacity. Minimum consumption of electricity. Extremely silent operation.

#### APPLICATIONS

- Handling of aggressive liquids
- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing, garden irrigation, supply to fountains, transfers.

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type         | Flow rate Q [m³/h]  | 0.6 | 1.2 | 1.8 | 2.4 | 3  | 3.6 | 4.8 | 6  | 7.2 |
|--------------|---------------------|-----|-----|-----|-----|----|-----|-----|----|-----|
| DHI 2-40 M/T | Delivery head H [m] | 36  | 34  | 31  | 27  | 22 | 17  |     |    |     |
| DHI 2-60 M/T |                     | 53  | 49  | 43  | 37  | 30 | 21  |     |    |     |
| DHI 2-70 M/T |                     | 63  | 58  | 52  | 44  | 36 | 26  |     |    |     |
| DHI 4-30 M/T |                     |     |     |     | 27  | 26 | 25  | 22  | 18 | 14  |
| DHI 4-40 M/T |                     |     |     |     | 35  | 33 | 32  | 28  | 24 | 18  |
| DHI 4-50 M/T |                     |     |     |     | 44  | 42 | 40  | 36  | 30 | 23  |

# DHI

## HORIZONTAL MULTISTAGE - SURFACE PUMPS

### MECHANICAL DATA

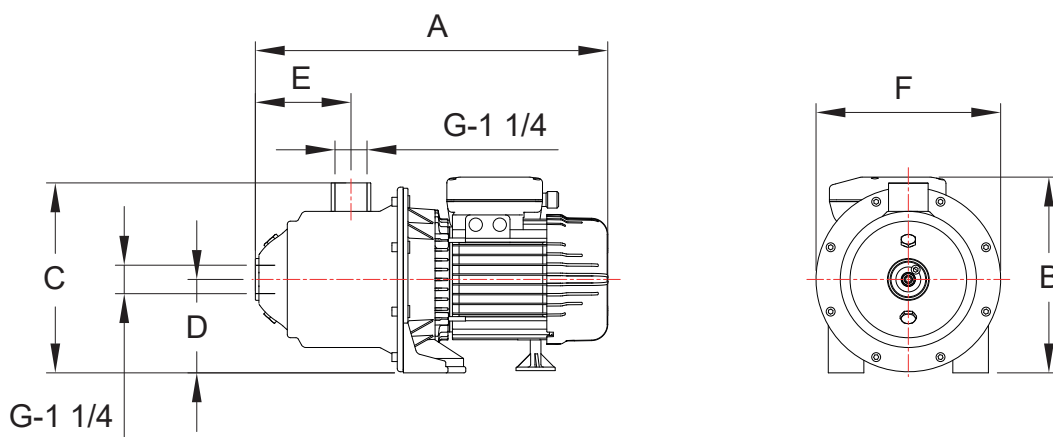
|                 |                                              |                                |                                                               |
|-----------------|----------------------------------------------|--------------------------------|---------------------------------------------------------------|
| Shaft           | Stainless steel X CrNiMo 17-12-03 (AISI 316) | Counterface                    | Ceramic                                                       |
| Impeller        | Stainless steel X CrNiMo 17-12-03 (AISI 316) | Operating pressure max.        | 10 bar (temp. of liquid 50°C)<br>6 bar (temp. of liquid 90°C) |
| Motor housing   | Die-cast aluminium                           | Type of liquid                 | clean water without suspended solids or abrasive material     |
| Pump housing    | Stainless steel X CrNiMo 17-12-03 (AISI 316) | Temperature of the liquid max. | 90 °C                                                         |
| Mechanical seal | Resin impregnated carbon                     | Gasket                         | EPDM                                                          |

### ELECTRICAL DATA

|                   |       |                          |       |
|-------------------|-------|--------------------------|-------|
| Type of enclosure | IP 55 | Ambient temperature max. | 40 °C |
| Insulation class  | F     |                          |       |

### DHI

| Type       | Code No.        | Voltage        | Motor rating<br>P1 | P2      | Current     | Weight  |
|------------|-----------------|----------------|--------------------|---------|-------------|---------|
| DHI 2-40 M | <b>N4226240</b> | 1/N/PE~230 V   | 0.70 kW            | 0.45 kW | 3.0 A       | 11.0 kg |
| DHI 2-40 T | <b>N4222240</b> | 3/PE~230/400 V | 0.60 kW            | 0.40 kW | 1.9 A/1.1 A | 11.0 kg |
| DHI 2-60 M | <b>N4226260</b> | 1/N/PE~230 V   | 0.83 kW            | 0.55 kW | 3.8 A       | 11.7 kg |
| DHI 2-60 T | <b>N4222260</b> | 3/PE~230/400 V | 0.90 kW            | 0.75 kW | 3.3 A/1.8 A | 11.7 kg |
| DHI 2-70 M | <b>N4226270</b> | 1/N/PE~230 V   | 1.10 kW            | 0.75 kW | 5.0 A       | 14.1 kg |
| DHI 2-70 T | <b>N4223270</b> | 3/PE~230/400 V | 1.00 kW            | 0.90 kW | 3.0 A/1.8 A | 14.1 kg |
| DHI 4-30 M | <b>N4226430</b> | 1/N/PE~230 V   | 0.80 kW            | 0.45 kW | 3.5 A       | 11.3 kg |
| DHI 4-30 T | <b>N4222430</b> | 3/PE~230/400 V | 0.75 kW            | 0.75 kW | 3.1 A/1.7 A | 11.3 kg |
| DHI 4-40 M | <b>N4226440</b> | 1/N/PE~230 V   | 0.92 kW            | 0.55 kW | 4.0 A       | 12.1 kg |
| DHI 4-40 T | <b>N4223440</b> | 3/PE~230/400 V | 0.95 kW            | 0.75 kW | 3.4 A/1.9 A | 12.1 kg |
| DHI 4-50 M | <b>N4226450</b> | 1/N/PE~230 V   | 1.20 kW            | 0.75 kW | 5.6 A       | 14.0 kg |
| DHI 4-50 T | <b>N4223450</b> | 3/PE~230/400 V | 1.10 kW            | 0.90 kW | 3.6 A/2.1 A | 14.0 kg |



### DIMENSIONS [mm]

| Type         | A   | B   | C     | D   | F   | DNA    | DNM    | E   |
|--------------|-----|-----|-------|-----|-----|--------|--------|-----|
| DHI 2-40 M/T | 368 | 220 | 213,5 | 105 | 208 | 1 1/4" | 1 1/4" | 80  |
| DHI 2-60 M/T | 396 | 220 | 213,5 | 105 | 208 | 1 1/4" | 1 1/4" | 108 |
| DHI 2-70 M/T | 422 | 220 | 213,5 | 105 | 208 | 1 1/4" | 1 1/4" | 134 |
| DHI 4-30 M/T | 368 | 220 | 213,5 | 105 | 208 | 1 1/4" | 1 1/4" | 80  |
| DHI 4-40 M/T | 396 | 220 | 213,5 | 105 | 208 | 1 1/4" | 1 1/4" | 108 |
| DHI 4-50 M/T | 422 | 220 | 213,5 | 105 | 208 | 1 1/4" | 1 1/4" | 134 |

## MULTI EVO-SP

HORIZONTAL MULTISTAGE - SURFACE PUMPS

- Strong and resistant to salt water, it is the perfect partner for all pool cleaning devices
- High reliability - thanks to the durable and innovative design
- Silent operation - improved user comfort thanks to its silent operation
- Compact dimensions
- High-efficiency motors according to EU(2019)/1781



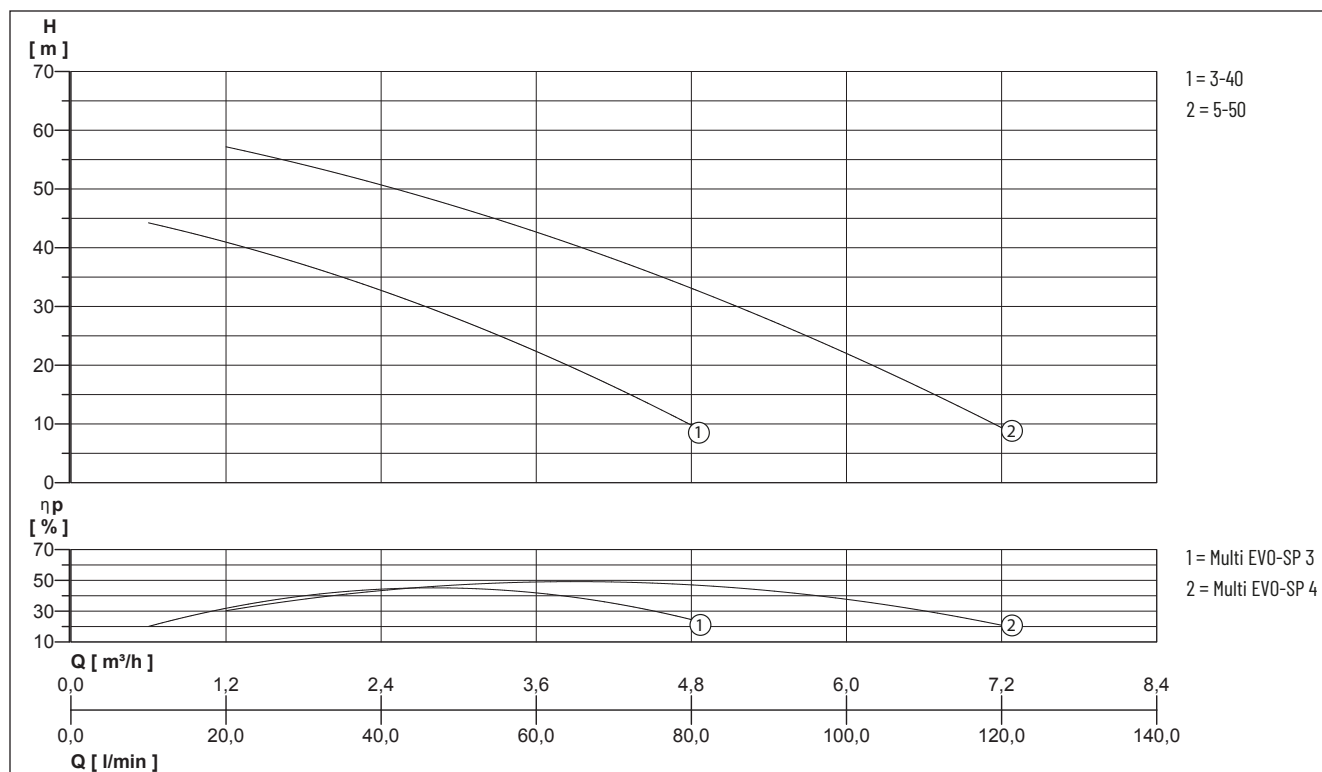
### DESCRIPTION

Multi EVO-SP is a multi-stage centrifugal horizontal pump with an inlet with axial thread and an outlet with radial thread. The innovative, high efficiency hydraulic system is connected to a motor of the latest generation with a mechanical seal. Particularly suitable for the pumping of sea water and pool water.

### APPLICATIONS

- Pressurization and supply
- Irrigation
- Cleaning of pools with chlorinated water
- Cleaning of pools with sea water
- Pumping of aggressive liquids (compatibly with the type of materials)

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                  | Flow rate Q [m³/h]  | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6  | 4.8  | 6    | 7.2 |
|-----------------------|---------------------|------|------|------|------|------|------|------|------|-----|
| MULTI EVO-SP 3-40 M/T | Delivery head H [m] | 44.0 | 41.0 | 37.5 | 33.0 | 27.5 | 22.0 | 10.0 |      |     |
| MULTI EVO-SP 5-50 M/T |                     |      | 57.0 | 54.0 | 51.0 | 47.0 | 43.0 | 32.5 | 22.0 | 9.5 |

# MULTI EVO-SP

## HORIZONTAL MULTISTAGE - SURFACE PUMPS

### MECHANICAL DATA

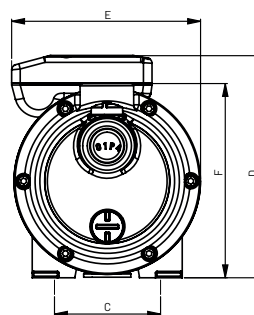
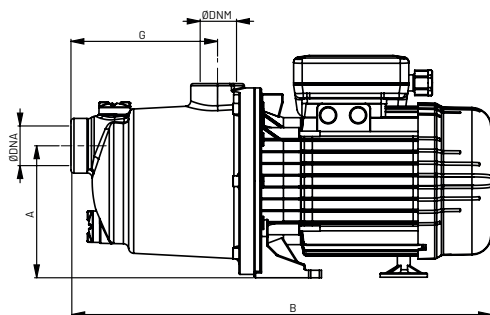
|                 |                                                                                |                                |                                                           |
|-----------------|--------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft           | Stainless steel Europe:<br>EN10088-1 X2CrNiMo17-12-2<br>(1.4404) USA: AISI 316 | Counterface                    | Ceramic / NBR                                             |
| Impeller        | PPO reinforced with fibreglass                                                 | Operating pressure max.        | 7 bar                                                     |
| Motor housing   | Die-cast aluminium                                                             | Type of liquid                 | clean water without suspended solids or abrasive material |
| Pump housing    | PPO reinforced with fibreglass                                                 | Temperature of the liquid max. | 50 °C                                                     |
| Diffuser        | PPO reinforced with fibreglass                                                 | Suction height max             | 6 m                                                       |
| Mechanical seal | Carbon graphite / NBR / SS                                                     | Gasket                         | NBR 70 Shore A                                            |

### ELECTRICAL DATA

|                   |       |                          |       |
|-------------------|-------|--------------------------|-------|
| Type of enclosure | IP 55 | Ambient temperature max. | 40 °C |
| Insulation class  | F     |                          |       |

### MULTI EVO-SP

| Type                | Code No.        | Voltage        | Motor rating |         | Current     | Weight  |
|---------------------|-----------------|----------------|--------------|---------|-------------|---------|
|                     |                 |                | P1           | P2      |             |         |
| MULTI EVO-SP 3-40 M | <b>N4302540</b> | 1/N/PE~230 V   | 0.75 kW      | 0.40 kW | 3.4 A       | 6.9 kg  |
| MULTI EVO-SP 3-40 T | <b>N4302640</b> | 3/PE~230/400 V | 0.70 kW      | 0.50 kW | 2.4 A/1.4 A | 6.9 kg  |
| MULTI EVO-SP 5-50 M | <b>N4304550</b> | 1/N/PE~230 V   | 1.30 kW      | 0.75 kW | 6.0 A       | 10.1 kg |
| MULTI EVO-SP 5-50 T | <b>N4304250</b> | 3/PE~230/400 V | 1.25 kW      | 0.90 kW | 3.8 A/2.2 A | 10.1 kg |



### DIMENSIONS [mm]

| Type                  | A   | B   | C  | D   | F   | G   | DNA | DNM | E   |
|-----------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|
| MULTI EVO-SP 3-40 M/T | 123 | 373 | 99 | 199 | 182 | 137 | 1"  | 1"  | 177 |
| MULTI EVO-SP 5-50 M/T | 123 | 392 | 99 | 207 | 182 | 137 | 1"  | 1"  | 177 |



## CM

### HORIZONTAL SINGLE STAGE - SURFACE PUMPS

- Highly reliable
- Sturdy and resistant
- High hydraulic performance
- Quite operation
- High-efficiency motors according to EU(2019)/1781



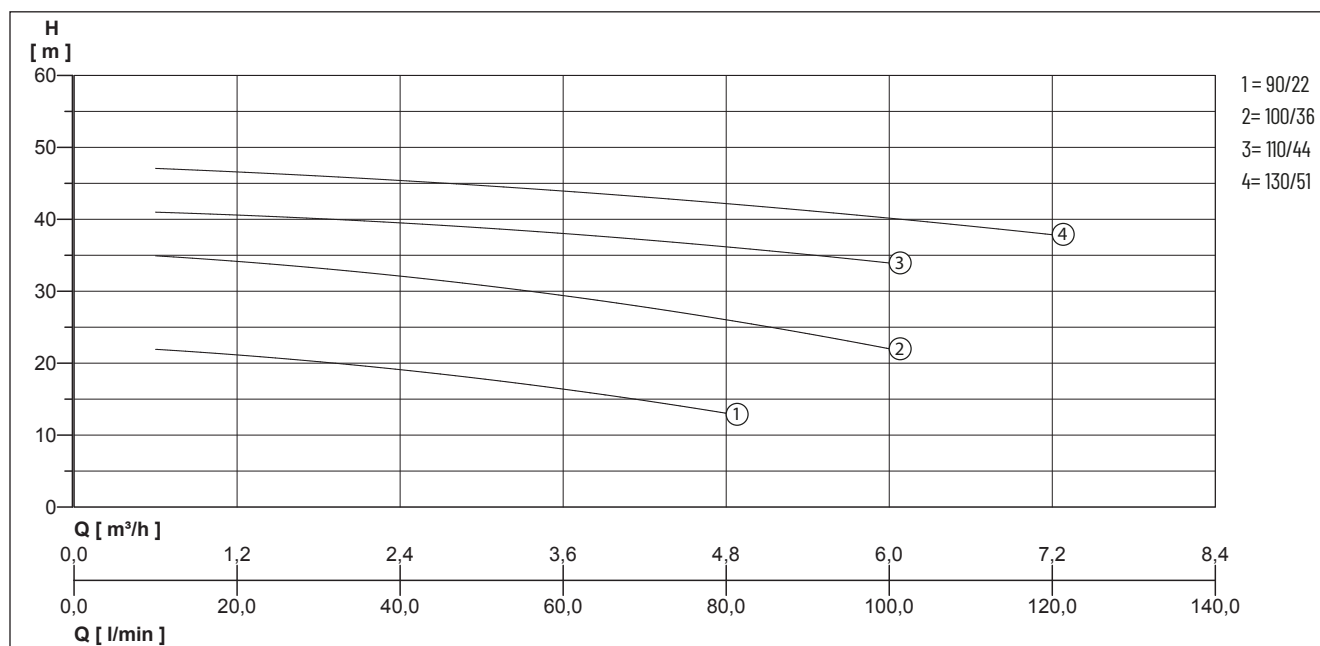
#### DESCRIPTION

The CM series of single impeller centrifugal pumps are silent with optimal hydraulic performance.

#### APPLICATIONS

- Lifting from wells for irrigation
- Pressurization systems
- Pressurization and supply
- Washing

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances. MEI ≥ 0.4 - Reference MEI ≥ 0.70 - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

| Type          | Flow rate Q [m³/h]  | 0.6 | 1.8 | 3  | 4.8 | 6  | 7.2 |
|---------------|---------------------|-----|-----|----|-----|----|-----|
| CM 100/36 M/T | Delivery head H [m] | 35  | 33  | 31 | 26  | 22 |     |
| CM 110/44 M/T |                     | 41  | 40  | 39 | 36  | 34 |     |
| CM 130/51 M/T |                     | 47  | 46  | 45 | 42  | 40 | 38  |

# CM

## HORIZONTAL SINGLE STAGE - SURFACE PUMPS

### MECHANICAL DATA

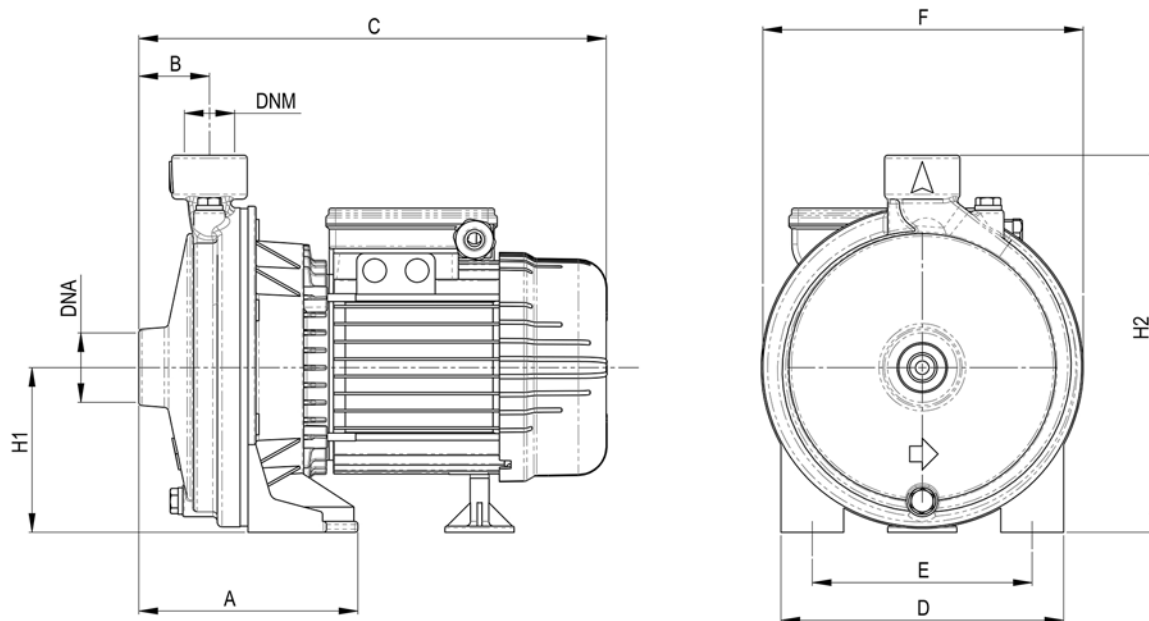
|                 |                                            |                                |                                             |
|-----------------|--------------------------------------------|--------------------------------|---------------------------------------------|
| Shaft           | Stainless steel X 12 CrNiS 1809 (AISI 416) | Operating pressure max.        | 8 bar                                       |
| Impeller        | Brass                                      | Type of liquid                 | clear or slightly turbid non-abrasive water |
| Motor housing   | Cast iron EN GJL 200                       | Temperature of the liquid max. | 90 °C                                       |
| Pump housing    | Cast iron EN GJL 200                       | Suction height max             | 5 m                                         |
| Mechanical seal | Graphite                                   | Gasket                         | NBR 70 shore                                |
| Counterface     | Ceramic                                    |                                |                                             |

### ELECTRICAL DATA

|                   |       |                  |   |
|-------------------|-------|------------------|---|
| Type of enclosure | IP 44 | Insulation class | F |
|-------------------|-------|------------------|---|

### CM

| Type        | Code No.        | Voltage        | Motor rating |         | Current     | Weight |
|-------------|-----------------|----------------|--------------|---------|-------------|--------|
|             |                 |                | P1           | P2      |             |        |
| CM 100/36 M | <b>N418B180</b> | 1/N/PE~230 V   | 1.25 kW      | 0.75 kW | 5.5 A       | 11 kg  |
| CM 100/36 T | <b>N418B160</b> | 3/PE~230/400 V | 1.20 kW      | 0.90 kW | 3.8 A/2.3 A | 11 kg  |
| CM 110/44 M | <b>N4187090</b> | 1/N/PE~230 V   | 1.70 kW      | 1.10 kW | 8.0 A       | 20 kg  |
| CM 110/44 T | <b>N4187100</b> | 3/PE~230/400 V | 1.80 kW      | 1.10 kW | 5.5 A/3.2 A | 20 kg  |
| CM 130/51 M | <b>N4187110</b> | 1/N/PE~230 V   | 2.40 kW      | 1.50 kW | 10.3 A      | 23 kg  |
| CM 130/51 T | <b>N4187120</b> | 3/PE~230/400 V | 2.10 kW      | 1.50 kW | 6.9 A/4.0 A | 23 kg  |



### DIMENSIONS [mm]

| Type          | A    | B    | C   | D   | F   | H1  | H2  | DNA    | DNM | E   |
|---------------|------|------|-----|-----|-----|-----|-----|--------|-----|-----|
| CM 100/36 M/T | 140  | 45   | 300 | 180 | 205 | 107 | 242 | 1"     | 1"  | 140 |
| CM 110/44 M   | 95,5 | 45,5 | 347 | 194 | 200 | 100 | 252 | 1 1/4" | 1"  | 155 |
| CM 110/44 T   | 95,5 | 45,5 | 372 | 194 | 200 | 100 | 252 | 1 1/4" | 1"  | 155 |
| CM 130/51 M   | 95,5 | 45,5 | 360 | 220 | 225 | 115 | 285 | 1 1/4" | 1"  | 180 |
| CM 130/51 T   | 95,5 | 45,5 | 374 | 220 | 225 | 115 | 285 | 1 1/4" | 1"  | 180 |

## CB

### HORIZONTAL TWO-STAGE - SURFACE PUMPS

- High hydraulic performance
- Sturdy and resistant
- Highly reliable
- Quite operation



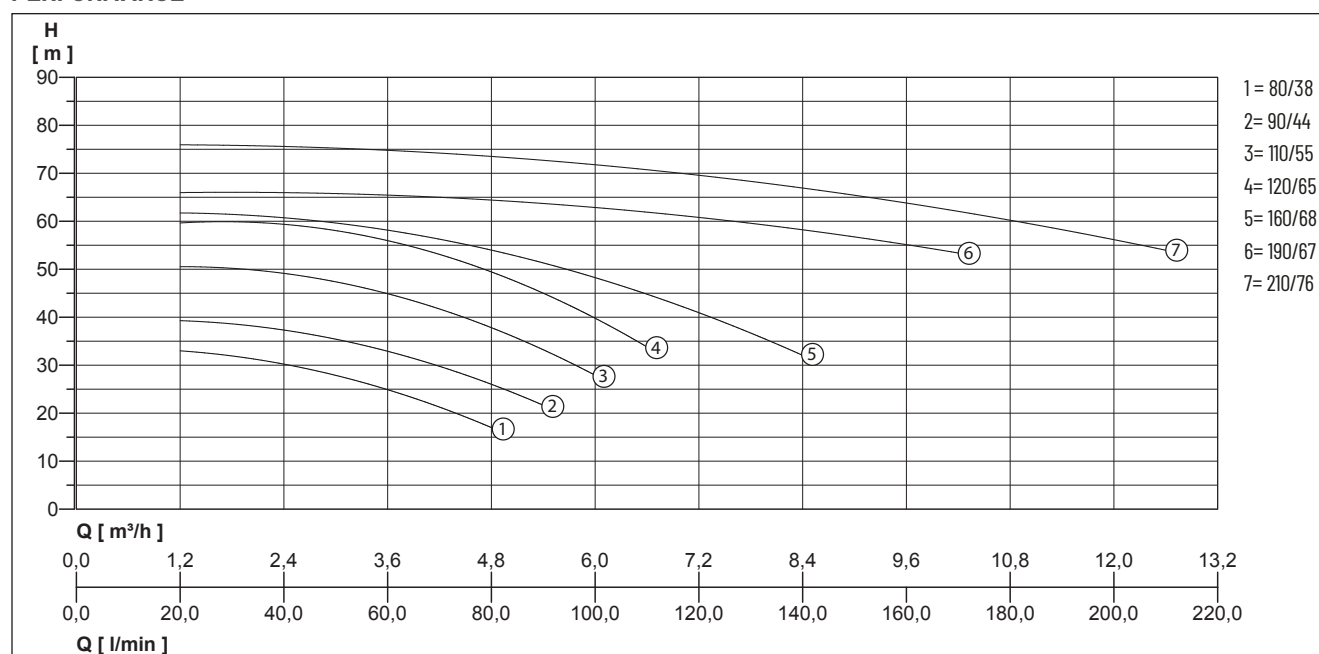
#### DESCRIPTION

The two opposite impellers with balanced axial thrust allow for high efficiency, making them particularly suitable for civil and industrial use, autoclave units, etc.

#### APPLICATIONS

- Pressurization systems
- Small automatic systems for garden irrigation
- Handling of non-aggressive liquids
- Washing systems

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type          | Flow rate Q [m³/h]  | 1.2  | 2.4  | 3    | 4.8  | 5.4  | 6    | 6.6  | 8.4  | 9.6  | 10.8 | 12   |
|---------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|
| CB 80/38 M    | Delivery head H [m] | 33.0 | 30.2 | 27.9 | 17.0 |      |      |      |      |      |      |      |
| CB 90/44 M    |                     | 39.5 | 37.0 | 35.2 | 27.0 | 21.0 |      |      |      |      |      |      |
| CB 110/55 M/T |                     | 50.8 | 48.8 | 47.1 | 38.4 | 33.4 | 27.5 |      |      |      |      |      |
| CB 120/65 M   |                     | 60.5 | 58.6 | 56.9 | 49.8 | 46.5 | 40.3 | 32.5 |      |      |      |      |
| CB 160/68 T   |                     |      | 60.5 | 59.3 | 54.1 | 51.6 | 48.4 | 44.6 | 32.0 |      |      |      |
| CB 190/67 T   |                     |      |      | 67.0 | 64.8 | 63.9 | 62.5 | 62.0 | 58.0 | 53.5 |      |      |
| CB 210/76 T   |                     |      |      | 76.5 | 73.9 | 72.9 | 71.8 | 70.5 | 66.8 | 62.0 | 58.3 | 54.0 |

# CB

## HORIZONTAL TWO-STAGE - SURFACE PUMPS

### MECHANICAL DATA

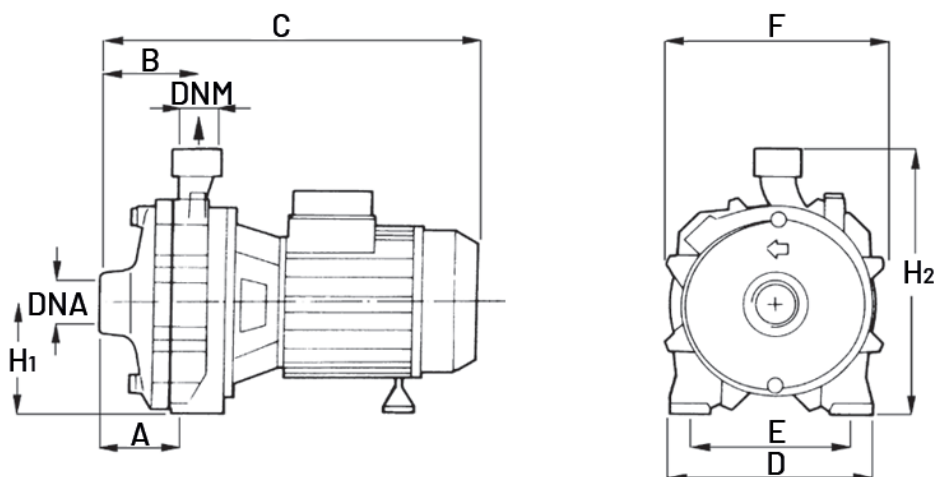
|                 |                      |                    |                                             |
|-----------------|----------------------|--------------------|---------------------------------------------|
| Pump housing    | Cast iron EN GJL 200 | Type of liquid     | clear or slightly turbid non-abrasive water |
| Mechanical seal | Graphite             | Suction height max | 5 m                                         |
| Counterface     | Ceramic              | Gasket             | NBR                                         |

### ELECTRICAL DATA

|                   |       |                          |       |
|-------------------|-------|--------------------------|-------|
| Type of enclosure | IP 44 | Ambient temperature max. | 40 °C |
| Insulation class  | F     |                          |       |

### CB

| Type                                                           | Code No.        | Voltage        | Motor rating |         | Current      | Shaft    | Motor housing | Temperature of the liquid max. | Weight  |
|----------------------------------------------------------------|-----------------|----------------|--------------|---------|--------------|----------|---------------|--------------------------------|---------|
|                                                                |                 |                | P1           | P2      |              |          |               |                                |         |
| <b>Operating pressure max.: 6 bar, Impeller: Technopolymer</b> |                 |                |              |         |              |          |               |                                |         |
| CB 80/38 M                                                     | <b>N4189010</b> | 1/N/PE~230 V   | 1.1 kW       | 0.55 kW | 5.0 A        | AISI 416 | Aluminum      | 40 °C                          | 13.5 kg |
| CB 90/44 M                                                     | <b>N4189030</b> | 1/N/PE~230 V   | 1.4 kW       | 0.74 kW | 6.1 A        | AISI 416 | Aluminum      | 40 °C                          | 15.0 kg |
| <b>Operating pressure max.: 10 bar, Impeller: Brass</b>        |                 |                |              |         |              |          |               |                                |         |
| CB 110/55 M                                                    | <b>N4189050</b> | 1/N/PE~230 V   | 1.9 kW       | 1.10 kW | 8.6 A        | AISI 303 | Cast iron     | 90 °C                          | 25.0 kg |
| CB 110/55 T                                                    | <b>N4189060</b> | 3/PE~230/400 V | 1.8 kW       | 1.10 kW | 5.5 A/3.2 A  | AISI 303 | Cast iron     | 90 °C                          | 25.0 kg |
| CB 120/65 M                                                    | <b>N4189070</b> | 1/N/PE~230 V   | 2.4 kW       | 1.50 kW | 10.8 A       | AISI 303 | Cast iron     | 90 °C                          | 27.0 kg |
| CB 120/65                                                      | <b>N4189080</b> | 3/PE~230/400 V | 2.1 kW       | 1.50 kW | 6.9 A/4.0 A  | AISI 303 | Cast iron     | 90 °C                          | 27.0 kg |
| CB 160/68 T                                                    | <b>N4189090</b> | 3/PE~230/400 V | 2.6 kW       | 2.20 kW | 8.1 A/4.7 A  | AISI 303 | Cast iron     | 90 °C                          | 27.0 kg |
| CB 190/67 T                                                    | <b>N4189100</b> | 3/PE~230/400 V | 4.1 kW       | 3.00 kW | 12.5 A/7.2 A | AISI 304 | Cast iron     | 90 °C                          | 42.5 kg |
| CB 210/76 T                                                    | <b>N4189110</b> | 3/PE~230/400 V | 4.6 kW       | 4.00 kW | 15.1 A/8.7 A | AISI 304 | Cast iron     | 90 °C                          | 46.3 kg |



### DIMENSIONS [mm]

| Type        | A    | B  | C     | D   | F   | H1  | H2  | DNA    | DNM    | E   |
|-------------|------|----|-------|-----|-----|-----|-----|--------|--------|-----|
| CB 80/38 M  | 65,8 | 73 | 363,3 | 180 | 183 | 97  | 227 | 1"     | 1"     | 140 |
| CB 90/44 M  | 65,8 | 73 | 363,3 | 180 | 183 | 97  | 227 | 1"     | 1"     | 140 |
| CB 110/55 M | 73,8 | 86 | 407,8 | 195 | 209 | 110 | 265 | 1 1/4" | 1"     | 155 |
| CB 110/55 T | 73,8 | 86 | 419,8 | 195 | 194 | 110 | 265 | 1 1/4" | 1"     | 155 |
| CB 120/65 M | 73,8 | 86 | 410,8 | 195 | 209 | 110 | 265 | 1 1/4" | 1"     | 155 |
| CB 120/65   | 73,8 | 86 | 421   | 195 | 194 | 110 | 265 | 1 1/4" | 1"     | 155 |
| CB 160/68 T | 73,8 | 86 | 423,3 | 195 | 194 | 110 | 265 | 1 1/4" | 1"     | 155 |
| CB 190/67 T | 83,8 | 96 | 494,5 | 230 | 228 | 133 | 309 | 1 1/2" | 1 1/4" | 180 |
| CB 210/76 T | 72   | 96 | 494,5 | 230 | 228 | 133 | 309 | 1 1/2" | 1 1/4" | 180 |

## MULTINOX-VE+

SURFACE PUMPS - VERTICAL MULTISTAGE

- High hydraulic efficiency
- Strong and resistant
- Motor designed according to EN regulations
- Many possible uses for the residential market
- High-efficiency motors according to EU(2019)/1781



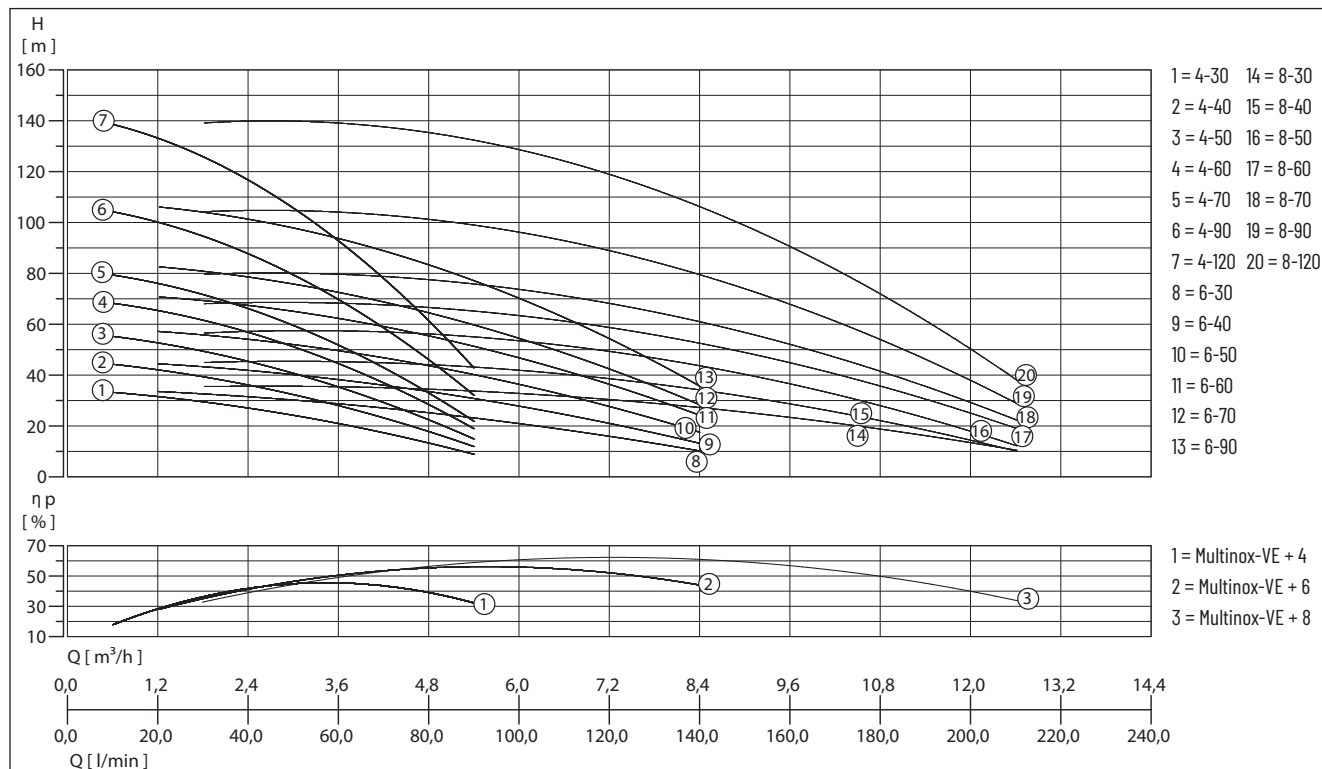
### DESCRIPTION

The MULTINOX-VE+ series vertical multi-stage centrifugal pumps are particularly suitable for the realization of lifting units, especially in the cases where high efficiency and silence are required, with compact dimensions.

### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Fire protection systems
- Washing, garden irrigation, supply to fountains, transfers.

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances. MEI ≥ 0.4 - Reference MEI ≥ 0.70 - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# MULTINOX-VE+

## SURFACE PUMPS - VERTICAL MULTISTAGE

| Type                  | Flow rate Q [m³/h]  | 0.6 | 1.2 | 1.8 | 2.4 | 3   | 3.6 | 4.2 | 4.8 | 5.4 | 6  | 7.2 | 8.4 | 9  | 10.8 | 12.6 |
|-----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|------|------|
| MULTINOX VE+ 4-30 M/T | Delivery head H [m] | 33  |     | 30  | 27  | 24  | 21  | 17  |     | 9   |    |     |     |    |      |      |
| MULTINOX VE+ 4-40 M/T |                     | 44  |     | 40  | 36  | 32  | 28  | 23  |     | 12  |    |     |     |    |      |      |
| MULTINOX VE+ 4-50 M/T |                     | 55  |     | 50  | 45  | 41  | 35  | 29  |     | 15  |    |     |     |    |      |      |
| MULTINOX VE+ 4-60 M/T |                     | 68  |     | 62  | 57  | 51  | 44  | 37  |     | 19  |    |     |     |    |      |      |
| MULTINOX VE+ 4-70 M/T |                     | 79  |     | 72  | 67  | 59  | 51  | 43  |     | 22  |    |     |     |    |      |      |
| MULTINOX VE+ 4-90 T   |                     | 104 |     | 95  | 88  | 79  | 69  | 59  |     | 32  |    |     |     |    |      |      |
| MULTINOX VE+ 4-120 T  |                     | 138 |     | 127 | 117 | 105 | 92  | 78  |     | 43  |    |     |     |    |      |      |
| MULTINOX VE+ 6-30 M/T |                     |     | 34  |     | 31  |     | 28  |     | 26  |     | 21 | 16  | 10  |    |      |      |
| MULTINOX VE+ 6-40 M/T |                     |     | 45  |     | 41  |     | 38  |     | 34  |     | 28 | 21  | 13  |    |      |      |
| MULTINOX VE+ 6-50 M/T |                     |     | 58  |     | 53  |     | 49  |     | 44  |     | 37 | 28  | 17  |    |      |      |
| MULTINOX VE+ 6-60 M/T |                     |     | 71  |     | 66  |     | 61  |     | 55  |     | 47 | 36  | 23  |    |      |      |
| MULTINOX VE+ 6-70 T   |                     |     | 83  |     | 77  |     | 71  |     | 64  |     | 55 | 42  | 27  |    |      |      |
| MULTINOX VE+ 6-90 T   |                     |     | 107 |     | 99  |     | 92  |     | 83  |     | 71 | 54  | 34  |    |      |      |
| MULTINOX VE+ 8-30 M/T |                     |     |     | 35  |     |     | 35  |     |     | 33  |    | 30  |     | 25 | 18   | 10   |
| MULTINOX VE+ 8-40 M/T |                     |     |     | 45  |     |     | 44  |     |     | 42  |    | 39  |     | 32 | 20   | 11   |
| MULTINOX VE+ 8-50 M/T |                     |     |     | 57  |     |     | 56  |     |     | 53  |    | 50  |     | 40 | 28   | 16   |
| MULTINOX VE+ 8-60 T   |                     |     |     | 68  |     |     | 67  |     |     | 64  |    | 60  |     | 48 | 34   | 19   |
| MULTINOX VE+ 8-70 T   |                     |     |     | 80  |     |     | 78  |     |     | 74  |    | 70  |     | 56 | 40   | 22   |
| MULTINOX VE+ 8-90 T   |                     |     |     | 104 |     |     | 103 |     |     | 98  |    | 90  |     | 73 | 52   | 29   |
| MULTINOX VE+ 8-120 T  |                     |     |     | 139 |     |     | 138 |     |     | 131 |    | 120 |     | 98 | 70   | 38   |

### MECHANICAL DATA

|              |                                         |                                |                                                           |
|--------------|-----------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft        | Stainless steel X5 CrNi 1810 (AISI 304) | Type of liquid                 | clean water without suspended solids or abrasive material |
| Impeller     | Technopolymer                           | Temperature of the liquid max. | 50 °C                                                     |
| Pump housing | Stainless steel X5 CrNi 1810 (AISI 304) | Suction height max             | 6 m                                                       |
| Diffuser     | Technopolymer                           | Gasket                         | NBR                                                       |

### ELECTRICAL DATA

|                          |       |                |   |
|--------------------------|-------|----------------|---|
| Insulation class         | F     | Rotation speed | - |
| Ambient temperature max. | 40 °C |                |   |

# MULTINOX-VE+

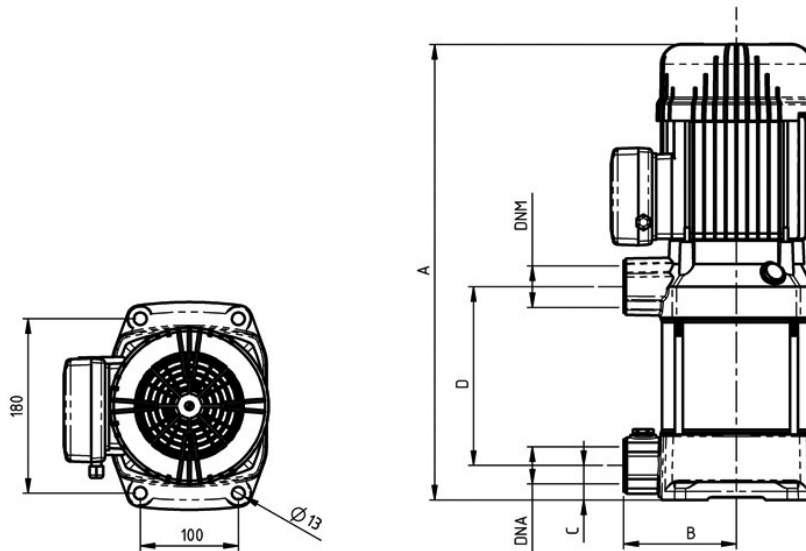
## SURFACE PUMPS - VERTICAL MULTISTAGE

### MULTINOX-VE+

| Type                                                                                     | Code No.         | Voltage        | Motor rating |        | Current      | Type of enclosure | Operating pressure max. | Weight |
|------------------------------------------------------------------------------------------|------------------|----------------|--------------|--------|--------------|-------------------|-------------------------|--------|
|                                                                                          |                  |                | P1           | P2     |              |                   |                         |        |
| <b>Mechanical seal:, Counterface:</b>                                                    |                  |                |              |        |              |                   |                         |        |
| MULTINOX VE+ 4-30 M                                                                      | <b>N10G02030</b> | 1/N/PE~230 V   | 0.85 kW      | 0.9 kW | 3.3 A        | IP 44             | 9 bar                   | 19 kg  |
| MULTINOX VE+ 4-30 T                                                                      | <b>N10G12030</b> | 3/PE~230/400 V | 0.73 kW      | 0.7 kW | 2.6 A/1.5 A  | IP 44             | 9 bar                   | 19 kg  |
| MULTINOX VE+ 4-40 M                                                                      | <b>N10G02040</b> | 1/N/PE~230 V   | 0.98 kW      | 0.9 kW | 4.0 A        | IP 44             | 9 bar                   | 21 kg  |
| MULTINOX VE+ 4-40 T                                                                      | <b>N10G12040</b> | 3/PE~230/400 V | 0.91 kW      | 0.7 kW | 3.1 A/1.8 A  | IP 44             | 9 bar                   | 21 kg  |
| MULTINOX VE+ 4-50 M                                                                      | <b>N10G02050</b> | 1/N/PE~230 V   | 1.20 kW      | 0.9 kW | 5.0 A        | IP 44             | 9 bar                   | 23 kg  |
| MULTINOX VE+ 4-50 T                                                                      | <b>N10G13050</b> | 3/PE~230/400 V | 1.10 kW      | 1.3 kW | 3.9 A/2.2 A  | IP 44             | 9 bar                   | 23 kg  |
| MULTINOX VE+ 4-60 M                                                                      | <b>N10G02060</b> | 1/N/PE~230 V   | 1.50 kW      | 1.3 kW | 6.7 A        | IP 44             | 9 bar                   | 25 kg  |
| MULTINOX VE+ 4-60 T                                                                      | <b>N10G13060</b> | 3/PE~230/400 V | 1.30 kW      | 1.3 kW | 4.2 A/2.4 A  | IP 44             | 9 bar                   | 25 kg  |
| MULTINOX VE+ 4-70 M                                                                      | <b>N10G02070</b> | 1/N/PE~230 V   | 1.70 kW      | 1.3 kW | 7.2 A        | IP 44             | 9 bar                   | 27 kg  |
| MULTINOX VE+ 4-70 T                                                                      | <b>N10G13070</b> | 3/PE~230/400 V | 1.50 kW      | 1.3 kW | 4.7 A/2.7 A  | IP 44             | 9 bar                   | 27 kg  |
| MULTINOX VE+ 4-90 T                                                                      | <b>N10G13090</b> | 3/PE~230/400 V | 1.78 kW      | 1.5 kW | 5.7 A/3.4 A  | IP 44             | 12 bar                  | 28 kg  |
| MULTINOX VE+ 4-120 T                                                                     | <b>N10G13120</b> | 3/PE~230/400 V | 2.30 kW      | 1.5 kW | 7.4 A/4.2 A  | IP 44             | 16 bar                  | 30 kg  |
| MULTINOX VE+ 6-30 M                                                                      | <b>N11G02030</b> | 1/N/PE~230 V   | 0.98 kW      | 0.9 kW | 4.0 A        | IP 44             | 9 bar                   | 19 kg  |
| MULTINOX VE+ 6-30 T                                                                      | <b>N11G12030</b> | 3/PE~230/400 V | 0.91 kW      | 0.7 kW | 3.1 A/1.8 A  | IP 44             | 9 bar                   | 19 kg  |
| MULTINOX VE+ 6-40 M                                                                      | <b>N11G02040</b> | 1/N/PE~230 V   | 1.35 kW      | 1.3 kW | 6.0 A        | IP 44             | 9 bar                   | 21 kg  |
| MULTINOX VE+ 6-40 T                                                                      | <b>N11G13040</b> | 3/PE~230/400 V | 1.10 kW      | 1.3 kW | 3.9 A/2.2 A  | IP 44             | 9 bar                   | 21 kg  |
| MULTINOX VE+ 6-50 M                                                                      | <b>N11G02050</b> | 1/N/PE~230 V   | 1.50 kW      | 1.3 kW | 6.7 A        | IP 44             | 9 bar                   | 23 kg  |
| MULTINOX VE+ 6-50 T                                                                      | <b>N11G13050</b> | 3/PE~230/400 V | 1.30 kW      | 1.3 kW | 4.2 A/2.4 A  | IP 44             | 9 bar                   | 23 kg  |
| MULTINOX VE+ 6-60 M                                                                      | <b>N11G02060</b> | 3/PE~230/400 V | 1.75 kW      | 1.3 kW | 7.4 A        | IP 44             | 9 bar                   | 25 kg  |
| MULTINOX VE+ 6-60 T                                                                      | <b>N11G13060</b> | 3/PE~230/400 V | 1.55 kW      | 1.3 kW | 4.9 A/2.8 A  | IP 44             | 9 bar                   | 25 kg  |
| MULTINOX VE+ 6-70 T                                                                      | <b>N11G13070</b> | 3/PE~230/400 V | 1.70 kW      | 1.5 kW | 5.6 A/3.3 A  | IP 44             | 9 bar                   | 27 kg  |
| MULTINOX VE+ 6-90 T                                                                      | <b>N11G13090</b> | 3/PE~230/400 V | 2.10 kW      | 1.5 kW | 7.1 A/4.0 A  | IP 44             | 12 bar                  | 28 kg  |
| MULTINOX VE+ 8-30 M                                                                      | <b>N9G02030</b>  | 1/N/PE~230 V   | 1.40 kW      | 0.9 kW | 6.0 A        | IP 44             | 9 bar                   | 19 kg  |
| MULTINOX VE+ 8-30 T                                                                      | <b>N9G13030</b>  | 3/PE~230/400 V | 1.20 kW      | 1.3 kW | 4.0 A/2.3 A  | IP 44             | 9 bar                   | 19 kg  |
| MULTINOX VE+ 8-40 M                                                                      | <b>N9G02040</b>  | 1/N/PE~230 V   | 1.75 kW      | 1.3 kW | 7.5 A        | IP 44             | 9 bar                   | 21 kg  |
| MULTINOX VE+ 8-40 T                                                                      | <b>N9G13040</b>  | 3/PE~230/400 V | 1.55 kW      | 1.3 kW | 4.9 A/2.8 A  | IP 44             | 9 bar                   | 21 kg  |
| MULTINOX VE+ 8-50 M                                                                      | <b>N9G02050</b>  | 1/N/PE~230 V   | 2.00 kW      | 1.3 kW | 8.6 A        | IP 44             | 9 bar                   | 23 kg  |
| MULTINOX VE+ 8-50 T                                                                      | <b>N9G13050</b>  | 3/PE~230/400 V | 1.80 kW      | 1.5 kW | 5.7 A/3.3 A  | IP 44             | 9 bar                   | 23 kg  |
| MULTINOX VE+ 8-60 T                                                                      | <b>N9G13060</b>  | 3/PE~230/400 V | 2.10 kW      | 1.5 kW | 6.6 A/3.8 A  | IP 44             | 9 bar                   | 25 kg  |
| MULTINOX VE+ 8-70 T                                                                      | <b>N9G13070</b>  | 3/PE~230/400 V | 2.30 kW      | 1.5 kW | 7.4 A/4.2 A  | IP 44             | 9 bar                   | 27 kg  |
| <b>Mechanical seal:Graphite/Silicon Carbide , Counterface:Aluminium Oxide / Graphite</b> |                  |                |              |        |              |                   |                         |        |
| MULTINOX VE+ 8-90 T                                                                      | <b>N9G11090</b>  | 3/PE~230/400 V | 3.20 kW      | 3.0 kW | 10.2 A/5.9 A | IP 55             | 20 bar                  | 36 kg  |
| MULTINOX VE+ 8-120 T                                                                     | <b>N9G11120</b>  | 3/PE~230/400 V | 4.60 kW      | 4.0 kW | 13.5 A/7.6 A | IP 55             | 20 bar                  | 39 kg  |

# MULTINOX-VE+

SURFACE PUMPS - VERTICAL MULTISTAGE



## DIMENSIONS [mm]

| Type                  | A   | B   | C  | D   | DNA    | DNM    |
|-----------------------|-----|-----|----|-----|--------|--------|
| MULTINOX VE+ 4-30 M/T | 416 | 115 | 35 | 130 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 4-40 M/T | 443 | 115 | 35 | 157 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 4-50 M/T | 470 | 115 | 35 | 184 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 4-60 M/T | 497 | 115 | 35 | 211 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 4-70 M/T | 524 | 115 | 35 | 238 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 4-90 T   | 578 | 115 | 35 | 292 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 4-120 T  | 660 | 115 | 35 | 373 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 6-30 M/T | 416 | 115 | 35 | 130 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 6-40 M/T | 443 | 115 | 35 | 157 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 6-50 M/T | 470 | 115 | 35 | 184 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 6-60 M/T | 497 | 115 | 35 | 211 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 6-70 T   | 524 | 115 | 35 | 238 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 6-90 T   | 578 | 115 | 35 | 292 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 8-30 M/T | 416 | 115 | 35 | 130 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 8-40 M/T | 443 | 115 | 35 | 157 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 8-50 M/T | 470 | 115 | 35 | 184 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 8-60 T   | 497 | 115 | 35 | 211 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 8-70 T   | 524 | 115 | 35 | 238 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 8-90 T   | 730 | 115 | 35 | 292 | 1 1/4" | 1 1/4" |
| MULTINOX VE+ 8-120 T  | 855 | 115 | 35 | 373 | 1 1/4" | 1 1/4" |



# **PENTAIR STA-RITE**

## **PVM/PVMI/PVMX**

### SURFACE PUMPS - VERTICAL MULTISTAGE

- High hydraulic efficiency
- Motor designed according to EN regulations
- Wide range
- IE3 Motor



#### DESCRIPTION

PVM, PVMI and PVMX are non self-priming vertical multi-stage pumps, with Victaulic or flanged fittings with inlets and outlets of the same size.

Construction of stages with impellers, chambers and outlet in stainless steel. Pump cardan shaft and motor shaft are directly coupled according to IEC standard.

All pumps are equipped with high efficiency motors (IE3) and a cartridge-type mechanical seal for easy maintenance.

PVM, PVMI and PVMX pumps are available in different sizes and number of stages to provide the required flow and pressure.

#### APPLICATIONS

- Water supply
- Pressurization systems
- Water treatment/filtration
- Irrigation
- High pressure washing
- Liquid transfer
- Fire protection systems
- Boiler feed

#### MECHANICAL DATA

|                                |         |        |      |
|--------------------------------|---------|--------|------|
| Mechanical seal                | SiC/SiC | Gasket | EPDM |
| Temperature of the liquid max. | 120 °C  |        |      |

#### ELECTRICAL DATA

|                   |       |                          |          |
|-------------------|-------|--------------------------|----------|
| Type of enclosure | IP 55 | Ambient temperature max. | 50 °C    |
| Insulation class  | F     | Rotation speed           | 2900 rpm |

| Type | Shaft                            | Impeller                         | Pump housing                                 |
|------|----------------------------------|----------------------------------|----------------------------------------------|
| PVM  | Stainless steel 1.4057; AISI 431 | Stainless steel 1.4301; AISI 304 | Cast iron EN GJL 200                         |
| PVMI | Stainless steel 1.4057; AISI 431 | Stainless steel 1.4301; AISI 304 | Stainless steel X5 CrNi 1810 (AISI 304)      |
| PVMX | Stainless steel 1.4401; AISI 316 | Stainless steel 1.4401; AISI 316 | Stainless steel X CrNiMo 17-12-03 (AISI 316) |

# PVM/PVMI/PVMX

## SURFACE PUMPS - VERTICAL MULTISTAGE

| Motor rating P2 | Motor frame | 1/N/PE~230 V | 3/PE~230/400 V | 3/PE~400/690 V |
|-----------------|-------------|--------------|----------------|----------------|
| 0.37 kW         | 71          | 2.8 A        | 1.7 A/1 A      |                |
| 0.55 kW         | 71          | 4.2 A        | 2.6 A/1.5 A    |                |
| 0.75 kW         | 80          | 5 A          | 3.5 A/2 A      |                |
| 1.1 kW          | 80          | 7.9 A        | 4.5 A/2.6 A    |                |
| 1.5 kW          | 90S         | 10.5 A       | 6.1 A/3.5 A    |                |
| 2.2 kW          | 90L         |              | 7.6 A/4.4 A    |                |
| 3 kW            | 100L        |              | 11.7 A/6.7 A   |                |
| 4 kW            | 112M        |              | 13.5 A/7.8 A   |                |
| 5.5 kW          | 132S        |              |                | 10.2 A/5.9 A   |
| 7.5 kW          | 132S        |              |                | 14.7 A/8.5 A   |
| 11 kW           | 160M        |              |                | 21 A/13 A      |
| 15 kW           | 160M        |              |                | 29 A/17 A      |
| 18.5 kW         | 160L        |              |                | 35 A/21 A      |
| 22 kW           | 180M        |              |                | 42 A/25 A      |
| 30 kW           | 200L        |              |                | 55 A/32 A      |
| 37 kW           | 200L        |              |                | 63.5 A/36.8 A  |
| 45 kW           | 225M        |              |                | 77.8 A/45 A    |
| 55 kW           | 250M        |              |                | 93.6 A         |
| 75 kW           | 280S        |              |                | 123.1 A        |

# PVM/PVMI/PVMX

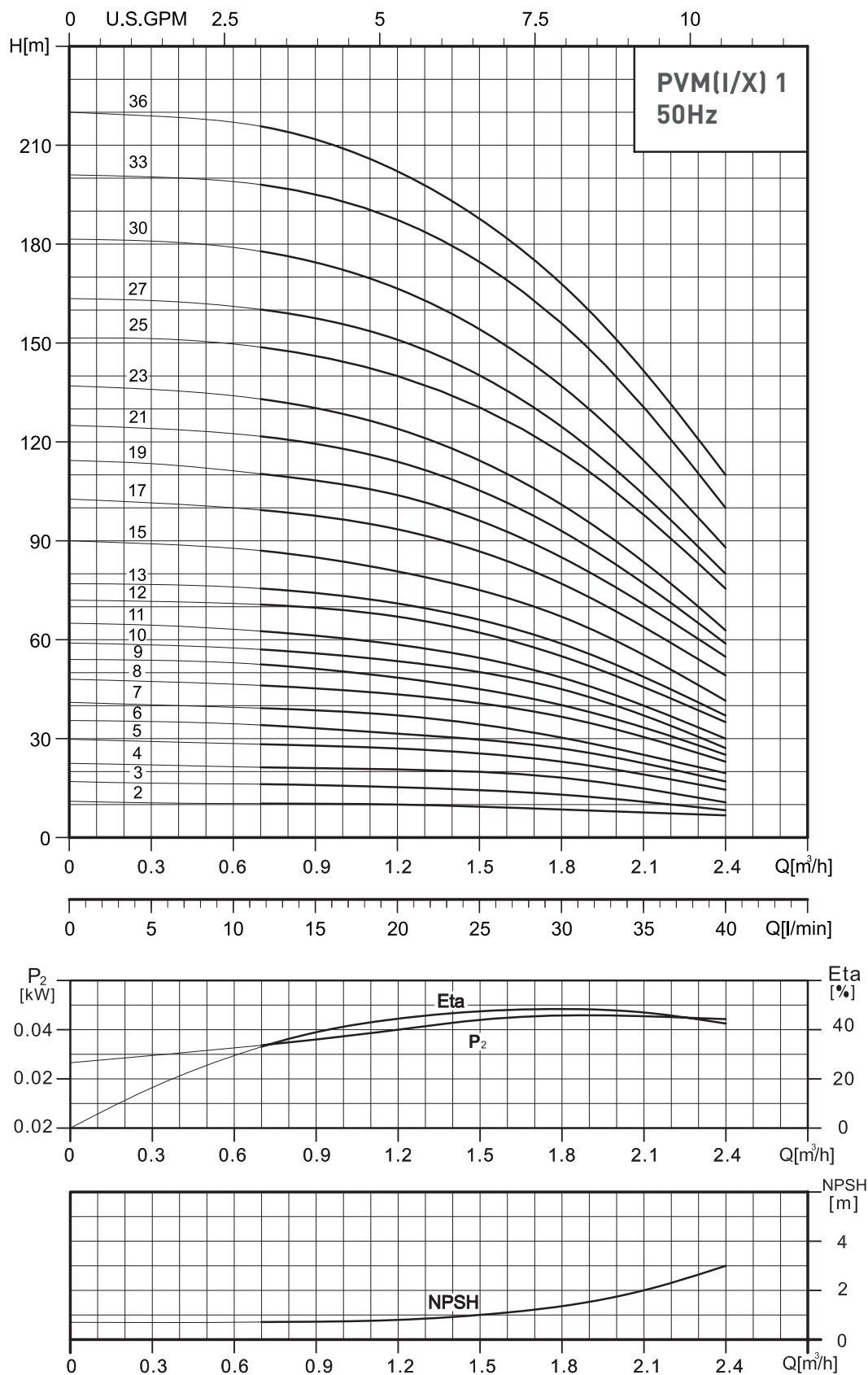
## SURFACE PUMPS - VERTICAL MULTISTAGE

| N. stages                | Operating pressure max. | N. stages    | Input pressure max. |
|--------------------------|-------------------------|--------------|---------------------|
| <b>PVM/PVMI/PVMX 1</b>   |                         |              |                     |
| 2 ... 36                 | 25 bar                  | 2 ... 36     | 10 bar              |
| <b>PVM/PVMI/PVMX 3</b>   |                         |              |                     |
| 2 ... 36                 | 25 bar                  | 2 ... 29     | 10 bar              |
|                          |                         | 31 ... 36    | 15 bar              |
| <b>PVM/PVMI/PVMX 5</b>   |                         |              |                     |
| 2 ... 36                 | 25 bar                  | 2 ... 16     | 10 bar              |
|                          |                         | 18 ... 36    | 15 bar              |
| <b>PVM/PVMI/PVMX 10</b>  |                         |              |                     |
| 1 ... 16                 | 16 bar                  | 1 ... 6      | 8 bar               |
| 18 ... 22                | 25 bar                  | 7 ... 22     | 10 bar              |
| <b>PVM/PVMI/PVMX 15</b>  |                         |              |                     |
| 1 ... 10                 | 16 bar                  | 1 ... 3      | 8 bar               |
| 12 ... 17                | 25 bar                  | 4 ... 17     | 10 bar              |
| <b>PVM/PVMI/PVMX 20</b>  |                         |              |                     |
| 1 ... 10                 | 16 bar                  | 1 ... 3      | 8 bar               |
| 12 ... 17                | 25 bar                  | 4 ... 17     | 10 bar              |
| <b>PVM/PVMI/PVMX 32</b>  |                         |              |                     |
| 1-1 ... 7                | 16 bar                  | 1-1 ... 4    | 4 bar               |
| 8-2 ... 14               | 30 bar                  | 5-2 ... 10   | 10 bar              |
|                          |                         | 11-2 ... 14  | 15 bar              |
| <b>PVM/PVMI/PVMX 45</b>  |                         |              |                     |
| 1-1 ... 5                | 16 bar                  | 1-1 ... 2-2  | 4 bar               |
| 6-2 ... 11               | 30 bar                  | 3-2 ... 5    | 10 bar              |
| 12-2 ... 13-2            | 33 bar                  | 6-2 ... 13-2 | 15 bar              |
| <b>PVM/PVMI/PVMX 64</b>  |                         |              |                     |
| 1-1 ... 5                | 16 bar                  | 1-1 ... 2-2  | 4 bar               |
| 6-2 ... 8-1              | 30 bar                  | 2-1 ... 4-2  | 10 bar              |
|                          |                         | 4-1 ... 8-1  | 15 bar              |
| <b>PVM/PVMI/PVMX 90</b>  |                         |              |                     |
| 1-1 ... 4                | 16 bar                  | 1-1          | 4 bar               |
| 5-2 ... 6                | 30 bar                  | 2-2 ... 3-2  | 10 bar              |
|                          |                         | 3 ... 6      | 15 bar              |
| <b>PVM/PVMI/PVMX 120</b> |                         |              |                     |
| 1 ... 7                  | 30 bar                  | 1 ... 2-1    | 10 bar              |
|                          |                         | 2 ... 5-1    | 15 bar              |
|                          |                         | 6-1 ... 7    | 20 bar              |
| <b>PVM/PVMI/PVMX 150</b> |                         |              |                     |
| 1-1 ... 6                | 30 bar                  | 1-1          | 10 bar              |
|                          |                         | 2-1 ... 4-1  | 15 bar              |
|                          |                         | 5-2 ... 6    | 20 bar              |

# PVM/PVMI/PVMX 1

SURFACE PUMPS - VERTICAL MULTISTAGE

## PERFORMANCE

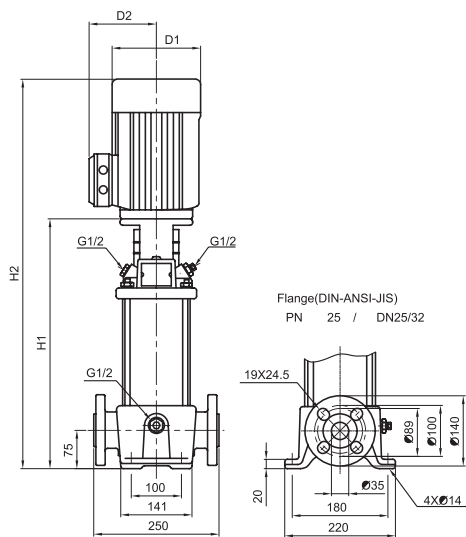


# PVM/PVMI/PVMX 1

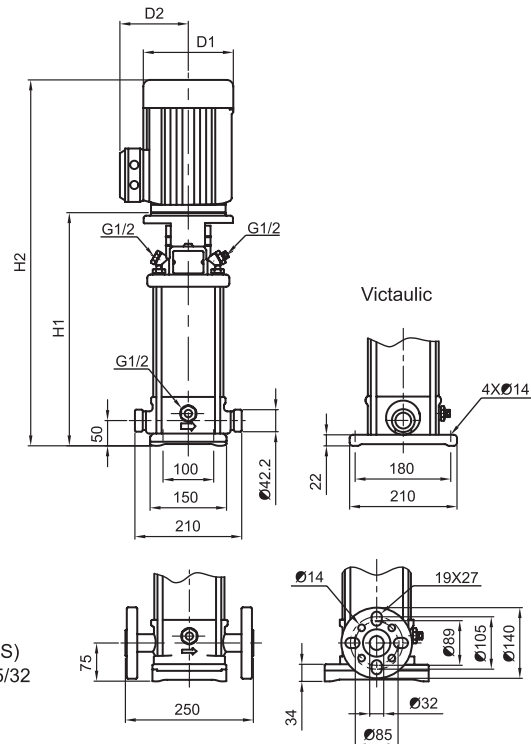
## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 1

| Dimensions [mm] |         |      |     |      |     |     | Dimensions [mm] |         |      |     |      |     |     |
|-----------------|---------|------|-----|------|-----|-----|-----------------|---------|------|-----|------|-----|-----|
| Type            | P2      | [kg] | H1  | H2   | D1  | D2  | Type            | P2      | [kg] | H1  | H2   | D1  | D2  |
| PVM 01-02       | 0.37 kW | 23.4 | 279 | 489  | 141 | 115 | PVMI/PVMX 01-25 | 1.5 kW  | 40.8 | 700 | 995  | 180 | 138 |
| PVM 01-03       | 0.37 kW | 23.4 | 279 | 489  | 141 | 115 | PVMI/PVMX 01-12 | 0.75 kW | 26.1 | 450 | 685  | 141 | 115 |
| PVM 01-04       | 0.37 kW | 23.8 | 297 | 507  | 141 | 115 | PVMI/PVMX 01-25 | 1.5 kW  | 40.8 | 700 | 995  | 180 | 138 |
| PVM 01-05       | 0.37 kW | 24.2 | 315 | 525  | 141 | 115 | PVMI/PVMX 01-15 | 0.75 kW | 27.2 | 504 | 739  | 141 | 115 |
| PVM 01-06       | 0.37 kW | 24.5 | 333 | 543  | 141 | 115 | PVMI/PVMX 01-09 | 0.55 kW | 23   | 390 | 600  | 141 | 115 |
| PVM 01-07       | 0.37 kW | 24.9 | 351 | 561  | 141 | 115 | PVMI/PVMX 01-10 | 0.55 kW | 23.3 | 408 | 618  | 141 | 115 |
| PVM 01-08       | 0.55 kW | 25.8 | 369 | 579  | 141 | 115 | PVMI/PVMX 01-06 | 0.37 kW | 21.4 | 336 | 546  | 141 | 115 |
| PVM 01-09       | 0.55 kW | 26.1 | 387 | 597  | 141 | 115 | PVMI/PVMX 01-30 | 1.5 kW  | 42.6 | 790 | 1085 | 180 | 138 |
| PVM 01-10       | 0.55 kW | 26.5 | 405 | 615  | 141 | 115 | PVMI/PVMX 01-08 | 0.55 kW | 22.6 | 372 | 582  | 141 | 115 |
| PVM 01-11       | 0.55 kW | 26.9 | 423 | 633  | 141 | 115 | PVMI/PVMX 01-17 | 1.1 kW  | 29.1 | 540 | 775  | 141 | 115 |
| PVM 01-12       | 0.75 kW | 29.4 | 447 | 682  | 141 | 115 | PVMI/PVMX 01-10 | 0.55 kW | 23.3 | 408 | 618  | 141 | 115 |
| PVM 01-13       | 0.75 kW | 29.8 | 465 | 700  | 141 | 115 | PVMI/PVMX 01-02 | 0.37 kW | 20.2 | 282 | 492  | 141 | 115 |
| PVM 01-15       | 0.75 kW | 30.5 | 501 | 736  | 141 | 115 | PVMI/PVMX 01-17 | 1.1 kW  | 29.1 | 540 | 775  | 141 | 115 |
| PVM 01-17       | 1.1 kW  | 32.3 | 537 | 772  | 141 | 115 | PVMI/PVMX 01-06 | 0.37 kW | 21.4 | 336 | 546  | 141 | 115 |
| PVM 01-19       | 1.1 kW  | 33.1 | 573 | 808  | 141 | 115 | PVMI/PVMX 01-03 | 0.37 kW | 20.3 | 282 | 492  | 141 | 115 |
| PVM 01-21       | 1.1 kW  | 33.8 | 609 | 844  | 141 | 115 | PVMI/PVMX 01-07 | 0.37 kW | 21.7 | 354 | 564  | 141 | 115 |
| PVM 01-23       | 1.1 kW  | 34.6 | 645 | 880  | 141 | 115 | PVMI/PVMX 01-11 | 0.55 kW | 23.7 | 426 | 636  | 141 | 115 |
| PVM 01-25       | 1.5 kW  | 44   | 697 | 992  | 180 | 138 | PVMI/PVMX 01-19 | 1.1 kW  | 29.8 | 576 | 811  | 141 | 115 |
| PVM 01-27       | 1.5 kW  | 44.8 | 733 | 1028 | 180 | 138 | PVMI/PVMX 01-03 | 0.37 kW | 20.3 | 282 | 492  | 141 | 115 |
| PVM 01-30       | 1.5 kW  | 45.9 | 787 | 1082 | 180 | 138 | PVMI/PVMX 01-33 | 2.2 kW  | 46.6 | 844 | 1139 | 180 | 138 |
| PVM 01-33       | 2.2 kW  | 49.9 | 841 | 1136 | 180 | 138 | PVMI/PVMX 01-13 | 0.75 kW | 26.5 | 468 | 703  | 141 | 115 |
| PVM 01-36       | 2.2 kW  | 51   | 895 | 1190 | 180 | 138 | PVMI/PVMX 01-05 | 0.37 kW | 21   | 318 | 528  | 141 | 115 |



Flange(DIN-ANSI-JIS)  
PN 25 / DN25/32

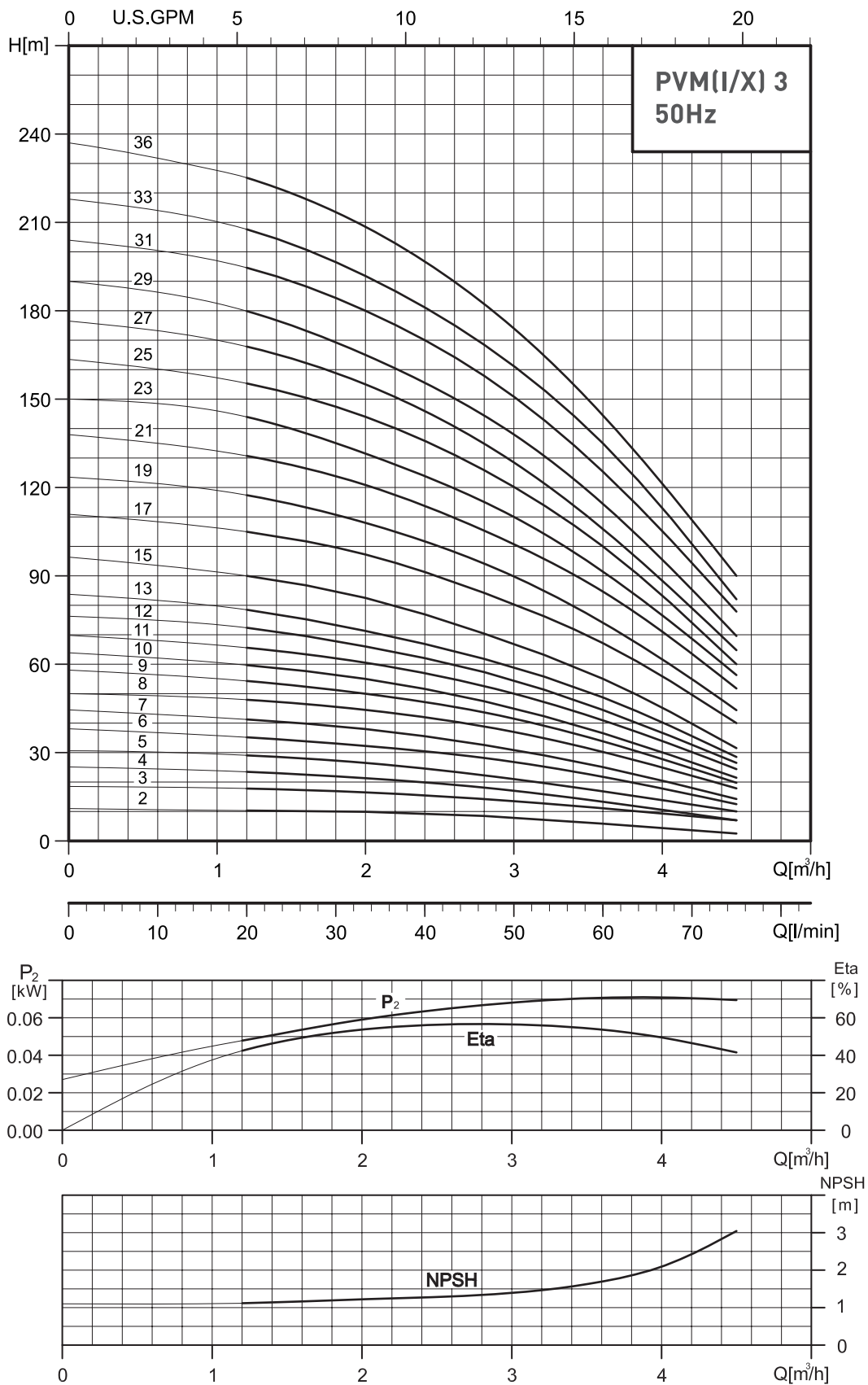


Victaulic

# PVM/PVMI/PVMX 3

SURFACE PUMPS - VERTICAL MULTISTAGE

## PERFORMANCE

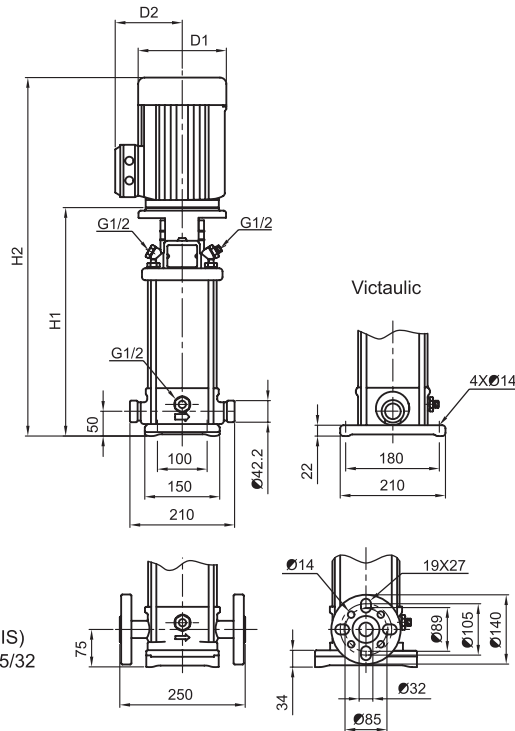
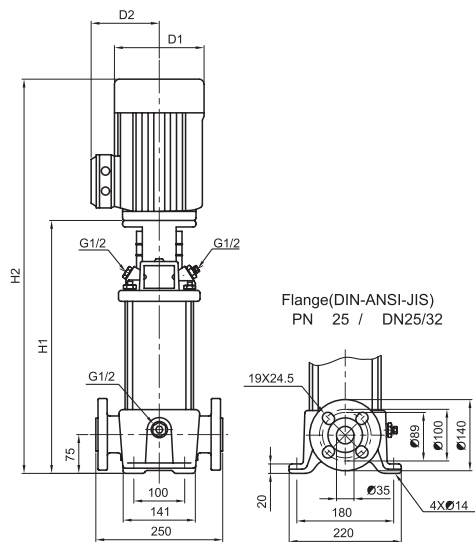


# PVM/PVMI/PVMX 3

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 3

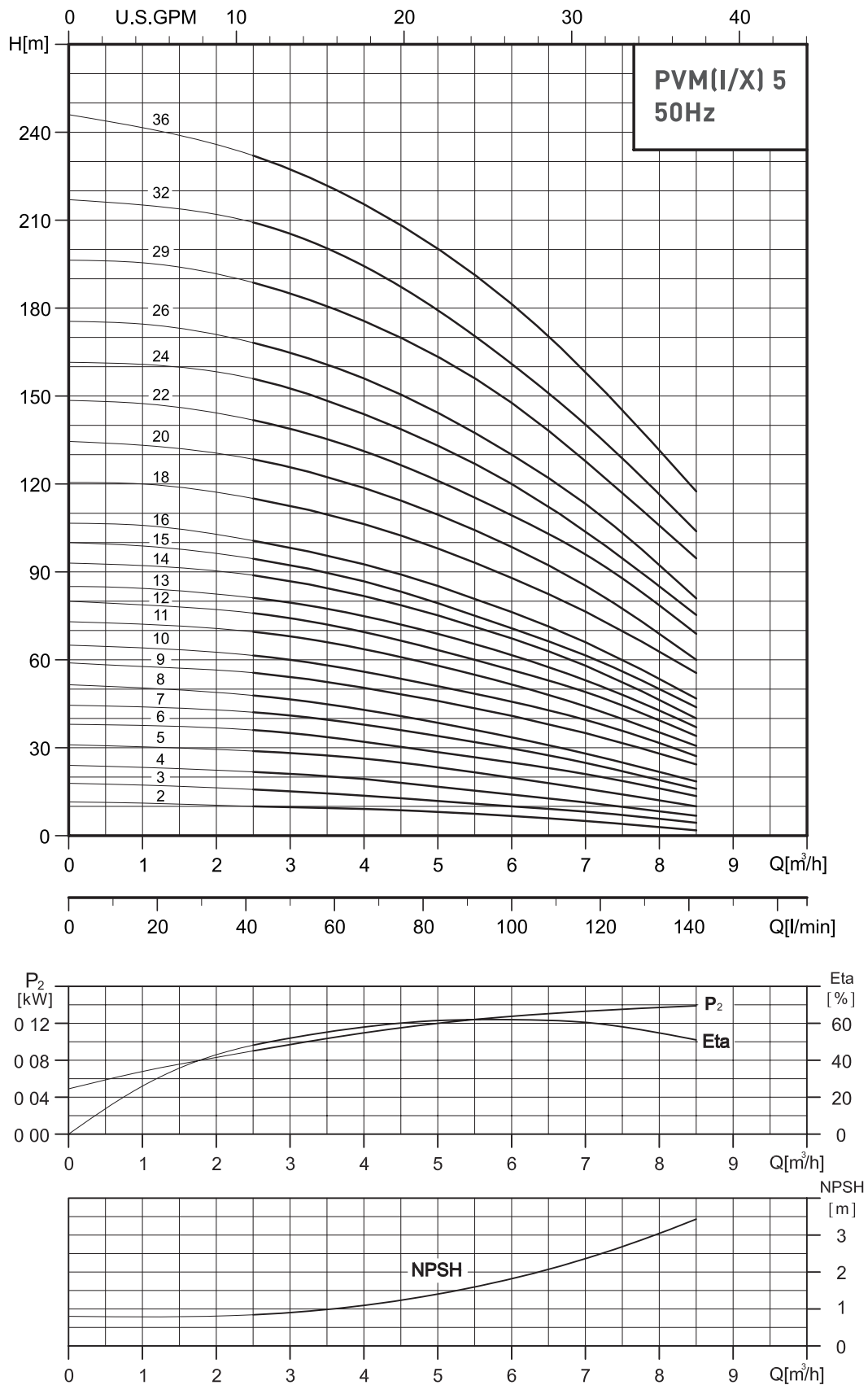
| Dimensions [mm] |         |      |     |      |     |     | Dimensions [mm] |         |      |     |      |     |     |
|-----------------|---------|------|-----|------|-----|-----|-----------------|---------|------|-----|------|-----|-----|
| Type            | P2      | [kg] | H1  | H2   | D1  | D2  | Type            | P2      | [kg] | H1  | H2   | D1  | D2  |
| PVM 03-02       | 0.37 kW | 23.4 | 279 | 489  | 141 | 115 | PVMI/PVMX 03-02 | 0.37 kW | 20.2 | 282 | 492  | 141 | 115 |
| PVM 03-03       | 0.37 kW | 23.4 | 279 | 489  | 141 | 115 | PVMI/PVMX 03-03 | 0.37 kW | 20.3 | 282 | 492  | 141 | 115 |
| PVM 03-04       | 0.37 kW | 23.8 | 297 | 507  | 141 | 115 | PVMI/PVMX 03-04 | 0.37 kW | 20.6 | 300 | 510  | 141 | 115 |
| PVM 03-05       | 0.37 kW | 24.2 | 315 | 525  | 141 | 115 | PVMI/PVMX 03-05 | 0.37 kW | 21   | 318 | 528  | 141 | 115 |
| PVM 03-06       | 0.55 kW | 25   | 333 | 543  | 141 | 115 | PVMI/PVMX 03-06 | 0.55 kW | 21.9 | 336 | 546  | 141 | 115 |
| PVM 03-07       | 0.55 kW | 25.4 | 351 | 561  | 141 | 115 | PVMI/PVMX 03-07 | 0.55 kW | 22.2 | 354 | 564  | 141 | 115 |
| PVM 03-08       | 0.75 kW | 27.9 | 375 | 610  | 141 | 115 | PVMI/PVMX 03-08 | 0.75 kW | 24.6 | 378 | 613  | 141 | 115 |
| PVM 03-09       | 0.75 kW | 28.3 | 393 | 628  | 141 | 115 | PVMI/PVMX 03-09 | 0.75 kW | 25   | 396 | 631  | 141 | 115 |
| PVM 03-10       | 0.75 kW | 28.7 | 411 | 646  | 141 | 115 | PVMI/PVMX 03-10 | 0.75 kW | 25.4 | 414 | 649  | 141 | 115 |
| PVM 03-11       | 1.1 kW  | 30.2 | 429 | 664  | 177 | 141 | PVMI/PVMX 03-11 | 1.1 kW  | 26.9 | 432 | 667  | 141 | 115 |
| PVM 03-12       | 1.1 kW  | 30.5 | 447 | 682  | 177 | 141 | PVMI/PVMX 03-12 | 1.1 kW  | 27.2 | 450 | 685  | 141 | 115 |
| PVM 03-13       | 1.1 kW  | 30.9 | 465 | 700  | 177 | 141 | PVMI/PVMX 03-13 | 1.1 kW  | 27.6 | 468 | 703  | 141 | 115 |
| PVM 03-15       | 1.1 kW  | 31.6 | 501 | 736  | 141 | 115 | PVMI/PVMX 03-15 | 1.1 kW  | 28.3 | 504 | 739  | 141 | 115 |
| PVM 03-17       | 1.5 kW  | 41   | 553 | 848  | 180 | 138 | PVMI/PVMX 03-17 | 1.5 kW  | 37.8 | 556 | 851  | 177 | 141 |
| PVM 03-19       | 1.5 kW  | 41.8 | 589 | 884  | 180 | 138 | PVMI/PVMX 03-19 | 1.5 kW  | 38.5 | 592 | 887  | 177 | 141 |
| PVM 03-21       | 2.2 kW  | 45.3 | 625 | 920  | 180 | 138 | PVMI/PVMX 03-21 | 2.2 kW  | 42.1 | 628 | 923  | 177 | 141 |
| PVM 03-23       | 2.2 kW  | 46.1 | 661 | 956  | 180 | 138 | PVMI/PVMX 03-23 | 2.2 kW  | 42.9 | 664 | 959  | 177 | 141 |
| PVM 03-25       | 2.2 kW  | 46.8 | 697 | 992  | 180 | 138 | PVMI/PVMX 03-25 | 2.2 kW  | 43.6 | 700 | 995  | 177 | 141 |
| PVM 03-27       | 2.2 kW  | 47.6 | 733 | 1028 | 180 | 138 | PVMI/PVMX 03-27 | 2.2 kW  | 44.3 | 736 | 1031 | 177 | 141 |
| PVM 03-29       | 2.2 kW  | 48.3 | 769 | 1064 | 180 | 138 | PVMI/PVMX 03-29 | 2.2 kW  | 45.1 | 772 | 1067 | 177 | 141 |
| PVM 03-31       | 3 kW    | 56.6 | 809 | 1125 | 194 | 145 | PVMI/PVMX 03-31 | 3 kW    | 53   | 812 | 1128 | 197 | 147 |
| PVM 03-33       | 3 kW    | 57.4 | 845 | 1161 | 194 | 145 | PVMI/PVMX 03-33 | 3 kW    | 53.7 | 848 | 1164 | 197 | 147 |
| PVM 03-36       | 3 kW    | 58.5 | 899 | 1215 | 194 | 145 | PVMI/PVMX 03-36 | 3 kW    | 54.8 | 902 | 1218 | 197 | 147 |



# PVM/PVMI/PVMX 5

SURFACE PUMPS - VERTICAL MULTISTAGE

## PERFORMANCE





## SURFACE PUMPS - VERTICAL MULTISTAGE

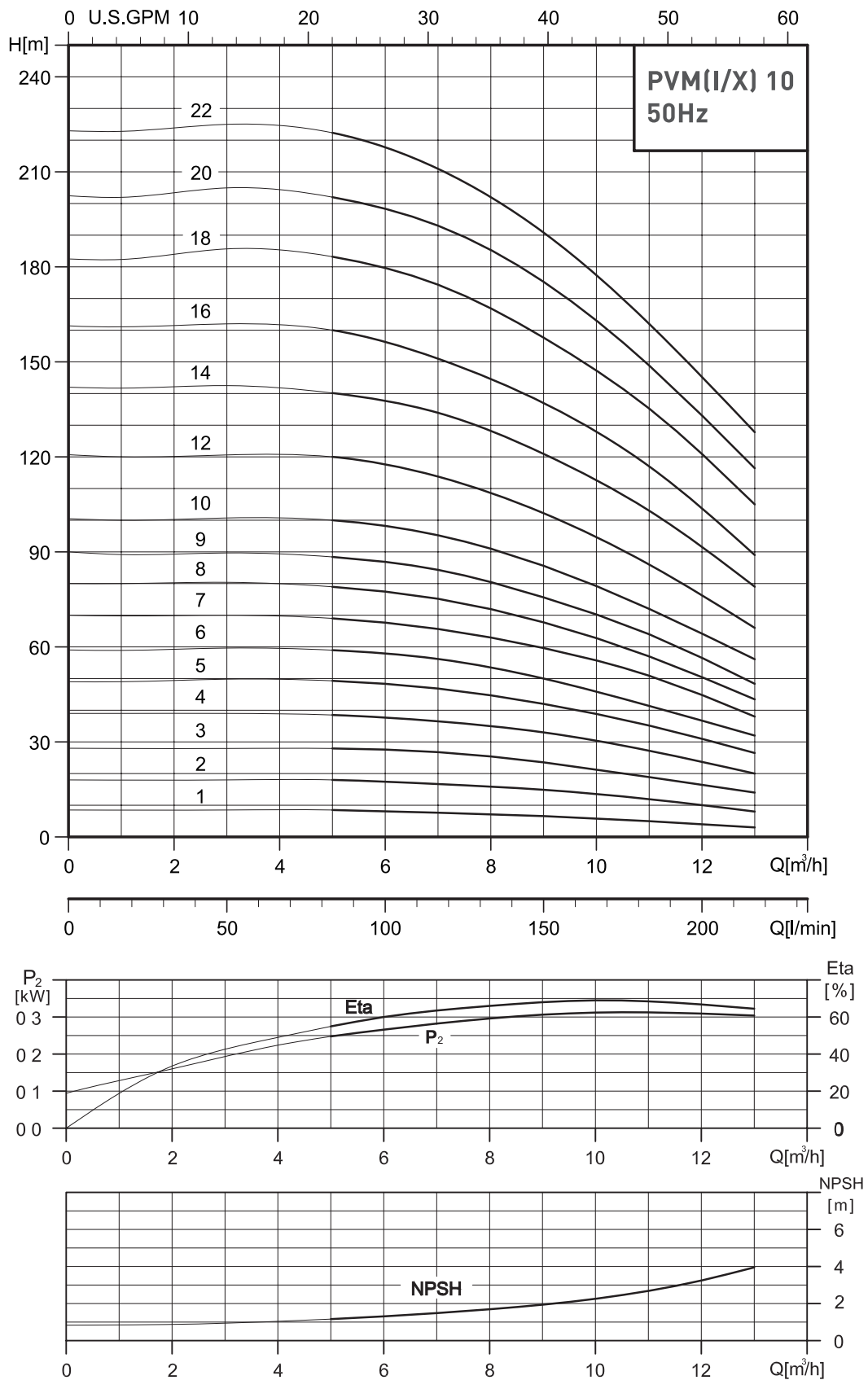
| Dimensions [mm] |         |      |      |      |     |     |     | Dimensions [mm] |         |      |      |      |     |     |     |
|-----------------|---------|------|------|------|-----|-----|-----|-----------------|---------|------|------|------|-----|-----|-----|
| Type            | P2      | [kg] | H1   | H2   | D1  | D2  | D3  | Type            | P2      | [kg] | H1   | H2   | D1  | D2  | D3  |
| PVM 05-02       | 0.37 kW | 23.3 | 279  | 489  | 141 | 115 |     | PVMI/PVMX 05-02 | 0.37 kW | 20.1 | 282  | 492  | 141 | 115 |     |
| PVM 05-03       | 0.55 kW | 24.2 | 306  | 516  | 141 | 115 |     | PVMI/PVMX 05-03 | 0.55 kW | 21.2 | 309  | 519  | 141 | 115 |     |
| PVM 05-04       | 0.55 kW | 24.8 | 333  | 543  | 141 | 115 |     | PVMI/PVMX 05-04 | 0.55 kW | 21.8 | 336  | 546  | 141 | 115 |     |
| PVM 05-05       | 0.75 kW | 27.4 | 366  | 601  | 141 | 115 |     | PVMI/PVMX 05-05 | 0.75 kW | 24.3 | 369  | 604  | 141 | 115 |     |
| PVM 05-06       | 1.1 kW  | 29.1 | 393  | 628  | 141 | 115 |     | PVMI/PVMX 05-06 | 1.1 kW  | 26   | 396  | 631  | 141 | 115 |     |
| PVM 05-07       | 1.1 kW  | 29.6 | 420  | 655  | 141 | 115 |     | PVMI/PVMX 05-07 | 1.1 kW  | 26.5 | 423  | 658  | 141 | 115 |     |
| PVM 05-08       | 1.1 kW  | 30.1 | 447  | 682  | 141 | 115 |     | PVMI/PVMX 05-08 | 1.1 kW  | 27.1 | 450  | 685  | 141 | 115 |     |
| PVM 05-09       | 1.5 kW  | 39.3 | 490  | 785  | 180 | 138 |     | PVMI/PVMX 05-09 | 1.5 kW  | 36.4 | 493  | 788  | 180 | 138 |     |
| PVM 05-10       | 1.5 kW  | 39.9 | 517  | 812  | 180 | 138 |     | PVMI/PVMX 05-10 | 1.5 kW  | 36.9 | 520  | 815  | 180 | 138 |     |
| PVM 05-11       | 2.2 kW  | 43.2 | 544  | 839  | 180 | 138 |     | PVMI/PVMX 05-11 | 2.2 kW  | 40.3 | 547  | 842  | 180 | 138 |     |
| PVM 05-12       | 2.2 kW  | 43.7 | 571  | 866  | 180 | 138 |     | PVMI/PVMX 05-12 | 2.2 kW  | 40.8 | 574  | 869  | 180 | 138 |     |
| PVM 05-13       | 2.2 kW  | 44.2 | 598  | 893  | 180 | 138 |     | PVMI/PVMX 05-13 | 2.2 kW  | 41.4 | 601  | 896  | 180 | 138 |     |
| PVM 05-14       | 2.2 kW  | 44.8 | 625  | 920  | 180 | 138 |     | PVMI/PVMX 05-14 | 2.2 kW  | 41.9 | 628  | 923  | 180 | 138 |     |
| PVM 05-15       | 2.2 kW  | 45.2 | 652  | 947  | 180 | 138 |     | PVMI/PVMX 05-15 | 2.2 kW  | 42.5 | 655  | 950  | 180 | 138 |     |
| PVM 05-16       | 2.2 kW  | 45.8 | 679  | 974  | 180 | 138 |     | PVMI/PVMX 05-16 | 2.2 kW  | 43   | 682  | 977  | 180 | 138 |     |
| PVM 05-18       | 3 kW    | 54.3 | 737  | 1053 | 194 | 145 |     | PVMI/PVMX 05-18 | 3 kW    | 51.3 | 740  | 1056 | 194 | 145 |     |
| PVM 05-20       | 3 kW    | 55.5 | 791  | 1107 | 194 | 145 |     | PVMI/PVMX 05-20 | 3 kW    | 52.5 | 794  | 1110 | 194 | 145 |     |
| PVM 05-22       | 4 kW    | 59.8 | 845  | 1173 | 225 | 160 |     | PVMI/PVMX 05-22 | 4 kW    | 56.8 | 848  | 1176 | 225 | 160 |     |
| PVM 05-24       | 4 kW    | 60.8 | 899  | 1227 | 225 | 160 |     | PVMI/PVMX 05-24 | 4 kW    | 57.8 | 902  | 1230 | 225 | 160 |     |
| PVM 05-26       | 4 kW    | 62.7 | 953  | 1281 | 225 | 160 |     | PVMI/PVMX 05-26 | 4 kW    | 58.9 | 956  | 1284 | 225 | 160 |     |
| PVM 05-29       | 4 kW    | 64.6 | 1034 | 1362 | 225 | 160 |     | PVMI/PVMX 05-29 | 4 kW    | 60.6 | 1037 | 1365 | 225 | 160 |     |
| PVM 05-32       | 5.5 kW  | 90.1 | 1145 | 1510 | 248 | 194 | 300 | PVMI/PVMX 05-32 | 5.5 kW  | 85.8 | 1148 | 1513 | 248 | 194 | 300 |
| PVM 05-36       | 5.5 kW  | 92.6 | 1253 | 1618 | 248 | 194 | 300 | PVMI/PVMX 05-36 | 5.5 kW  | 88.1 | 1256 | 1621 | 248 | 194 | 300 |



# PVM/PVMI/PVMX 10

SURFACE PUMPS - VERTICAL MULTISTAGE

## PERFORMANCE

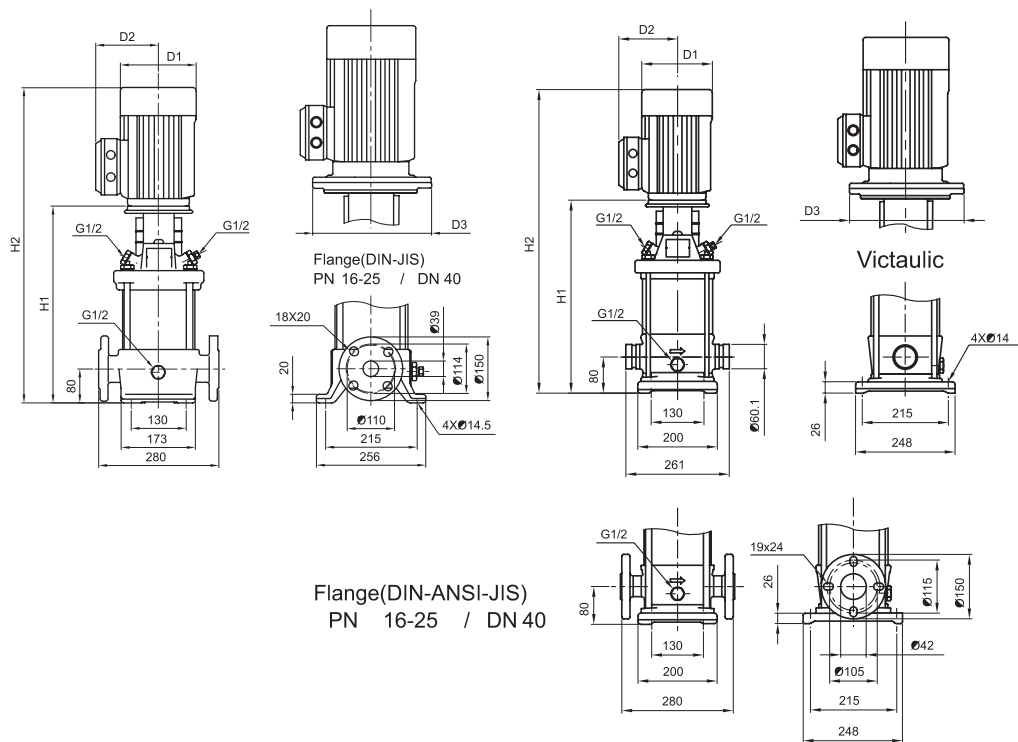


# PVM/PVMI/PVMX 10

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 10

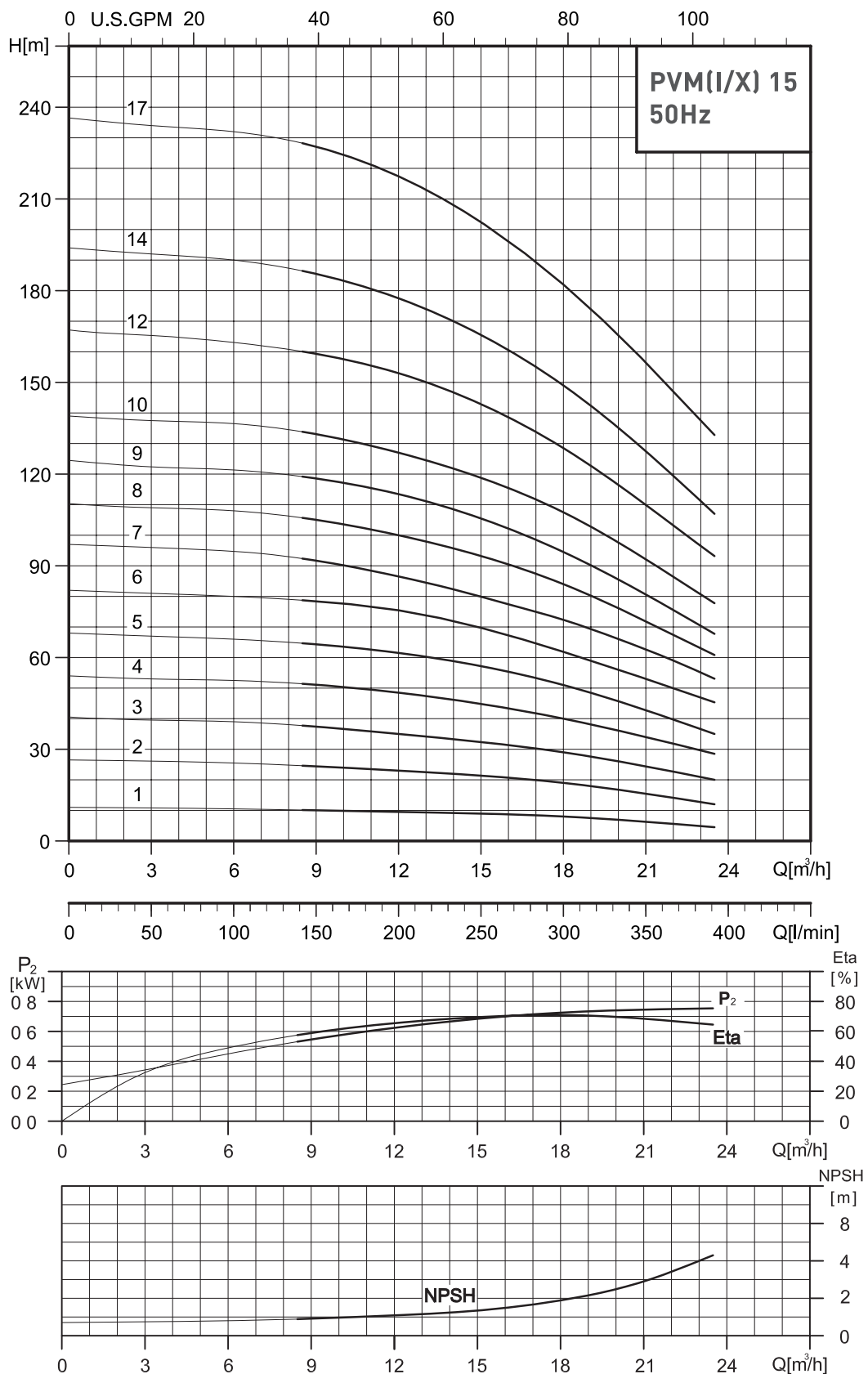
| Dimensions [mm] |         |       |      |      |     |     |     | Dimensions [mm] |         |       |      |      |     |     |     |
|-----------------|---------|-------|------|------|-----|-----|-----|-----------------|---------|-------|------|------|-----|-----|-----|
| Type            | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  | Type            | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  |
| PVM 10-01       | 0.37 kW | 35.9  | 343  | 553  | 141 | 115 |     | PVMI/PVMX 10-01 | 0.37 kW | 31.4  | 353  | 563  | 141 | 115 |     |
| PVM 10-02       | 0.75 kW | 38.2  | 347  | 582  | 141 | 115 |     | PVMI/PVMX 10-02 | 0.75 kW | 34.2  | 357  | 592  | 141 | 115 |     |
| PVM 10-03       | 1.1 kW  | 40.3  | 377  | 612  | 141 | 115 |     | PVMI/PVMX 10-03 | 1.1 kW  | 36.3  | 387  | 622  | 141 | 115 |     |
| PVM 10-04       | 1.5 kW  | 50.1  | 423  | 718  | 180 | 138 |     | PVMI/PVMX 10-04 | 1.5 kW  | 46    | 433  | 728  | 180 | 138 |     |
| PVM 10-05       | 2.2 kW  | 53.9  | 453  | 748  | 180 | 138 |     | PVMI/PVMX 10-05 | 2.2 kW  | 49.8  | 463  | 758  | 180 | 138 |     |
| PVM 10-06       | 2.2 kW  | 55    | 483  | 778  | 180 | 138 |     | PVMI/PVMX 10-06 | 2.2 kW  | 50.8  | 493  | 758  | 180 | 138 |     |
| PVM 10-07       | 3 kW    | 63.8  | 518  | 834  | 194 | 145 |     | PVMI/PVMX 10-07 | 3 kW    | 58.9  | 528  | 844  | 194 | 145 |     |
| PVM 10-08       | 3 kW    | 64.9  | 548  | 864  | 194 | 145 |     | PVMI/PVMX 10-08 | 3 kW    | 60    | 558  | 874  | 194 | 145 |     |
| PVM 10-09       | 3 kW    | 65.9  | 578  | 894  | 194 | 145 |     | PVMI/PVMX 10-09 | 3 kW    | 61    | 588  | 904  | 194 | 145 |     |
| PVM 10-10       | 4 kW    | 70.3  | 608  | 936  | 225 | 160 |     | PVMI/PVMX 10-10 | 4 kW    | 65.4  | 618  | 946  | 225 | 160 |     |
| PVM 10-12       | 4 kW    | 72.4  | 668  | 996  | 225 | 160 |     | PVMI/PVMX 10-12 | 4 kW    | 67.5  | 678  | 1006 | 225 | 160 |     |
| PVM 10-14       | 5.5 kW  | 104.1 | 760  | 1125 | 248 | 194 | 300 | PVMI/PVMX 10-14 | 5.5 kW  | 100.3 | 770  | 1135 | 248 | 194 | 300 |
| PVM 10-16       | 5.5 kW  | 106.2 | 820  | 1185 | 248 | 194 | 300 | PVMI/PVMX 10-16 | 5.5 kW  | 102.4 | 830  | 1195 | 248 | 194 | 300 |
| PVM 10-18       | 7.5 kW  | 113.6 | 880  | 1265 | 248 | 194 | 300 | PVMI/PVMX 10-18 | 7.5 kW  | 110.8 | 890  | 1275 | 248 | 194 | 300 |
| PVM 10-20       | 7.5 kW  | 116.7 | 940  | 1325 | 248 | 194 | 300 | PVMI/PVMX 10-20 | 7.5 kW  | 112.8 | 950  | 1335 | 248 | 194 | 300 |
| PVM 10-22       | 7.5 kW  | 118.8 | 1000 | 1385 | 248 | 194 | 300 | PVMI/PVMX 10-22 | 7.5 kW  | 114.9 | 1010 | 1395 | 248 | 194 | 300 |



# PVM/PVMI/PVMX 15

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PERFORMANCE

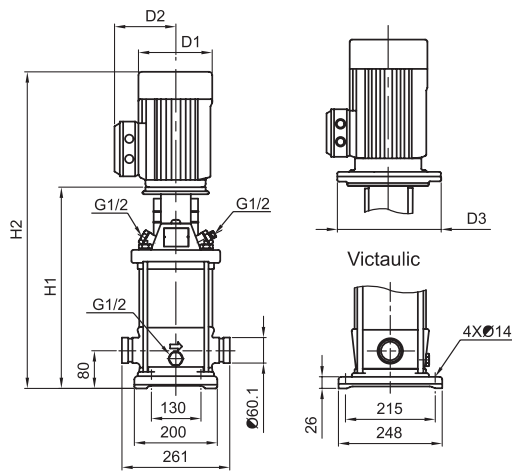
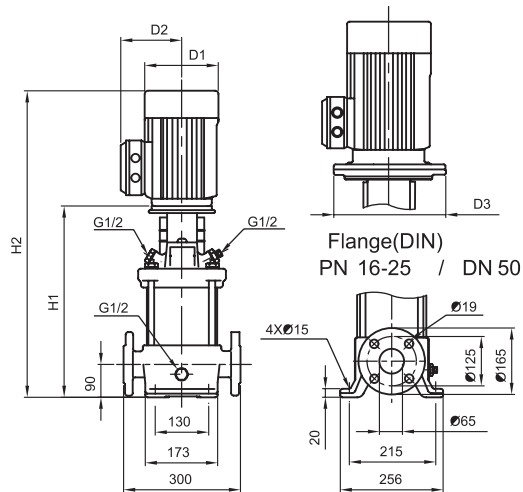


# PVM/PVMI/PVMX 15

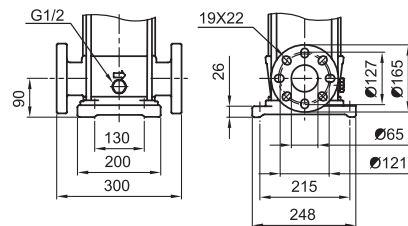
## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 15

| Dimensions [mm] |        |       |      |      |     |     |     | Dimensions [mm] |        |       |      |      |     |     |     |
|-----------------|--------|-------|------|------|-----|-----|-----|-----------------|--------|-------|------|------|-----|-----|-----|
| Type            | P2     | [kg]  | H1   | H2   | D1  | D2  | D3  | Type            | P2     | [kg]  | H1   | H2   | D1  | D2  | D3  |
| PVM 15-01       | 1.1 kW | 43.8  | 400  | 635  | 141 | 115 |     | PVMI/PVMX 15-01 | 1.1 kW | 36.6  | 397  | 632  | 141 | 115 |     |
| PVM 15-02       | 2.2 kW | 55.7  | 415  | 710  | 180 | 138 |     | PVMI/PVMX 15-02 | 2.2 kW | 48.3  | 413  | 708  | 180 | 138 |     |
| PVM 15-03       | 3 kW   | 64.9  | 465  | 781  | 194 | 145 |     | PVMI/PVMX 15-03 | 3 kW   | 56.7  | 463  | 779  | 194 | 145 |     |
| PVM 15-04       | 4 kW   | 69.7  | 510  | 838  | 225 | 160 |     | PVMI/PVMX 15-04 | 4 kW   | 61.6  | 508  | 836  | 225 | 160 |     |
| PVM 15-05       | 4 kW   | 71.2  | 555  | 883  | 225 | 160 |     | PVMI/PVMX 15-05 | 4 kW   | 63    | 553  | 881  | 225 | 160 |     |
| PVM 15-06       | 5.5 kW | 102.3 | 632  | 997  | 248 | 194 | 300 | PVMI/PVMX 15-06 | 5.5 kW | 95.3  | 630  | 995  | 248 | 194 | 300 |
| PVM 15-07       | 5.5 kW | 103.8 | 677  | 1042 | 248 | 194 | 300 | PVMI/PVMX 15-07 | 5.5 kW | 96.7  | 675  | 1040 | 248 | 194 | 300 |
| PVM 15-08       | 7.5 kW | 111.8 | 722  | 1107 | 248 | 194 | 300 | PVMI/PVMX 15-08 | 7.5 kW | 104.7 | 720  | 1105 | 248 | 194 | 300 |
| PVM 15-09       | 7.5 kW | 113.3 | 767  | 1152 | 248 | 194 | 300 | PVMI/PVMX 15-09 | 7.5 kW | 106.2 | 765  | 1150 | 248 | 194 | 300 |
| PVM 15-10       | 11 kW  | 150   | 889  | 1387 | 317 | 238 | 350 | PVMI/PVMX 15-10 | 11 kW  | 143.3 | 887  | 1385 | 317 | 238 | 350 |
| PVM 15-12       | 11 kW  | 153   | 979  | 1477 | 317 | 238 | 350 | PVMI/PVMX 15-12 | 11 kW  | 146.2 | 977  | 1475 | 317 | 238 | 350 |
| PVM 15-14       | 11 kW  | 156.3 | 1069 | 1567 | 317 | 238 | 350 | PVMI/PVMX 15-14 | 11 kW  | 149.1 | 1067 | 1565 | 317 | 238 | 350 |
| PVM 15-17       | 15 kW  | 171.5 | 1204 | 1702 | 317 | 238 | 350 | PVMI/PVMX 15-17 | 15 kW  | 163.5 | 1202 | 1700 | 317 | 238 | 350 |



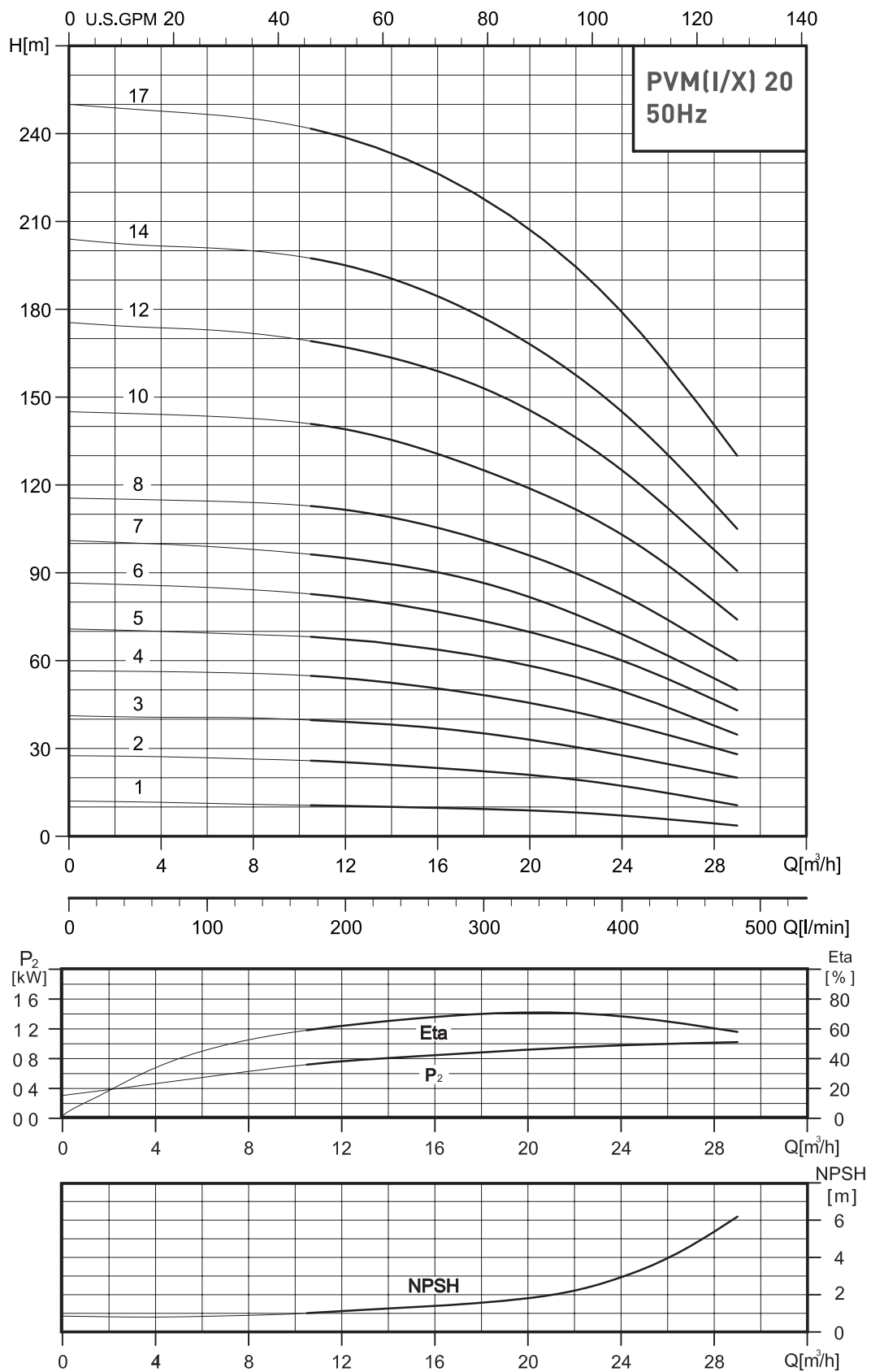
Flange(DIN-ANSI-JIS)  
PN 16-25 / DN 50



# PVM/PVMI/PVMX 20

SURFACE PUMPS - VERTICAL MULTISTAGE

## PERFORMANCE

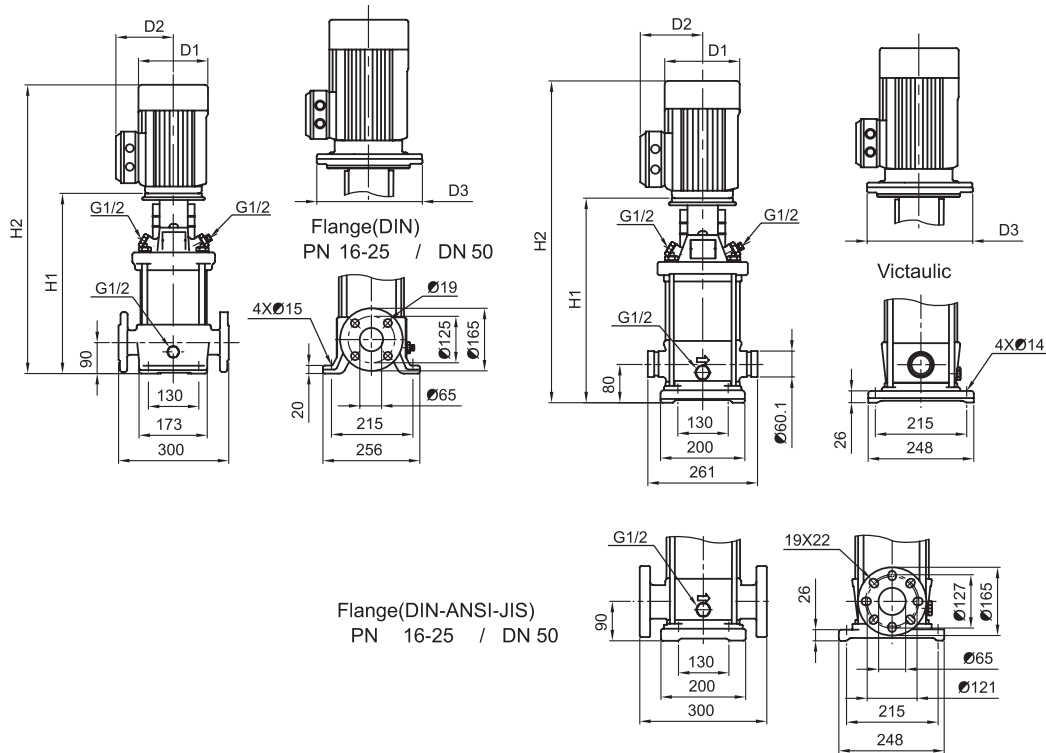


# PVM/PVMI/PVMX 20

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 20

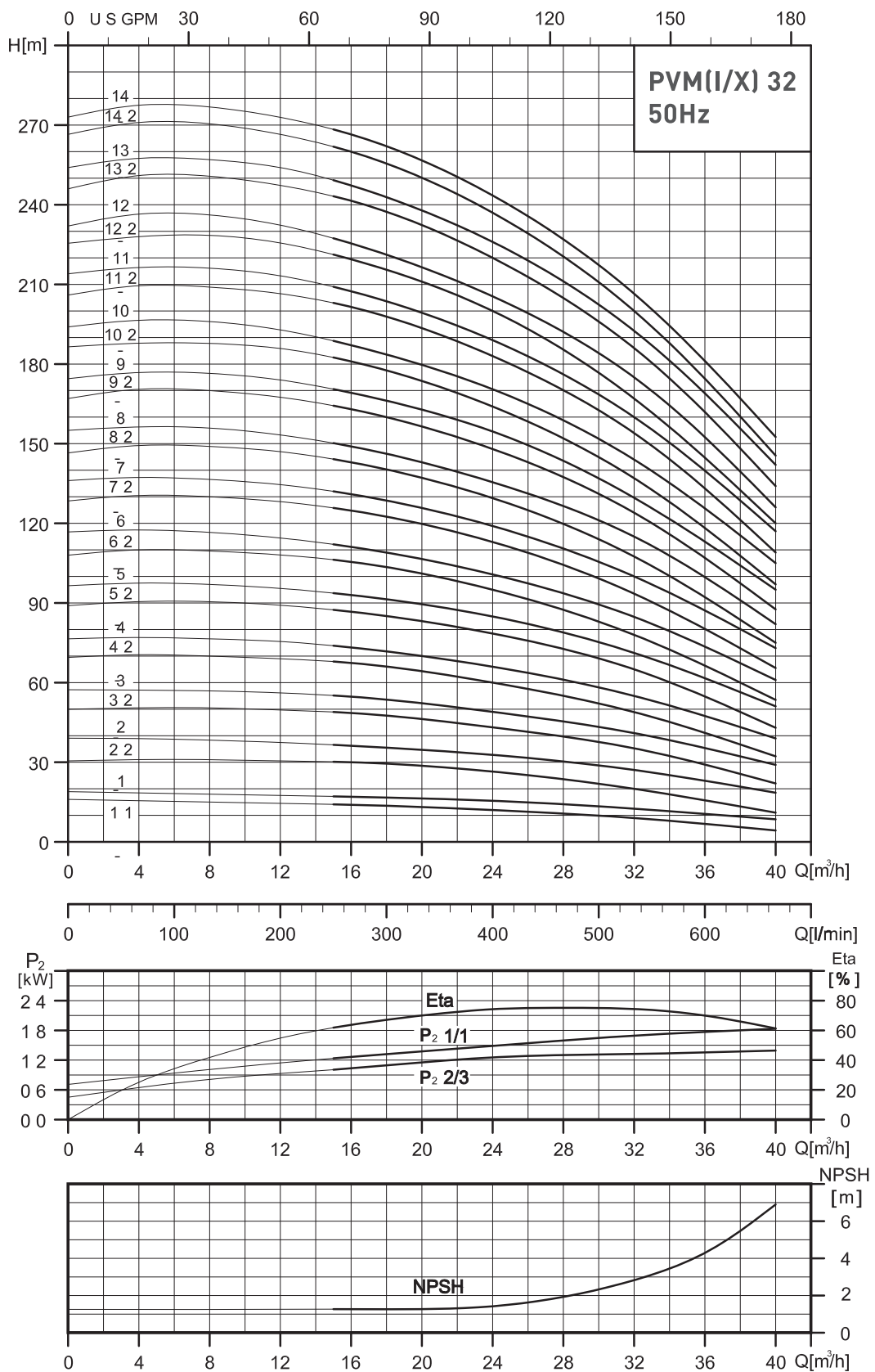
| Dimensions [mm] |         |       |      |      |     |     |     | Dimensions [mm] |         |       |      |      |     |     |     |
|-----------------|---------|-------|------|------|-----|-----|-----|-----------------|---------|-------|------|------|-----|-----|-----|
| Type            | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  | Type            | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  |
| PVM 20-01       | 1.1 kW  | 43.9  | 400  | 635  | 141 | 115 |     | PVMI/PVMX 20-01 | 1.1 kW  | 36.6  | 397  | 632  | 141 | 115 |     |
| PVM 20-02       | 2.2 kW  | 55.7  | 415  | 710  | 180 | 138 |     | PVMI/PVMX 20-02 | 2.2 kW  | 48.3  | 413  | 708  | 180 | 138 |     |
| PVM 20-03       | 4 kW    | 68.3  | 465  | 793  | 225 | 160 |     | PVMI/PVMX 20-03 | 4 kW    | 60.2  | 463  | 791  | 225 | 160 |     |
| PVM 20-04       | 5.5 kW  | 99.4  | 542  | 907  | 248 | 194 | 300 | PVMI/PVMX 20-04 | 5.5 kW  | 92.3  | 540  | 905  | 248 | 194 | 300 |
| PVM 20-05       | 5.5 kW  | 100.8 | 587  | 952  | 248 | 194 | 300 | PVMI/PVMX 20-05 | 5.5 kW  | 93.8  | 585  | 950  | 248 | 194 | 300 |
| PVM 20-06       | 7.5 kW  | 108.6 | 632  | 1017 | 248 | 194 | 300 | PVMI/PVMX 20-06 | 7.5 kW  | 101.6 | 630  | 1015 | 248 | 194 | 300 |
| PVM 20-07       | 7.5 kW  | 110.1 | 677  | 1062 | 248 | 194 | 300 | PVMI/PVMX 20-07 | 7.5 kW  | 103   | 675  | 1060 | 248 | 194 | 300 |
| PVM 20-08       | 11 kW   | 147.1 | 799  | 1297 | 317 | 238 | 350 | PVMI/PVMX 20-08 | 11 kW   | 140.3 | 797  | 1295 | 317 | 238 | 350 |
| PVM 20-10       | 11 kW   | 150   | 889  | 1387 | 317 | 238 | 350 | PVMI/PVMX 20-10 | 11 kW   | 143.3 | 887  | 1385 | 317 | 238 | 350 |
| PVM 20-12       | 15 kW   | 163.1 | 979  | 1477 | 317 | 238 | 350 | PVMI/PVMX 20-12 | 15 kW   | 156.3 | 977  | 1475 | 317 | 238 | 350 |
| PVM 20-14       | 15 kW   | 166   | 1069 | 1567 | 317 | 238 | 350 | PVMI/PVMX 20-14 | 15 kW   | 159.2 | 1067 | 1565 | 317 | 238 | 350 |
| PVM 20-17       | 18.5 kW | 195.4 | 1204 | 1746 | 317 | 238 | 350 | PVMI/PVMX 20-17 | 18.5 kW | 188.5 | 1202 | 1744 | 317 | 238 | 350 |



# PVM/PVMI/PVMX 32

SURFACE PUMPS - VERTICAL MULTISTAGE

## PERFORMANCE



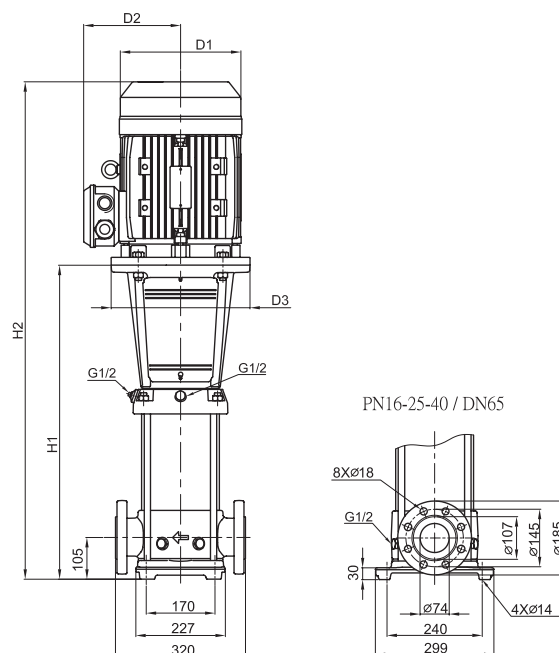
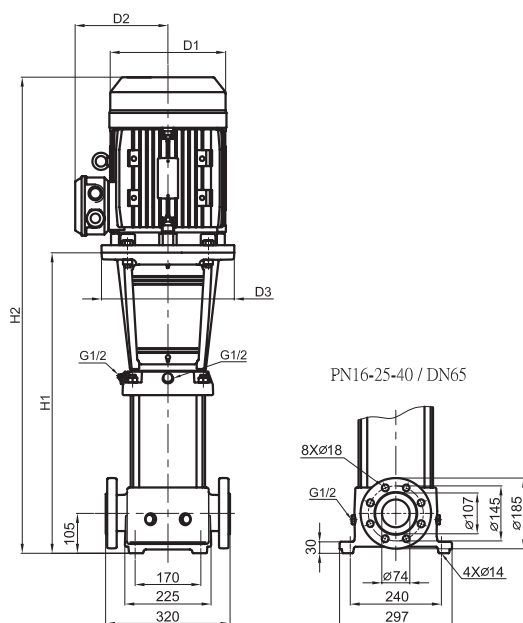


# PVM/PVMI/PVMX 32

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 32

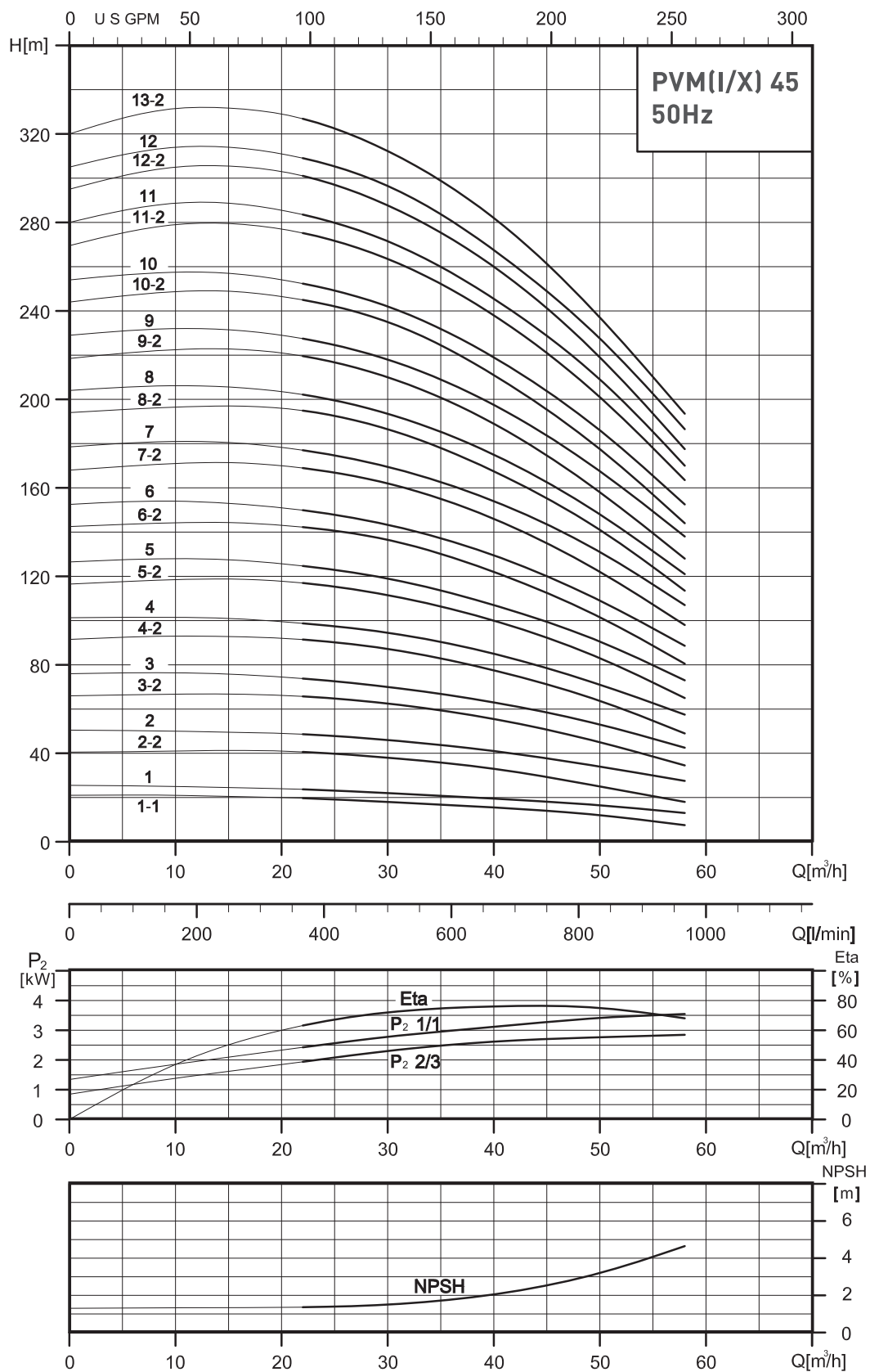
| Dimensions [mm] |         |       |      |      |     |     |     | Dimensions [mm]   |         |       |      |      |     |     |     |
|-----------------|---------|-------|------|------|-----|-----|-----|-------------------|---------|-------|------|------|-----|-----|-----|
| Type            | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  | Type              | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  |
| PVM 32-1-1      | 1.5 kW  | 71.5  | 504  | 799  | 180 | 138 | 280 | PVMI/PVMX 32-1-1  | 1.5 kW  | 66.5  | 504  | 799  | 180 | 138 | 280 |
| PVM 32-1        | 2.2 kW  | 74.3  | 504  | 799  | 180 | 138 | 280 | PVMI/PVMX 32-1-1  | 1.5 kW  | 66.5  | 504  | 799  | 180 | 138 | 280 |
| PVM 32-2-2      | 3 kW    | 84.2  | 574  | 890  | 194 | 145 | 280 | PVMI/PVMX 32-1    | 2.2 kW  | 69.3  | 504  | 799  | 180 | 138 | 280 |
| PVM 32-2        | 4 kW    | 87.6  | 574  | 902  | 225 | 160 | 280 | PVMI/PVMX 32-2-2  | 3 kW    | 79.1  | 574  | 890  | 194 | 145 | 280 |
| PVM 32-3-2      | 5.5 kW  | 110.2 | 644  | 1009 | 248 | 194 | 300 | PVMI/PVMX 32-2    | 4 kW    | 82.5  | 574  | 902  | 225 | 160 | 280 |
| PVM 32-3        | 5.5 kW  | 110.2 | 644  | 1009 | 248 | 194 | 300 | PVMI/PVMX 32-3-2  | 5.5 kW  | 105.1 | 644  | 1009 | 248 | 194 | 300 |
| PVM 32-4-2      | 7.5 kW  | 119.5 | 714  | 1099 | 248 | 194 | 300 | PVMI/PVMX 32-3    | 5.5 kW  | 105.1 | 644  | 1009 | 248 | 194 | 300 |
| PVM 32-4        | 7.5 kW  | 119.5 | 714  | 1099 | 248 | 194 | 300 | PVMI/PVMX 32-4-2  | 7.5 kW  | 114.5 | 714  | 1099 | 248 | 194 | 300 |
| PVM 32-5-2      | 11 kW   | 163.3 | 894  | 1392 | 317 | 238 | 350 | PVMI/PVMX 32-4    | 7.5 kW  | 114.6 | 714  | 1099 | 248 | 194 | 300 |
| PVM 32-5        | 11 kW   | 163.3 | 894  | 1392 | 317 | 238 | 350 | PVMI/PVMX 32-5-2  | 11 kW   | 158.2 | 894  | 1392 | 317 | 238 | 350 |
| PVM 32-6-2      | 11 kW   | 166.3 | 964  | 1462 | 317 | 238 | 350 | PVMI/PVMX 32-5    | 11 kW   | 158.3 | 894  | 1392 | 317 | 238 | 350 |
| PVM 32-6        | 11 kW   | 166.3 | 964  | 1462 | 317 | 238 | 350 | PVMI/PVMX 32-6-2  | 11 kW   | 161.3 | 964  | 1462 | 317 | 238 | 350 |
| PVM 32-7-2      | 15 kW   | 179.5 | 1034 | 1532 | 317 | 238 | 350 | PVMI/PVMX 32-6    | 11 kW   | 161.4 | 964  | 1462 | 317 | 238 | 350 |
| PVM 32-7        | 15 kW   | 179.5 | 1034 | 1532 | 317 | 238 | 350 | PVMI/PVMX 32-7-2  | 15 kW   | 174.6 | 1034 | 1532 | 317 | 238 | 350 |
| PVM 32-8-2      | 15 kW   | 182.6 | 1104 | 1602 | 317 | 238 | 350 | PVMI/PVMX 32-7    | 15 kW   | 174.6 | 1034 | 1532 | 317 | 238 | 350 |
| PVM 32-8        | 15 kW   | 182.6 | 1104 | 1602 | 317 | 238 | 350 | PVMI/PVMX 32-8-2  | 15 kW   | 177.9 | 1104 | 1602 | 317 | 238 | 350 |
| PVM 32-9-2      | 18.5 kW | 210.6 | 1174 | 1716 | 317 | 238 | 350 | PVMI/PVMX 32-8    | 15 kW   | 177.9 | 1104 | 1602 | 317 | 238 | 350 |
| PVM 32-9        | 18.5 kW | 210.6 | 1174 | 1716 | 317 | 238 | 350 | PVMI/PVMX 32-9-2  | 18.5 kW | 205.5 | 1174 | 1716 | 317 | 238 | 350 |
| PVM 32-10-2     | 18.5 kW | 212.7 | 1244 | 1786 | 317 | 238 | 350 | PVMI/PVMX 32-9    | 18.5 kW | 205.6 | 1174 | 1716 | 317 | 238 | 350 |
| PVM 32-10       | 18.5 kW | 213.7 | 1244 | 1786 | 317 | 238 | 350 | PVMI/PVMX 32-10-2 | 18.5 kW | 208.1 | 1244 | 1786 | 317 | 238 | 350 |
| PVM 32-11-2     | 22 kW   | 258.8 | 1314 | 1894 | 358 | 265 | 350 | PVMI/PVMX 32-10   | 18.5 kW | 208.2 | 1244 | 1786 | 317 | 238 | 350 |
| PVM 32-11       | 22 kW   | 258.8 | 1314 | 1894 | 358 | 265 | 350 | PVMI/PVMX 32-11-2 | 22 kW   | 253.6 | 1314 | 1894 | 358 | 265 | 350 |
| PVM 32-12-2     | 22 kW   | 260.8 | 1384 | 1964 | 358 | 265 | 350 | PVMI/PVMX 32-11   | 22 kW   | 253.6 | 1314 | 1894 | 358 | 265 | 350 |
| PVM 32-12       | 22 kW   | 260.8 | 1384 | 1964 | 358 | 265 | 350 | PVMI/PVMX 32-12-2 | 22 kW   | 256.3 | 1384 | 1964 | 358 | 265 | 350 |
| PVM 32-13-2     | 30 kW   | 328.2 | 1454 | 2114 | 420 | 295 | 400 | PVMI/PVMX 32-12   | 22 kW   | 256.3 | 1384 | 1964 | 358 | 265 | 350 |
| PVM 32-13       | 30 kW   | 328.2 | 1454 | 2114 | 420 | 295 | 400 | PVMI/PVMX 32-13-2 | 30 kW   | 323.6 | 1454 | 2114 | 420 | 295 | 400 |
| PVM 32-14-2     | 30 kW   | 331.3 | 1524 | 2184 | 420 | 295 | 400 | PVMI/PVMX 32-13   | 30 kW   | 323.6 | 1454 | 2114 | 420 | 295 | 400 |
| PVM 32-14       | 30 kW   | 331.3 | 1524 | 2184 | 420 | 295 | 400 | PVMI/PVMX 32-14-2 | 30 kW   | 326.3 | 1524 | 2184 | 420 | 295 | 400 |



# PVM/PVMI/PVMX 45

SURFACE PUMPS - VERTICAL MULTISTAGE

## PERFORMANCE

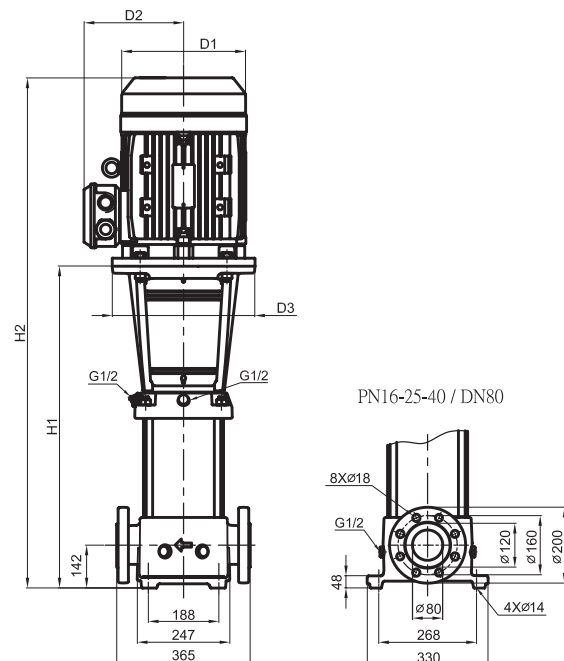
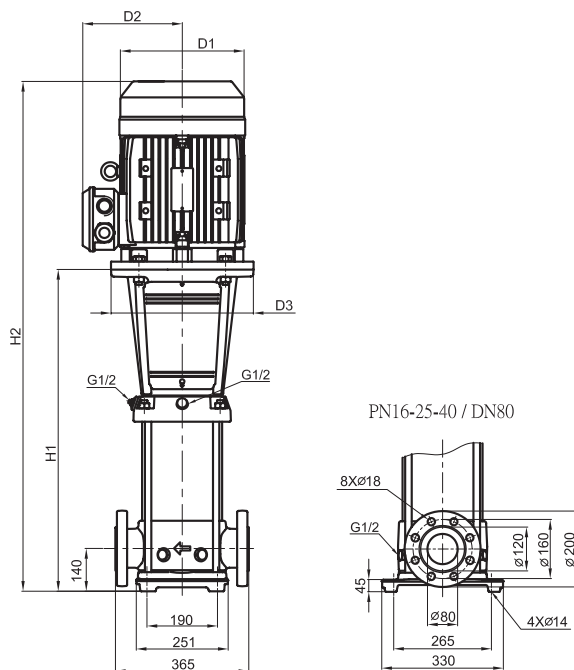


# PVM/PVMI/PVMX 45

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 45

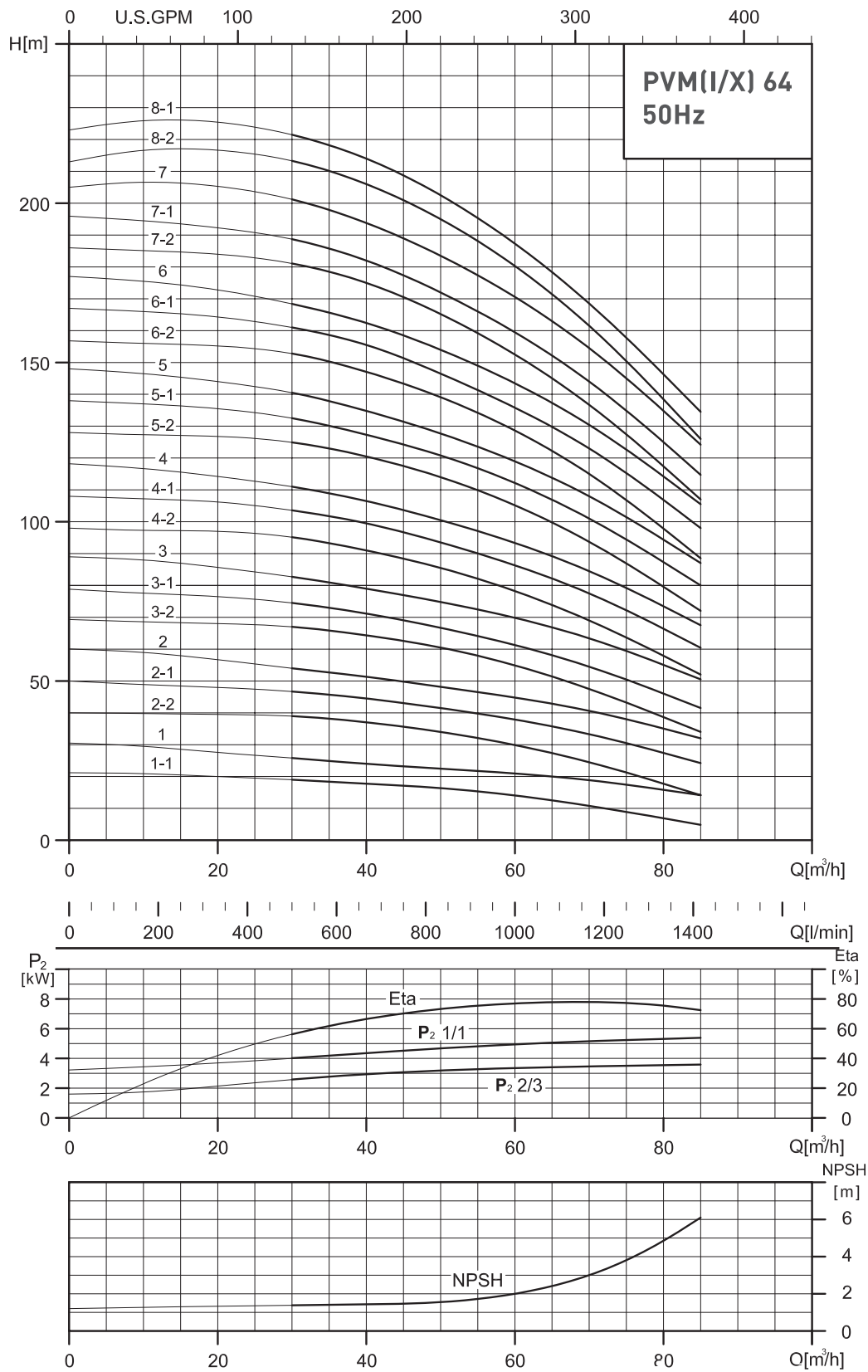
| Dimensions [mm] |         |       |      |      |     |     |     | Dimensions [mm]   |         |       |      |      |     |     |     |
|-----------------|---------|-------|------|------|-----|-----|-----|-------------------|---------|-------|------|------|-----|-----|-----|
| Type            | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  | Type              | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  |
| PVM 45-1-1      | 3 kW    | 91.7  | 560  | 876  | 194 | 145 | 280 | PVMI/PVMX 45-1-1  | 3 kW    | 82.9  | 559  | 875  | 194 | 145 | 280 |
| PVM 45-1        | 4 kW    | 95.1  | 560  | 888  | 160 | 225 | 280 | PVMI/PVMX 45-1    | 4 kW    | 86.3  | 559  | 887  | 160 | 225 | 280 |
| PVM 45-2-2      | 5.5 kW  | 118.3 | 640  | 1005 | 248 | 194 | 300 | PVMI/PVMX 45-2-2  | 5.5 kW  | 109.5 | 639  | 1004 | 248 | 194 | 300 |
| PVM 45-2        | 7.5 kW  | 124.6 | 640  | 1025 | 248 | 194 | 300 | PVMI/PVMX 45-2    | 7.5 kW  | 115.8 | 639  | 1024 | 248 | 194 | 300 |
| PVM 45-3-2      | 11 kW   | 169   | 830  | 1328 | 317 | 238 | 350 | PVMI/PVMX 45-3-2  | 11 kW   | 160.2 | 829  | 1327 | 317 | 238 | 350 |
| PVM 45-3        | 11 kW   | 169   | 830  | 1328 | 317 | 238 | 350 | PVMI/PVMX 45-3    | 11 kW   | 160.2 | 829  | 1327 | 317 | 238 | 350 |
| PVM 45-4-2      | 15 kW   | 182.9 | 910  | 1408 | 317 | 238 | 350 | PVMI/PVMX 45-4-2  | 15 kW   | 174.1 | 909  | 1407 | 317 | 238 | 350 |
| PVM 45-4        | 15 kW   | 182.9 | 910  | 1408 | 317 | 238 | 350 | PVMI/PVMX 45-4    | 15 kW   | 174.1 | 909  | 1407 | 317 | 238 | 350 |
| PVM 45-5-2      | 18.5 kW | 211.6 | 990  | 1532 | 317 | 238 | 350 | PVMI/PVMX 45-5-2  | 18.5 kW | 202.8 | 989  | 1531 | 317 | 238 | 350 |
| PVM 45-5        | 18.5 kW | 211.6 | 990  | 1532 | 317 | 238 | 350 | PVMI/PVMX 45-5    | 18.5 kW | 202.8 | 989  | 1531 | 317 | 238 | 350 |
| PVM 45-6-2      | 22 kW   | 258.1 | 1070 | 1650 | 358 | 265 | 350 | PVMI/PVMX 45-6-2  | 22 kW   | 249.3 | 1069 | 1649 | 358 | 265 | 350 |
| PVM 45-6        | 22 kW   | 258.1 | 1070 | 1650 | 358 | 265 | 350 | PVMI/PVMX 45-6    | 22 kW   | 249.3 | 1069 | 1649 | 358 | 265 | 350 |
| PVM 45-7-2      | 30 kW   | 326.4 | 1150 | 1810 | 420 | 295 | 400 | PVMI/PVMX 45-7-2  | 30 kW   | 317.7 | 1149 | 1809 | 420 | 295 | 400 |
| PVM 45-7        | 30 kW   | 326.5 | 1150 | 1810 | 420 | 295 | 400 | PVMI/PVMX 45-7    | 30 kW   | 317.7 | 1149 | 1809 | 420 | 295 | 400 |
| PVM 45-8-2      | 30 kW   | 330.2 | 1230 | 1890 | 420 | 295 | 400 | PVMI/PVMX 45-8-2  | 30 kW   | 321.4 | 1229 | 1889 | 420 | 295 | 400 |
| PVM 45-8        | 30 kW   | 331.3 | 1230 | 1890 | 420 | 295 | 400 | PVMI/PVMX 45-8    | 30 kW   | 321.5 | 1229 | 1889 | 420 | 295 | 400 |
| PVM 45-9-2      | 30 kW   | 334   | 1310 | 1970 | 420 | 295 | 400 | PVMI/PVMX 45-9-2  | 30 kW   | 325.2 | 1309 | 1969 | 420 | 295 | 400 |
| PVM 45-9        | 37 kW   | 347   | 1310 | 1970 | 420 | 295 | 400 | PVMI/PVMX 45-9    | 37 kW   | 338.2 | 1309 | 1979 | 420 | 295 | 400 |
| PVM 45-10-2     | 37 kW   | 350.7 | 1390 | 2060 | 420 | 295 | 400 | PVMI/PVMX 45-10-2 | 37 kW   | 341.9 | 1389 | 2059 | 420 | 295 | 400 |
| PVM 45-10       | 37 kW   | 350.7 | 1390 | 2060 | 420 | 295 | 400 | PVMI/PVMX 45-10   | 37 kW   | 341.9 | 1389 | 2059 | 420 | 295 | 400 |
| PVM 45-11-2     | 45 kW   | 412.5 | 1470 | 2200 | 470 | 325 | 450 | PVMI/PVMX 45-11-2 | 45 kW   | 403.7 | 1469 | 2199 | 470 | 325 | 450 |
| PVM 45-11       | 45 kW   | 412.5 | 1470 | 2200 | 470 | 325 | 450 | PVMI/PVMX 45-11   | 45 kW   | 403.7 | 1469 | 2199 | 470 | 325 | 450 |
| PVM 45-12-2     | 45 kW   | 416.2 | 1550 | 2280 | 470 | 325 | 450 | PVMI/PVMX 45-12-2 | 45 kW   | 407.4 | 1549 | 2279 | 470 | 325 | 450 |
| PVM 45-12       | 45 kW   | 416.2 | 1550 | 2280 | 470 | 325 | 450 | PVMI/PVMX 45-12   | 45 kW   | 407.4 | 1549 | 2279 | 470 | 325 | 450 |
| PVM 45-13-2     | 45 kW   | 419.9 | 1630 | 2360 | 470 | 325 | 450 | PVMI/PVMX 45-13-2 | 45 kW   | 411.1 | 1629 | 2359 | 470 | 325 | 450 |



# PVM/PVMI/PVMX 64

SURFACE PUMPS - VERTICAL MULTISTAGE

## PERFORMANCE

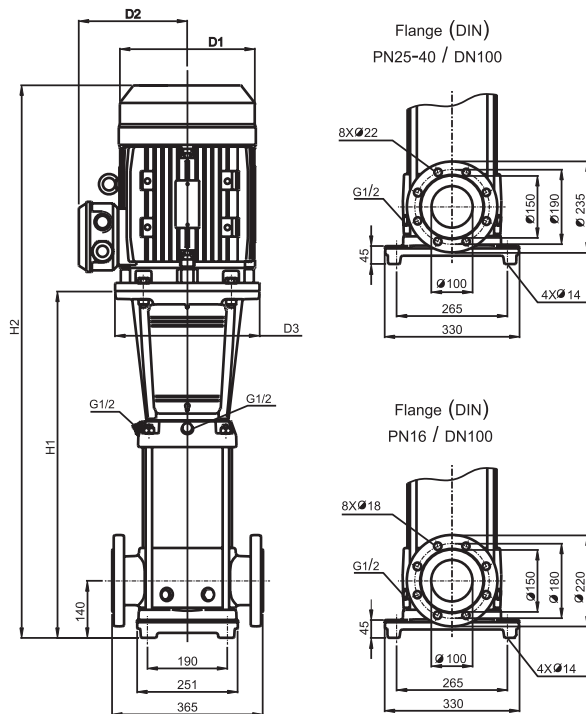
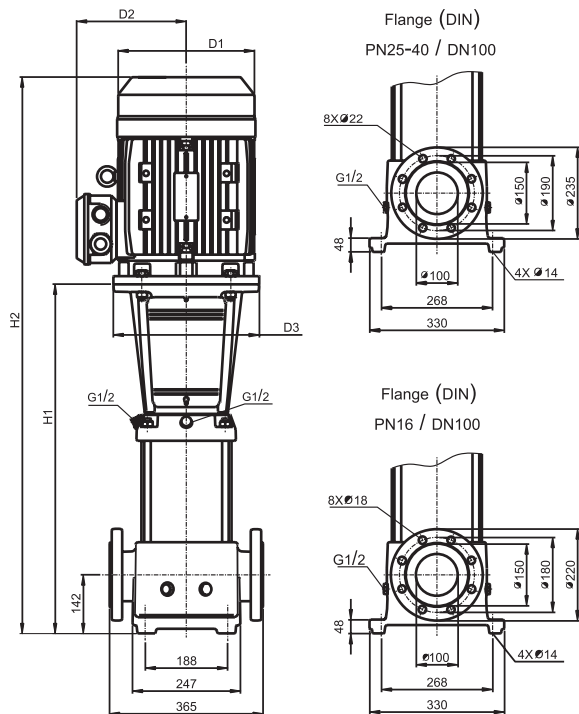


# PVM/PVMI/PVMX 64

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 64

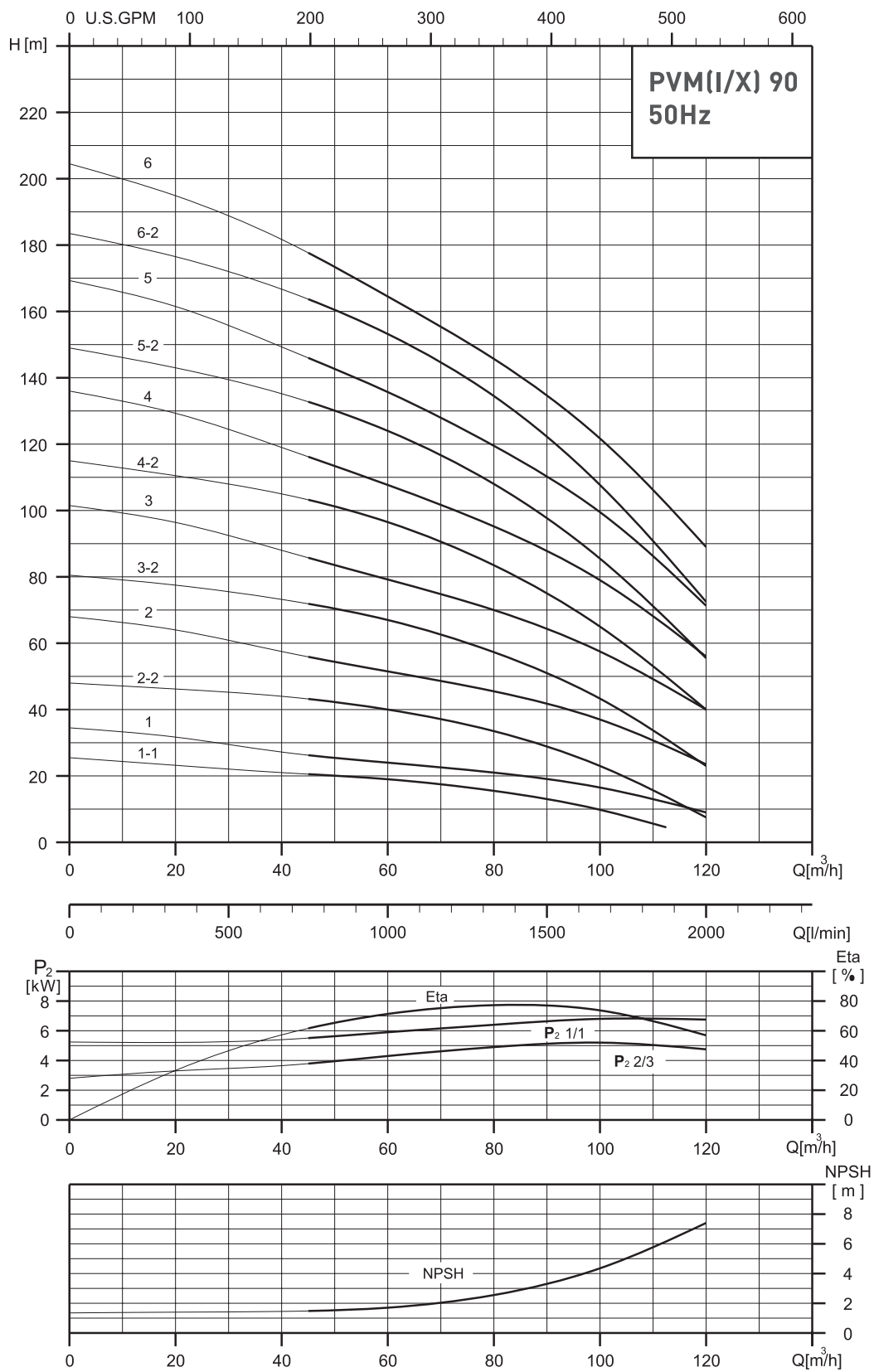
| Dimensions [mm] |         |       |      |      |     |     |     | Dimensions [mm]  |         |       |      |      |     |     |     |
|-----------------|---------|-------|------|------|-----|-----|-----|------------------|---------|-------|------|------|-----|-----|-----|
| Type            | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  | Type             | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  |
| PVM 64-1-1      | 4 kW    | 88.9  | 563  | 891  | 225 | 160 | 280 | PVMI/PVMX 64-1-1 | 4 kW    | 81.8  | 563  | 891  | 225 | 160 | 280 |
| PVM 64-1        | 5.5 kW  | 108.3 | 563  | 928  | 248 | 194 | 300 | PVMI/PVMX 64-1   | 5.5 kW  | 101.3 | 563  | 928  | 248 | 194 | 300 |
| PVM 64-2-2      | 7.5 kW  | 118.7 | 646  | 1031 | 248 | 194 | 300 | PVMI/PVMX 64-2-2 | 7.5 kW  | 111.7 | 646  | 1031 | 248 | 194 | 300 |
| PVM 64-2-1      | 11 kW   | 159.3 | 756  | 1254 | 317 | 238 | 350 | PVMI/PVMX 64-2-1 | 11 kW   | 152.3 | 756  | 1254 | 317 | 238 | 350 |
| PVM 64-2        | 11 kW   | 159.3 | 756  | 1254 | 317 | 238 | 350 | PVMI/PVMX 64-2   | 11 kW   | 152.3 | 756  | 1254 | 317 | 238 | 350 |
| PVM 64-3-2      | 15 kW   | 174   | 838  | 1336 | 317 | 238 | 350 | PVMI/PVMX 64-3-2 | 15 kW   | 166.5 | 838  | 1336 | 317 | 238 | 350 |
| PVM 64-3-1      | 15 kW   | 174   | 838  | 1336 | 317 | 238 | 350 | PVMI/PVMX 64-3-1 | 15 kW   | 166.5 | 838  | 1336 | 317 | 238 | 350 |
| PVM 64-3        | 18.5 kW | 198.9 | 838  | 1380 | 317 | 238 | 350 | PVMI/PVMX 64-3   | 18.5 kW | 191.4 | 838  | 1380 | 317 | 238 | 350 |
| PVM 64-4-2      | 18.5 kW | 202.9 | 920  | 1462 | 317 | 238 | 350 | PVMI/PVMX 64-4-2 | 18.5 kW | 195.4 | 920  | 1462 | 317 | 238 | 350 |
| PVM 64-4-1      | 22 kW   | 245.7 | 920  | 1500 | 358 | 265 | 350 | PVMI/PVMX 64-4-1 | 22 kW   | 238.1 | 920  | 1500 | 358 | 265 | 350 |
| PVM 64-4        | 22 kW   | 245.7 | 920  | 1500 | 358 | 265 | 350 | PVMI/PVMX 64-4   | 22 kW   | 238.1 | 920  | 1500 | 358 | 265 | 350 |
| PVM 64-5-2      | 30 kW   | 314.3 | 1003 | 1663 | 420 | 295 | 400 | PVMI/PVMX 64-5-2 | 30 kW   | 306.7 | 1003 | 1663 | 420 | 295 | 400 |
| PVM 64-5-1      | 30 kW   | 314.3 | 1003 | 1663 | 420 | 295 | 400 | PVMI/PVMX 64-5-1 | 30 kW   | 306.7 | 1003 | 1663 | 420 | 295 | 400 |
| PVM 64-5        | 30 kW   | 314.3 | 1003 | 1663 | 420 | 295 | 400 | PVMI/PVMX 64-5   | 30 kW   | 306.7 | 1003 | 1663 | 420 | 295 | 400 |
| PVM 64-6-2      | 30 kW   | 318.2 | 1086 | 1746 | 420 | 295 | 400 | PVMI/PVMX 64-6-2 | 30 kW   | 310.7 | 1086 | 1746 | 420 | 295 | 400 |
| PVM 64-6-1      | 37 kW   | 331.2 | 1086 | 1756 | 420 | 295 | 400 | PVMI/PVMX 64-6-1 | 37 kW   | 323.7 | 1086 | 1756 | 420 | 295 | 400 |
| PVM 64-6        | 37 kW   | 331.2 | 1086 | 1756 | 420 | 295 | 400 | PVMI/PVMX 64-6   | 37 kW   | 323.7 | 1086 | 1756 | 420 | 295 | 400 |
| PVM 64-7-2      | 37 kW   | 335.3 | 1168 | 1838 | 420 | 295 | 400 | PVMI/PVMX 64-7-2 | 37 kW   | 327.7 | 1168 | 1838 | 420 | 295 | 400 |
| PVM 64-7-1      | 37 kW   | 335.3 | 1168 | 1838 | 420 | 295 | 400 | PVMI/PVMX 64-7-1 | 37 kW   | 327.7 | 1168 | 1838 | 420 | 295 | 400 |
| PVM 64-7        | 45 kW   | 393.4 | 1172 | 1902 | 470 | 325 | 450 | PVMI/PVMX 64-7   | 45 kW   | 385.8 | 1172 | 1902 | 470 | 325 | 450 |
| PVM 64-8-2      | 45 kW   | 397.5 | 1254 | 1984 | 470 | 325 | 450 | PVMI/PVMX 64-8-2 | 45 kW   | 390   | 1254 | 1984 | 470 | 325 | 450 |
| PVM 64-8-1      | 45 kW   | 397.5 | 1254 | 1984 | 470 | 325 | 450 | PVMI/PVMX 64-8-1 | 45 kW   | 390   | 1254 | 1984 | 470 | 325 | 450 |



# PVM/PVMI/PVMX 90

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PERFORMANCE

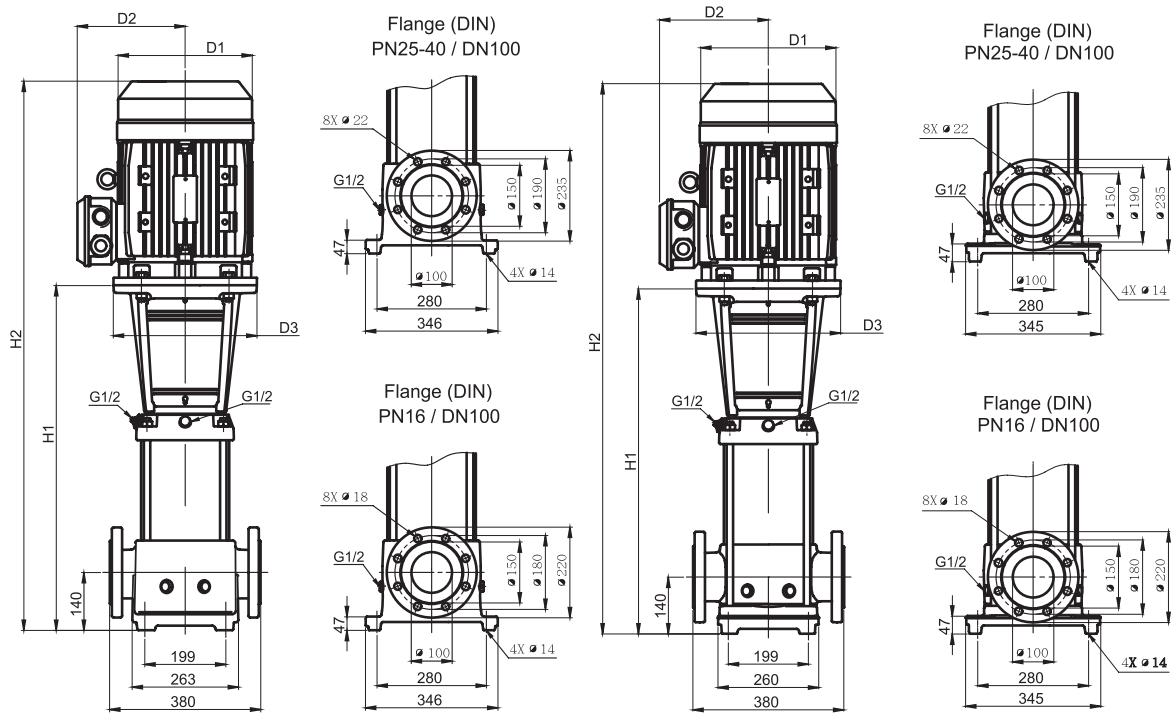


# PVM/PVMI/PVMX 90

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 90

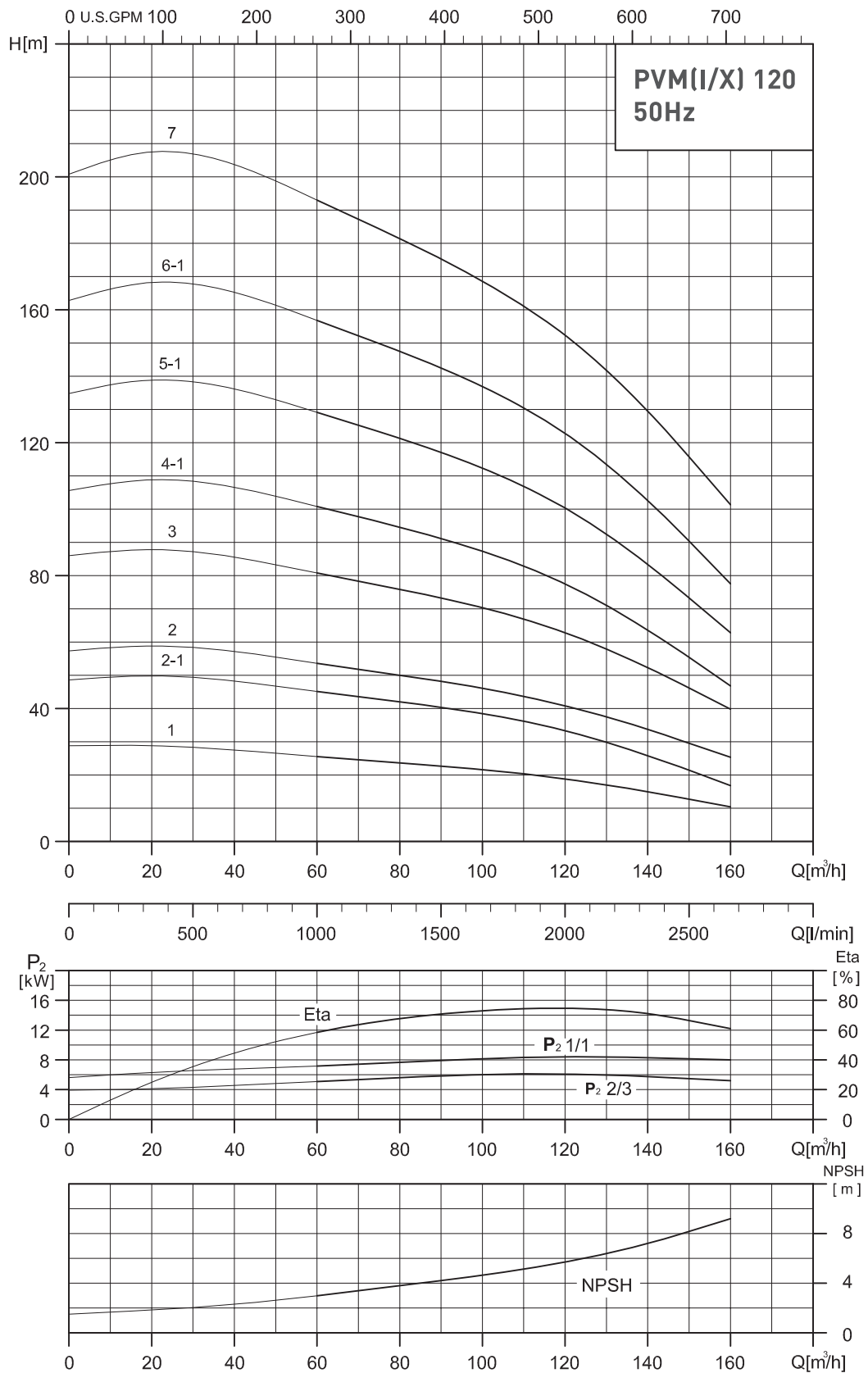
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|-----------------|---------|-------|------|------|-----|-----|-----|------------------|---------|-------|------|------|-----|-----|-----|
| Type            | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  | Type             | P2      | [kg]  | H1   | H2   | D1  | D2  | D3  |
| PVM 90-1-1      | 5.5 kW  | 122.2 | 572  | 937  | 248 | 194 | 300 | PVMI/PVMX 90-1-1 | 5.5 kW  | 112.1 | 576  | 941  | 248 | 194 | 300 |
| PVM 90-1        | 7.5 kW  | 128.5 | 572  | 957  | 248 | 194 | 300 | PVMI/PVMX 90-1   | 7.5 kW  | 118.4 | 576  | 961  | 248 | 194 | 300 |
| PVM 90-2-2      | 11 kW   | 174.4 | 774  | 1272 | 317 | 298 | 350 | PVMI/PVMX 90-2-2 | 11 kW   | 164.2 | 778  | 1276 | 317 | 298 | 350 |
| PVM 90-2        | 15 kW   | 184.5 | 774  | 1272 | 317 | 298 | 350 | PVMI/PVMX 90-2   | 15 kW   | 174.3 | 778  | 1276 | 317 | 298 | 350 |
| PVM 90-3-2      | 18.5 kW | 214.7 | 866  | 1408 | 317 | 298 | 350 | PVMI/PVMX 90-3-2 | 18.5 kW | 204.4 | 870  | 1412 | 317 | 298 | 350 |
| PVM 90-3        | 22 kW   | 257.5 | 866  | 1446 | 358 | 265 | 350 | PVMI/PVMX 90-3   | 22 kW   | 247.2 | 870  | 1450 | 358 | 265 | 350 |
| PVM 90-4-2      | 30 kW   | 327.3 | 958  | 1618 | 420 | 295 | 400 | PVMI/PVMX 90-4-2 | 30 kW   | 316.9 | 962  | 1622 | 420 | 295 | 400 |
| PVM 90-4        | 30 kW   | 327.3 | 958  | 1618 | 420 | 295 | 400 | PVMI/PVMX 90-4   | 30 kW   | 316.9 | 962  | 1622 | 420 | 295 | 400 |
| PVM 90-5-2      | 37 kW   | 346.9 | 1050 | 1720 | 420 | 295 | 400 | PVMI/PVMX 90-5-2 | 37 kW   | 336.9 | 1054 | 1724 | 420 | 295 | 400 |
| PVM 90-5        | 37 kW   | 346.9 | 1050 | 1720 | 420 | 295 | 400 | PVMI/PVMX 90-5   | 37 kW   | 337   | 1054 | 1724 | 420 | 295 | 400 |
| PVM 90-6-2      | 45 kW   | 410.2 | 1142 | 1872 | 470 | 325 | 450 | PVMI/PVMX 90-6-2 | 45 kW   | 400   | 1146 | 1876 | 470 | 325 | 450 |
| PVM 90-6        | 45 kW   | 410.3 | 1142 | 1872 | 470 | 325 | 450 | PVMI/PVMX 90-6   | 45 kW   | 400.1 | 1146 | 1876 | 470 | 325 | 450 |



# PVM/PVMI/PVMX 120

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PERFORMANCE



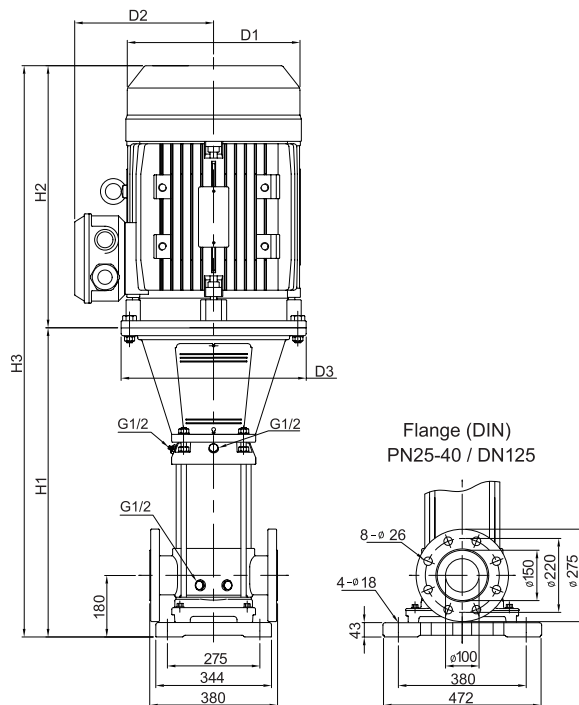
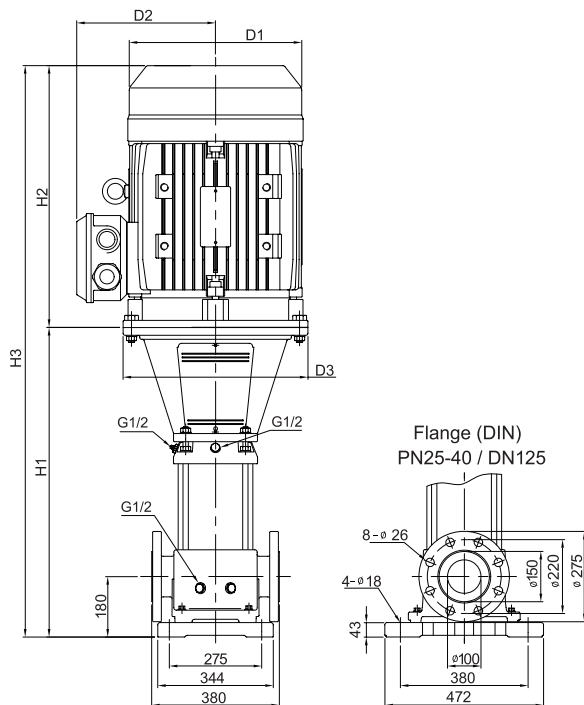


# PVM/PVMI/PVMX 120

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 120

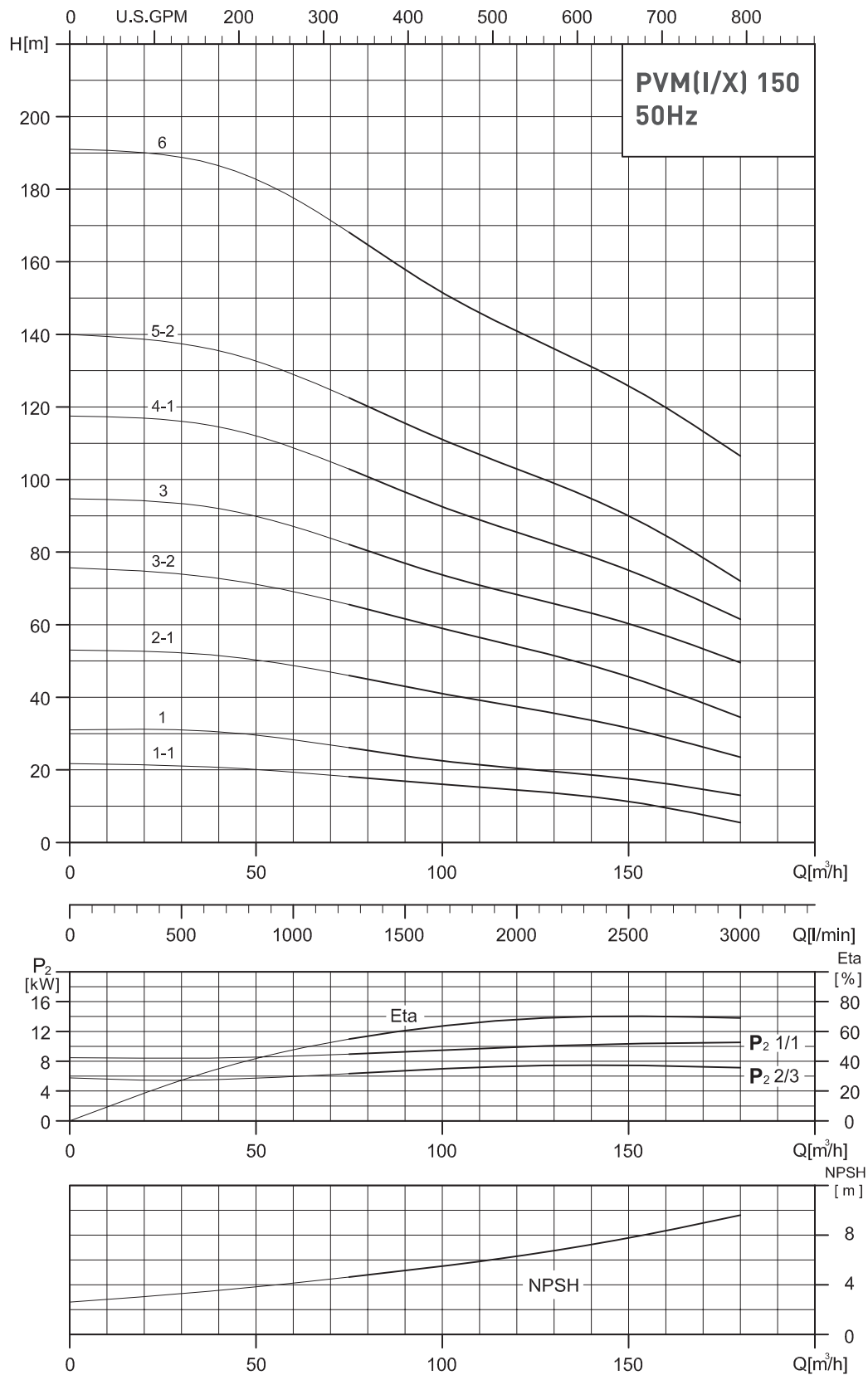
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|-----------------|---------|-------|--------|--------|-----|-----|-----|-------------------|---------|-------|--------|--------|-----|-----|-----|
| Type            | P2      | [kg]  | H1     | H2     | D1  | D2  | D3  | Type              | P2      | [kg]  | H1     | H2     | D1  | D2  | D3  |
| PVM 120-1       | 11 kW   | 200.1 | 834    | 1332   | 317 | 238 | 350 | PVMI/PVMX 120-1   | 11 kW   | 184.3 | 837    | 1335   | 317 | 238 | 350 |
| PVM 120-2-1     | 18.5 kW | 245.1 | 989.5  | 1531.5 | 317 | 238 | 350 | PVMI/PVMX 120-2-1 | 18.5 kW | 229.5 | 992.5  | 1534.5 | 317 | 238 | 350 |
| PVM 120-2       | 22 kW   | 291.8 | 989.5  | 1569.5 | 358 | 265 | 350 | PVMI/PVMX 120-2   | 22 kW   | 276.1 | 992.5  | 1572.5 | 358 | 265 | 350 |
| PVM 120-3       | 30 kW   | 362.5 | 1145   | 1805   | 420 | 295 | 400 | PVMI/PVMX 120-3   | 30 kW   | 346.9 | 1149   | 1809   | 420 | 295 | 400 |
| PVM 120-4-1     | 37 kW   | 385.5 | 1300.5 | 1960.5 | 420 | 295 | 400 | PVMI/PVMX 120-4-1 | 37 kW   | 370.1 | 1303.5 | 1973.5 | 420 | 295 | 400 |
| PVM 120-5-1     | 45 kW   | 453.6 | 1460   | 2150   | 470 | 325 | 450 | PVMI/PVMX 120-5-1 | 45 kW   | 438.3 | 1463   | 2193   | 470 | 325 | 450 |
| PVM 120-6-1     | 55 kW   | 578.8 | 1641.5 | 2411.5 | 510 | 355 | 550 | PVMI/PVMX 120-6-1 | 55 kW   | 563.8 | 1644.5 | 2414.5 | 510 | 355 | 550 |
| PVM 120-7       | 75 kW   | 751.4 | 1797   | 2642   | 580 | 410 | 550 | PVMI/PVMX 120-7   | 75 kW   | 736.5 | 1800   | 2690   | 580 | 410 | 550 |



# PVM/PVMI/PVMX 150

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PERFORMANCE

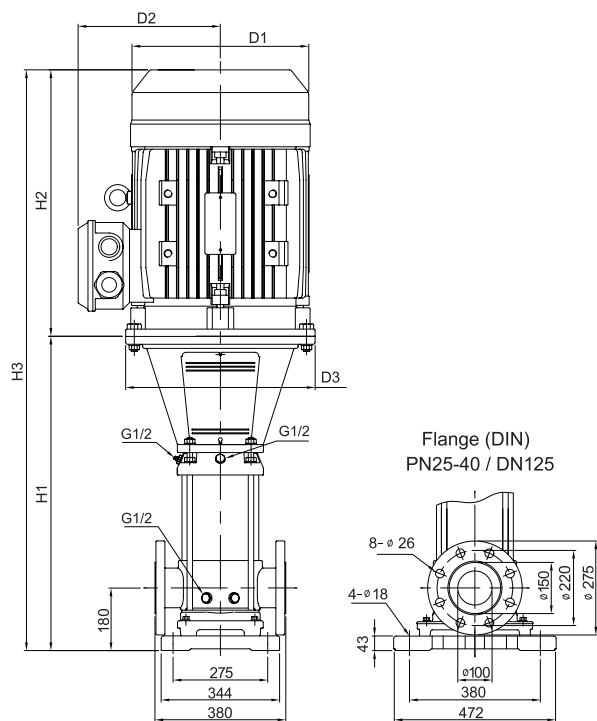
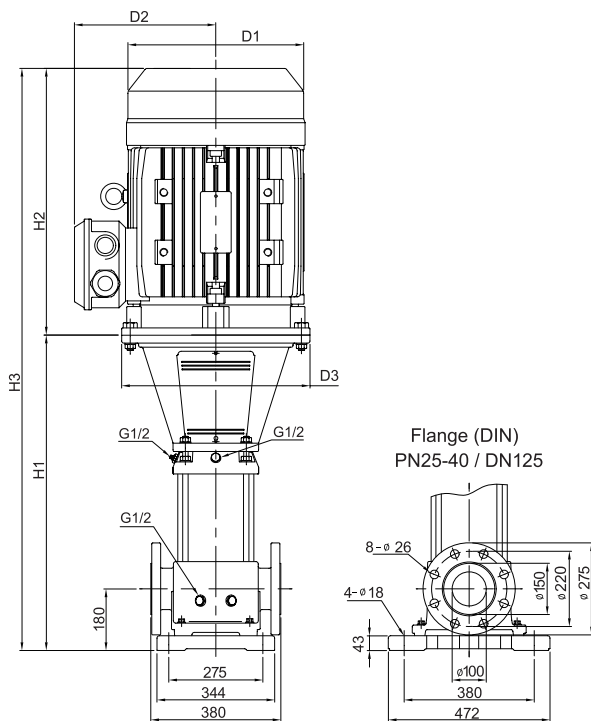


# PVM/PVMI/PVMX 150

## SURFACE PUMPS - VERTICAL MULTISTAGE

### PVM/PVMI/PVMX 150

| Dimensions [mm] |       |       |        |        |     |     |     | Dimensions [mm]   |       |       |        |        |     |     |     |
|-----------------|-------|-------|--------|--------|-----|-----|-----|-------------------|-------|-------|--------|--------|-----|-----|-----|
| Type            | P2    | [kg]  | H1     | H2     | D1  | D2  | D3  | Type              | P2    | [kg]  | H1     | H2     | D1  | D2  | D3  |
| PVM 150-1-1     | 11 kW | 200   | 834    | 1332   | 317 | 238 | 350 | PVMI/PVMX 150-1-1 | 11 kW | 173.4 | 837    | 1335   | 317 | 238 | 350 |
| PVM 150-1       | 15 kW | 210.1 | 834    | 1332   | 317 | 238 | 350 | PVMI/PVMX 150-1   | 15 kW | 183.5 | 837    | 1335   | 317 | 238 | 350 |
| PVM 150-2-1     | 22 kW | 287.8 | 989.5  | 1569.5 | 358 | 265 | 350 | PVMI/PVMX 150-2-1 | 22 kW | 271.6 | 992.5  | 1572.5 | 358 | 265 | 350 |
| PVM 150-3-2     | 30 kW | 362.3 | 1145   | 1805   | 420 | 295 | 400 | PVMI/PVMX 150-3-2 | 30 kW | 346.2 | 1148   | 1808   | 420 | 295 | 400 |
| PVM 150-3       | 37 kW | 375.4 | 1145   | 1815   | 420 | 295 | 400 | PVMI/PVMX 150-3   | 37 kW | 359.2 | 1148   | 1818   | 420 | 295 | 400 |
| PVM 150-4-1     | 45 kW | 443.4 | 1304.5 | 2034.5 | 470 | 325 | 450 | PVMI/PVMX 150-4-1 | 45 kW | 427.4 | 1307.5 | 2037.5 | 470 | 325 | 450 |
| PVM 150-5-2     | 55 kW | 568.7 | 1486   | 2256   | 510 | 355 | 550 | PVMI/PVMX 150-5-2 | 55 kW | 552.8 | 1489   | 2259   | 510 | 355 | 550 |
| PVM 150-6       | 75 kW | 741   | 1641.5 | 2486.5 | 580 | 410 | 550 | PVMI/PVMX 150-6   | 75 kW | 725.5 | 1644.5 | 2534.5 | 580 | 410 | 550 |



# PVM/PVMI/PVMX

SURFACE PUMPS - VERTICAL MULTISTAGE

## PGA-DELTA OIL

SPECIAL USE - SURFACE PUMPS

- Continuous service
- Self-priming
- High reliability
- Sturdy and resistant
- High-efficiency motors according to EU(2019)/1781



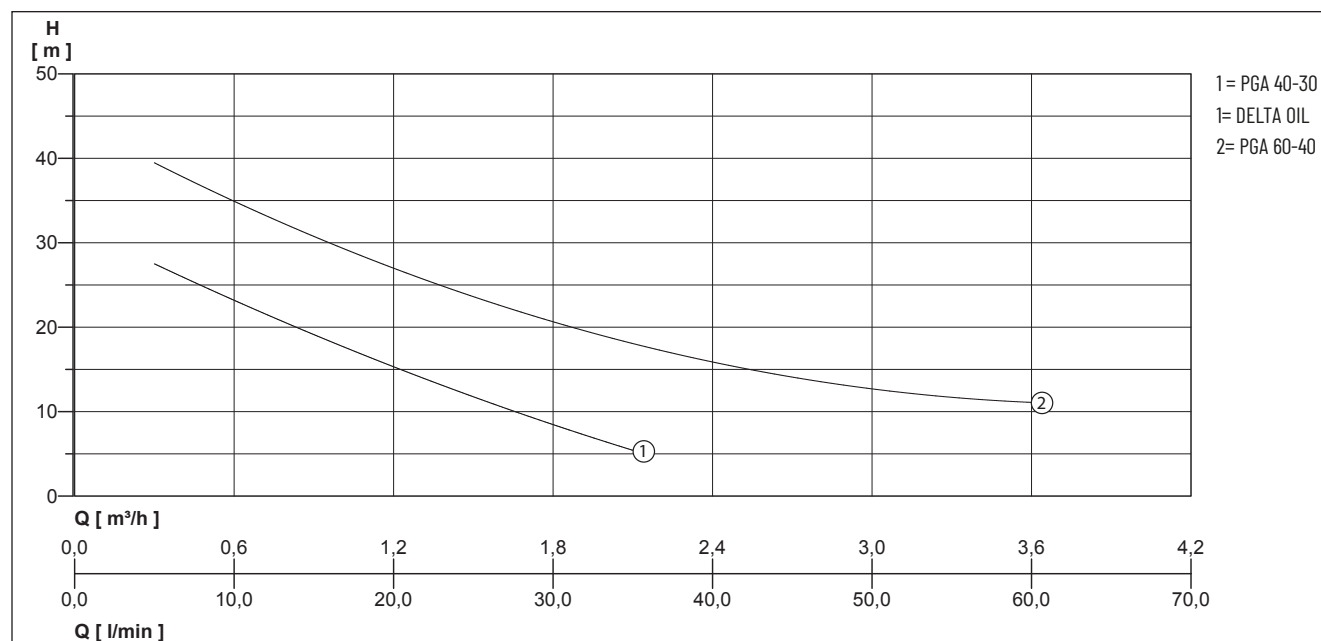
### DESCRIPTION

The pumps of the series PGA are particularly suitable for diesel transfer. Available in the version complete with power cable, switch and handle. Equipped with a safety tube for the discharge of any leakage.

### APPLICATIONS

- Realization of distributionboosters.
- For diesel transfer on farms.
- Soil processing machines.
- Small pumping stations.

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                      | Flow rate Q [m³/h]  | 0.3 | 0.6 | 0.9 | 1.5 | 2.1 | 2.7 | 3.6 |
|---------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|
| PGA/DELTA 40/OIL - 30 M/T | Delivery head H [m] | 28  | 23  | 18  | 13  | 5   |     |     |
| PGA 60 - 40 M/T           |                     | 39  | 34  | 32  | 25  | 18  | 12  | 12  |

# PGA-DELTA OIL

## SPECIAL USE - SURFACE PUMPS

### MECHANICAL DATA

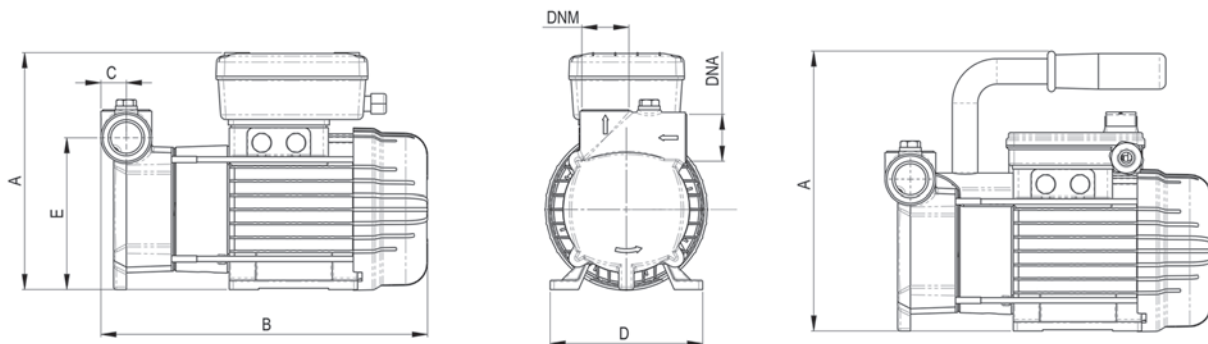
|                 |                                            |                                |              |
|-----------------|--------------------------------------------|--------------------------------|--------------|
| Shaft           | Stainless steel X 12 CrNiS 1809 (AISI 416) | Counterface                    | Ceramic      |
| Impeller        | Brass                                      | Operating pressure max.        | 6 bar        |
| Motor housing   | Cast iron EN GJL 200                       | Type of liquid                 | diesel       |
| Pump housing    | Cast iron EN GJL 200                       | Temperature of the liquid max. | 50 °C        |
| Mechanical seal | Graphite                                   | Suction height max             | 5 m          |
|                 |                                            | Gasket                         | NBR 70 shore |

### ELECTRICAL DATA

|                   |       |                          |       |
|-------------------|-------|--------------------------|-------|
| Type of enclosure | IP 44 | Ambient temperature max. | 40 °C |
| Insulation class  | F     |                          |       |

### PGA-DELTA OIL

| Type          | Code No.        | Voltage        | Motor rating |         | Current     | Weight |
|---------------|-----------------|----------------|--------------|---------|-------------|--------|
|               |                 |                | P1           | P2      |             |        |
| PGA 40 - 30 M | <b>N6232210</b> | 1/N/PE~230 V   | 0.51 kW      | 0.27 kW | 2.3 A       | 6.2 kg |
| PGA 40 - 30 T | <b>N6232180</b> | 3/PE~230/400 V | 0.55 kW      | 0.40 kW | 1.6 A/0.9 A | 6.2 kg |
| PGA 60 - 40 M | <b>N6232200</b> | 1/N/PE~230 V   | 0.90 kW      | 0.40 kW | 4.3 A       | 8.0 kg |
| PGA 60 - 40 T | <b>N6232190</b> | 1/N/PE~230 V   | 0.70 kW      | 0.50 kW | 2.4 A/1.4 A | 8.0 kg |
| DELTA OIL     | <b>N6232220</b> | 1/N/PE~230 V   | 0.51 kW      | 0.27 kW | 2.3 A       | 7.0 kg |



### DIMENSIONS [mm]

| Type          | A   | B   | C  | D   | DNA  | DNM  | E   |
|---------------|-----|-----|----|-----|------|------|-----|
| PGA 40 - 30 M | 186 | 255 | 20 | 120 | 3/4" | 3/4" | 119 |
| PGA 40 - 30 T | 165 | 255 | 20 | 120 | 3/4" | 3/4" | 119 |
| PGA 60 - 40 M | 186 | 260 | 24 | 120 | 1"   | 1"   | 123 |
| PGA 60 - 40 T | 165 | 260 | 24 | 120 | 1"   | 1"   | 123 |
| DELTA OIL     | 218 | 255 | 20 | 120 | 3/4" | 3/4" | 119 |

# SECTION 3

## PUMPS FOR OPEN AND DRILLED WELLS



### PRATIKA

PUMPS FOR OPEN AND DRILLED  
WELLS

PAG. 115



### SCM 4 PLUS

PUMPS FOR OPEN AND DRILLED  
WELLS

PAG. 127



### DOMINATOR 4 PLUS

PUMPS FOR OPEN AND DRILLED  
WELLS

PAG. 117



### VERSAILLES

PUMPS FOR OPEN AND DRILLED  
WELLS

PAG. 141



### DOMINATOR 5

PUMPS FOR OPEN AND DRILLED  
WELLS

PAG. 121



### DOMINATOR 5 RW

PUMPS FOR OPEN AND DRILLED  
WELLS

PAG. 125





## PRATIKA

PUMPS FOR OPEN AND DRILLED WELLS

- Ø 32 mm elbow fitting hose supplied
- Automatic version with float switch
- Ready to use
- 100% stainless steel



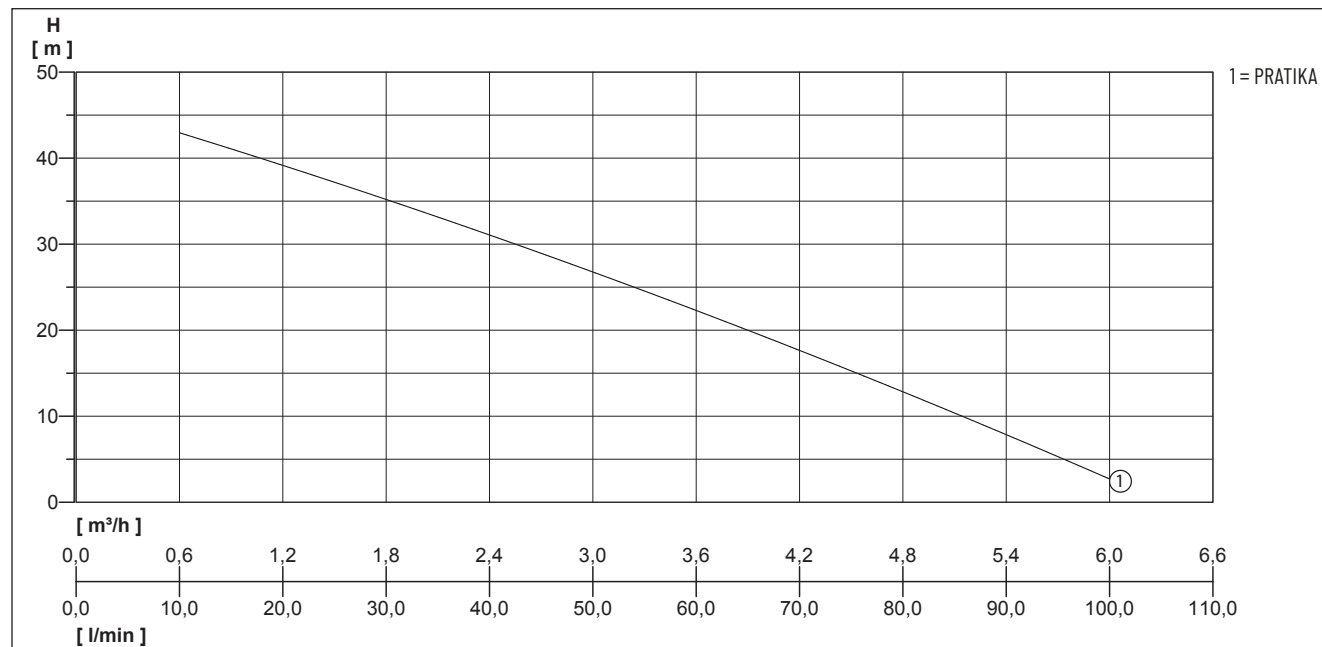
### DESCRIPTION

PRATIKA submersible pumps are ready to use and install in traditional wells, water deposits, collection tanks, fresh water courses, lakes etc.

### APPLICATIONS

- Lifting of water from traditional wells
- Installations in tanks inside homes for the pressurization of systems.
- Small automatic systems for garden irrigation
- Surface irrigation

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                    | Flow rate Q [m³/h]  | 0  | 1.2 | 2.4 | 3.6 | 4.8 | 6 |
|-------------------------|---------------------|----|-----|-----|-----|-----|---|
| PRATIKA-MAN/PRATIKA-AUT | Delivery head H [m] | 46 | 39  | 31  | 23  | 12  | 3 |

# PRATIKA

## PUMPS FOR OPEN AND DRILLED WELLS

### MECHANICAL DATA

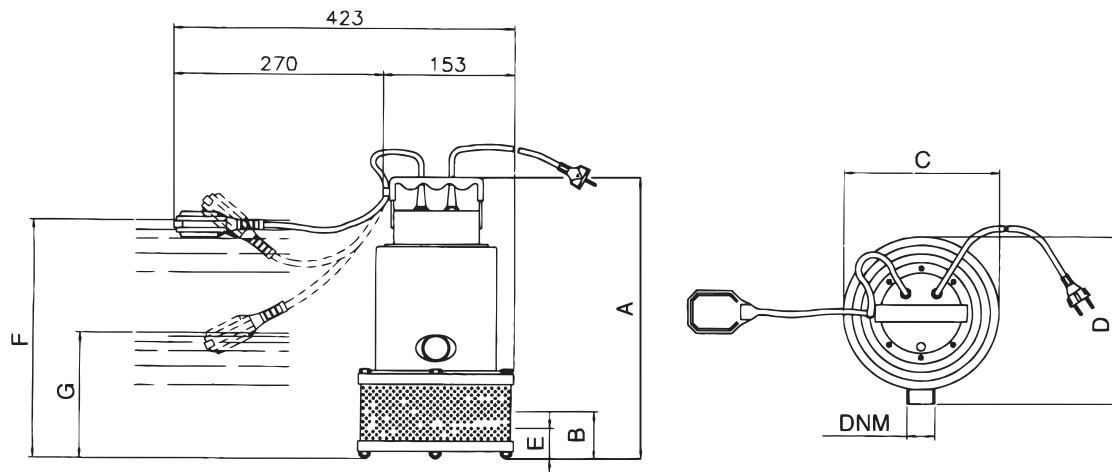
|              |                                                                                                  |                                |                                                           |
|--------------|--------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Free passage | 1.5 mm                                                                                           | Diffuser                       | Technopolymer                                             |
| Bearing      | Self-lubricating ball bearings.                                                                  | Mechanical seal                | Graphite. Lubricated in oil chamber                       |
| Oil chamber  | Yes                                                                                              | Counterface                    | Ceramic. Lubricated in oil chamber                        |
| Shaft        | Stainless steel X5 CrNi 1810 (AISI 304) with ceramic bushing in the points of wear of the seals. | Type of liquid                 | clean water without suspended solids or abrasive material |
| Impeller     | Technopolymer                                                                                    | Temperature of the liquid max. | 40 °C                                                     |
| Pump housing | Stainless steel X5 CrNi 1810 (AISI 304)                                                          | Suction height max             | 10 m                                                      |
| Submersible  | Yes                                                                                              | Weight                         | 9 kg                                                      |

### ELECTRICAL DATA

|                 |              |                   |          |
|-----------------|--------------|-------------------|----------|
| Voltage         | 1/N/PE~230 V | Type of enclosure | IP 68    |
| Motor rating P1 | 1.2 kW       | Insulation class  | F        |
| Motor rating P2 | 0.8 kW       | Plug              | Safety   |
| Current         | 5 A          | Rotation speed    | 2850 rpm |
| Power line      | 15m H07RN-F  |                   |          |

### PRATIKA

| Type        | Code No.   |
|-------------|------------|
| PRATIKA-MAN | N3051010-B |
| PRATIKA-AUT | N3051000-B |



### DIMENSIONS [mm]

| Type        | A   | B   | C   | D   | F   | G   | DNM    | E  |
|-------------|-----|-----|-----|-----|-----|-----|--------|----|
| PRATIKA-MAN | 406 | 162 | 178 | 182 | 490 | 260 | 1 1/4" | 50 |
| PRATIKA-AUT | 406 | 162 | 178 | 182 | 490 | 260 | 1 1/4" | 60 |

## DOMINATOR 4 PLUS

PUMPS FOR OPEN AND DRILLED WELLS

- Double mechanical seal
- Hydraulic system particularly resistant to the corrosive action of sand
- Integrated non-return valve
- Capacitor incorporated



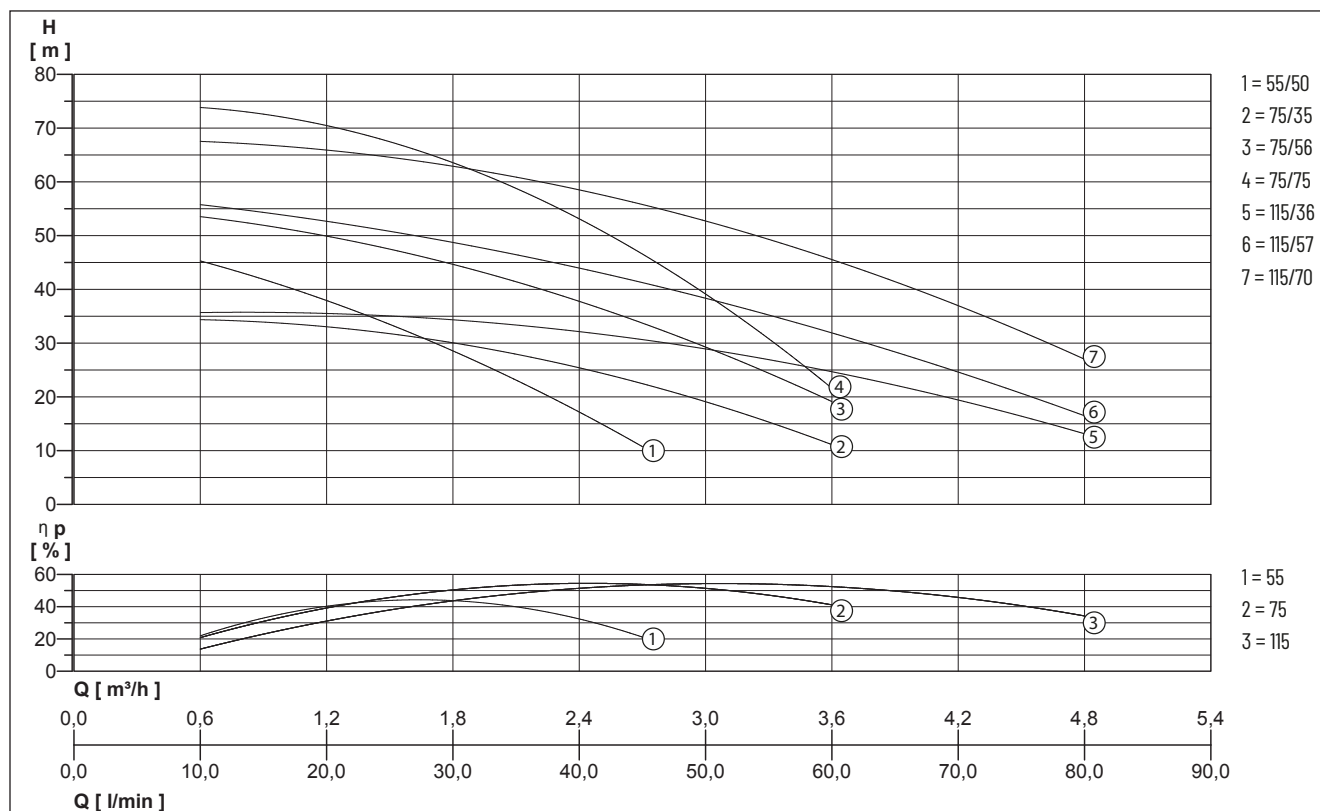
### DESCRIPTION

DOMINATOR 4 Plus submersible pumps with double mechanical seal are suitable for installations in traditional wells, water deposits, collection tanks, clear watercourses, lakes, etc. Nylon suspension rope (20m) included

### APPLICATIONS

- Lifting of water from traditional wells
- Installations in tanks inside homes for the pressurization of systems.
- Small automatic systems for garden irrigation
- Surface irrigation

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances. MEI ≥ 0.4 - Reference MEI ≥ 0.70 - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# DOMINATOR 4 PLUS

PUMPS FOR OPEN AND DRILLED WELLS

| Type                      | Flow rate Q [m³/h]  | 0    | 1.2  | 2.4  | 3.6  | 4.8  |
|---------------------------|---------------------|------|------|------|------|------|
|                           | Delivery head H [m] | 50.0 | 38.7 | 17.0 |      |      |
| DOMINATOR 4 PLUS 55/50 M  |                     | 35.0 | 33.0 | 26.0 | 11.0 |      |
| DOMINATOR 4 PLUS 75/35 M  |                     | 56.0 | 48.9 | 38.1 | 19.0 |      |
| DOMINATOR 4 PLUS 75/56 M  |                     | 75.0 | 70.0 | 53.0 | 21.6 |      |
| DOMINATOR 4 PLUS 75/75 M  |                     | 36.0 | 35.0 | 32.0 | 25.0 | 13.0 |
| DOMINATOR 4 PLUS 115/36 M |                     | 57.0 | 52.0 | 44.4 | 31.5 | 16.6 |
| DOMINATOR 4 PLUS 115/57 M |                     | 70.0 | 65.0 | 59.0 | 45.4 | 27.0 |

## MECHANICAL DATA

|               |                                                                                                             |                                |                                                              |
|---------------|-------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------|
| Bearing       | Self-lubricating ball bearings.                                                                             | Pump housing                   | Stainless steel Europe:<br>EN10088-1 X 5 CrNi 1810 (1.4301)  |
| Oil chamber   | Yes                                                                                                         |                                | USA: AISI 304                                                |
| Shaft         | Immersed part - Europe:<br>EN10088-1 X 8 CrNiS 18-9<br>(1.4305) USA: AISI 303/ Motor<br>side - carbon steel | Submersible                    | Yes                                                          |
|               |                                                                                                             | Type of liquid                 | clean water without suspended<br>solids or abrasive material |
| Impeller      | Acetal resin                                                                                                | Temperature of the liquid max. | 40 °C                                                        |
| Motor housing | Stainless steel                                                                                             | Suction height max             | 17 m                                                         |
|               |                                                                                                             | Non return valve               | Thermoplastic with NBR o-ring<br>integrated                  |

## ELECTRICAL DATA

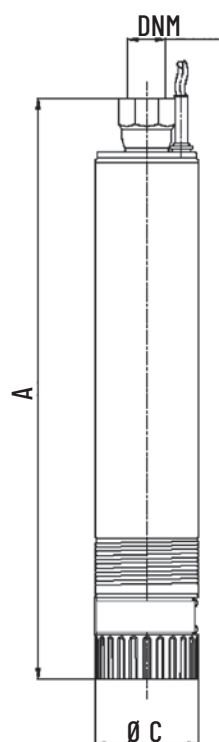
|                   |              |                |                      |
|-------------------|--------------|----------------|----------------------|
| Voltage           | 1/N/PE~230 V | Plug           | Safety               |
| Power line        | 20m H07RN-F  | Rotation speed | 2850 rpm             |
| Type of enclosure | IP 68        | Motor cooling  | gepumpte Flüssigkeit |
| Insulation class  | F            |                |                      |

## DOMINATOR 4 PLUS

| Type                      | Code No.        | Motor rating<br>P1 | P2      | Current | Weight  |
|---------------------------|-----------------|--------------------|---------|---------|---------|
| DOMINATOR 4 PLUS 55/50 M  | <b>N3200170</b> | 0.80 kW            | 0.56 kW | 3.8 A   | 10.4 kg |
| DOMINATOR 4 PLUS 75/35 M  | <b>N3200220</b> | 0.60 kW            | 0.35 kW | 3.0 A   | 10.2 kg |
| DOMINATOR 4 PLUS 75/56 M  | <b>N3200160</b> | 0.75 kW            | 0.60 kW | 3.3 A   | 10.8 kg |
| DOMINATOR 4 PLUS 75/75 M  | <b>N3200250</b> | 1.10 kW            | 0.70 kW | 5.0 A   | 12.5 kg |
| DOMINATOR 4 PLUS 115/36 M | <b>N3200210</b> | 0.75 kW            | 0.40 kW | 3.5 A   | 10.2 kg |
| DOMINATOR 4 PLUS 115/57 M | <b>N3200180</b> | 1.10 kW            | 0.80 kW | 5.0 A   | 10.8 kg |
| DOMINATOR 4 PLUS 115/70 M | <b>N3200260</b> | 1.30 kW            | 0.80 kW | 6.0 A   | 12.5 kg |

# DOMINATOR 4 PLUS

PUMPS FOR OPEN AND DRILLED WELLS



## DIMENSIONS [mm]

| Type                      | A   | C  | DNM    |
|---------------------------|-----|----|--------|
| DOMINATOR 4 PLUS 55/50 M  | 549 | 98 | 1 1/4" |
| DOMINATOR 4 PLUS 75/35 M  | 560 | 98 | 1 1/4" |
| DOMINATOR 4 PLUS 75/56 M  | 643 | 98 | 1 1/4" |
| DOMINATOR 4 PLUS 75/75 M  | 760 | 98 | 1 1/4" |
| DOMINATOR 4 PLUS 115/36 M | 560 | 98 | 1 1/4" |
| DOMINATOR 4 PLUS 115/57 M | 643 | 98 | 1 1/4" |
| DOMINATOR 4 PLUS 115/70 M | 732 | 98 | 1 1/4" |

# DOMINATOR 4 PLUS

PUMPS FOR OPEN AND DRILLED WELLS

## DOMINATOR 5

PUMPS FOR OPEN AND DRILLED WELLS

- 100% stainless steel
- Ready to use
- Automatic version with float switch



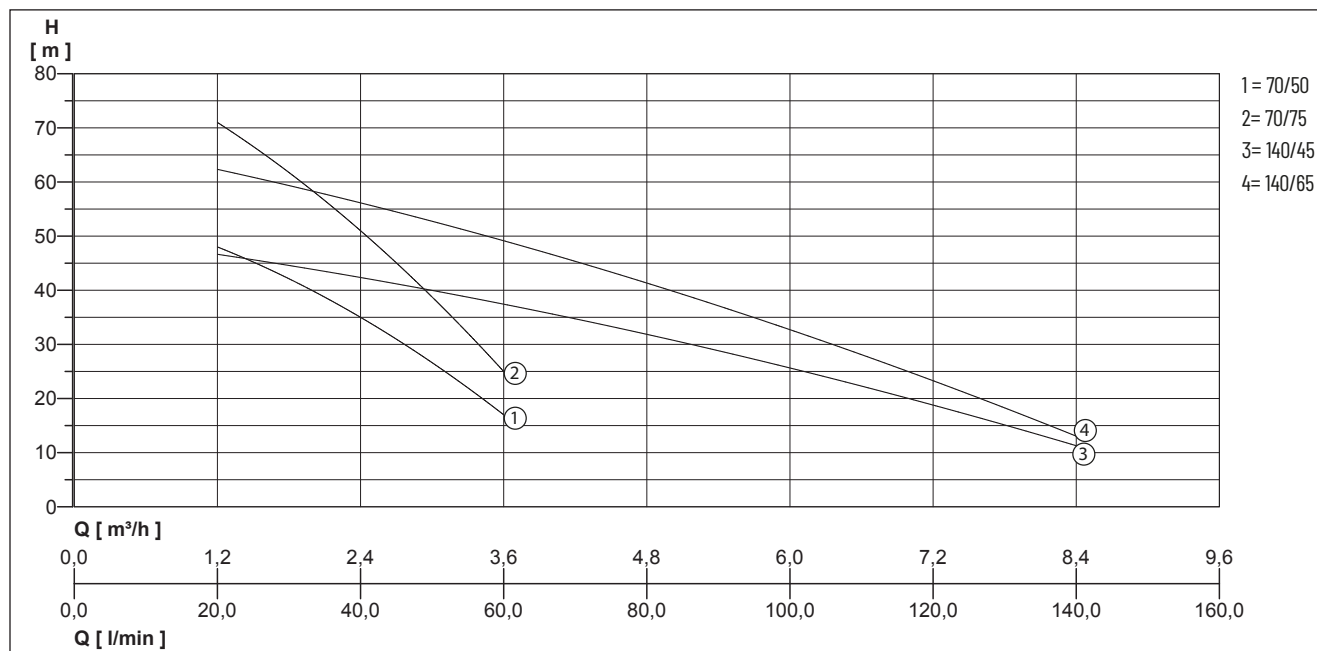
### DESCRIPTION

DOMINATOR 5" submersible pumps are ready to use and install in traditional wells, water deposits, collection tanks, fresh water courses, lakes etc. Automatic version equipped with float switch.

### APPLICATIONS

- Lifting of water from traditional wells
- Installations in tanks inside homes for the pressurization of systems.
- Small automatic systems for garden irrigation
- Surface irrigation

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                     | Flow rate Q [m³/h]  | 0  | 1.2 | 2.4 | 3.6 | 4.8 | 6  | 7.2 | 8.4 |
|--------------------------|---------------------|----|-----|-----|-----|-----|----|-----|-----|
| DOMINATOR 5" 70/50B M/T  | Delivery head H [m] | 55 | 48  | 35  | 17  |     |    |     |     |
| DOMINATOR 5" 70/75B M/T  |                     | 78 | 71  | 51  | 25  |     |    |     |     |
| DOMINATOR 5" 140/45B M/T |                     | 50 | 47  | 42  | 37  | 32  | 26 | 19  | 11  |
| DOMINATOR 5" 140/65B M/T |                     | 68 | 63  | 55  | 49  | 42  | 33 | 23  | 13  |

# DOMINATOR 5

PUMPS FOR OPEN AND DRILLED WELLS

## MECHANICAL DATA

|               |                                         |                                |                                                           |
|---------------|-----------------------------------------|--------------------------------|-----------------------------------------------------------|
| Bearing       | Self-lubricating ball bearings.         | Diffuser                       | Stainless steel X5CrNi18-10 (AISI 304)                    |
| Oil chamber   | Yes                                     | Mechanical seal                | Graphite. Lubricated in oil chamber                       |
| Shaft         | Stainless steel X5 CrNi 1810 (AISI 304) | Counterface                    | Aluminium oxide. Lubricated in oil chamber                |
| Impeller      | Stainless steel X5CrNi18-10 (AISI 304)  | Type of liquid                 | clean water without suspended solids or abrasive material |
| Motor housing | Stainless steel                         | Temperature of the liquid max. | 40 °C                                                     |
| Pump housing  | Stainless steel X5 CrNi 1810 (AISI 304) | Suction height max             | 17 m                                                      |
| Submersible   | Yes                                     |                                |                                                           |

## ELECTRICAL DATA

|                   |             |                |                      |
|-------------------|-------------|----------------|----------------------|
| Power line        | 20m S07RN-F | Rotation speed | 2850 rpm             |
| Type of enclosure | IP 68       | Motor cooling  | gepumpte Flüssigkeit |
| Insulation class  | F           |                |                      |

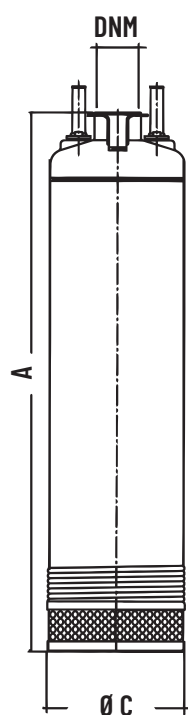
## DOMINATOR 5

| Type                       | Code No.        | Voltage      | Motor rating |        | Current | Plug    | Weight  |
|----------------------------|-----------------|--------------|--------------|--------|---------|---------|---------|
|                            |                 |              | P1           | P2     |         |         |         |
| DOMINATOR 5" 70/50B M      | <b>N3191230</b> | 1/N/PE~230 V | 0.9 kW       | 0.6 kW | 4.0 A   | Safety  | 13.7 kg |
| DOMINATOR 5" 70/50B M AUT  | <b>N3191240</b> | 1/N/PE~230 V | 0.9 kW       | 0.6 kW | 4.0 A   | Safety  | 13.7 kg |
| DOMINATOR 5" 70/50B T      | <b>N3191250</b> | 3/N/PE~400 V | 0.9 kW       | 0.6 kW | 1.8 A   | Without | 13.7 kg |
| DOMINATOR 5" 70/50B T      | <b>N3191260</b> | 3/N/PE~230 V | 0.9 kW       | 0.6 kW | 3.0 A   | Without | 13.7 kg |
| DOMINATOR 5" 70/75B M      | <b>N3191220</b> | 1/N/PE~230 V | 1.3 kW       | 0.9 kW | 6.0 A   | Safety  | 15.5 kg |
| DOMINATOR 5" 70/75B M AUT  | <b>N3191270</b> | 1/N/PE~230 V | 1.3 kW       | 0.9 kW | 6.0 A   | Safety  | 15.5 kg |
| DOMINATOR 5" 70/75B T      | <b>N3191290</b> | 3/N/PE~230 V | 1.3 kW       | 0.9 kW | 3.7 A   | Without | 15.5 kg |
| DOMINATOR 5" 70/75B T      | <b>N3191280</b> | 3/N/PE~400 V | 1.3 kW       | 0.9 kW | 2.1 A   | Without | 15.5 kg |
| DOMINATOR 5" 140/45B M     | <b>N3191210</b> | 1/N/PE~230 V | 1.2 kW       | 0.8 kW | 5.5 A   | Safety  | 14.2 kg |
| DOMINATOR 5" 140/45B M AUT | <b>N3191300</b> | 1/N/PE~230 V | 1.2 kW       | 0.8 kW | 5.5 A   | Safety  | 14.2 kg |
| DOMINATOR 5" 140/45B T     | <b>N3191310</b> | 3/N/PE~230 V | 1.2 kW       | 0.8 kW | 3.8 A   | Without | 14.2 kg |
| DOMINATOR 5" 140/45B T     | <b>N3191320</b> | 3/N/PE~400 V | 1.2 kW       | 0.8 kW | 2.2 A   | Without | 14.2 kg |
| DOMINATOR 5" 140/65B M     | <b>N3191200</b> | 1/N/PE~230 V | 1.6 kW       | 1.1 kW | 7.2 A   | Safety  | 15.8 kg |
| DOMINATOR 5" 140/65B M AUT | <b>N3191330</b> | 1/N/PE~230 V | 1.6 kW       | 1.1 kW | 7.2 A   | Safety  | 15.8 kg |
| DOMINATOR 5" 140/65B T     | <b>N3191340</b> | 3/N/PE~400 V | 1.6 kW       | 1.1 kW | 2.5 A   | Without | 15.8 kg |
| DOMINATOR 5" 140/65B T     | <b>N3191350</b> | 3/N/PE~230 V | 1.6 kW       | 1.1 kW | 4.4 A   | Without | 15.8 kg |



# DOMINATOR 5

PUMPS FOR OPEN AND DRILLED WELLS



## DIMENSIONS [mm]

| Type                     | A   | C   | DNM    |
|--------------------------|-----|-----|--------|
| DOMINATOR 5" 70/50B M/T  | 475 | 132 | 1 1/4" |
| DOMINATOR 5" 70/75B M/T  | 530 | 132 | 1 1/4" |
| DOMINATOR 5" 140/45B M/T | 495 | 132 | 1 1/4" |
| DOMINATOR 5" 140/65B M/T | 550 | 132 | 1 1/4" |

# DOMINATOR 5

PUMPS FOR OPEN AND DRILLED WELLS

## DOMINATOR 5 RW

PUMPS FOR OPEN AND DRILLED WELLS

- 100% stainless steel
- Ready to use
- Water recovery and re-use
- Reduce water consumption



### DESCRIPTION

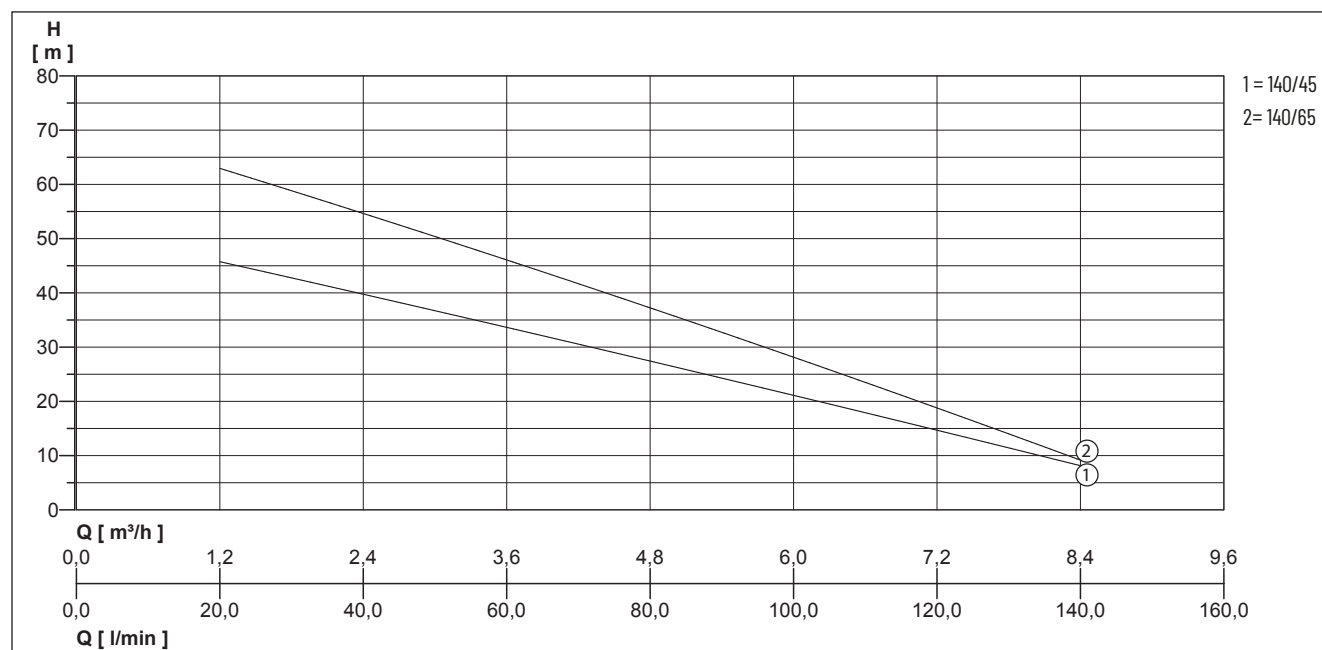
DOMINATOR 5 RW Pack is a system consisting of a multi-stage submersible centrifugal pump complete with an on/off device, intake tube, floating filter and 20 m of nylon rope.

Ready to use for applications using rain water.

### APPLICATIONS

- Lifting of water from wells and rainwater collection tanks
- Small automatic systems for garden irrigation
- Rainwater recovery systems
- Surface irrigation

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                          | Flow rate Q [m³/h]  | 1.2  | 2.4  | 3.6  | 4.8  | 6    | 7.2  | 8.4 |
|-------------------------------|---------------------|------|------|------|------|------|------|-----|
| DOMINATOR 5 140/45B M RW Pack | Delivery head H [m] | 47.0 | 38.0 | 33.0 | 28.0 | 22.0 | 15.0 | 7.5 |
| DOMINATOR 5 140/65B M RW Pack |                     | 63.0 | 55.0 | 45.0 | 38.0 | 28.0 | 19.0 | 9.0 |

# DOMINATOR 5 RW

PUMPS FOR OPEN AND DRILLED WELLS

## MECHANICAL DATA

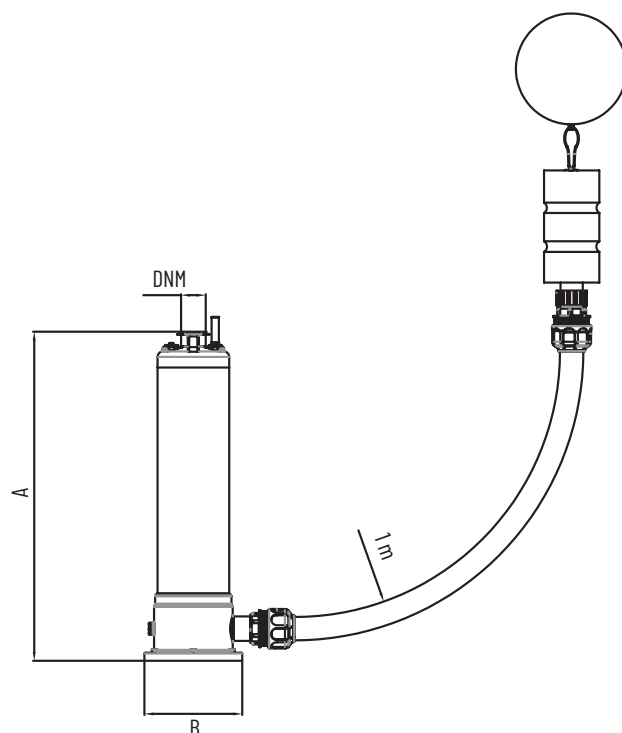
|               |                                                                                                                                            |                                |                                                              |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------|
| Bearing       | Self-lubricating ball bearings.                                                                                                            | Pump housing                   | Stainless steel Europe:<br>EN10088-1 X 5 CrNi 1810 (1.4301)  |
| Oil chamber   | Yes                                                                                                                                        |                                | USA: AISI 304                                                |
| Shaft         | Part in contact with the liquid<br>- Stainless steel Europe: EN<br>10088-1 X5CrNi18-10 (1.4301)/<br>USA: AISI 304 Motor side<br>- Graphite | Submersible                    | Yes                                                          |
| Impeller      | Stainless steel X5CrNi18-10<br>(AISI 304)                                                                                                  | Diffuser                       | Stainless steel X5CrNi18-10<br>(AISI 304)                    |
| Motor housing | Stainless steel                                                                                                                            | Type of liquid                 | clean water without suspended<br>solids or abrasive material |
|               |                                                                                                                                            | Temperature of the liquid max. | 40 °C                                                        |
|               |                                                                                                                                            | Suction height max             | 17 m                                                         |

## ELECTRICAL DATA

|                   |              |                |                      |
|-------------------|--------------|----------------|----------------------|
| Voltage           | 1/N/PE~230 V | Plug           | Safety               |
| Power line        | 20m H07RN-F  | Rotation speed | 2850 rpm             |
| Type of enclosure | IP 68        | Motor cooling  | gepumpte Flüssigkeit |
| Insulation class  | F            |                |                      |

## DOMINATOR 5 RW

| Type                          | Code No.        | Motor rating |        | Current | Weight  |
|-------------------------------|-----------------|--------------|--------|---------|---------|
|                               |                 | P1           | P2     |         |         |
| DOMINATOR 5 140/45B M RW Pack | <b>N3191370</b> | 1.3 kW       | 0.9 kW | 6.0 A   | 20.4 kg |
| DOMINATOR 5 140/65B M RW Pack | <b>N3191360</b> | 1.7 kW       | 1.2 kW | 7.7 A   | 22.0 kg |



## DIMENSIONS [mm]

| Type                          | A   | B     | DNM    |
|-------------------------------|-----|-------|--------|
| DOMINATOR 5 140/45B M RW Pack | 540 | 176,5 | 1 1/4" |
| DOMINATOR 5 140/65B M RW Pack | 594 | 176,5 | 1 1/4" |

## SCM 4 PLUS

PUMPS FOR OPEN AND DRILLED WELLS

- Maximum rigidity and resistance to water hammer
- Strong resistance to the abrasive action of sand
- Excellent hydraulic efficiency



### DESCRIPTION

SCM 4 PLUS submersible pumps consist of a multi-stage pumping unit directly coupled to a submersed motor. Particularly suitable for lifting from deep wells with  $\varnothing$  4" (100 mm).

### APPLICATIONS

- Lifting of water from boreholes.
- Pressurization systems and irrigation
- Irrigation for agricultural use.
- Aqueducts for drinking water.
- Lifting and supply of tanks and pressurization autoclaves, for civil and industrial systems.

### MECHANICAL DATA

|              |                                                                                            |                                |                                                                |
|--------------|--------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------|
| Shaft        | Hexagonal in stainless steel X10 CrNiS1809 (AISI 303) with ceramic insert at point of wear | Diffuser                       | Polycarbonate with ceramic insert at point of wear             |
| Impeller     | Acetal resin                                                                               | Type of liquid                 | Clean, non-aggressive, non-explosive, free of solid particles. |
| Pump housing | Stainless steel X5 CrNi 1810 (AISI 304)                                                    | Temperature of the liquid max. | 35 °C                                                          |
| Submersible  | Yes                                                                                        |                                |                                                                |

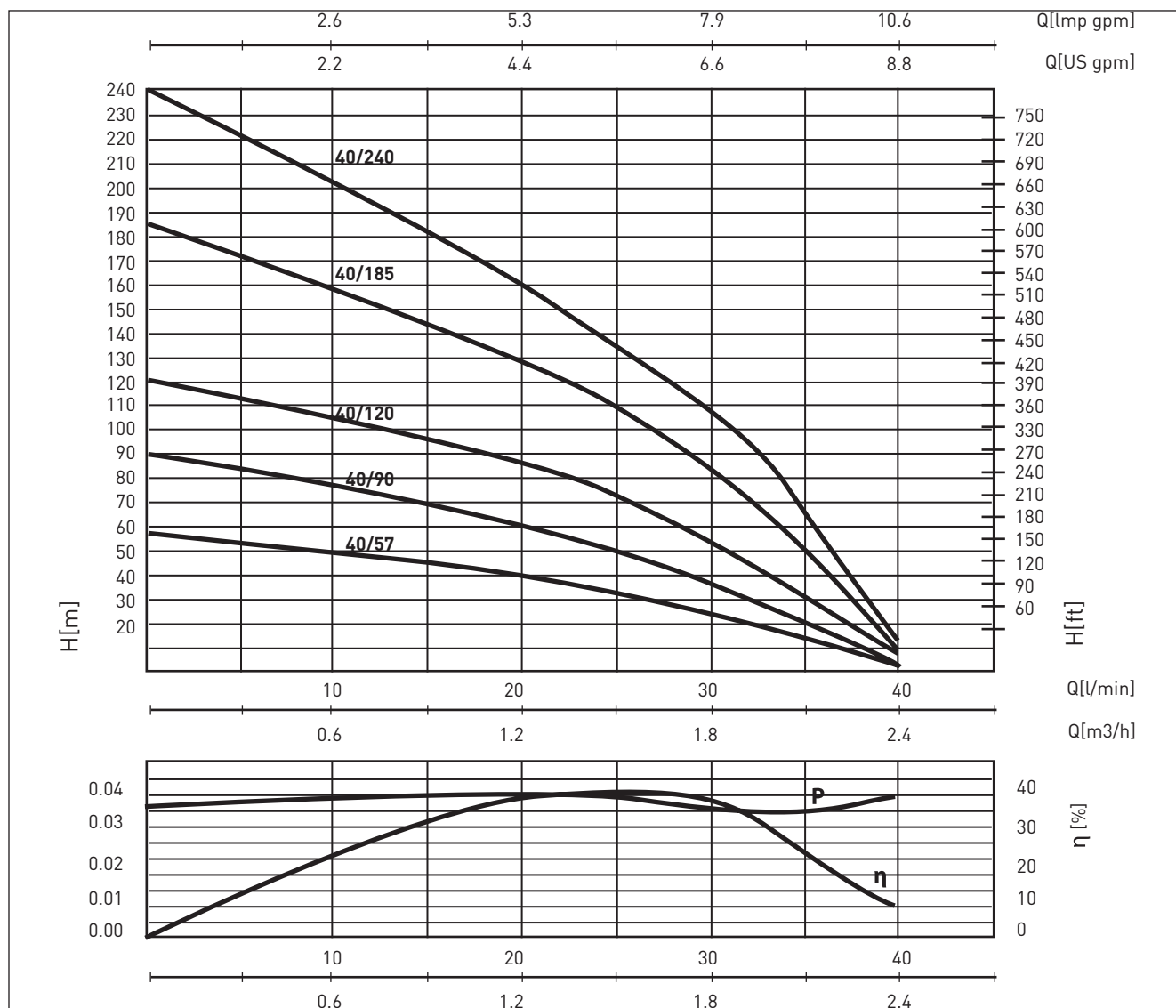
### ELECTRICAL DATA

|                   |       |                |          |
|-------------------|-------|----------------|----------|
| Type of enclosure | IP 68 | Rotation speed | 2850 rpm |
| Insulation class  | B     |                |          |

# SCM 4 PLUS 40

PUMPS FOR OPEN AND DRILLED WELLS

## PERFORMANCE



The power curve refers to the shaft power per stage. % indicates the hydraulic yield of the pump  $MEI \geq 0.4$  - Reference  $MEI \geq 0.70$  - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

| Type                        | Flow rate Q [m³/h]  | 0.6 | 1.2 | 1.8 | 2.4 |
|-----------------------------|---------------------|-----|-----|-----|-----|
| SCM4 Plus 40/57-M+40/57-T   | Delivery head H [m] | 49  | 41  | 26  | 3   |
| SCM4 Plus 40/90-M+40/90-T   |                     | 76  | 64  | 40  | 4   |
| SCM4 Plus 40/120-M+40/120-T |                     | 104 | 86  | 55  | 7   |
| SCM4 Plus 40/185-M+40/185-T |                     | 158 | 130 | 85  | 10  |
| SCM4 Plus 40/240-M+40/240-T |                     | 205 | 160 | 110 | 12  |

# SCM 4 PLUS 40

PUMPS FOR OPEN AND DRILLED WELLS

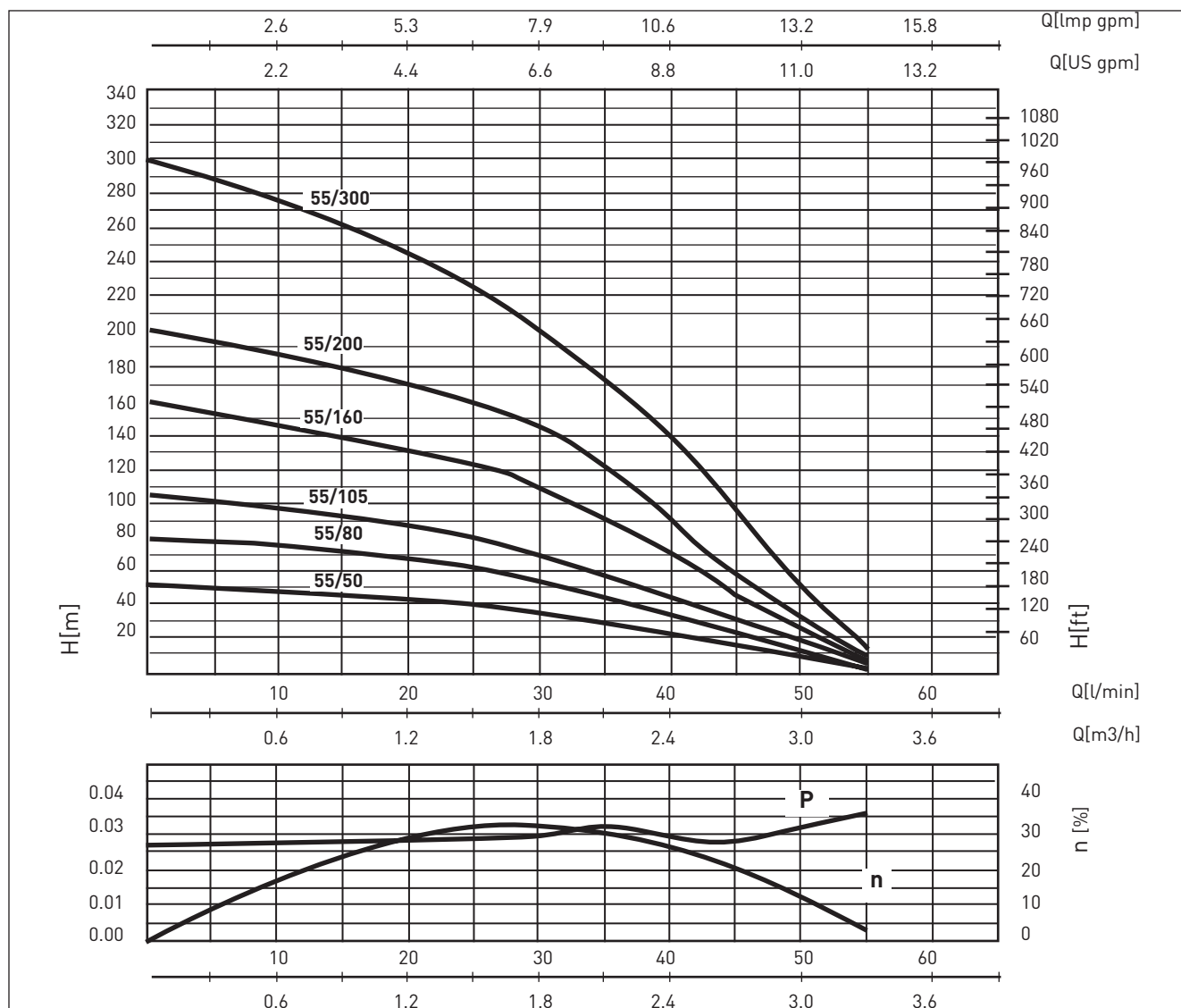
## SCM 4 PLUS 40

| Type               | Code No.        | Voltage      | Motor rating P2 | Current | N. stages | Weight  |
|--------------------|-----------------|--------------|-----------------|---------|-----------|---------|
| SCM4 Plus 40/57-M  | <b>N3181000</b> | 1/N/PE~230 V | 0.37 kW         | 3.4 A   | 9         | 11.8 kg |
| SCM4 Plus 40/57-T  | <b>N3181010</b> | 3/N/PE~400 V | 0.37 kW         | 1.2 A   | 9         | 10.8 kg |
| SCM4 Plus 40/90-M  | <b>N3181020</b> | 1/N/PE~230 V | 0.55 kW         | 4.4 A   | 14        | 14.0 kg |
| SCM4 Plus 40/90-T  | <b>N3181030</b> | 3/N/PE~400 V | 0.55 kW         | 1.7 A   | 14        | 12.7 kg |
| SCM4 Plus 40/120-M | <b>N3181040</b> | 1/N/PE~230 V | 0.75 kW         | 5.9 A   | 19        | 16.1 kg |
| SCM4 Plus 40/120-T | <b>N3181050</b> | 3/N/PE~400 V | 0.75 kW         | 2.2 A   | 19        | 14.9 kg |
| SCM4 Plus 40/185-M | <b>N3181060</b> | 1/N/PE~230 V | 1.10 kW         | 7.8 A   | 29        | 19.2 kg |
| SCM4 Plus 40/185-T | <b>N3181070</b> | 3/N/PE~400 V | 1.10 kW         | 3.0 A   | 29        | 17.9 kg |
| SCM4 Plus 40/240-M | <b>N3181080</b> | 1/N/PE~230 V | 1.50 kW         | 10.2 A  | 30        | 22.2 kg |
| SCM4 Plus 40/240-T | <b>N3181090</b> | 3/N/PE~400 V | 1.50 kW         | 4.0 A   | 30        | 20.8 kg |

# SCM 4 PLUS 55

PUMPS FOR OPEN AND DRILLED WELLS

## PERFORMANCE



The power curve refers to the shaft power per stage. % indicates the hydraulic yield of the pump MEI  $\geq 0.4$  - Reference MEI  $\geq 0.70$  - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

| Type                        | Flow rate Q [m³/h]  | 0.6 | 1.2 | 1.8 | 2.4 | 3  |
|-----------------------------|---------------------|-----|-----|-----|-----|----|
| SCM4 Plus 55/50-M+55/50-T   | Delivery head H [m] | 47  | 42  | 36  | 23  | 8  |
| SCM4 Plus 55/80-M+55/80-T   |                     | 75  | 66  | 55  | 35  | 12 |
| SCM4 Plus 55/105-M+55/105-T |                     | 98  | 87  | 72  | 46  | 12 |
| SCM4 Plus 55/160-M+55/160-T |                     | 145 | 132 | 110 | 70  | 24 |
| SCM4 Plus 55/200-M+55/200-T |                     | 187 | 169 | 145 | 90  | 30 |
| SCM4 Plus 55/300-T          |                     | 278 | 244 | 200 | 140 | 50 |



# SCM 4 PLUS 55

PUMPS FOR OPEN AND DRILLED WELLS

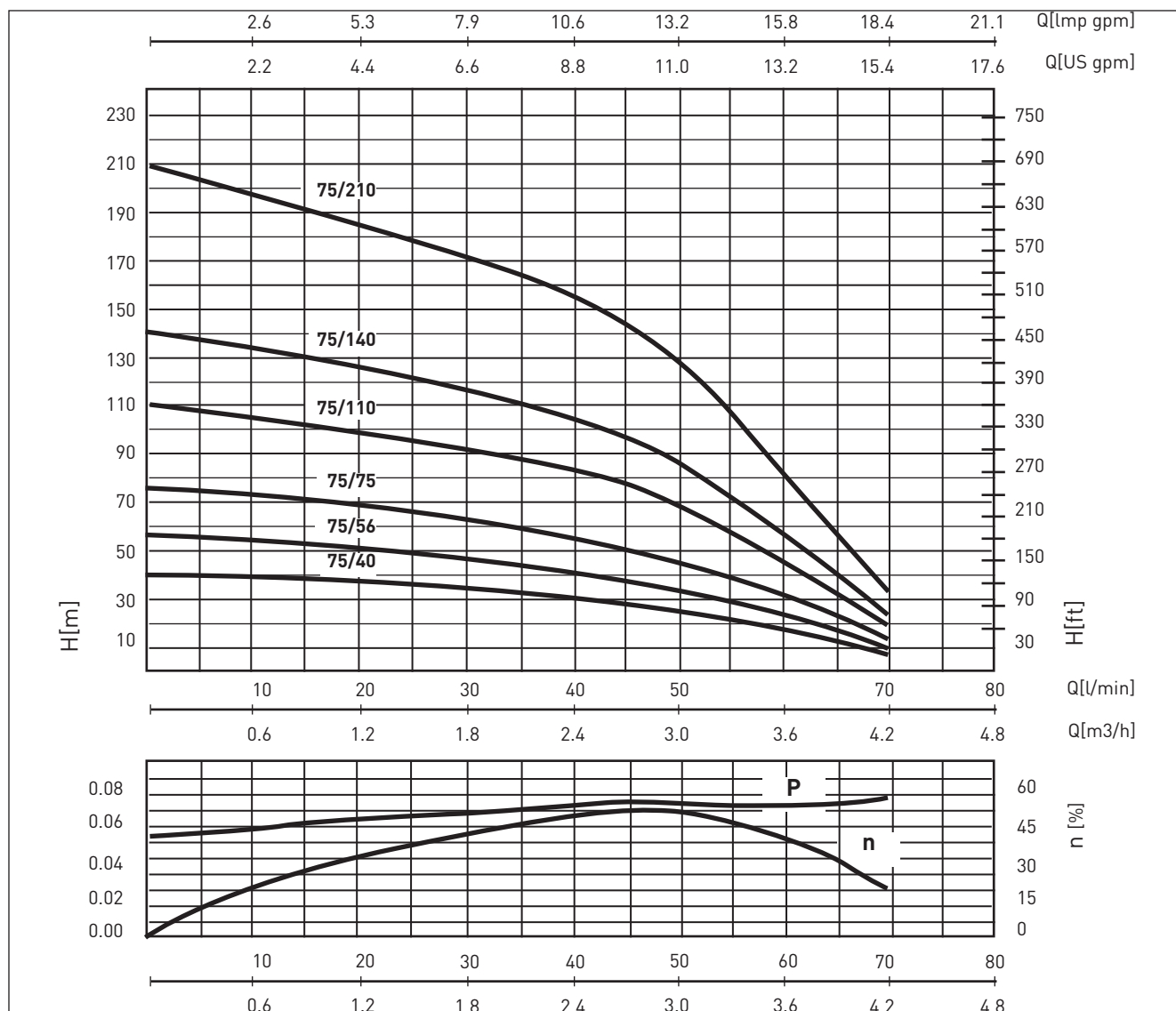
## SCM 4 PLUS 55

| Type               | Code No.        | Voltage      | Motor rating P2 | Current | N. stages | Weight  |
|--------------------|-----------------|--------------|-----------------|---------|-----------|---------|
| SCM4 Plus 55/50-M  | <b>N3182000</b> | 1/N/PE~230 V | 0.37 kW         | 3.4 A   | 6         | 11.3 kg |
| SCM4 Plus 55/50-T  | <b>N3182010</b> | 3/N/PE~400 V | 0.37 kW         | 1.2 A   | 6         | 10.3 kg |
| SCM4 Plus 55/80-M  | <b>N3182020</b> | 1/N/PE~230 V | 0.55 kW         | 4.4 A   | 10        | 13.1 kg |
| SCM4 Plus 55/80-T  | <b>N3182030</b> | 3/N/PE~400 V | 0.55 kW         | 1.7 A   | 10        | 11.8 kg |
| SCM4 Plus 55/105-M | <b>N3182040</b> | 1/N/PE~230 V | 0.75 kW         | 5.9 A   | 12        | 14.9 kg |
| SCM4 Plus 55/105-T | <b>N3182050</b> | 3/N/PE~400 V | 0.75 kW         | 2.2 A   | 12        | 13.7 kg |
| SCM4 Plus 55/160-M | <b>N3182060</b> | 1/N/PE~230 V | 1.10 kW         | 7.8 A   | 18        | 17.3 kg |
| SCM4 Plus 55/160-T | <b>N3182070</b> | 3/N/PE~400 V | 1.10 kW         | 3.0 A   | 18        | 16.0 kg |
| SCM4 Plus 55/200-M | <b>N3182080</b> | 1/N/PE~230 V | 1.50 kW         | 10.2 A  | 24        | 19.8 kg |
| SCM4 Plus 55/200-T | <b>N3182090</b> | 3/N/PE~400 V | 1.50 kW         | 4.0 A   | 24        | 18.4 kg |
| SCM4 Plus 55/300-T | <b>N3182100</b> | 3/N/PE~400 V | 2.20 kW         | 5.6 A   | 37        | 22.3 kg |

# SCM 4 PLUS 75

PUMPS FOR OPEN AND DRILLED WELLS

## PERFORMANCE



The power curve refers to the shaft power per stage. % indicates the hydraulic yield of the pump MEI ≥ 0.4 - Reference MEI ≥ 0.70 - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

| Type                        | Flow rate Q [m³/h]  | 1.2 | 1.8 | 2.4 | 3   | 3.6 |
|-----------------------------|---------------------|-----|-----|-----|-----|-----|
| SCM4 Plus 75/40-M+75/40-T   | Delivery head H [m] | 36  | 33  | 28  | 23  | 15  |
| SCM4 Plus 75/56-M+75/56-T   |                     | 50  | 45  | 40  | 32  | 21  |
| SCM4 Plus 75/75-M+75/75-T   |                     | 67  | 62  | 55  | 45  | 30  |
| SCM4 Plus 75/110-M+75/110-T |                     | 100 | 92  | 82  | 68  | 44  |
| SCM4 Plus 75/140-M+75/140-T |                     | 127 | 116 | 105 | 86  | 57  |
| SCM4 Plus 75/210-T          |                     | 186 | 170 | 155 | 130 | 80  |

# SCM 4 PLUS 75

PUMPS FOR OPEN AND DRILLED WELLS

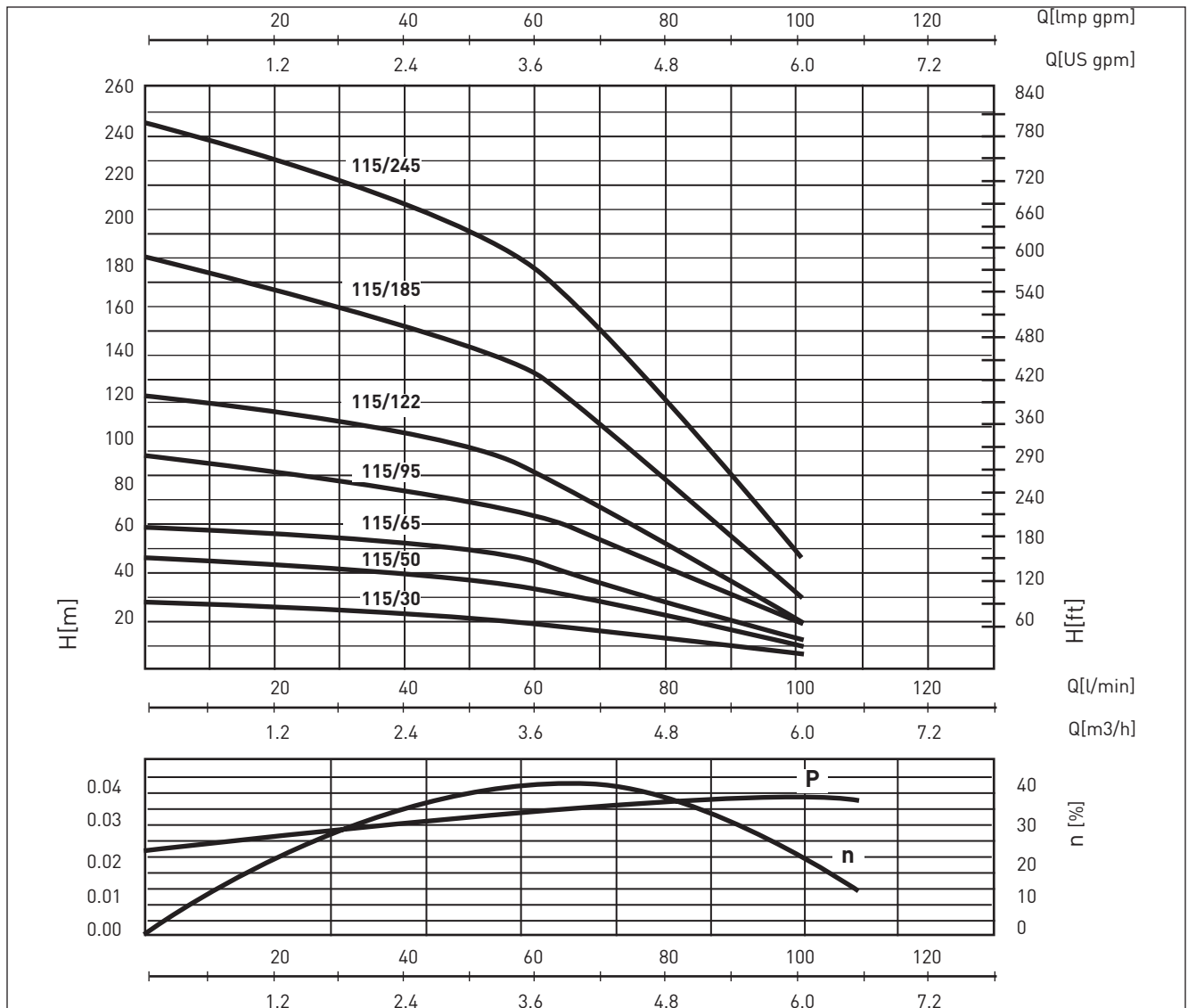
## SCM 4 PLUS 75

| Type               | Code No.        | Voltage      | Motor rating P2 | Current | N. stages | Weight  |
|--------------------|-----------------|--------------|-----------------|---------|-----------|---------|
| SCM4 Plus 75/40-M  | <b>N3183000</b> | 1/N/PE~230 V | 0.37 kW         | 3.4 A   | 6         | 11.2 kg |
| SCM4 Plus 75/40-T  | <b>N3183010</b> | 3/N/PE~400 V | 0.37 kW         | 1.2 A   | 6         | 10.2 kg |
| SCM4 Plus 75/56-M  | <b>N3183020</b> | 1/N/PE~230 V | 0.55 kW         | 4.4 A   | 8         | 12.9 kg |
| SCM4 Plus 75/56-T  | <b>N3183030</b> | 3/N/PE~400 V | 0.55 kW         | 1.7 A   | 8         | 11.6 kg |
| SCM4 Plus 75/75-M  | <b>N3183040</b> | 1/N/PE~230 V | 0.75 kW         | 5.9 A   | 11        | 14.8 kg |
| SCM4 Plus 75/75-T  | <b>N3183050</b> | 3/N/PE~400 V | 0.75 kW         | 2.2 A   | 11        | 13.6 kg |
| SCM4 Plus 75/75-T  | <b>N3186140</b> | 3/N/PE~230 V | 0.75 kW         | 3.8 A   | 11        | 13.6 kg |
| SCM4 Plus 75/110-M | <b>N3183060</b> | 1/N/PE~230 V | 1.10 kW         | 7.8 A   | 16        | 17.1 kg |
| SCM4 Plus 75/110-T | <b>N3183070</b> | 3/N/PE~400 V | 1.10 kW         | 3.0 A   | 16        | 15.8 kg |
| SCM4 Plus 75/140-M | <b>N3183080</b> | 1/N/PE~230 V | 1.50 kW         | 10.2 A  | 20        | 19.4 kg |
| SCM4 Plus 75/140-T | <b>N3183090</b> | 3/N/PE~400 V | 1.50 kW         | 4.0 A   | 20        | 18.0 kg |
| SCM4 Plus 75/210-T | <b>N3183100</b> | 3/N/PE~400 V | 2.20 kW         | 5.6 A   | 30        | 21.5 kg |

# SCM 4 PLUS 115

PUMPS FOR OPEN AND DRILLED WELLS

## PERFORMANCE



The power curve refers to the shaft power per stage. % indicates the hydraulic yield of the pump MEI  $\geq 0.4$  - Reference MEI  $\geq 0.70$  - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

| Type                          | Flow rate Q [m³/h]  | 1.8   | 2.4   | 3     | 3.6   | 4.8   | 5.4  | 6    |
|-------------------------------|---------------------|-------|-------|-------|-------|-------|------|------|
| SCM4 Plus 115/30-M+115/30-T   | Delivery head H [m] | 26.0  | 24.0  | 22.0  | 20.0  | 13.0  | 9.0  | 6.4  |
| SCM4 Plus 115/50-M+115/50-T   |                     | 46.0  | 43.0  | 40.0  | 36.0  | 23.0  | 16.0 | 10.0 |
| SCM4 Plus 115/65-M+115/65-T   |                     | 58.0  | 55.0  | 51.0  | 46.0  | 29.0  | 20.0 | 11.0 |
| SCM4 Plus 115/95-M+115/95-T   |                     | 83.0  | 80.0  | 74.0  | 67.0  | 43.0  | 30.0 | 18.0 |
| SCM4 Plus 115/122-M+115/122-T |                     | 109.0 | 106.0 | 98.0  | 88.0  | 55.0  | 38.0 | 21.0 |
| SCM4 Plus 115/185-T           |                     | 160.0 | 153.0 | 143.0 | 130.0 | 85.0  | 58.0 | 31.0 |
| SCM4 Plus 115/245-T           |                     | 218.0 | 210.0 | 198.0 | 179.0 | 118.0 | 84.0 | 47.0 |

# SCM 4 PLUS 115

PUMPS FOR OPEN AND DRILLED WELLS

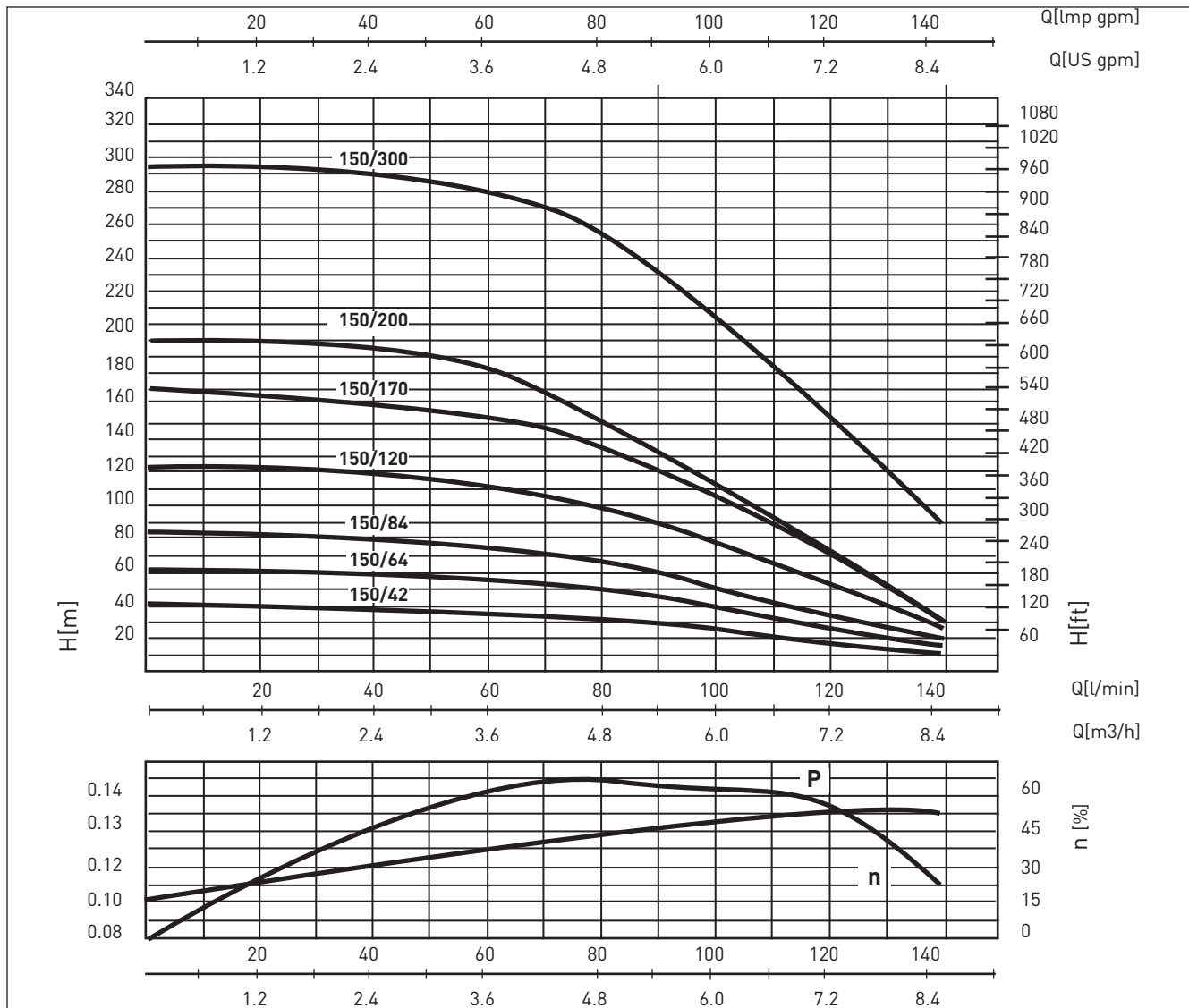
## SCM 4 PLUS 115

| Type                | Code No.        | Voltage      | Motor rating P2 | Current | N. stages | Weight  |
|---------------------|-----------------|--------------|-----------------|---------|-----------|---------|
| SCM4 Plus 115/30-M  | <b>N3184000</b> | 1/N/PE~230 V | 0.37 kW         | 3.4 A   | 4         | 11.0 kg |
| SCM4 Plus 115/30-T  | <b>N3184010</b> | 3/N/PE~400 V | 0.37 kW         | 1.2 A   | 4         | 10.0 kg |
| SCM4 Plus 115/50-M  | <b>N3184020</b> | 1/N/PE~230 V | 0.55 kW         | 4.4 A   | 7         | 12.8 kg |
| SCM4 Plus 115/50-T  | <b>N3184030</b> | 3/N/PE~400 V | 0.55 kW         | 1.7 A   | 7         | 11.5 kg |
| SCM4 Plus 115/65-M  | <b>N3184040</b> | 1/N/PE~230 V | 0.75 kW         | 5.9 A   | 9         | 14.4 kg |
| SCM4 Plus 115/65-T  | <b>N3184050</b> | 3/N/PE~400 V | 0.75 kW         | 2.2 A   | 9         | 13.2 kg |
| SCM4 Plus 115/65-T  | <b>N3186150</b> | 3/N/PE~230 V | 0.75 kW         | 3.8 A   | 9         | 13.2 kg |
| SCM4 Plus 115/95-M  | <b>N3184060</b> | 1/N/PE~230 V | 1.10 kW         | 7.8 A   | 13        | 16.6 kg |
| SCM4 Plus 115/95-T  | <b>N3184070</b> | 3/N/PE~400 V | 1.10 kW         | 3.0 A   | 13        | 15.3 kg |
| SCM4 Plus 115/95-T  | <b>N3186160</b> | 3/N/PE~230 V | 1.10 kW         | 5.2 A   | 13        | 15.3 kg |
| SCM4 Plus 115/122-M | <b>N3184080</b> | 1/N/PE~230 V | 1.50 kW         | 10.2 A  | 17        | 18.8 kg |
| SCM4 Plus 115/122-T | <b>N3184090</b> | 3/N/PE~400 V | 1.50 kW         | 4.0 A   | 17        | 17.4 kg |
| SCM4 Plus 115/185-T | <b>N3184100</b> | 3/N/PE~400 V | 2.20 kW         | 5.6 A   | 24        | 20.8 kg |
| SCM4 Plus 115/245-T | <b>N3184110</b> | 3/N/PE~400 V | 3.00 kW         | 7.5 A   | 33        | 25.0 kg |

# SCM 4 PLUS 150

PUMPS FOR OPEN AND DRILLED WELLS

## PERFORMANCE



The power curve refers to the shaft power per stage. % indicates the hydraulic yield of the pump MEI ≥ 0.4 - Reference MEI ≥ 0.70 - The information on the reference efficiency is available at the address: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

| Type                        | Flow rate Q [m³/h]  | 2.4 | 3   | 3.6 | 4.8 | 6   | 7.2 | 8.4 |
|-----------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|
| SCM4 Plus 150/42-M+150/42-T | Delivery head H [m] | 38  | 37  | 36  | 33  | 26  | 17  | 10  |
| SCM4 Plus 150/64-M+150/64-T |                     | 59  | 58  | 57  | 50  | 39  | 27  | 15  |
| SCM4 Plus 150/84-M+150/84-T |                     | 80  | 78  | 75  | 64  | 50  | 34  | 20  |
| SCM4 Plus 150/120-T         |                     | 116 | 113 | 108 | 96  | 77  | 53  | 26  |
| SCM4 Plus 150/170-T         |                     | 160 | 157 | 152 | 134 | 106 | 69  | 30  |
| SCM4 Plus 150/200-T         |                     | 191 | 188 | 179 | 152 | 112 | 71  | 32  |
| SCM4 Plus 150/300-T         |                     | 292 | 290 | 285 | 252 | 210 | 155 | 82  |

# SCM 4 PLUS 150

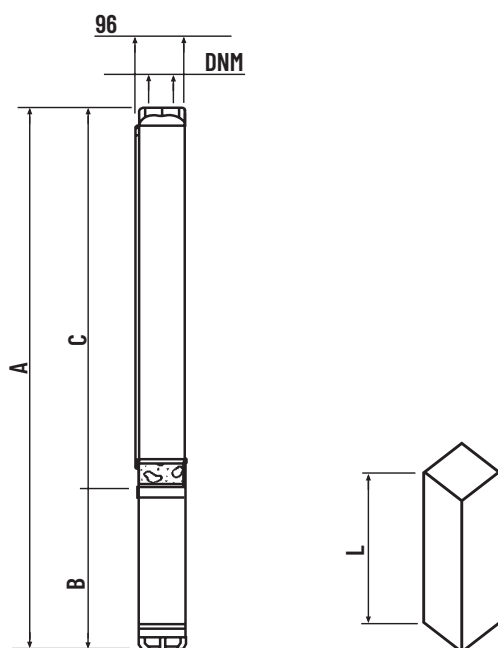
PUMPS FOR OPEN AND DRILLED WELLS

## SCM 4 PLUS 150

| Type                | Code No.        | Voltage      | Motor rating P2 | Current | N. stages | Weight  |
|---------------------|-----------------|--------------|-----------------|---------|-----------|---------|
| SCM4 Plus 150/42-M  | <b>N3185000</b> | 1/N/PE~230 V | 0.75 kW         | 5.9 A   | 6         | 14.0 kg |
| SCM4 Plus 150/42-T  | <b>N3185010</b> | 3/N/PE~400 V | 0.75 kW         | 2.2 A   | 6         | 12.8 kg |
| SCM4 Plus 150/42-T  | <b>N3186170</b> | 3/N/PE~230 V | 0.75 kW         | 3.8 A   | 6         | 12.8 kg |
| SCM4 Plus 150/64-M  | <b>N3185020</b> | 1/N/PE~230 V | 1.10 kW         | 7.8 A   | 9         | 16.1 kg |
| SCM4 Plus 150/64-T  | <b>N3185030</b> | 3/N/PE~400 V | 1.10 kW         | 3.0 A   | 9         | 14.8 kg |
| SCM4 Plus 150/64-T  | <b>N3186180</b> | 3/N/PE~230 V | 1.10 kW         | 5.2 A   | 9         | 14.8 kg |
| SCM4 Plus 150/84-M  | <b>N3185040</b> | 1/N/PE~230 V | 1.50 kW         | 10.2 A  | 12        | 18.3 kg |
| SCM4 Plus 150/84-T  | <b>N3185050</b> | 3/N/PE~400 V | 1.50 kW         | 4.0 A   | 12        | 16.9 kg |
| SCM4 Plus 150/120-T | <b>N3185060</b> | 3/N/PE~400 V | 2.20 kW         | 5.6 A   | 17        | 20.1 kg |
| SCM4 Plus 150/170-T | <b>N3185070</b> | 3/N/PE~400 V | 3.00 kW         | 7.5 A   | 24        | 24.2 kg |
| SCM4 Plus 150/200-T | <b>N3185080</b> | 3/N/PE~400 V | 4.00 kW         | 10.1 A  | 29        | 33.1 kg |
| SCM4 Plus 150/300-T | <b>N3185090</b> | 3/N/PE~400 V | 5.50 kW         | 13.6 A  | 42        | 42.3 kg |

# SCM 4 PLUS

PUMPS FOR OPEN AND DRILLED WELLS





# SCM 4 PLUS

PUMPS FOR OPEN AND DRILLED WELLS

## DIMENSIONS [mm]

| Type                | A    | B   | C    | L    | DNM    |
|---------------------|------|-----|------|------|--------|
| SCM4 Plus 40/57-M   | 584  | 250 | 334  | 610  | 1 1/4" |
| SCM4 Plus 40/57-T   | 569  | 235 | 334  | 610  | 1 1/4" |
| SCM4 Plus 40/90-M   | 711  | 265 | 446  | 800  | 1 1/4" |
| SCM4 Plus 40/90-T   | 696  | 250 | 446  | 800  | 1 1/4" |
| SCM4 Plus 40/120-M  | 853  | 295 | 558  | 960  | 1 1/4" |
| SCM4 Plus 40/120-T  | 823  | 265 | 558  | 960  | 1 1/4" |
| SCM4 Plus 40/185-M  | 1122 | 340 | 782  | 1330 | 1 1/4" |
| SCM4 Plus 40/185-T  | 1077 | 295 | 782  | 1120 | 1 1/4" |
| SCM4 Plus 40/240-M  | 1358 | 375 | 983  | 1580 | 1 1/4" |
| SCM4 Plus 40/240-T  | 1323 | 340 | 983  | 1330 | 1 1/4" |
| SCM4 Plus 55/50-M   | 517  | 250 | 267  | 610  | 1 1/4" |
| SCM4 Plus 55/50-T   | 502  | 235 | 267  | 610  | 1 1/4" |
| SCM4 Plus 55/80-M   | 622  | 265 | 357  | 800  | 1 1/4" |
| SCM4 Plus 55/80-T   | 607  | 250 | 357  | 800  | 1 1/4" |
| SCM4 Plus 55/105-M  | 696  | 295 | 401  | 800  | 1 1/4" |
| SCM4 Plus 55/105-T  | 666  | 265 | 401  | 800  | 1 1/4" |
| SCM4 Plus 55/160-M  | 875  | 340 | 535  | 960  | 1 1/4" |
| SCM4 Plus 55/160-T  | 830  | 295 | 535  | 960  | 1 1/4" |
| SCM4 Plus 55/200-M  | 1045 | 375 | 670  | 1120 | 1 1/4" |
| SCM4 Plus 55/200-T  | 1010 | 340 | 670  | 1120 | 1 1/4" |
| SCM4 Plus 55/300-T  | 1336 | 375 | 961  | 1580 | 1 1/4" |
| SCM4 Plus 75/40-M   | 553  | 250 | 303  | 610  | 1 1/4" |
| SCM4 Plus 75/40-T   | 538  | 235 | 303  | 610  | 1 1/4" |
| SCM4 Plus 75/56-M   | 625  | 265 | 360  | 800  | 1 1/4" |
| SCM4 Plus 75/56-T   | 610  | 250 | 360  | 800  | 1 1/4" |
| SCM4 Plus 75/75-M   | 740  | 295 | 445  | 800  | 1 1/4" |
| SCM4 Plus 75/75-T   | 710  | 265 | 445  | 800  | 1 1/4" |
| SCM4 Plus 75/110-M  | 928  | 340 | 588  | 960  | 1 1/4" |
| SCM4 Plus 75/110-T  | 883  | 295 | 588  | 960  | 1 1/4" |
| SCM4 Plus 75/140-M  | 1077 | 375 | 702  | 1120 | 1 1/4" |
| SCM4 Plus 75/140-T  | 1042 | 340 | 702  | 1120 | 1 1/4" |
| SCM4 Plus 75/210-T  | 1391 | 375 | 1016 | 1580 | 1 1/4" |
| SCM4 Plus 115/30-M  | 496  | 250 | 246  | 610  | 1 1/4" |
| SCM4 Plus 115/30-T  | 481  | 235 | 246  | 610  | 1 1/4" |
| SCM4 Plus 115/50-M  | 596  | 265 | 331  | 610  | 1 1/4" |
| SCM4 Plus 115/50-T  | 581  | 250 | 331  | 610  | 1 1/4" |
| SCM4 Plus 115/65-M  | 683  | 295 | 388  | 800  | 1 1/4" |
| SCM4 Plus 115/65-T  | 653  | 265 | 388  | 800  | 1 1/4" |
| SCM4 Plus 115/95-M  | 842  | 340 | 502  | 960  | 1 1/4" |
| SCM4 Plus 115/95-T  | 797  | 295 | 502  | 960  | 1 1/4" |
| SCM4 Plus 115/122-M | 992  | 375 | 617  | 1120 | 1 1/4" |
| SCM4 Plus 115/122-T | 957  | 340 | 617  | 960  | 1 1/4" |
| SCM4 Plus 115/185-T | 1221 | 375 | 846  | 1330 | 1 1/4" |
| SCM4 Plus 115/245-T | 1582 | 480 | 1102 | 1870 | 1 1/4" |
| SCM4 Plus 150/42-M  | 648  | 295 | 353  | 800  | 2"     |
| SCM4 Plus 150/42-T  | 618  | 265 | 353  | 800  | 2"     |
| SCM4 Plus 150/64-M  | 803  | 340 | 463  | 960  | 2"     |
| SCM4 Plus 150/64-T  | 758  | 295 | 463  | 800  | 2"     |
| SCM4 Plus 150/84-M  | 948  | 375 | 573  | 960  | 2"     |
| SCM4 Plus 150/84-T  | 913  | 340 | 573  | 960  | 2"     |
| SCM4 Plus 150/120-T | 1161 | 375 | 786  | 1330 | 2"     |
| SCM4 Plus 150/170-T | 1523 | 480 | 1043 | 1580 | 2"     |
| SCM4 Plus 150/200-T | 1781 | 555 | 1226 | 1870 | 2"     |
| SCM4 Plus 150/300-T | 2378 | 675 | 1703 | 2590 | 2"     |

# SCM 4 PLUS

PUMPS FOR OPEN AND DRILLED WELLS

## VERSAILLES

PUMPS FOR OPEN AND DRILLED WELLS

- 100% stainless steel
- Ready to use
- Optional accessories: Vulcano, Geyser and Bell



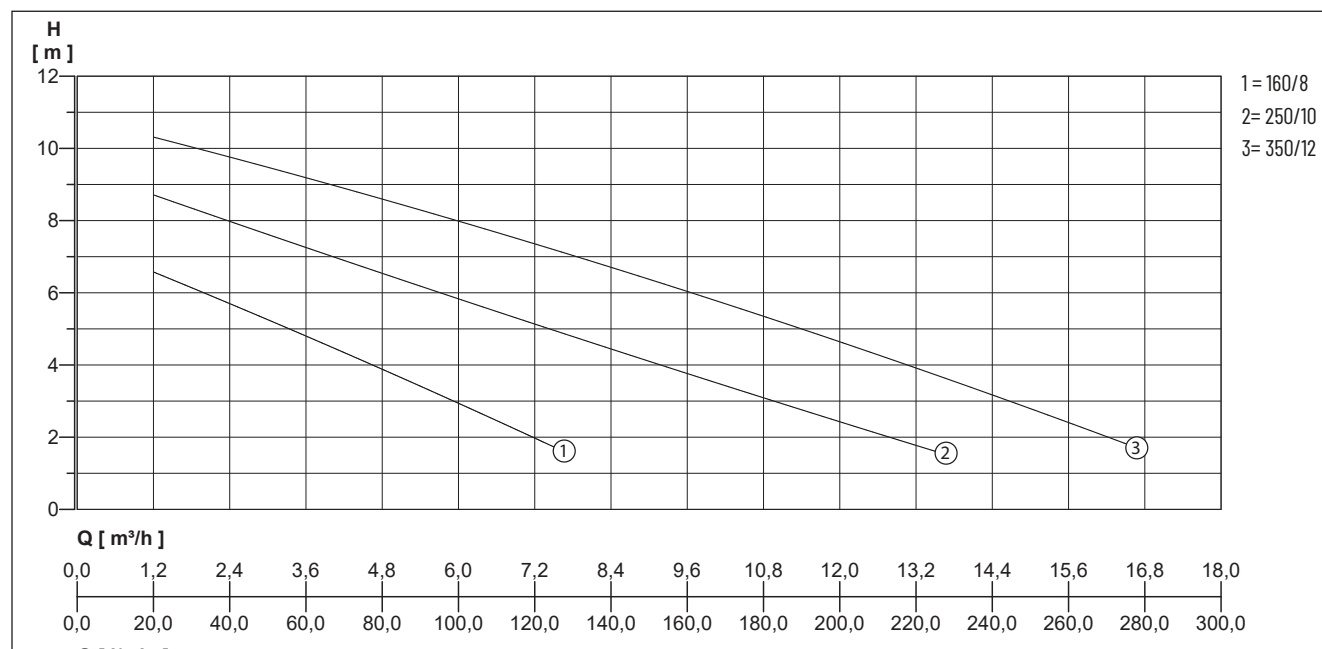
### DESCRIPTION

The pumps of the VERSAILLES series have been designed for fountains, water features and waterfalls in water gardens.

### APPLICATIONS

- Installation of fountains, water features, waterfalls in water parks.

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

### MECHANICAL DATA

|              |                                                                                                |                                |                                           |
|--------------|------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------|
| Free passage | 1.5 mm                                                                                         | Motor housing                  | Stainless steel                           |
| Bearing      | Self-lubricating ball bearings.                                                                | Pump housing                   | Stainless steel X 5 CrNiS 1810 (AISI 304) |
| Shaft        | Stainless steel X 12 CrS 13 ( AISI 416 ) with ceramic insert at the points of wear of the seal | Submersible                    | Yes                                       |
| Impeller     | Stainless steel X5CrNi18-10 (AISI 304)                                                         | Type of liquid                 | Clear water without solids.               |
|              |                                                                                                | Temperature of the liquid max. | 40 °C                                     |
|              |                                                                                                | Diving depth                   | 7 m                                       |

### ELECTRICAL DATA

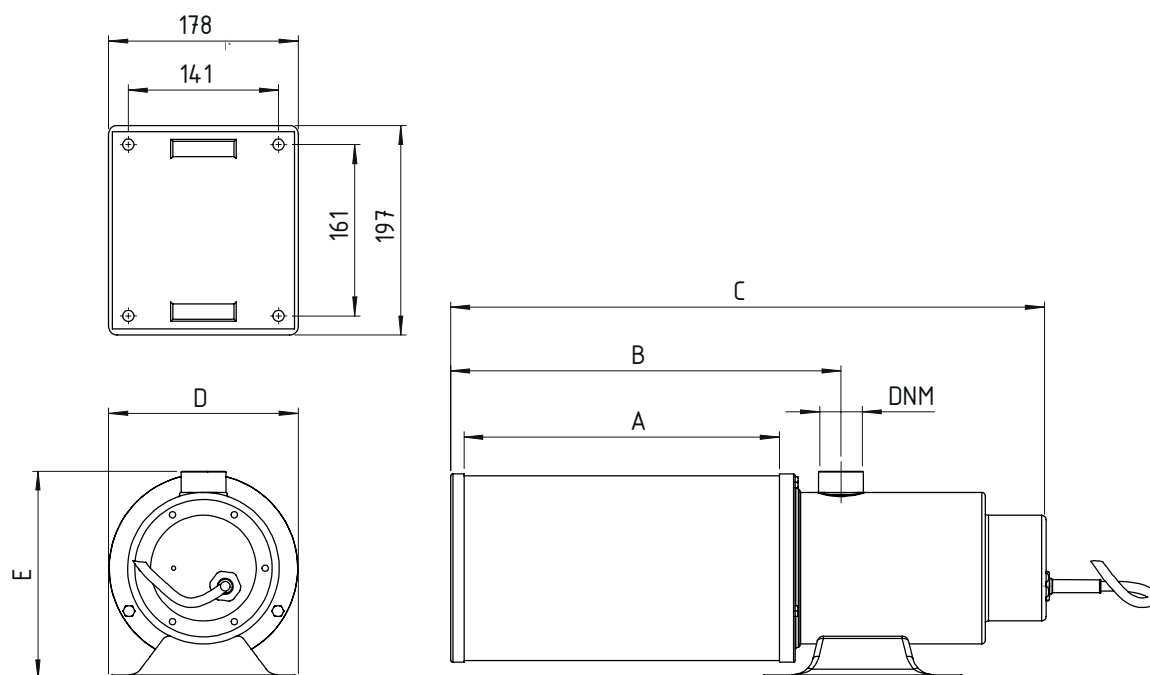
|                   |              |                  |          |
|-------------------|--------------|------------------|----------|
| Voltage           | 1/N/PE~230 V | Insulation class | F        |
| Power line        | 10m H07RN-F  | Plug             | Safety   |
| Type of enclosure | IP 68        | Rotation speed   | 2850 rpm |

# VERSAILLES

PUMPS FOR OPEN AND DRILLED WELLS

## VERSAILLES

| Type              | Code No.        | Motor rating |         | Current | Weight |
|-------------------|-----------------|--------------|---------|---------|--------|
|                   |                 | P1           | P2      |         |        |
| VERSAILLES 160/8  | <b>N2121010</b> | 0.45 kW      | 0.37 kW | 2.2 A   | 7.0 kg |
| VERSAILLES 250/10 | <b>N2121020</b> | 0.70 kW      | 0.50 kW | 4.5 A   | 7.8 kg |
| VERSAILLES 350/12 | <b>N2121030</b> | 1.20 kW      | 0.80 kW | 5.1 A   | 9.3 kg |



## DIMENSIONS [mm]

| Type              | A   | B   | C   | D   | E~  | DNM    |
|-------------------|-----|-----|-----|-----|-----|--------|
| VERSAILLES 160/8  | 144 | 231 | 425 | 178 | 195 | 1 1/4" |
| VERSAILLES 250/10 | 285 | 372 | 620 | 178 | 195 | 1 1/4" |
| VERSAILLES 350/12 | 285 | 372 | 620 | 178 | 195 | 1 1/4" |

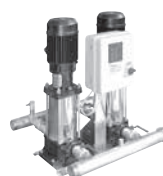
# SECTION 4

## BOOSTER SETS



**FP/MULTI EVO-A**  
BOOSTER SETS - FIX SPEED

PAG. 145



**PRESSOMAT**  
BOOSTER SETS - FIX SPEED

PAG. 181



**AUTOJET**  
BOOSTER SETS - FIX SPEED

PAG. 147



**CPS20**  
BOOSTER SETS - FIX SPEED

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**WP/MULTI EVO-A**  
BOOSTER SETS - FIX SPEED

PAG. 149



**VARIO 1-20/Multi EVO-E**  
BOOSTER SETS - VARIABLE SPEED

PAG. 195



**WATERPRESS**  
BOOSTER SETS - FIX SPEED

PAG. 153



**VARIO 1-20/Multi EVO-E P**  
BOOSTER SETS - VARIABLE SPEED

PAG. 199



**WATERPRESS INOX**  
BOOSTER SETS - FIX SPEED

PAG. 155



**VARIO 1-20**  
BOOSTER SETS - VARIABLE SPEED

PAG. 201



**WATERPRESS SUPERINOX**  
BOOSTER SETS - FIX SPEED

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**VARIO 3-20**  
BOOSTER SETS - VARIABLE SPEED

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**EASY20/MULTI EVO**  
BOOSTER SETS - FIX SPEED

PAG. 159



**VARIO 3-30**  
BOOSTER SETS - VARIABLE SPEED

PAG. 223



**EASYBOOST**  
BOOSTER SETS - FIX SPEED

PAG. 165

## ACCESSORIES

PAG. 249



## FP/MULTI EVO-A

### BOOSTER SETS - FIX SPEED

- Reduces water hammer effect
- Replaces traditional expansion tank system
- Requires no maintenance
- Protection against dry running
- Very easy to install
- High hydraulic performance
- Minimum consumption of electricity
- Extremely silent operation
- High-efficiency motors according to EU(2019)/1781



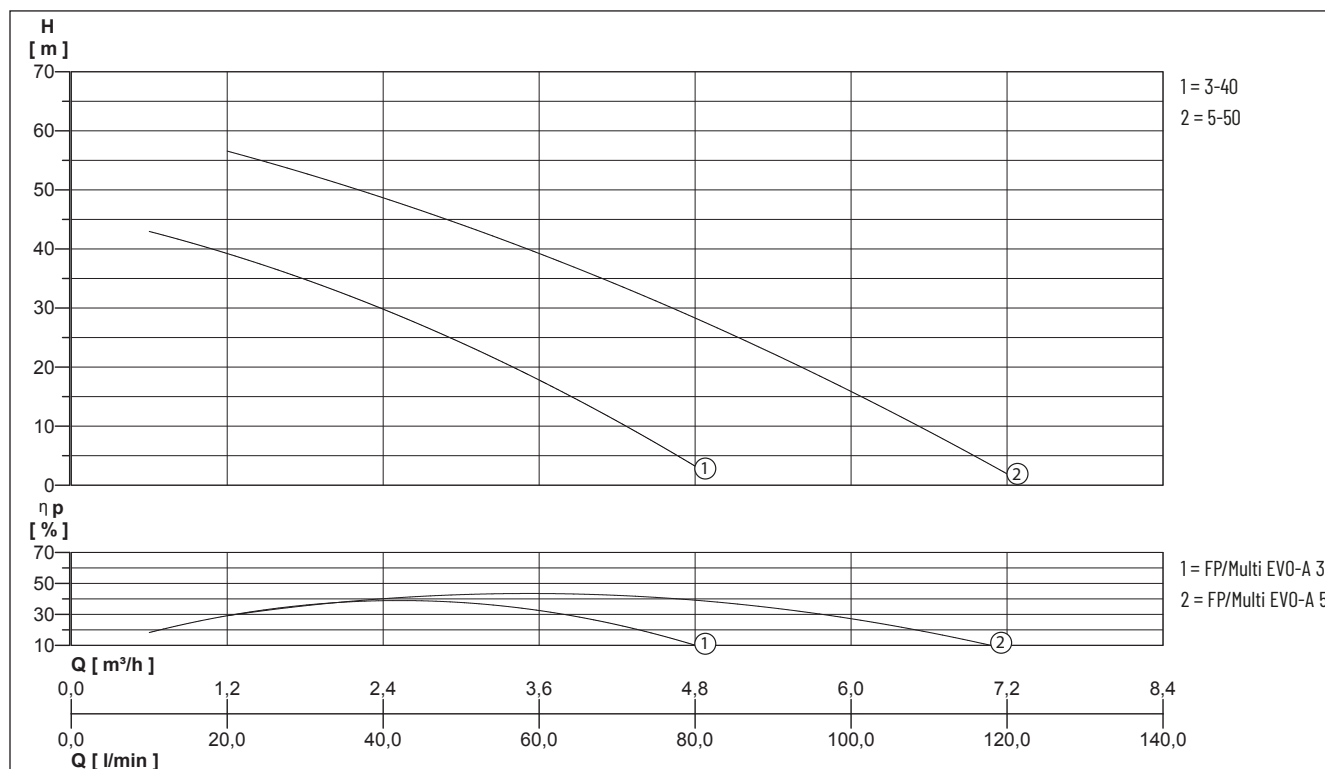
#### DESCRIPTION

Automatic unit to increase the pressure in the domestic water system. Consisting of a single phase pump like Multi EVO-A and of the electronic device FLUSSCONTROL BASIC, which controls the automatic operation of the pump and protects it in case of a lack of water. It comes assembled, wired, ready for installation and use.

#### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing systems
- Irrigation
- Recovery of rainwater

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                            | Flow rate Q [m³/h]  | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6  | 4.8  | 6    | 7.2 |
|---------------------------------|---------------------|------|------|------|------|------|------|------|------|-----|
| FP/Multi EVO-A 3-40 M 230V-50Hz | Delivery head H [m] | 42.5 | 39.5 | 35.5 | 30.0 | 23.5 | 17.5 | 3.5  |      |     |
| FP/Multi EVO-A 5-50 M 230V-50Hz |                     |      | 56.0 | 53.0 | 49.0 | 44.5 | 39.5 | 28.0 | 15.0 | 2.5 |

# FP/MULTI EVO-A

## BOOSTER SETS - FIX SPEED

### MECHANICAL DATA

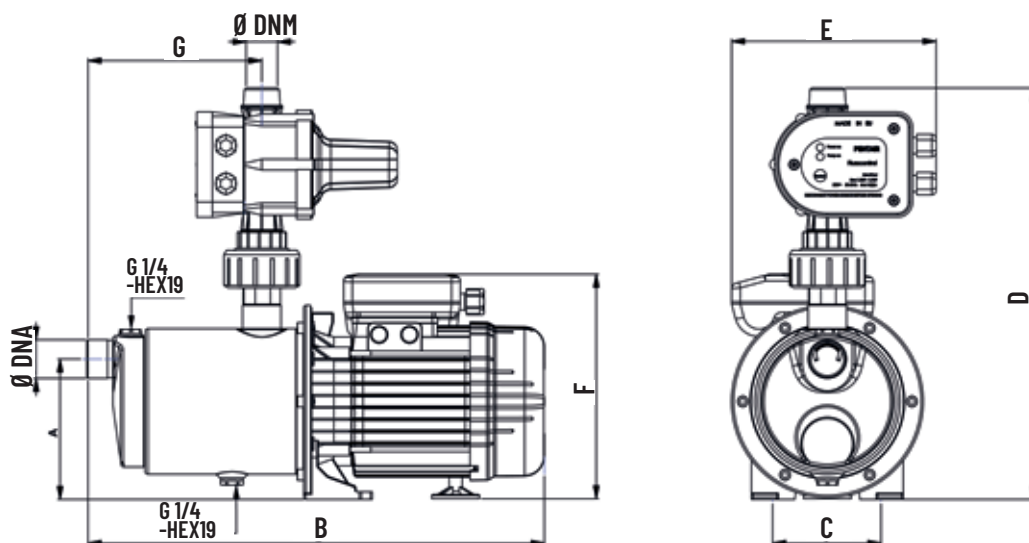
|                 |                                         |                                |                                                           |
|-----------------|-----------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft           | Stainless steel X5 CrNi 1810 (AISI 304) | Counterface                    | Ceramic / NBR                                             |
| Impeller        | PPO reinforced with fibreglass          | Operating pressure max.        | 8 bar                                                     |
| Motor housing   | Die-cast aluminium                      | Type of liquid                 | clean water without suspended solids or abrasive material |
| Pump housing    | Stainless steel X5 CrNi 1810 (AISI 304) | Temperature of the liquid max. | 50 °C                                                     |
| Diffuser        | PPO reinforced with fibreglass          | Suction height max             | 6 m                                                       |
| Mechanical seal | Carbon graphite / NBR / SS              | Gasket                         | NBR 70 Shore A                                            |

### ELECTRICAL DATA

|                   |              |                  |        |
|-------------------|--------------|------------------|--------|
| Voltage           | 1/N/PE~230 V | Insulation class | F      |
| Type of enclosure | IP 55        | Plug             | Safety |

### FP/MULTI EVO-A

| Type                            | Code No.        | Motor rating |         | Current | Weight  |
|---------------------------------|-----------------|--------------|---------|---------|---------|
|                                 |                 | P1           | P2      |         |         |
| FP/Multi EVO-A 3-40 M 230V-50Hz | <b>N4502542</b> | 0.75 kW      | 0.40 kW | 3.4 A   | 8.5 kg  |
| FP/Multi EVO-A 5-50 M 230V-50Hz | <b>N4504552</b> | 1.30 kW      | 0.75 kW | 6.0 A   | 11.8 kg |



### DIMENSIONS [mm]

| Type                            | A   | B   | C   | D   | F   | G   | DNA | DNM | E   |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| FP/Multi EVO-A 3-40 M 230V-50Hz | 129 | 380 | 100 | 380 | 199 | 139 | 1"  | 1"  | 190 |
| FP/Multi EVO-A 5-50 M 230V-50Hz | 129 | 422 | 100 | 380 | 207 | 162 | 1"  | 1"  | 190 |



# AUTOJET

## BOOSTER SETS - FIX SPEED

- Reduces water hammer effect
- Replaces traditional expansion tank system
- Maintenance free
- Protection against dry running
- Simple to install
- Pressure remains constant during supply
- High-efficiency motors according to EU(2019)/1781



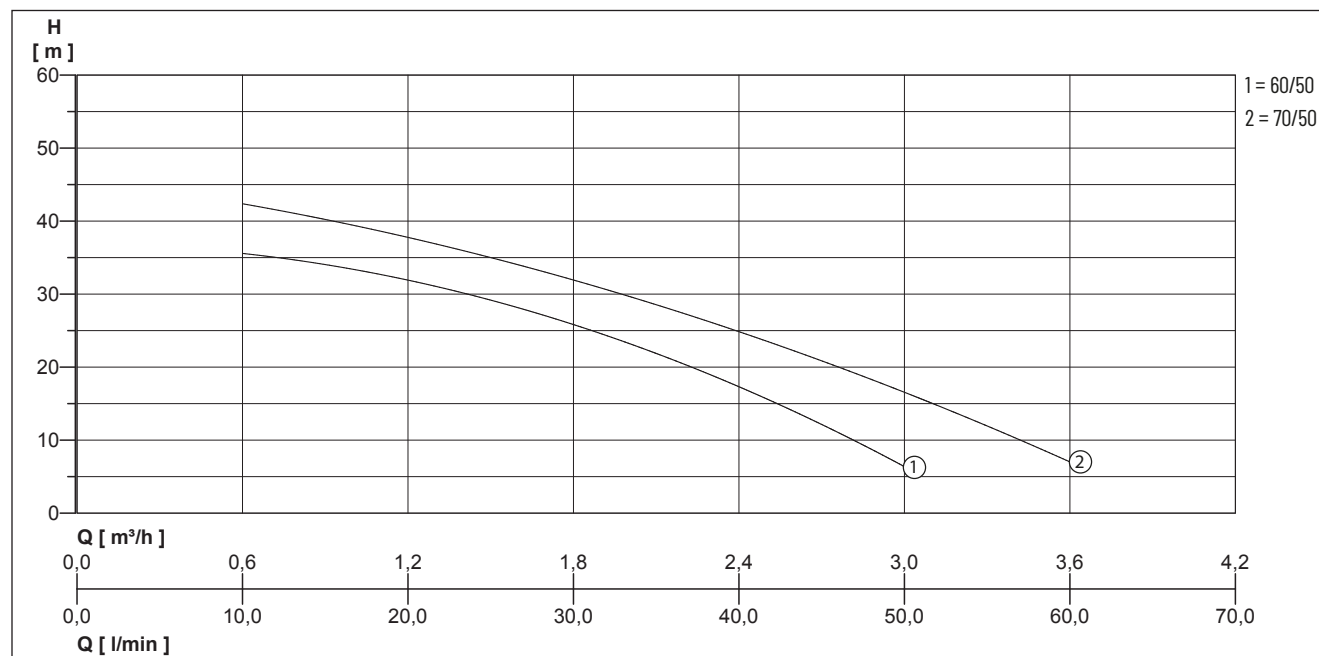
### DESCRIPTION

Automatic unit to increase the pressure in the domestic water system. Consisting of a single phase pump like Jetinox and of the electronic device FLUSSCONTROL BASIC, which controls the automatic operation of the pump and protects it in case of a lack of water. It comes assembled, wired, ready for installation and use.

### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing and irrigation

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type          | Flow rate Q [m³/h]  | 0    | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6 |
|---------------|---------------------|------|------|------|------|------|------|-----|
| AUTOJET 60/50 | Delivery head H [m] | 46.0 | 36.0 | 31.0 | 26.0 | 18.0 | 6.0  |     |
| AUTOJET 70/50 |                     | 48.0 | 42.5 | 37.5 | 32.0 | 25.0 | 16.5 | 7.0 |

# AUTOJET

## BOOSTER SETS - FIX SPEED

### MECHANICAL DATA

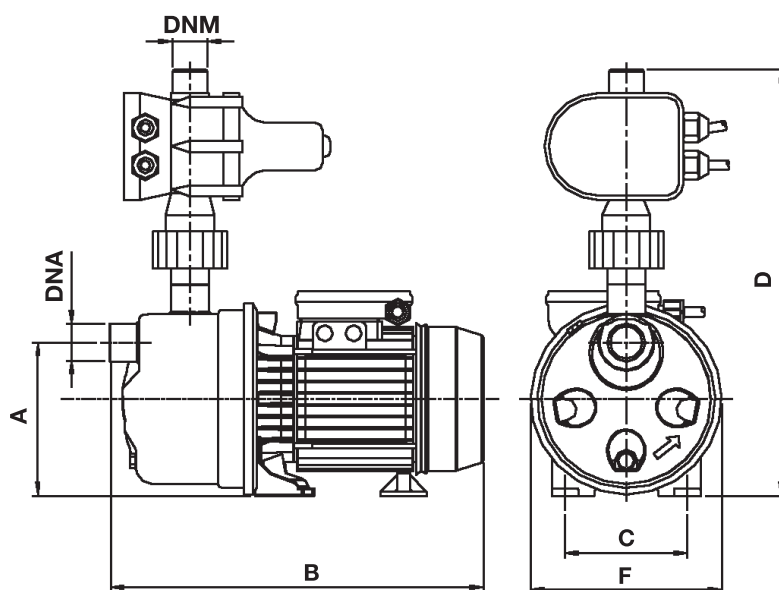
|               |                                              |                                |                                                           |
|---------------|----------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft         | Stainless steel X 12 CrNiS 1809 (AISI 416)   | Mechanical seal                | Graphite                                                  |
| Impeller      | Technopolymer with stainless steel shim ring | Counterface                    | Ceramic                                                   |
| Motor housing | Die-cast aluminium                           | Operating pressure max.        | 6 bar                                                     |
| Pump housing  | Stainless steel X5 CrNi 1810 (AISI 304)      | Type of liquid                 | clean water without suspended solids or abrasive material |
| Diffuser      | Technopolymer                                | Temperature of the liquid max. | 40 °C                                                     |
|               |                                              | Suction height max             | 8 m                                                       |
|               |                                              | Gasket                         | NBR 70 shore                                              |

### ELECTRICAL DATA

|                   |              |                  |        |
|-------------------|--------------|------------------|--------|
| Voltage           | 1/N/PE~230 V | Insulation class | F      |
| Power line        | 1,5m H07RN-F | Plug             | Safety |
| Type of enclosure | IP 44        |                  |        |

### AUTOJET

| Type          | Code No.        | Motor rating<br>P1 | P2      | Current | Weight  |
|---------------|-----------------|--------------------|---------|---------|---------|
| AUTOJET 60/50 | <b>N4176882</b> | 0.72 kW            | 0.45 kW | 3.2 A   | 9.4 kg  |
| AUTOJET 70/50 | <b>N4176872</b> | 1.00 kW            | 0.55 kW | 4.5 A   | 10.7 kg |



### DIMENSIONS [mm]

| Type          | A   | B   | C  | D   | F     | DNA  | DNM  | E   |
|---------------|-----|-----|----|-----|-------|------|------|-----|
| AUTOJET 60/50 | 140 | 374 | 99 | 391 | 176,5 | 1" F | 1" M | 194 |
| AUTOJET 70/50 | 144 | 351 | 99 | 397 | 179   | 1" F | 1" M | 195 |

## WP/MULTI EVO-A

### BOOSTER SETS - FIX SPEED

- Reduces water hammer effect
- Ideal as a water supply system in the building
- Ready to use
- Reduction of the starting frequency with the 50 l tank
- Very easy to install
- High-efficiency motors according to EU(2019)/1781



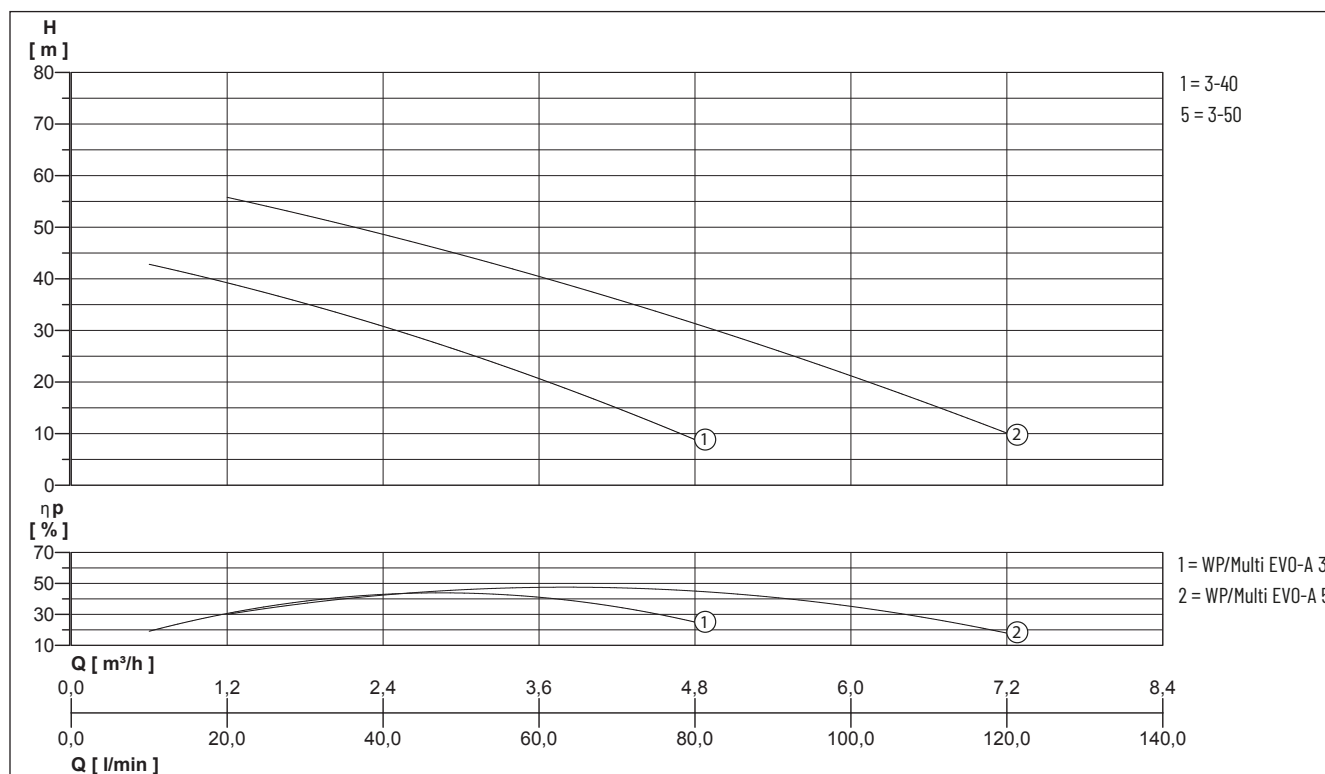
#### DESCRIPTION

The Pressure booster set WATERPRESS are made with self-priming multi-stage centrifugal pumps Multi EVO-A. They are supplied wired, complete with a 24 l or 50 l expansion module, ready for installation and use. All models are certified for use with drinking water (ACS).

#### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing systems
- Irrigation

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                                     | Flow rate Q [m³/h]  | 0.6  | 1.2  | 1.8  | 2.4  | 3    | 3.6  | 4.8  | 6    | 7.2  |
|------------------------------------------|---------------------|------|------|------|------|------|------|------|------|------|
| WP/Multi EVO-A 3-40 M/M-50l 230V-50Hz    | Delivery head H [m] | 42.5 | 39.5 | 35.5 | 31.0 | 25.5 | 20.5 | 9.0  |      |      |
| WP/Multi EVO-A 5-50 M-SS/M-50l 230V-50Hz |                     |      | 56.0 | 52.0 | 48.5 | 45.0 | 40.5 | 31.0 | 21.5 | 10.0 |

# WP/MULTI EVO-A

## BOOSTER SETS - FIX SPEED

### MECHANICAL DATA

|                 |                                         |                                |                                                           |
|-----------------|-----------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft           | Stainless steel X5 CrNi 1810 (AISI 304) | Counterface                    | Ceramic / NBR                                             |
| Impeller        | PPO reinforced with fibreglass          | Operating pressure max.        | 8 bar                                                     |
| Motor housing   | Die-cast aluminium                      | Type of liquid                 | clean water without suspended solids or abrasive material |
| Pump housing    | Stainless steel X5 CrNi 1810 (AISI 304) | Temperature of the liquid max. | 50 °C                                                     |
| Diffuser        | PPO reinforced with fibreglass          | Suction height max             | 8 m                                                       |
| Mechanical seal | Carbon graphite / NBR / SS              | Gasket                         | NBR 70 Shore A                                            |

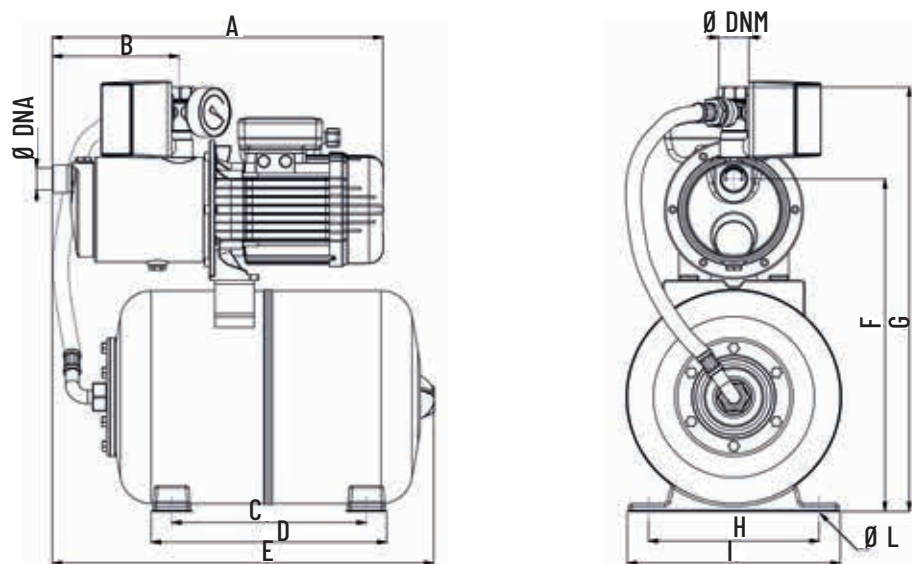
### ELECTRICAL DATA

|                   |                |                  |        |
|-------------------|----------------|------------------|--------|
| Voltage           | 1/N/PE~230 V   | Insulation class | F      |
| Power line        | 1.5 m H05 RN-F | Plug             | Safety |
| Type of enclosure | IP 55          |                  |        |

### WP/MULTI EVO-A

| Type                                | Code No.        | Motor rating<br>P1 | P2      | Current | Rotation<br>speed | Weight  |
|-------------------------------------|-----------------|--------------------|---------|---------|-------------------|---------|
| WP/Multi EVO-A 3-40 M 230V-50Hz     | <b>N5302540</b> | 0.75 kW            | 0.40 kW | 3.4 A   | -                 | 13.6 kg |
| WP/Multi EVO-A 3-40 M-50I 230V-50Hz | <b>N5302542</b> | 0.75 kW            | 0.40 kW | 3.4 A   | 2800 rpm          | 18.0 kg |
| WP/Multi EVO-A 5-50 M-SS 230V-50Hz  | <b>N5304551</b> | 1.30 kW            | 0.75 kW | 6.0 A   | -                 | 14.0 kg |
| WP/Multi EVO-A 5-50 M-50I 230V-50Hz | <b>N5304552</b> | 1.30 kW            | 0.75 kW | 6.0 A   | -                 | 20.5 kg |

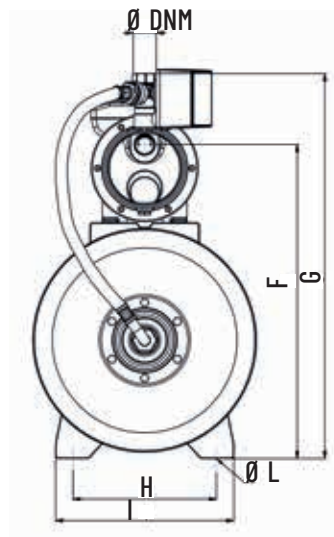
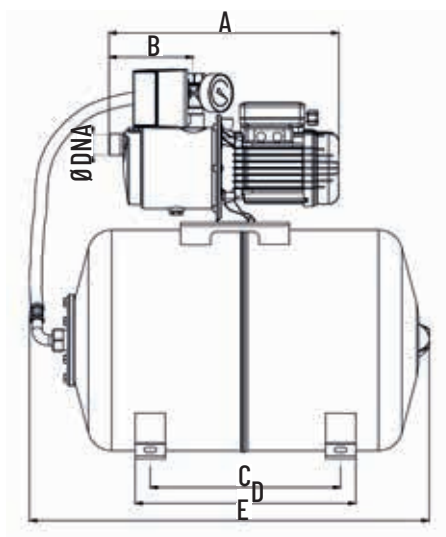
24 I



# WP/MULTI EVO-A

BOOSTER SETS - FIX SPEED

50 l



## DIMENSIONS [mm]

| Type                                | A   | B   | C   | D   | F   | G   | H   | I   | L  | DNA | DNM | E   |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| WP/Multi EVO-A 3-40 M 230V-50Hz     | 380 | 139 | 245 | 295 | 410 | 530 | 190 | 240 | 9  | 1"  | 1"  | 495 |
| WP/Multi EVO-A 3-40 M-50l 230V-50Hz | 380 | 139 | 315 | 365 | 520 | 640 | 242 | 295 | 9  | 1"  | 1"  | 660 |
| WP/Multi EVO-A 5-50 M-SS 230V-50Hz  | 422 | 162 | 248 | 300 | 435 | 540 | 218 | 272 | 11 | 1"  | 1"  | 490 |
| WP/Multi EVO-A 5-50 M-50l 230V-50Hz | 422 | 162 | 215 | 365 | 520 | 640 | 242 | 295 | 9  | 1"  | 1"  | 660 |

# WP/MULTI EVO-A

BOOSTER SETS - FIX SPEED

# WATERPRESS

## BOOSTER SETS - FIX SPEED

- Ready to use
- High reliability
- Continuous service
- High-efficiency motors according to EU(2019)/1781



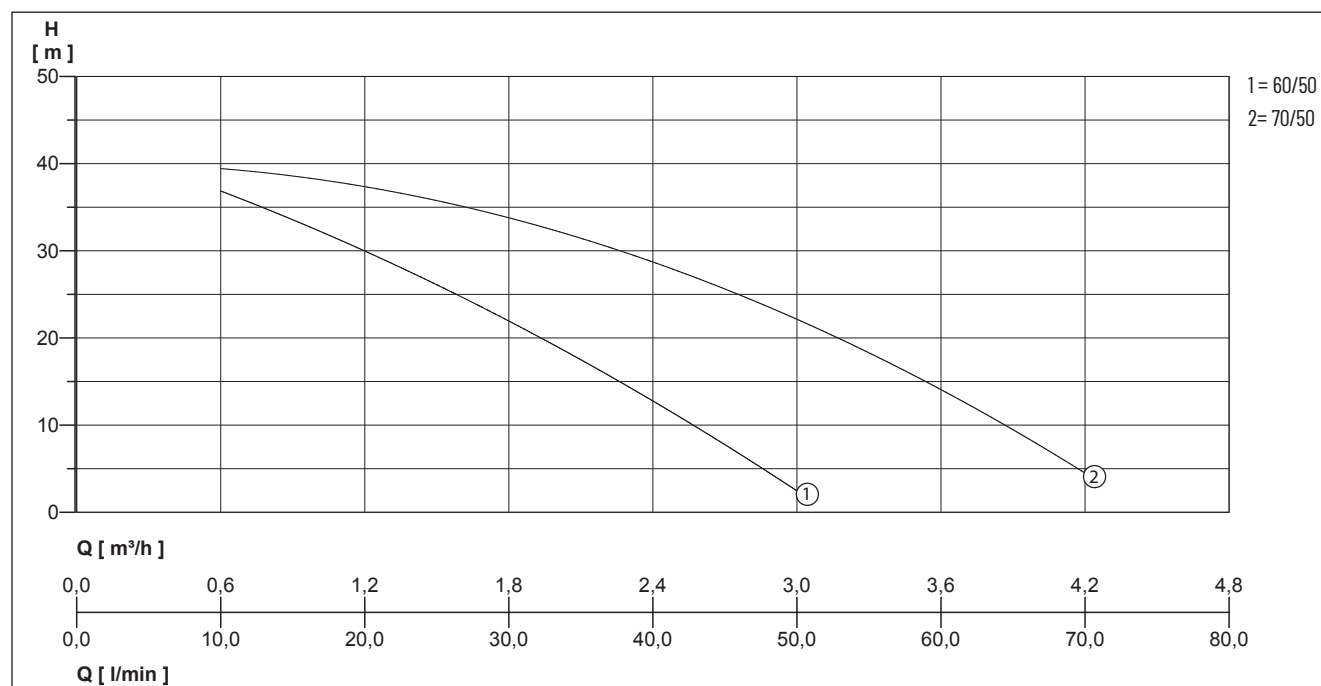
### DESCRIPTION

The pressure booster set WATERPRESS are made with self-priming multi-stage centrifugal pumps of the JET series. They are supplied wired, complete with a 24 lt pressure tank, ready for installation and use.

### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems and irrigation

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type             | Flow rate Q [m³/h]  | 0  | 0.3 | 1.2 | 1.8 | 2.4 | 3  | 3.6 | 4.2 |
|------------------|---------------------|----|-----|-----|-----|-----|----|-----|-----|
| WATERPRESS 60/50 | Delivery head H [m] | 46 | 36  | 31  | 24  | 9   | 4  |     |     |
| WATERPRESS 70/50 |                     | 49 | 41  | 36  | 32  | 28  | 25 | 15  | 3   |

# WATERPRESS

## BOOSTER SETS - FIX SPEED

### MECHANICAL DATA

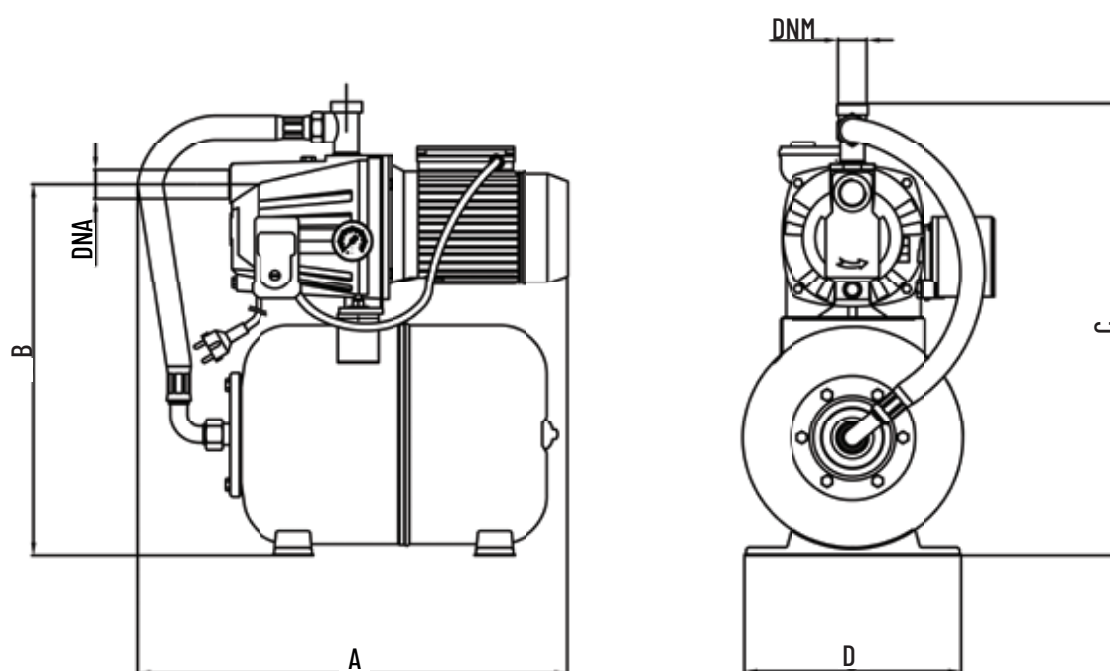
|                         |                                         |                                |                                                           |
|-------------------------|-----------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft                   | Stainless steel X5 CrNi 1810 (AISI 304) | Type of liquid                 | clean water without suspended solids or abrasive material |
| Pump housing            | Cast iron EN GJL 200                    | Temperature of the liquid max. | 50 °C                                                     |
| Mechanical seal         | Graphite                                | Suction height max             | 8 m                                                       |
| Counterface             | Ceramic                                 | Gasket                         | NBR 70 shore                                              |
| Operating pressure max. | 6 bar                                   |                                |                                                           |

### ELECTRICAL DATA

|                 |                |                   |        |
|-----------------|----------------|-------------------|--------|
| Voltage         | 1/N/PE~230 V   | Type of enclosure | IP 44  |
| Motor rating P2 | 0.55 kW        | Insulation class  | F      |
| Power line      | 1.5 m H05 RN-F | Plug              | Safety |

### WATERPRESS

| Type                                       | Code No.        | Motor rating P1 | Current | Impeller                                     | Diffuser                      | Weight  |
|--------------------------------------------|-----------------|-----------------|---------|----------------------------------------------|-------------------------------|---------|
| <b>Motor housing: Aluminum</b>             |                 |                 |         |                                              |                               |         |
| WATERPRESS 60/50                           | <b>N5209160</b> | 0.8 kW          | 4.0 A   | Technopolymer with stainless steel shim ring | Monobloc group. Technopolymer | 14.5 kg |
| <b>Motor housing: Cast iron EN GJL 200</b> |                 |                 |         |                                              |                               |         |
| WATERPRESS 70/50                           | <b>N5209732</b> | 1.0 kW          | 4.5 A   | Technopolymer                                | Technopolymer                 | 22.3 kg |



### DIMENSIONS [mm]

| Type             | A   | B   | C   | D   | DNA  | DNM  |
|------------------|-----|-----|-----|-----|------|------|
| WATERPRESS 60/50 | 510 | 430 | 470 | 260 | 1" F | 1" F |
| WATERPRESS 70/50 | 520 | 460 | 550 | 315 | 1" F | 1" F |



**WATERPRESS INOX**  
BOOSTER SETS - FIX SPEED

- Continuous service
- Ready to use
- Ideal as a water supply system
- in the building
- High-efficiency motors according to EU(2019)/1781



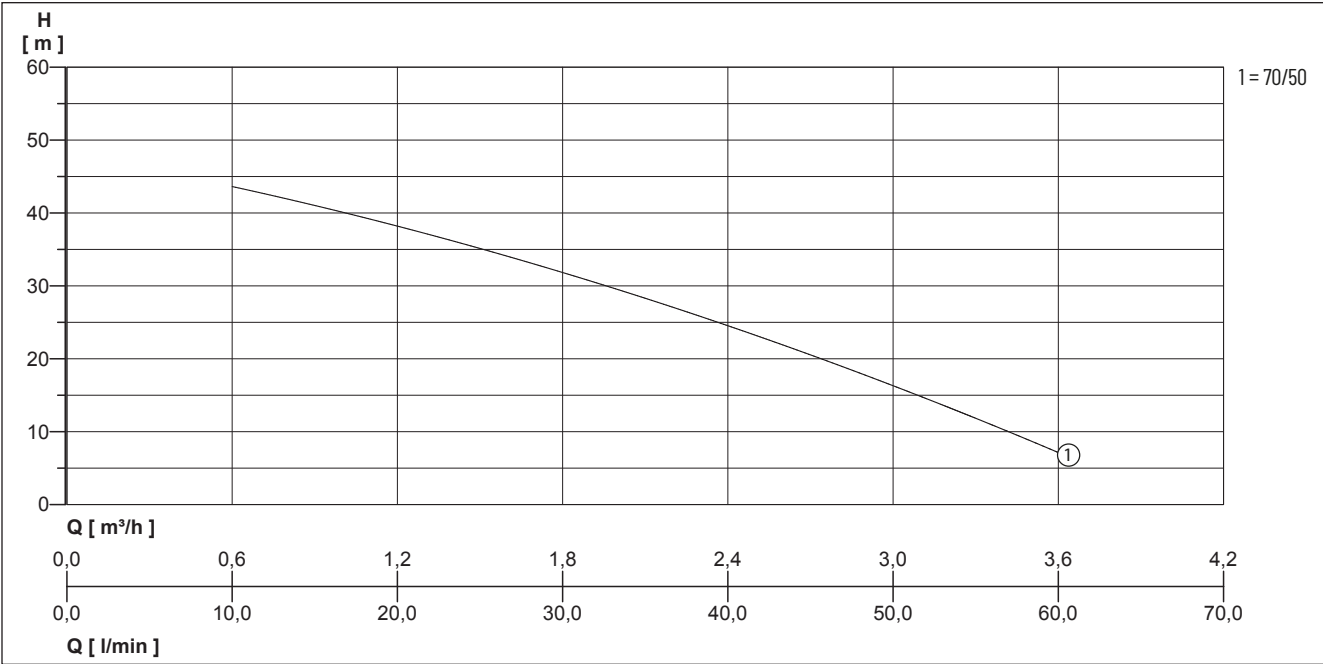
**DESCRIPTION**

The Pressure booster set WATERPRESS INOX are made with a JETINOX type pump. They are supplied wired, complete with a 24 lt expansion tank, ready for installation and use.

**APPLICATIONS**

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing and irrigation

**PERFORMANCE**



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                  | Flow rate Q [m³/h]  | 0    | 1.2  | 2.4  | 3.6 |
|-----------------------|---------------------|------|------|------|-----|
| WATERPRESS INOX 70/50 | Delivery head H [m] | 48.0 | 37.5 | 25.0 | 7.0 |

# WATERPRESS INOX

## BOOSTER SETS - FIX SPEED

### MECHANICAL DATA

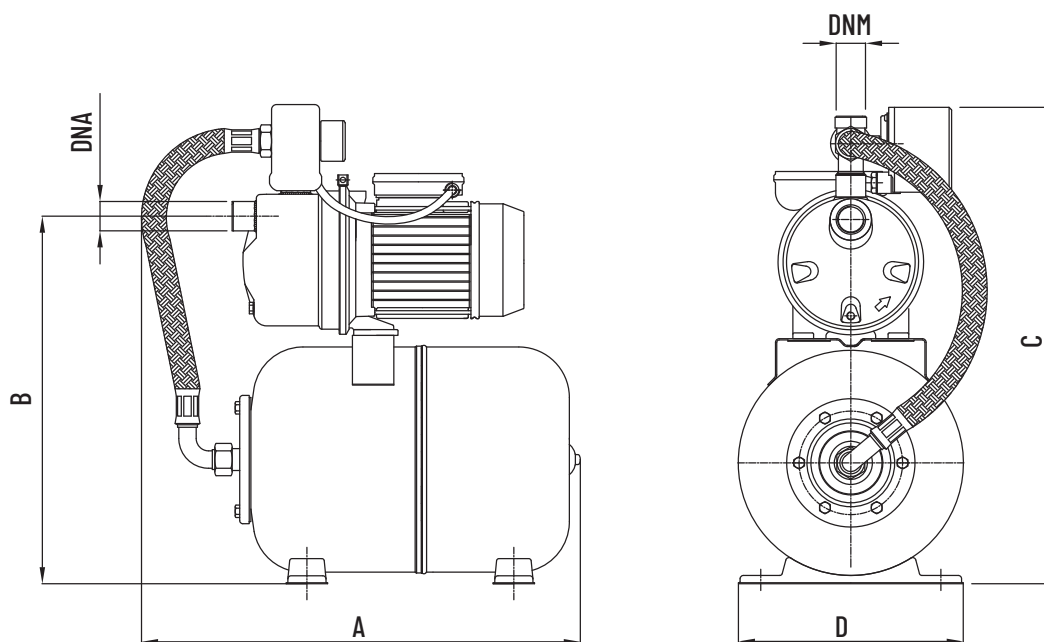
|                 |                                              |                                |                                                           |
|-----------------|----------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft           | Stainless steel X 12 CrNiS 1809 (AISI 416)   | Counterface                    | Ceramic                                                   |
| Impeller        | Technopolymer with stainless steel shim ring | Operating pressure max.        | 6 bar                                                     |
| Motor housing   | Die-cast aluminium                           | Type of liquid                 | clean water without suspended solids or abrasive material |
| Pump housing    | Stainless steel X5 CrNi 1810 (AISI 304)      | Temperature of the liquid max. | 50 °C                                                     |
| Diffuser        | Technopolymer                                | Suction height max             | 8 m                                                       |
| Mechanical seal | Graphite                                     | Gasket                         | NBR 70 shore                                              |
|                 |                                              | Weight                         | 13.8 kg                                                   |

### ELECTRICAL DATA

|                 |              |                   |                |
|-----------------|--------------|-------------------|----------------|
| Voltage         | 1/N/PE~230 V | Power line        | 1.5 m H05 RN-F |
| Motor rating P1 | 1 kW         | Type of enclosure | IP 44          |
| Motor rating P2 | 0.55 kW      | Insulation class  | F              |
| Current         | 4.5 A        | Plug              | Safety         |

### WATERPRESS INOX

|                       |          |
|-----------------------|----------|
| Type                  | Code No. |
| WATERPRESS INOX 70/50 | N5209752 |



### DIMENSIONS [mm]

| Type                  | A   | B   | C   | D   | DNA  | DNM  |
|-----------------------|-----|-----|-----|-----|------|------|
| WATERPRESS INOX 70/50 | 520 | 445 | 565 | 260 | 1" F | 1" F |

**PENTAIR STA-RITE**

# WATERPRESS SUPERINOX

BOOSTER SETS - FIX SPEED

- Pressure tank in stainless steel
- Continuous service
- High hydraulic efficiency
- High-efficiency motors according to EU(2019)/1781



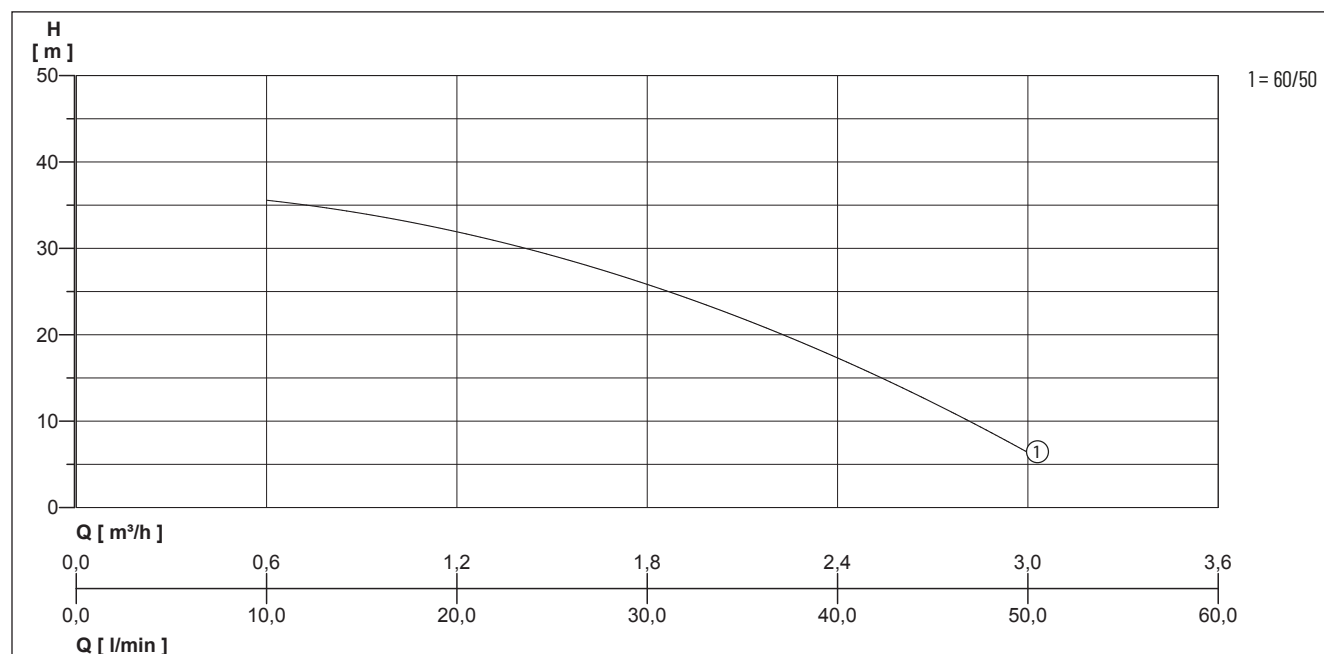
## DESCRIPTION

The Pressure booster set WATERPRESS SUPERINOX are made with a JETINOX self-priming centrifugal pump. They are supplied wired and complete with a stainless steel pressure tank.

## APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing and irrigation

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                         | Flow rate Q [m³/h]  | 0  | 0.6 | 1.2 | 1.8 | 2.4 | 3 |
|------------------------------|---------------------|----|-----|-----|-----|-----|---|
| WATERPRESS-SUPERINOX 60/50-C | Delivery head H [m] | 46 | 36  | 31  | 26  | 18  | 6 |

# WATERPRESS SUPERINOX

## BOOSTER SETS - FIX SPEED

### MECHANICAL DATA

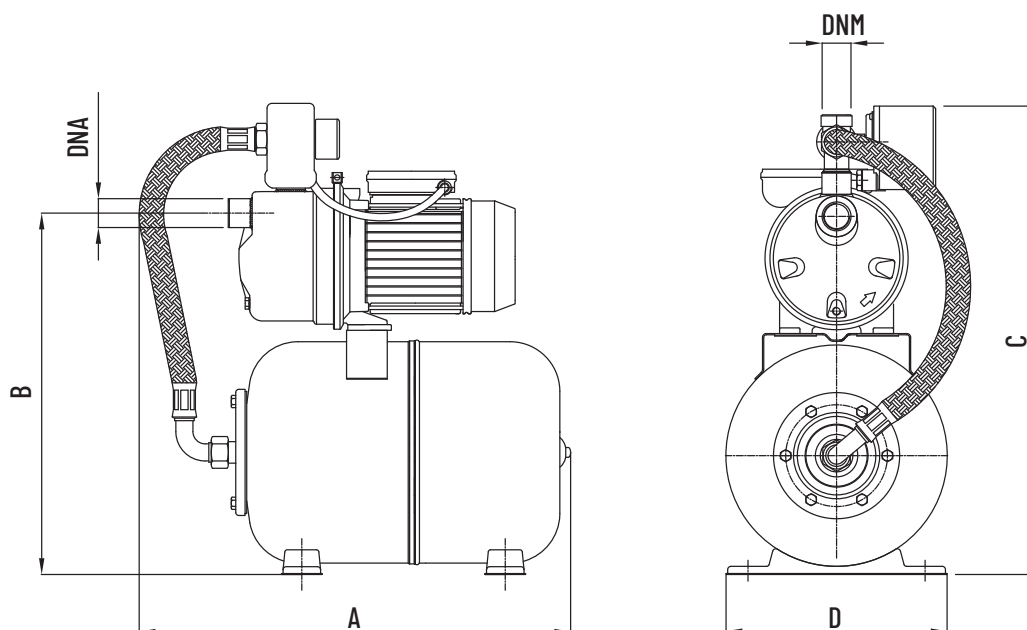
|                 |                                              |                                |                                                           |
|-----------------|----------------------------------------------|--------------------------------|-----------------------------------------------------------|
| Shaft           | Stainless steel X 12 CrNiS 1809 (AISI 416)   | Counterface                    | Ceramic                                                   |
| Impeller        | Technopolymer with stainless steel shim ring | Operating pressure max.        | 6 bar                                                     |
| Motor housing   | Die-cast aluminium                           | Type of liquid                 | clean water without suspended solids or abrasive material |
| Pump housing    | Stainless steel X5 CrNi 1810 (AISI 304)      | Temperature of the liquid max. | 50 °C                                                     |
| Diffuser        | Technopolymer                                | Suction height max             | 8 m                                                       |
| Mechanical seal | Graphite                                     | Gasket                         | NBR 70 shore                                              |
|                 |                                              | Weight                         | 11.2 kg                                                   |

### ELECTRICAL DATA

|                 |              |                   |                |
|-----------------|--------------|-------------------|----------------|
| Voltage         | 1/N/PE~230 V | Power line        | 1.5 m H05 RN-F |
| Motor rating P1 | 0.72 kW      | Type of enclosure | IP 44          |
| Motor rating P2 | 0.45 kW      | Insulation class  | F              |
| Current         | 3.2 A        | Plug              | Safety         |

### WATERPRESS SUPERINOX

| Type                         | Code No. |
|------------------------------|----------|
| WATERPRESS-SUPERINOX 60/50-C | N5209682 |



### DIMENSIONS [mm]

| Type                         | A   | B   | C   | D   | DNA  | DNM  |
|------------------------------|-----|-----|-----|-----|------|------|
| WATERPRESS-SUPERINOX 60/50-C | 530 | 425 | 550 | 272 | 1" F | 1" F |

## EASY20/MULTI EVO

BOOSTER SETS - FIX SPEED

- Compact dimensions
- Sturdy and resistant
- High hydraulic efficiency
- High-efficiency motors according to EU(2019)/1781



### DESCRIPTION

They are booster set for the automatic pressurization of water distribution systems with single phase power supply consisting of: 2 pumps, electrical panel, base, intake and delivery manifolds, pressure switches, pressure gauge and check valve in supply.

#### DESCRIPTION OF OPERATION

The pumps are controlled by two pressure switches with adjustable settings, via an electrical panel with an electronic board for:

- the sequential start-up of the pumps
- the inversion of the start-up order
- the settings for protection against dry running
- timer (adjustable from 0 to 180»)

When the network pressure reaches the value for the closing of the electrical contact of pressure switch n.1, a pump starts. If the pressure continues to drop, once the value of the closing pressure of the second pressure switch has been reached, the other pump starts. When the value of the network pressure increases, the pressure switches open their contact causing the relative pump to stop. At the end of each cycle, the automatic inverter changes the starting order of the pumps (once pressure switch n.1 is associated to pump n.1; in the next cycle to pump n.2).

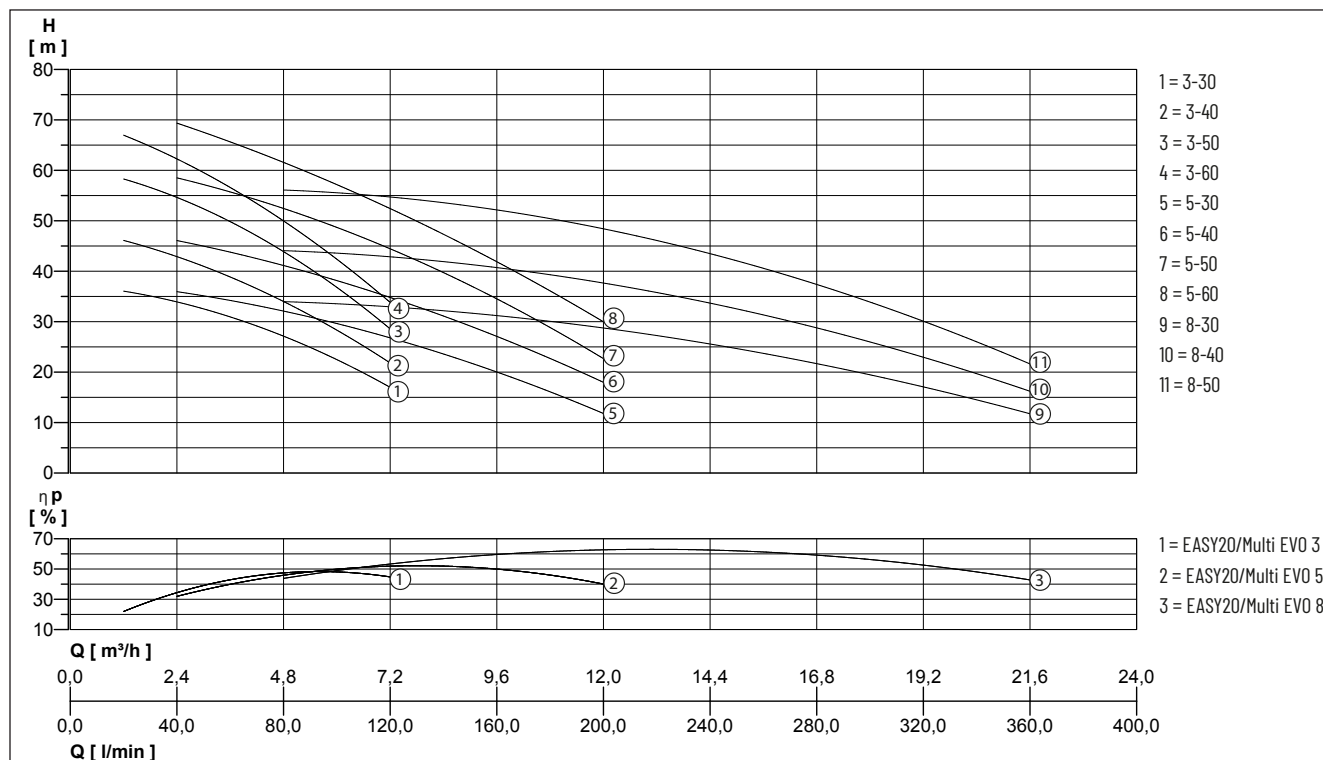
### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing systems
- Irrigation

# EASY20/MULTI EVO

BOOSTER SETS - FIX SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                           | Flow rate Q [m³/h]  | 1.2  | 2.4  | 3.6  | 4.8  | 6    | 7.2  | 9.6  | 12   | 14.4 | 16.8 | 19.2 | 21.6 |
|--------------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| EASY20/Multi EVO 3-30 M/T - GI | Delivery head H [m] | 36.0 | 34.0 | 31.0 | 27.0 | 22.5 | 17.0 |      |      |      |      |      |      |
| EASY20/Multi EVO 3-40 M/T - GI |                     | 46.0 | 43.0 | 39.0 | 34.0 | 28.0 | 22.0 |      |      |      |      |      |      |
| EASY20/Multi EVO 3-50 M/T - GI |                     | 58.0 | 55.0 | 50.0 | 44.0 | 36.0 | 29.0 |      |      |      |      |      |      |
| EASY20/Multi EVO 3-60 M/T - GI |                     | 67.0 | 62.0 | 57.0 | 50.0 | 42.0 | 34.0 |      |      |      |      |      |      |
| EASY20/Multi EVO 5-30 M/T - GI |                     |      | 36.0 | 34.0 | 32.0 | 30.0 | 27.0 | 19.5 | 12.0 |      |      |      |      |
| EASY20/Multi EVO 5-40 M/T - GI |                     |      | 46.0 | 44.0 | 41.0 | 38.0 | 35.0 | 27.0 | 18.0 |      |      |      |      |
| EASY20/Multi EVO 5-50 M/T - GI |                     |      | 58.0 | 56.0 | 53.0 | 49.0 | 44.0 | 34.0 | 23.0 |      |      |      |      |
| EASY20/Multi EVO 5-60 M/T - GI |                     |      | 69.0 | 66.0 | 62.0 | 57.0 | 52.0 | 42.0 | 30.0 |      |      |      |      |
| EASY20/Multi EVO 8-30 M/T - GI |                     |      |      |      | 34.0 | 33.5 | 33.0 | 31.0 | 29.0 | 25.5 | 22.0 | 16.5 | 12.0 |
| EASY20/Multi EVO 8-40 M/T - GI |                     |      |      |      | 44.5 | 43.5 | 42.5 | 40.5 | 37.5 | 34.0 | 29.0 | 23.0 | 16.0 |
| EASY20/Multi EVO 8-50 M/T - GI |                     |      |      |      | 56.5 | 55.5 | 54.5 | 51.5 | 48.5 | 44.0 | 37.5 | 30.0 | 21.5 |

## MECHANICAL DATA

|                         |                                                           |                                |       |
|-------------------------|-----------------------------------------------------------|--------------------------------|-------|
| Operating pressure max. | 8 bar                                                     | Temperature of the liquid max. | 40 °C |
| Type of liquid          | clean water without suspended solids or abrasive material |                                |       |

## ELECTRICAL DATA

|                          |       |           |       |
|--------------------------|-------|-----------|-------|
| Type of enclosure        | IP 55 | Frequency | 50 Hz |
| Ambient temperature max. | 40 °C |           |       |

# EASY20/MULTI EVO

BOOSTER SETS - FIX SPEED

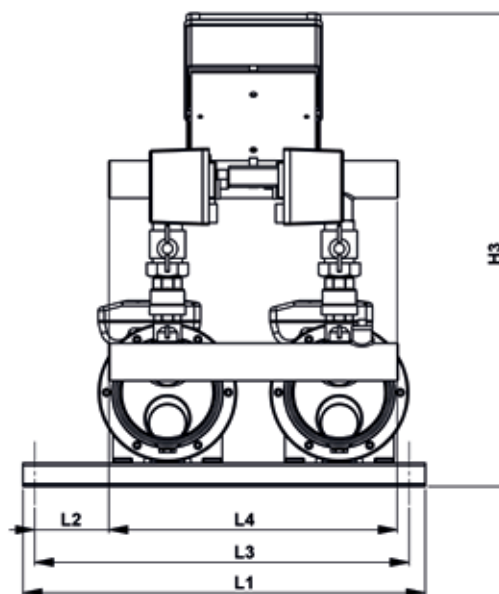
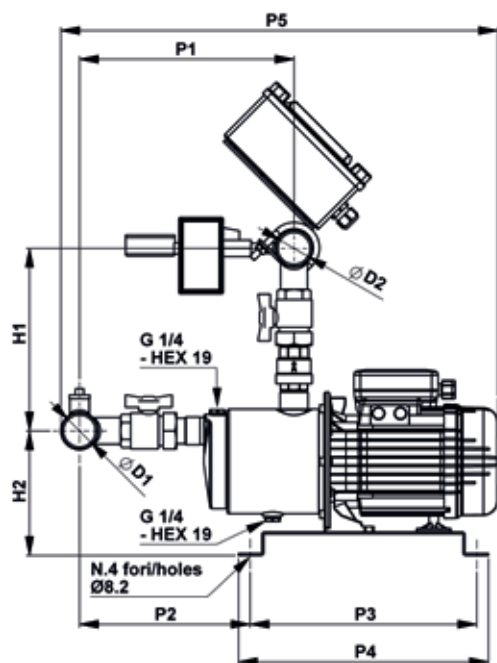
## EASY20/MULTI EVO

| Type                         | Code No.    | Voltage      | Motor rating 2xP2 | Weight  |
|------------------------------|-------------|--------------|-------------------|---------|
| EASY20/Multi EVO 3-30 M - GI | UP630600-EB | 1/N/PE~230 V | 0.37 kW           | 31.0 kg |
| EASY20/Multi EVO 3-30 T - GI | UP640600-EB | 3/N/PE~400 V | 0.40 kW           | 37.0 kg |
| EASY20/Multi EVO 3-40 M - GI | UP630700-EB | 1/N/PE~230 V | 0.40 kW           | 32.0 kg |
| EASY20/Multi EVO 3-40 T - GI | UP640700-EB | 3/N/PE~400 V | 0.50 kW           | 38.0 kg |
| EASY20/Multi EVO 3-50 M - GI | UP630800-EB | 1/N/PE~230 V | 0.55 kW           | 36.0 kg |
| EASY20/Multi EVO 3-50 T - GI | UP640800-EB | 3/N/PE~400 V | 0.75 kW           | 42.0 kg |
| EASY20/Multi EVO 3-60 M - GI | UP630900-EB | 1/N/PE~230 V | 0.75 kW           | 39.5 kg |
| EASY20/Multi EVO 3-60 T - GI | UP640900-EB | 3/N/PE~400 V | 0.82 kW           | 45.5 kg |
| EASY20/Multi EVO 5-30 M - GI | UP631000-EB | 1/N/PE~230 V | 0.40 kW           | 33.5 kg |
| EASY20/Multi EVO 5-30 T - GI | UP641000-EB | 3/N/PE~400 V | 0.50 kW           | 39.5 kg |
| EASY20/Multi EVO 5-40 M - GI | UP631100-EB | 1/N/PE~230 V | 0.55 kW           | 37.0 kg |
| EASY20/Multi EVO 5-40 T - GI | UP641100-EB | 3/N/PE~400 V | 0.75 kW           | 43.0 kg |
| EASY20/Multi EVO 5-50 M - GI | UP631200-EB | 1/N/PE~230 V | 0.75 kW           | 40.0 kg |
| EASY20/Multi EVO 5-50 T - GI | UP641200-EB | 3/N/PE~400 V | 0.90 kW           | 46.0 kg |
| EASY20/Multi EVO 5-60 M - GI | UP631300-EB | 1/N/PE~230 V | 1.30 kW           | 46.0 kg |
| EASY20/Multi EVO 5-60 T - GI | UP641300-EB | 3/N/PE~400 V | 1.20 kW           | 52.0 kg |
| EASY20/Multi EVO 8-30 M - GI | UP631400-EB | 1/N/PE~230 V | 0.75 kW           | 42.0 kg |
| EASY20/Multi EVO 8-30 T - GI | UP641400-EB | 3/N/PE~400 V | 0.90 kW           | 48.0 kg |
| EASY20/Multi EVO 8-40 M - GI | UP631500-EB | 1/N/PE~230 V | 1.30 kW           | 48.0 kg |
| EASY20/Multi EVO 8-40 T - GI | UP641500-EB | 3/N/PE~400 V | 1.18 kW           | 54.0 kg |
| EASY20/Multi EVO 8-50 M - GI | UP631600-EB | 1/N/PE~230 V | 1.30 kW           | 50.0 kg |
| EASY20/Multi EVO 8-50 T - GI | UP641600-EB | 3/N/PE~400 V | 1.40 kW           | 56.0 kg |

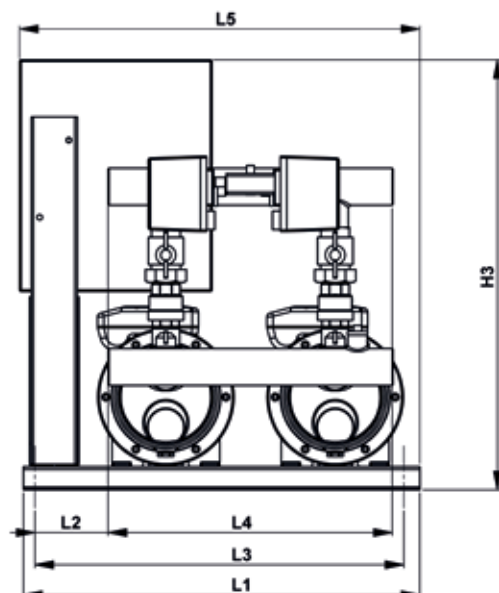
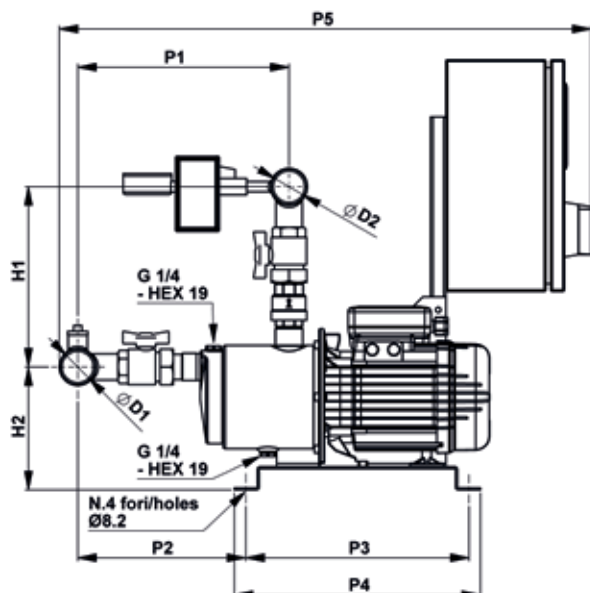
# EASY20/MULTI EVO

BOOSTER SETS - FIX SPEED

## Single-phase



## Three-phase





# EASY20/MULTI EVO

BOOSTER SETS - FIX SPEED

## DIMENSIONS [mm]

| Type                         | L1  | L2 | L3  | L4  | L5  | P1  | P2  | P3  | P4  | P5  | H1  | H2  | H3  | DNA    | DNM    |
|------------------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| EASY20/Multi EVO 3-30 M - GI | 515 | 95 | 485 | 370 |     | 255 | 196 | 290 | 320 | 525 | 235 | 160 | 605 | 1 1/2" | 1 1/2" |
| EASY20/Multi EVO 3-30 T - GI | 515 | 95 | 485 | 370 | 520 | 255 | 196 | 290 | 320 | 670 | 235 | 160 | 560 | 1 1/2" | 1 1/2" |
| EASY20/Multi EVO 3-40 M - GI | 515 | 95 | 485 | 370 |     | 255 | 196 | 290 | 320 | 525 | 235 | 160 | 605 | 1 1/2" | 1 1/2" |
| EASY20/Multi EVO 3-40 T - GI | 515 | 95 | 485 | 370 | 520 | 255 | 196 | 290 | 320 | 670 | 235 | 160 | 560 | 1 1/2" | 1 1/2" |
| EASY20/Multi EVO 3-50 M - GI | 515 | 95 | 485 | 370 |     | 275 | 216 | 290 | 320 | 560 | 235 | 160 | 605 | 1 1/2" | 1 1/2" |
| EASY20/Multi EVO 3-50 T - GI | 515 | 95 | 485 | 370 | 520 | 275 | 216 | 290 | 320 | 690 | 235 | 160 | 560 | 1 1/2" | 1 1/2" |
| EASY20/Multi EVO 3-60 M - GI | 515 | 95 | 485 | 370 |     | 297 | 238 | 290 | 320 | 580 | 235 | 160 | 605 | 1 1/2" | 1 1/2" |
| EASY20/Multi EVO 3-60 T - GI | 515 | 95 | 485 | 370 | 520 | 297 | 238 | 290 | 320 | 715 | 235 | 160 | 560 | 1 1/2" | 1 1/2" |
| EASY20/Multi EVO 5-30 M - GI | 515 | 95 | 485 | 370 |     | 275 | 222 | 290 | 320 | 550 | 240 | 155 | 605 | 2"     | 1 1/2" |
| EASY20/Multi EVO 5-30 T - GI | 515 | 95 | 485 | 370 | 520 | 275 | 222 | 290 | 320 | 695 | 240 | 155 | 560 | 2"     | 1 1/2" |
| EASY20/Multi EVO 5-40 M - GI | 515 | 95 | 485 | 370 |     | 275 | 222 | 290 | 320 | 560 | 240 | 155 | 605 | 2"     | 1 1/2" |
| EASY20/Multi EVO 5-40 T - GI | 515 | 95 | 485 | 370 | 520 | 275 | 222 | 290 | 320 | 695 | 240 | 155 | 560 | 2"     | 1 1/2" |
| EASY20/Multi EVO 5-50 M - GI | 515 | 95 | 485 | 370 |     | 300 | 247 | 290 | 320 | 590 | 240 | 155 | 605 | 2"     | 1 1/2" |
| EASY20/Multi EVO 5-50 T - GI | 515 | 95 | 485 | 370 | 520 | 300 | 247 | 290 | 320 | 695 | 240 | 155 | 560 | 2"     | 1 1/2" |
| EASY20/Multi EVO 5-60 M - GI | 515 | 95 | 485 | 370 |     | 320 | 267 | 290 | 320 | 645 | 240 | 155 | 605 | 2"     | 1 1/2" |
| EASY20/Multi EVO 5-60 T - GI | 515 | 95 | 485 | 370 | 520 | 320 | 267 | 290 | 320 | 745 | 240 | 155 | 560 | 2"     | 1 1/2" |
| EASY20/Multi EVO 8-30 M - GI | 515 | 95 | 485 | 370 |     | 296 | 240 | 290 | 320 | 585 | 292 | 155 | 660 | 2"     | 2"     |
| EASY20/Multi EVO 8-30 T - GI | 515 | 95 | 485 | 370 | 520 | 296 | 240 | 290 | 320 | 718 | 292 | 155 | 560 | 2"     | 2"     |
| EASY20/Multi EVO 8-40 M - GI | 515 | 95 | 485 | 370 |     | 296 | 240 | 290 | 320 | 620 | 292 | 155 | 660 | 2"     | 2"     |
| EASY20/Multi EVO 8-40 T - GI | 515 | 95 | 485 | 370 | 520 | 296 | 240 | 290 | 320 | 718 | 292 | 155 | 560 | 2"     | 2"     |
| EASY20/Multi EVO 8-50 M - GI | 515 | 95 | 485 | 370 |     | 325 | 275 | 290 | 320 | 645 | 292 | 155 | 660 | 2"     | 2"     |
| EASY20/Multi EVO 8-50 T - GI | 515 | 95 | 485 | 370 | 520 | 325 | 275 | 290 | 320 | 745 | 292 | 155 | 560 | 2"     | 2"     |

# EASY20/MULTI EVO

BOOSTER SETS - FIX SPEED

## EASYBOOST

### BOOSTER SETS - FIX SPEED

- Compact dimensions
- Sturdy and resistant
- High hydraulic efficiency
- Reliable
- High-efficiency motors according to EU(2019)/1781



#### DESCRIPTION

They are booster set for the automatic pressurization of water distribution systems with single phase power supply consisting of: 2 pumps, electrical panel, base, intake and delivery manifolds, pressure switches, pressure gauge and check valve in supply.

#### DESCRIPTION OF OPERATION

The pumps are controlled by two pressure switches with adjustable settings, via an electrical panel with an electronic board for:

- the sequential start-up of the pumps
- the inversion of the start-up order
- the settings for protection against dry running
- timer (adjustable from 0 to 180")

When the mains pressure reaches the value for the closing of the electrical contact of pressure switch n.1, a pump starts. If the pressure continues to drop, once the value of the closing pressure of the second pressure switch has been reached, the other pump starts. When the value of the network pressure increases, the pressure switches open their contact causing the relative pump to stop. At the end of each cycle, the automatic inverter changes the starting order of the pumps (once pressure switch n.1 is associated to pump n.1; in the next cycle to pump n.2).

#### MECHANICAL DATA

|                |                                                           |                                |       |
|----------------|-----------------------------------------------------------|--------------------------------|-------|
| Type of liquid | clean water without suspended solids or abrasive material | Temperature of the liquid max. | 40 °C |
|----------------|-----------------------------------------------------------|--------------------------------|-------|

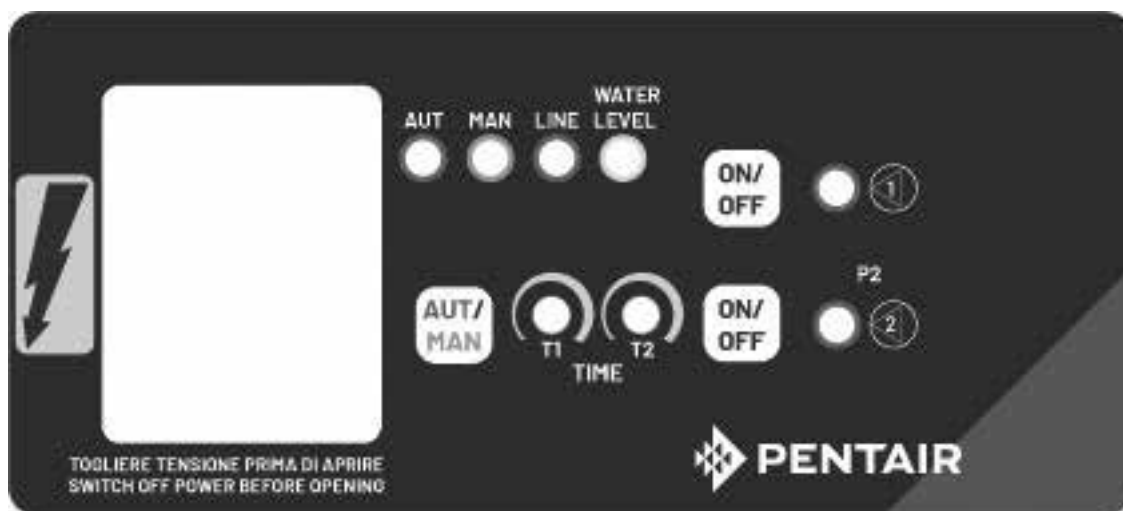
#### ELECTRICAL DATA

|           |       |  |  |
|-----------|-------|--|--|
| Frequency | 50 Hz |  |  |
|-----------|-------|--|--|

# EASYBOOST

## BOOSTER SETS - FIX SPEED

### SINGLE PHASE ELECTRICAL PANEL



#### Electrical panel

- Box in plastic material IP65
- Fuses
- Multifunctional electronic board with integrated transformer for the auxiliary circuit
- Start-up relay for each pump
- Protection against overload provided by the electronic board
- Trimmer to adjust the delay time from 0 to 180 seconds, after the opening of the contact of the pressure switch (for each pump)

#### Main functions

- Cyclic inversion of the start-up order of the pumps after each cycle end
- ON/OFF control of the level of the tank or the pressure of the supply duct by means of a float switch or a different differential pressure switch
- Adjustable timer for the pumps

#### Signals and controls

- Manual - Automatic button
- ON/OFF buttons for each pump
- LED indicating the presence of power
- LED indicating pump in operation
- LED indicating low level in the collection tank or pressure insufficient in the Suction manifold
- LEDs indicating manual or automatic operation
- BMS with contacts for each pump: pump on and overload

#### External control devices

- Two adjustable differential pressure switches ON/OFF
- ON/OFF float switch, located in the water collection tank, or
- Reverse pressure switch inserted in the water supply duct (aqueduct)

# EASYBOOST

BOOSTER SETS - FIX SPEED

## THREE-PHASE ELECTRICAL PANEL



### Electrical panel

- Metal box IP54
- Main switch
- Electronic board
- Fuses and contactors for each pump
- Protection against overload provided by the electronic board
- Transformer with fuses for the auxiliary circuit

### Main functions

- Cyclic inversion of the start-up order of the pumps after each cycle end
- ON/OFF control of the level of the tank or the pressure of the supply duct by means of a float switch or a different differential pressure switch
- Timer of the last pump settable from 0 to 180 seconds, after the opening of the pressure switch operation contact

### Signals and controls

- M-0-T button (Manual - 0 - Automatic)
- ON/OFF buttons for each pump
- LED indicating the presence of power
- LED indicating pump in operation
- LED indicating low level in the collection tank or pressure insufficient in the Suction manifold
- LED indicating overload
- LEDs indicating manual or automatic operation
- BMS with contacts for each pump: pump on, overload and no water alarm
- Communication RS232/RS485

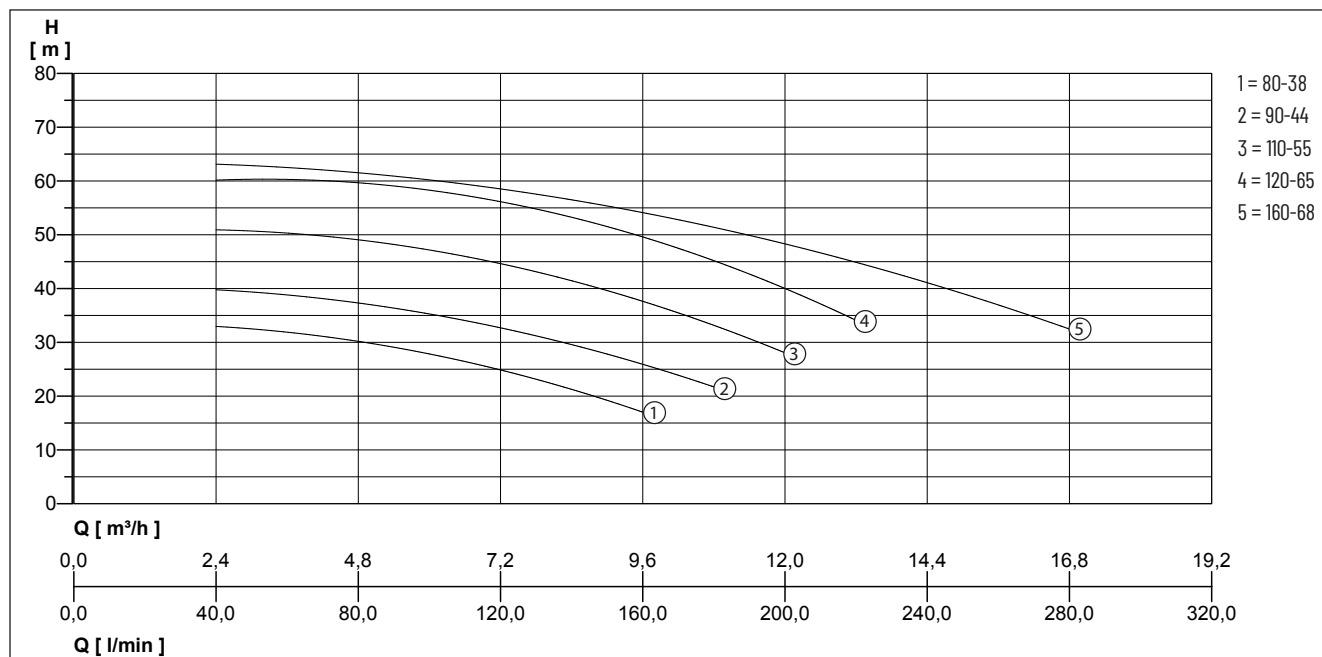
### External control devices

- Two adjustable differential pressure switches ON/OFF
- ON/OFF float switch, located in the water collection tank, or
- Reverse pressure switch inserted in the water supply duct (aqueduct)

# EASYBOOST - CB

## BOOSTER SETS - FIX SPEED

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                            | Flow rate Q [m³/h]  | 2.4 | 4.8 | 6  | 9.6 | 10.8 | 12 | 13.2 | 16.8 |
|---------------------------------|---------------------|-----|-----|----|-----|------|----|------|------|
| EASY20/CB 80/38M-GI             | Delivery head H [m] | 33  | 30  | 28 | 17  |      |    |      |      |
| EASY20/CB 90/44M-GI             |                     | 40  | 37  | 35 | 27  | 21   |    |      |      |
| EASY20/CB 110/55M-GI+110/55T-GI |                     | 51  | 49  | 47 | 38  | 33   | 28 |      |      |
| EASY20/CB 120/65M-GI+120/65T-GI |                     | 61  | 59  | 57 | 50  | 47   | 40 | 33   |      |
| EASY20/CB 160/68T-GI            |                     | 61  | 59  | 54 | 52  | 49   | 45 | 32   | 0    |

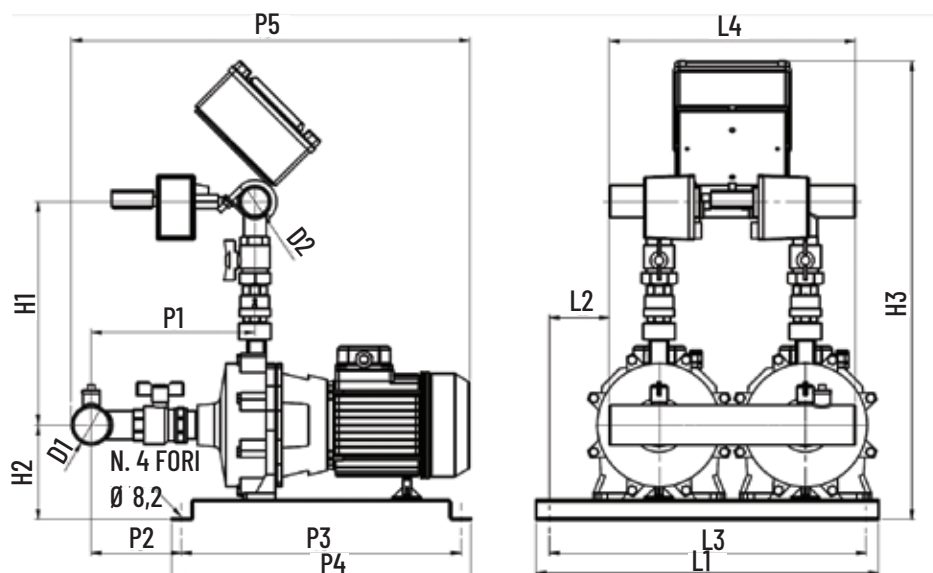
### EASYBOOST - CB

| Type                 | Code No.    | Voltage      | Motor rating 2xP2 | Type of enclosure | Ambient temperature max. | Operating pressure max. | Weight |
|----------------------|-------------|--------------|-------------------|-------------------|--------------------------|-------------------------|--------|
| EASY20/CB 80/38M-GI  | UP830000-EB | 1/N/PE~230 V | 0.55 kW           | IP 44             | 40 °C                    | 9 bar                   | 34 kg  |
| EASY20/CB 90/44M-GI  | UP830100-EB | 1/N/PE~230 V | 0.74 kW           | IP 44             | 40 °C                    | 9 bar                   | 42 kg  |
| EASY20/CB 110/55M-GI | UP830200-EB | 1/N/PE~230 V | 1.10 kW           | IP 44             | 40 °C                    | 9 bar                   | 62 kg  |
| EASY20/CB 110/55T-GI | UP840200-EB | 3/N/PE~400 V | 1.10 kW           | IP 44             | 40 °C                    | 9 bar                   | 62 kg  |
| EASY20/CB 120/65M-GI | UP830300-EB | 1/N/PE~230 V | 1.50 kW           | IP 44             | 40 °C                    | 9 bar                   | -      |
| EASY20/CB 120/65T-GI | UP840300-EB | 3/N/PE~400 V | 1.50 kW           | IP 44             | 40 °C                    | 9 bar                   | -      |
| EASY20/CB 160/68T-GI | UP840400-EB | 3/N/PE~400 V | 2.20 kW           | IP 44             | 40 °C                    | 9 bar                   | 69 kg  |

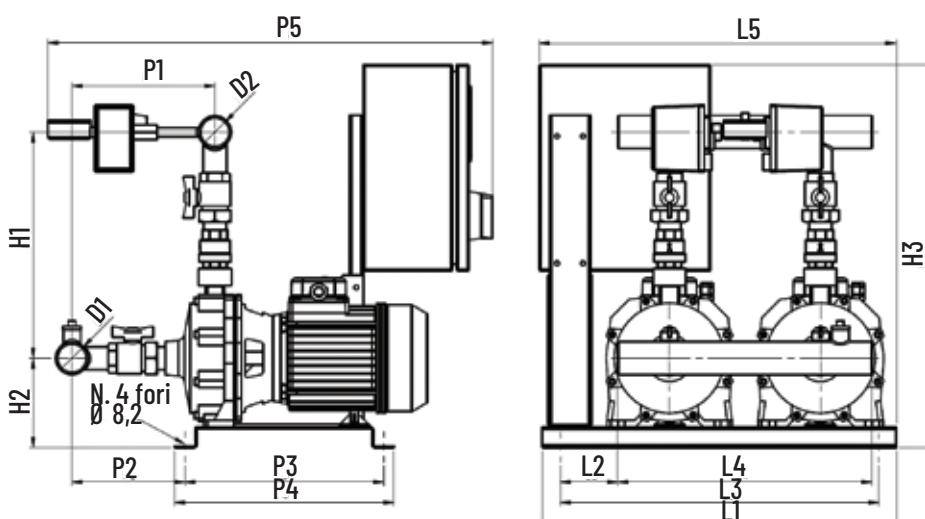
# EASYBOOST - CB

## BOOSTER SETS - FIX SPEED

### Single phase



### Three phase



# EASYBOOST - CB

BOOSTER SETS - FIX SPEED

## DIMENSIONS [mm]

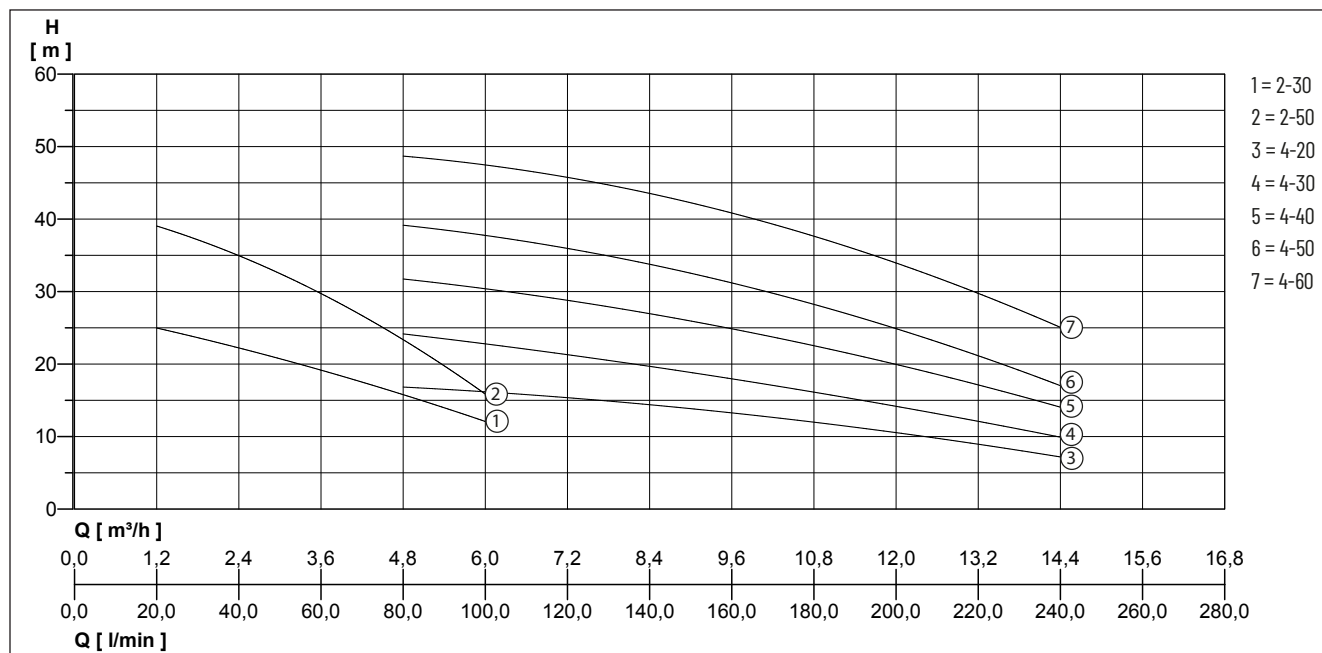
| Type                 | L1  | L2 | L3  | L4  | L5  | P1  | P2  | P3  | P4  | P5  | H1  | H2  | H3  | D1     | D2     |
|----------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| EASY20/CB 80/38M-GI  | 515 | 95 | 485 | 370 |     | 209 | 165 | 290 | 320 | 542 | 328 | 130 | 671 | 1 1/2" | 1 1/2" |
| EASY20/CB 90/44M-GI  | 515 | 95 | 485 | 370 |     | 209 | 165 | 290 | 320 | 542 | 328 | 130 | 671 | 1 1/2" | 1 1/2" |
| EASY20/CB 110/55M-GI | 515 | 95 | 485 | 370 |     | 246 | 135 | 420 | 450 | 600 | 335 | 142 | 690 | 2"     | 1 1/2" |
| EASY20/CB 110/55T-GI | 515 | 95 | 485 | 370 | 520 | 246 | 135 | 420 | 450 | 758 | 335 | 142 | 690 | 2"     | 1 1/2" |
| EASY20/CB 120/65M-GI | 515 | 95 | 485 | 370 |     | 246 | 135 | 420 | 450 | 600 | 335 | 142 | 690 | 2"     | 1 1/2" |
| EASY20/CB 120/65T-GI | 515 | 95 | 485 | 370 | 520 | 246 | 135 | 420 | 450 | 758 | 335 | 142 | 690 | 2"     | 1 1/2" |
| EASY20/CB 160/68T-GI | 515 | 95 | 485 | 370 | 520 | 246 | 135 | 420 | 450 | 758 | 335 | 142 | 560 | 2"     | 1 1/2" |



# EASYBOOST - DHR 2/4

## BOOSTER SETS - FIX SPEED

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                      | Flow rate Q [m³/h]  | 1.2 | 3.6 | 4.8 | 6  | 9.6 | 12 | 14.4 |
|---------------------------|---------------------|-----|-----|-----|----|-----|----|------|
| EASY20/DHR2 30M-GI/30T-GI | Delivery head H [m] | 25  | 19  | 16  | 12 |     |    |      |
| EASY20/DHR2 50M-GI/50T-GI |                     | 39  | 30  | 23  | 16 |     |    |      |
| EASY20/DHR4 20M-GI/20T-GI |                     |     |     | 17  | 16 | 13  | 11 | 7    |
| EASY20/DHR4 30M-GI/30T-GI |                     |     |     | 24  | 23 | 18  | 14 | 10   |
| EASY20/DHR4 40M-GI/40T-GI |                     |     |     | 32  | 30 | 25  | 20 | 14   |
| EASY20/DHR4 50M-GI/50T-GI |                     |     |     | 39  | 38 | 31  | 25 | 17   |
| EASY20/DHR4 60M-GI/60T-GI |                     |     |     | 49  | 47 | 41  | 34 | 25   |

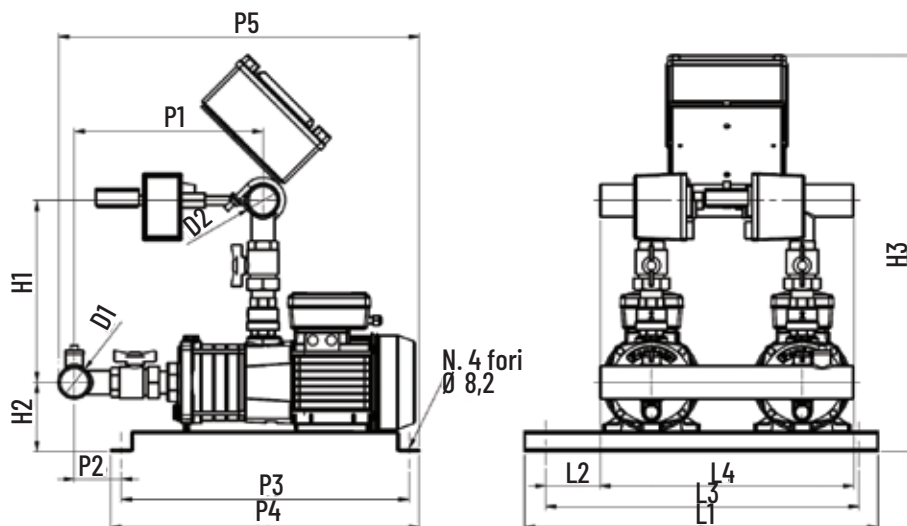
### EASYBOOST - DHR 2/4

| Type               | Code No.           | Voltage      | Motor rating<br>2xP2 | Type of en-<br>closure | Ambient tem-<br>perature max. | Operating pres-<br>sure max. | Weight |
|--------------------|--------------------|--------------|----------------------|------------------------|-------------------------------|------------------------------|--------|
| EASY20/DHR2 30M-GI | <b>UP130000-EB</b> | 1/N/PE~230 V | 0.45 kW              | IP 55                  | 50 °C                         | 10 bar                       | 32 kg  |
| EASY20/DHR2 30T-GI | <b>UP140000-EB</b> | 3/N/PE~400 V | 0.30 kW              | IP 55                  | 50 °C                         | 10 bar                       | 32 kg  |
| EASY20/DHR2 50M-GI | <b>UP130100-EB</b> | 1/N/PE~230 V | 0.45 kW              | IP 55                  | 50 °C                         | 10 bar                       | 35 kg  |
| EASY20/DHR2 50T-GI | <b>UP140100-EB</b> | 3/N/PE~400 V | 0.50 kW              | IP 55                  | 50 °C                         | 10 bar                       | 35 kg  |
| EASY20/DHR4 20M-GI | <b>UP330000-EB</b> | 1/N/PE~230 V | 0.45 kW              | IP 55                  | 50 °C                         | 10 bar                       | 34 kg  |
| EASY20/DHR4 20T-GI | <b>UP340000-EB</b> | 3/N/PE~400 V | 0.37 kW              | IP 55                  | 50 °C                         | 10 bar                       | 34 kg  |
| EASY20/DHR4 30M-GI | <b>UP330100-EB</b> | 1/N/PE~230 V | 0.45 kW              | IP 55                  | 50 °C                         | 10 bar                       | 34 kg  |
| EASY20/DHR4 30T-GI | <b>UP340100-EB</b> | 3/N/PE~400 V | 0.50 kW              | IP 55                  | 50 °C                         | 10 bar                       | 34 kg  |
| EASY20/DHR4 40M-GI | <b>UP330200-EB</b> | 1/N/PE~230 V | 0.55 kW              | IP 55                  | 50 °C                         | 10 bar                       | 36 kg  |
| EASY20/DHR4 40T-GI | <b>UP340200-EB</b> | 3/N/PE~400 V | 0.70 kW              | IP 55                  | 50 °C                         | 10 bar                       | 36 kg  |
| EASY20/DHR4 50M-GI | <b>UP330300-EB</b> | 1/N/PE~230 V | 0.75 kW              | IP 55                  | 50 °C                         | 10 bar                       | 40 kg  |
| EASY20/DHR4 50T-GI | <b>UP340300-EB</b> | 3/N/PE~400 V | 0.90 kW              | IP 55                  | 50 °C                         | 10 bar                       | 40 kg  |
| EASY20/DHR4 60M-GI | <b>UP330400-EB</b> | 1/N/PE~230 V | 1.30 kW              | IP 55                  | 50 °C                         | 10 bar                       | 46 kg  |
| EASY20/DHR4 60T-GI | <b>UP340400-EB</b> | 3/N/PE~400 V | 1.20 kW              | IP 55                  | 50 °C                         | 10 bar                       | 46 kg  |

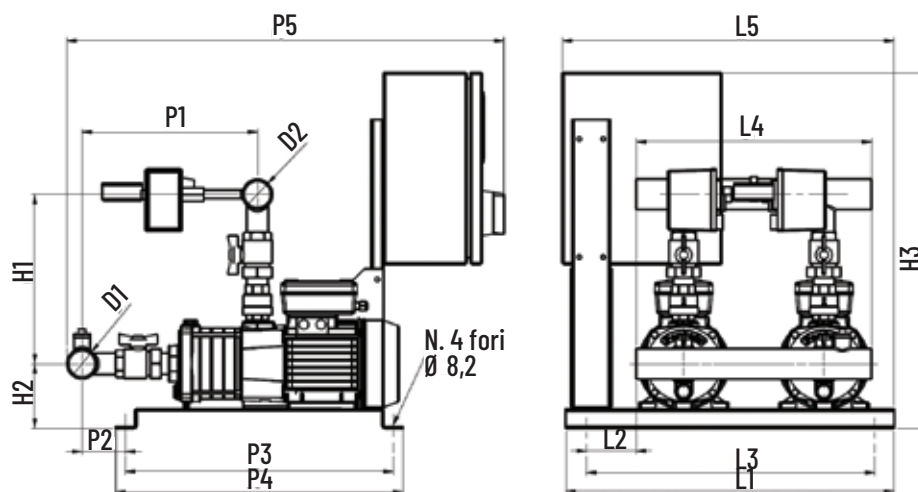
# EASYBOOST - DHR 2/4

BOOSTER SETS - FIX SPEED

## Single phase - DHR 2



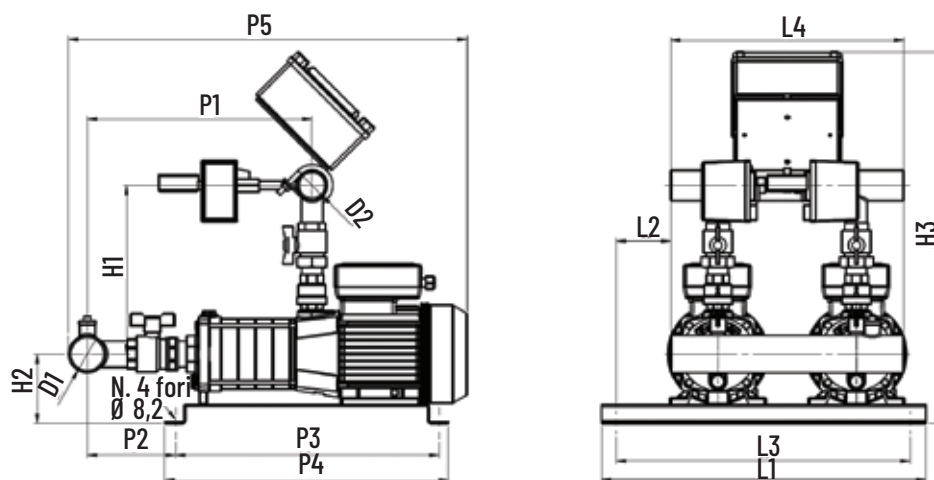
## Three phase - DHR 2



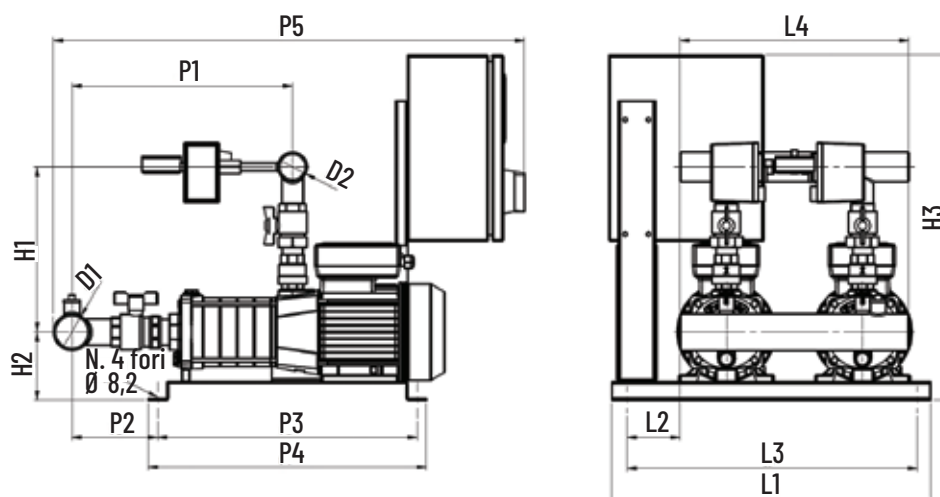
# EASYBOOST - DHR 2/4

BOOSTER SETS - FIX SPEED

## Single phase - DHR 4



## Three phase - DHR 4



# EASYBOOST - DHR 2/4

BOOSTER SETS - FIX SPEED

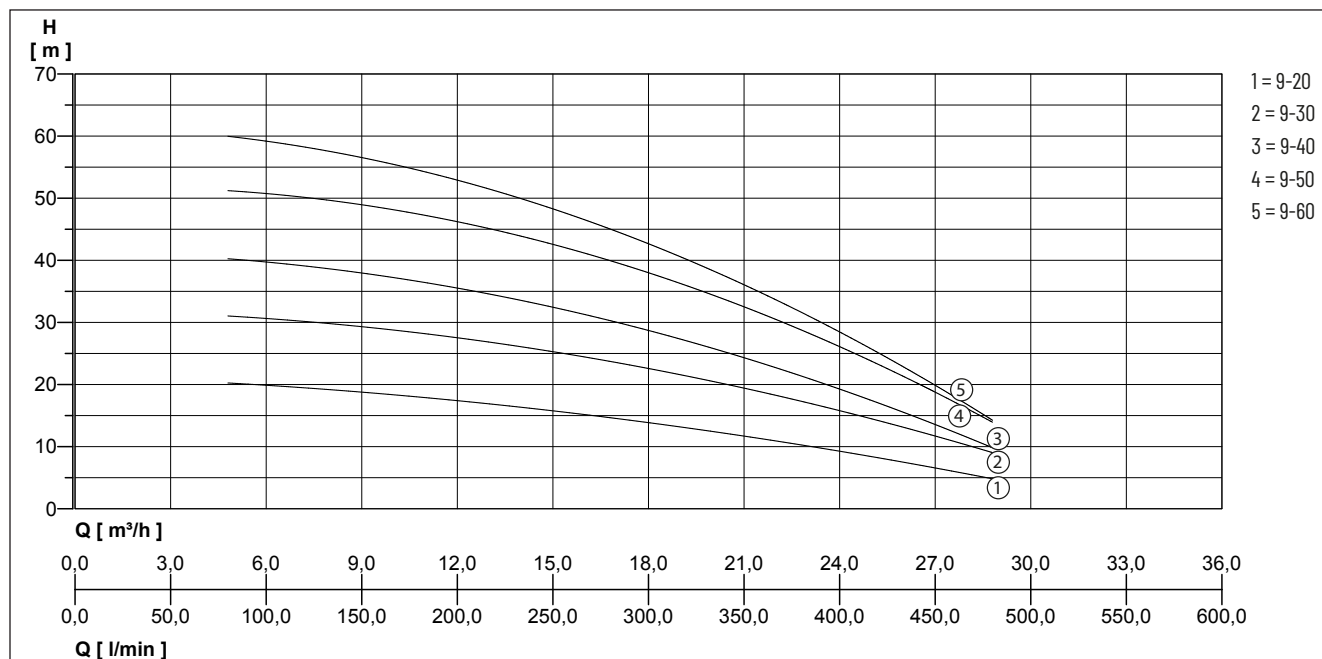
## DIMENSIONS [mm]

| Type               | L1  | L2 | L3  | L4  | L5  | P1  | P2  | P3  | P4  | P5  | H1  | H2  | H3  | D1     | D2     |
|--------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| EASY20/DHR2 30M-GI | 515 | 95 | 485 | 370 |     | 239 | 35  | 420 | 450 | 493 | 265 | 100 | 578 | 1 1/2" | 1 1/2" |
| EASY20/DHR2 30T-GI | 515 | 95 | 485 | 370 | 520 | 239 | 35  | 420 | 450 | 651 | 265 | 100 | 560 | 1 1/2" | 1 1/2" |
| EASY20/DHR2 50M-GI | 515 | 95 | 485 | 370 |     | 275 | 68  | 420 | 450 | 597 | 265 | 100 | 578 | 1 1/2" | 1 1/2" |
| EASY20/DHR2 50T-GI | 515 | 95 | 485 | 370 | 520 | 275 | 68  | 420 | 450 | 685 | 265 | 100 | 560 | 1 1/2" | 1 1/2" |
| EASY20/DHR4 20M-GI | 515 | 95 | 485 | 370 |     | 276 | 69  | 420 | 450 | 505 | 265 | 100 | 580 | 2"     | 1 1/2" |
| EASY20/DHR4 20T-GI | 515 | 95 | 485 | 370 | 520 | 276 | 69  | 420 | 450 | 687 | 265 | 100 | 560 | 2"     | 1 1/2" |
| EASY20/DHR4 30M-GI | 515 | 95 | 485 | 370 |     | 276 | 69  | 420 | 450 | 505 | 265 | 100 | 580 | 2"     | 1 1/2" |
| EASY20/DHR4 30T-GI | 515 | 95 | 485 | 370 | 520 | 276 | 69  | 420 | 450 | 687 | 265 | 100 | 560 | 2"     | 1 1/2" |
| EASY20/DHR4 40M-GI | 515 | 95 | 485 | 370 |     | 303 | 96  | 420 | 450 | 531 | 265 | 100 | 580 | 2"     | 1 1/2" |
| EASY20/DHR4 40T-GI | 515 | 95 | 485 | 370 | 520 | 303 | 96  | 420 | 450 | 714 | 265 | 100 | 560 | 2"     | 1 1/2" |
| EASY20/DHR4 50M-GI | 515 | 95 | 485 | 370 |     | 330 | 123 | 420 | 450 | 558 | 265 | 100 | 580 | 2"     | 1 1/2" |
| EASY20/DHR4 50T-GI | 515 | 95 | 485 | 370 | 520 | 330 | 123 | 420 | 450 | 740 | 265 | 100 | 560 | 2"     | 1 1/2" |
| EASY20/DHR4 60M-GI | 515 | 95 | 485 | 370 |     | 357 | 138 | 420 | 450 | 632 | 267 | 110 | 590 | 2"     | 1 1/2" |
| EASY20/DHR4 60T-GI | 515 | 95 | 485 | 370 | 520 | 357 | 138 | 420 | 450 | 762 | 267 | 110 | 560 | 2"     | 1 1/2" |

# EASYBOOST - DHR 9

BOOSTER SETS - FIX SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                      | Flow rate Q [m³/h]  | 4.8 | 9.6 | 14.4 | 19.2 | 24 | 28.8 |
|---------------------------|---------------------|-----|-----|------|------|----|------|
| EASY20/DHR9 20M-GI/20T-GI | Delivery head H [m] | 20  | 19  | 16   | 13   | 9  | 5    |
| EASY20/DHR9 30M-GI/30T-GI |                     | 31  | 29  | 26   | 21   | 16 | 9    |
| EASY20/DHR9 40M-GI/40T-GI |                     | 40  | 38  | 33   | 27   | 19 | 10   |
| EASY20/DHR9 50M-GI/50T-GI |                     | 51  | 49  | 43   | 36   | 26 | 14   |
| EASY20/DHR9 60T-GI        |                     | 60  | 56  | 49   | 40   | 29 | 14   |

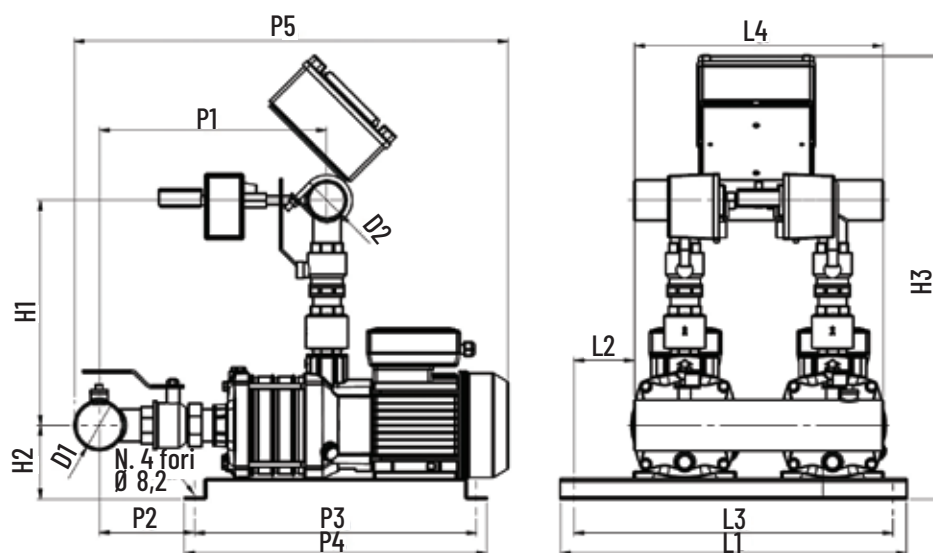
## EASYBOOST - DHR 9

| Type               | Code No.           | Voltage      | Motor rating<br>2xP2 | Type of en-<br>closure | Ambient tem-<br>perature max. | Operating pres-<br>sure max. | Weight |
|--------------------|--------------------|--------------|----------------------|------------------------|-------------------------------|------------------------------|--------|
| EASY20/DHR9 20M-GI | <b>UP930000-EB</b> | 1/N/PE~230 V | 0.90 kW              | IP 55                  | 50 °C                         | 10 bar                       | 54 kg  |
| EASY20/DHR9 20T-GI | <b>UP940000-EB</b> | 3/N/PE~400 V | 0.65 kW              | IP 55                  | 50 °C                         | 10 bar                       | 54 kg  |
| EASY20/DHR9 30M-GI | <b>UP930100-EB</b> | 1/N/PE~230 V | 0.90 kW              | IP 55                  | 50 °C                         | 10 bar                       | 55 kg  |
| EASY20/DHR9 30T-GI | <b>UP940100-EB</b> | 3/N/PE~400 V | 0.95 kW              | IP 55                  | 50 °C                         | 10 bar                       | 55 kg  |
| EASY20/DHR9 40M-GI | <b>UP930200-EB</b> | 1/N/PE~230 V | 1.30 kW              | IP 55                  | 50 °C                         | 10 bar                       | 57 kg  |
| EASY20/DHR9 40T-GI | <b>UP940200-EB</b> | 3/N/PE~400 V | 1.30 kW              | IP 55                  | 50 °C                         | 10 bar                       | 57 kg  |
| EASY20/DHR9 50M-GI | <b>UP930300-EB</b> | 1/N/PE~230 V | 1.30 kW              | IP 55                  | 50 °C                         | 10 bar                       | 62 kg  |
| EASY20/DHR9 50T-GI | <b>UP940300-EB</b> | 3/N/PE~400 V | 1.60 kW              | IP 55                  | 50 °C                         | 10 bar                       | 62 kg  |
| EASY20/DHR9 60T-GI | <b>UP940400-EB</b> | 3/N/PE~400 V | 1.90 kW              | IP 55                  | 50 °C                         | 10 bar                       | 65 kg  |

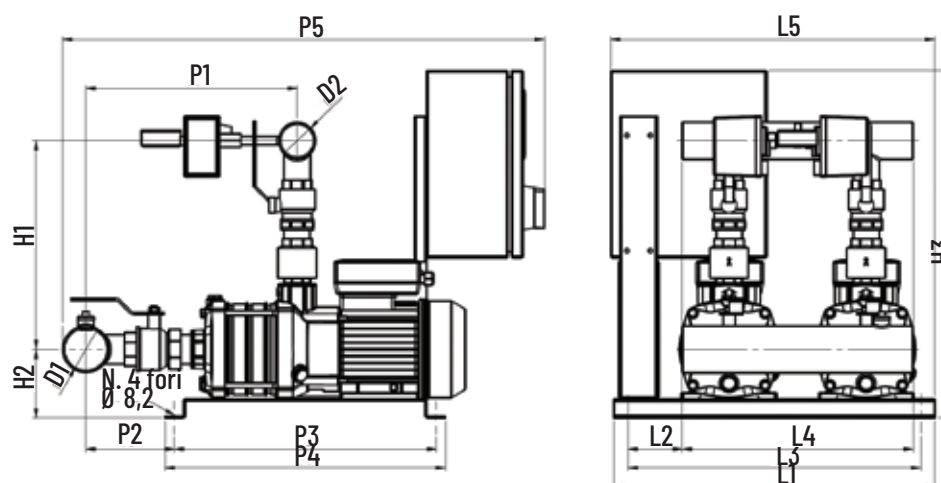
# EASYBOOST - DHR 9

BOOSTER SETS - FIX SPEED

## Single phase



## Three phase



# EASYBOOST - DHR 9

BOOSTER SETS - FIX SPEED

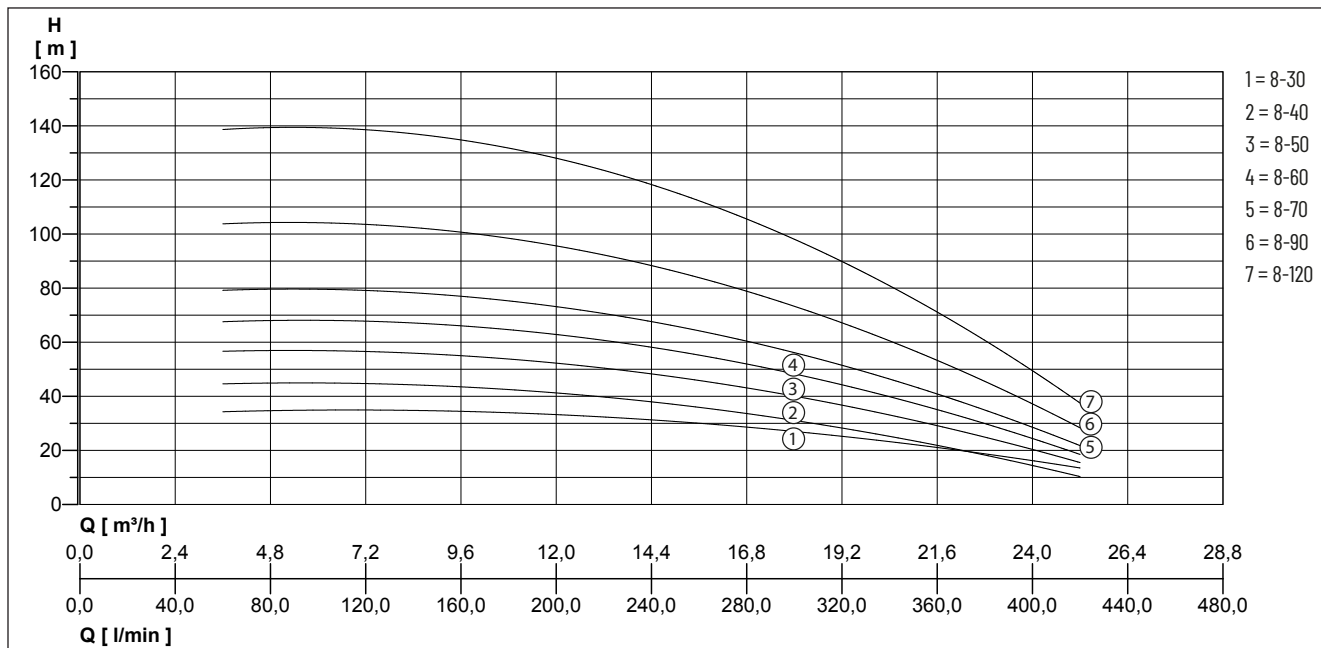
## DIMENSIONS [mm]

| Type               | L1  | L2 | L3  | L4  | L5  | P1  | P2  | P3  | P4  | P5  | H1  | H2  | H3  | D1     | D2 |
|--------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|----|
| EASY20/DHR9 20M-GI | 515 | 95 | 485 | 370 |     | 280 | 82  | 420 | 450 | 713 | 335 | 110 | 660 | 2 1/2" | 2" |
| EASY20/DHR9 20T-GI | 515 | 95 | 485 | 370 | 520 | 280 | 82  | 420 | 450 | 713 | 335 | 110 | 560 | 2 1/2" | 2" |
| EASY20/DHR9 30M-GI | 515 | 95 | 485 | 370 |     | 280 | 82  | 420 | 450 | 713 | 335 | 110 | 660 | 2 1/2" | 2" |
| EASY20/DHR9 30T-GI | 515 | 95 | 485 | 370 | 520 | 280 | 82  | 420 | 450 | 713 | 335 | 110 | 560 | 2 1/2" | 2" |
| EASY20/DHR9 40M-GI | 515 | 95 | 485 | 370 |     | 310 | 112 | 420 | 450 | 743 | 335 | 110 | 660 | 2 1/2" | 2" |
| EASY20/DHR9 40T-GI | 515 | 95 | 485 | 370 | 520 | 310 | 112 | 420 | 450 | 743 | 335 | 110 | 560 | 2 1/2" | 2" |
| EASY20/DHR9 50M-GI | 515 | 95 | 485 | 370 |     | 340 | 142 | 420 | 450 | 773 | 335 | 110 | 660 | 2 1/2" | 2" |
| EASY20/DHR9 50T-GI | 515 | 95 | 485 | 370 | 520 | 340 | 142 | 420 | 450 | 773 | 335 | 110 | 560 | 2 1/2" | 2" |
| EASY20/DHR9 60T-GI | 515 | 95 | 485 | 370 | 520 | 370 | 172 | 420 | 450 | 803 | 335 | 110 | 560 | 2 1/2" | 2" |

# EASYBOOST 20 MULTINOX VE +

BOOSTER SETS - FIX SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                            | Flow rate Q [m³/h]  | 0   | 3.6 | 7.2 | 10.8 | 14.4 | 18 | 21.6 | 25.2 |
|---------------------------------|---------------------|-----|-----|-----|------|------|----|------|------|
| EASY20 MULTINOX VE+ 8-30 M/T GI | Delivery head H [m] | 36  | 35  | 35  | 33   | 30   | 25 | 28   | 10   |
| EASY20 MULTINOX VE+ 8-40 M/T GI |                     | 46  | 45  | 44  | 42   | 39   | 32 | 20   | 11   |
| EASY20 MULTINOX VE+ 8-50 M/T GI |                     | 57  | 57  | 56  | 53   | 50   | 40 | 28   | 16   |
| EASY20 MULTINOX VE+ 8-60 T GI   |                     | 69  | 68  | 67  | 64   | 60   | 48 | 34   | 19   |
| EASY20 MULTINOX VE+ 8-70 T GI   |                     | 80  | 80  | 78  | 74   | 70   | 56 | 40   | 22   |
| EASY20 MULTINOX VE+ 8-90 T GI   |                     | 105 | 104 | 103 | 98   | 90   | 73 | 52   | 29   |
| EASY20 MULTINOX VE+ 8-120 T GI  |                     | 140 | 139 | 138 | 131  | 120  | 98 | 70   | 38   |

## EASYBOOST 20 MULTINOX VE +

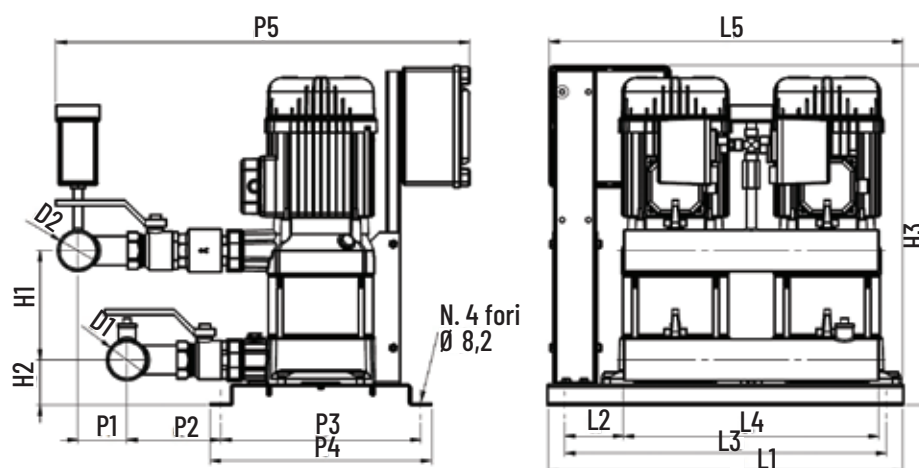
| Type                           | Code No.    | Voltage      | Motor rating 2xP2 | Type of enclosure | Ambient temperature max. | Operating pressure max. | Weight |
|--------------------------------|-------------|--------------|-------------------|-------------------|--------------------------|-------------------------|--------|
| EASY20 MULTINOX VE+ 8-30 M GI  | UPG01030-EB | 1/N/PE~230 V | 0.9 kW            | IP 44             | 50 °C                    | 14 bar                  | 69 kg  |
| EASY20 MULTINOX VE+ 8-30 T GI  | UPG11030-EB | 3/N/PE~400 V | 1.0 kW            | IP 44             | 50 °C                    | 14 bar                  | 75 kg  |
| EASY20 MULTINOX VE+ 8-40 M GI  | UPG01040-EB | 1/N/PE~230 V | 1.3 kW            | IP 44             | 50 °C                    | 14 bar                  | 73 kg  |
| EASY20 MULTINOX VE+ 8-40 T GI  | UPG11040-EB | 3/N/PE~400 V | 1.2 kW            | IP 44             | 50 °C                    | 14 bar                  | 79 kg  |
| EASY20 MULTINOX VE+ 8-50 M GI  | UPG01050-EB | 1/N/PE~230 V | 1.3 kW            | IP 44             | 50 °C                    | 14 bar                  | 77 kg  |
| EASY20 MULTINOX VE+ 8-50 T GI  | UPG11050-EB | 3/N/PE~400 V | 1.5 kW            | IP 44             | 50 °C                    | 14 bar                  | 83 kg  |
| EASY20 MULTINOX VE+ 8-60 T GI  | UPG11060-EB | 3/N/PE~400 V | 1.7 kW            | IP 44             | 50 °C                    | 14 bar                  | 87 kg  |
| EASY20 MULTINOX VE+ 8-70 T GI  | UPG11070-EB | 3/N/PE~400 V | 1.9 kW            | IP 44             | 50 °C                    | 14 bar                  | 91 kg  |
| EASY20 MULTINOX VE+ 8-90 T GI  | UPG11090-EB | 3/N/PE~400 V | 3.0 kW            | IP 44             | 50 °C                    | 14 bar                  | 109 kg |
| EASY20 MULTINOX VE+ 8-120 T GI | UPG11120-EB | 3/N/PE~400 V | 4.0 kW            | IP 44             | 50 °C                    | 14 bar                  | 115 kg |



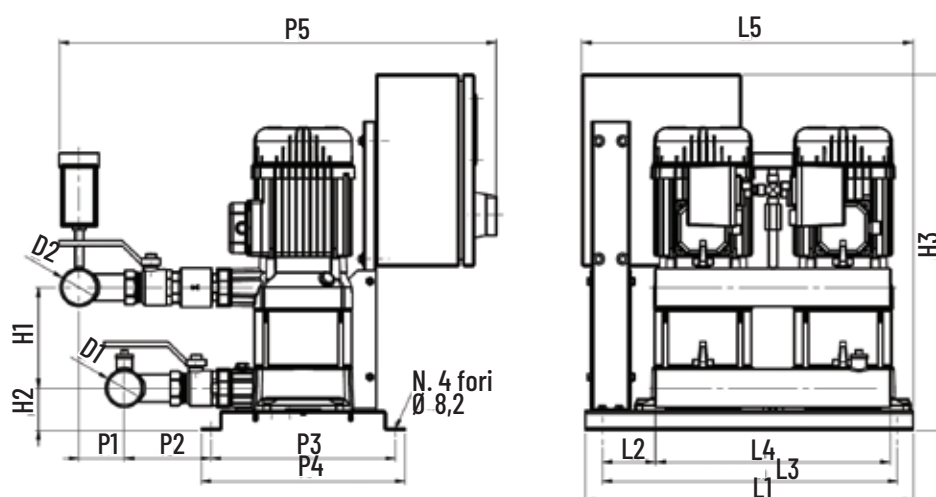
# EASYBOOST 20 MULTINOX VE +

## BOOSTER SETS - FIX SPEED

### Single phase



### Three phase



# EASYBOOST 20 MULTINOX VE +

BOOSTER SETS - FIX SPEED

## DIMENSIONS [mm]

| Type                           | L1  | L2 | L3  | L4  | L5  | P1 | P2  | P3  | P4  | P5  | H1  | H2 | H3  | D1 | D2 |
|--------------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|----|----|
| EASY20 MULTINOX VE+ 8-30 M GI  | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 675 | 130 | 64 | 510 | 2" | 2" |
| EASY20 MULTINOX VE+ 8-30 T GI  | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 690 | 130 | 64 | 560 | 2" | 2" |
| EASY20 MULTINOX VE+ 8-40 M GI  | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 675 | 157 | 64 | 510 | 2" | 2" |
| EASY20 MULTINOX VE+ 8-40 T GI  | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 690 | 157 | 64 | 560 | 2" | 2" |
| EASY20 MULTINOX VE+ 8-50 M GI  | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 675 | 184 | 64 | 510 | 2" | 2" |
| EASY20 MULTINOX VE+ 8-50 T GI  | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 690 | 184 | 64 | 560 | 2" | 2" |
| EASY20 MULTINOX VE+ 8-60 T GI  | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 690 | 211 | 64 | 560 | 2" | 2" |
| EASY20 MULTINOX VE+ 8-70 T GI  | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 690 | 238 | 64 | 560 | 2" | 2" |
| EASY20 MULTINOX VE+ 8-90 T GI  | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 690 | 292 | 64 | 750 | 2" | 2" |
| EASY20 MULTINOX VE+ 8-120 T GI | 515 | 95 | 485 | 370 | 520 | 71 | 138 | 290 | 320 | 690 | 292 | 64 | 750 | 2" | 2" |

## PRESSOMAT

### BOOSTER SETS - FIX SPEED

- High hydraulic efficiency
- Sturdy and resistant
- Piping in stainless steel AISI 304
- Compact



#### DESCRIPTION

These are automatic pressure booster set for the pressurization of distribution networks with single phase and three-phase power supply.

The pumps are controlled by two differential pressure switches with adjustable settings, via an electrical panel with an analogue electronic board for:

- the sequential start-up of the pumps
- the inversion of the start-up order
- timer settable from 0 to 180», only for the three-phase version
- protection against dry running

When the network pressure reaches the value for the closing of the electrical contact of pressure switch n.1, a pump starts.

If the pressure continues to fall, when the closing value of the second pressure switch is reached, the second pump is started up.

When the value of the network pressure increases, the pressure switches open their contact causing the relative pump to stop.

At the end of each cycle, the automatic inverter changes the starting order of the pumps (once pressure switch n.1 is associated to pump n.1; in the next cycle to pump n.2).

If the two pressure switches close at the same time, the electronic board will delay the start-up of the second pump avoiding abrupt changes in pressure and the overload of the power supply.

#### MECHANICAL DATA

|                         |                                                           |                                |       |
|-------------------------|-----------------------------------------------------------|--------------------------------|-------|
| Operating pressure max. | 16 bar                                                    | Temperature of the liquid max. | 40 °C |
| Type of liquid          | clean water without suspended solids or abrasive material |                                |       |

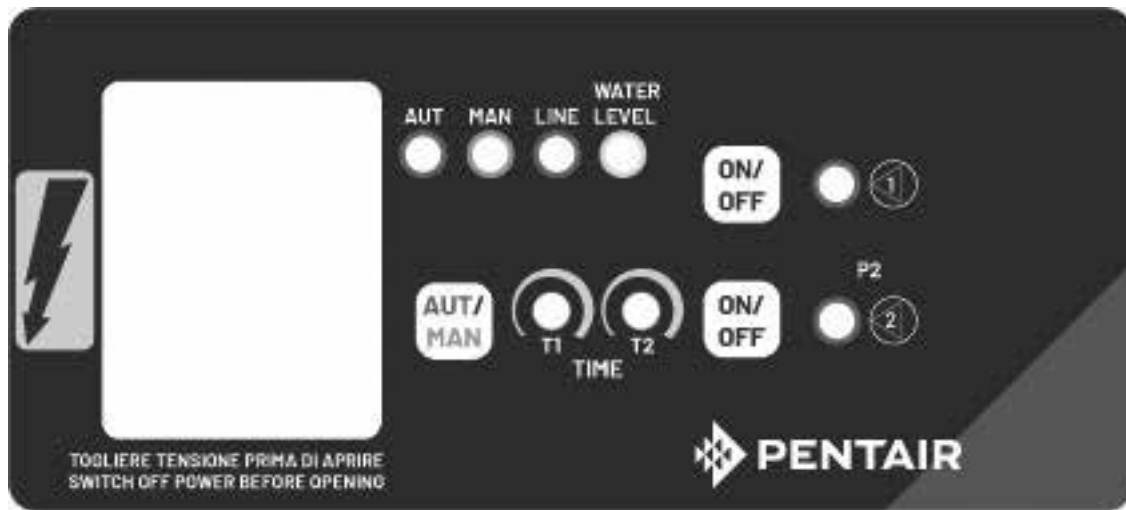
#### ELECTRICAL DATA

|                   |       |                          |       |
|-------------------|-------|--------------------------|-------|
| Type of enclosure | IP 55 | Ambient temperature max. | 50 °C |
|-------------------|-------|--------------------------|-------|

# PRESSOMAT

BOOSTER SETS - FIX SPEED

## SINGLE PHASE ELECTRICAL PANEL



### Electrical panel

- Box in plastic material IP55
- Main circuit breaker
- Electronic control panel with manual - automatic buttons for each pump
- SML electronic board
- Pump start-up relay

### Main functions

- Cyclic inversion of the start-up order of the pumps after each cycle end
- ON/OFF control of the level of the tank or the pressure of the supply duct by means of a float switch or a different differential pressure switch.

### Signals and controls

- LED indicating the presence of power
- LED indicating the low water level in the tank or an insufficient pressure in the supply duct (aqueduct)
- LED indicating the operation of each pump

### External control devices

- Two adjustable differential pressure switches ON/OFF
- ON/OFF float switch, located in the water collection tank, or
- Reverse pressure switch inserted in the water supply duct (aqueduct)

# PRESSOMAT

BOOSTER SETS - FIX SPEED

## THREE PHASE ELECTRICAL PANEL



### Electrical panel

- Box in metal IP54
- Main switch
- Keyboard with electronic board SA
- Fuses, contactor and thermal relay for each pump
- Transformer with fuses for the auxiliary circuit
- M-O-T switch for each pump
- Star-delta starter for motors above 7.5 kW

### Main functions

- Cyclic inversion of the start-up order of the pumps after each cycle end
- ON/OFF control of the level of the tank or the pressure of the supply duct by means of a float switch or a different differential pressure switch
- Timer of the pumps settable from 0 to 180 seconds, after the opening of the pressure switch operation contact

### Signals and controls

- LED indicating the presence of power
- LED indicating the low water level in the tank or an insufficient pressure in the supply duct (aqueduct)
- LED indicating the operation of each pump
- LED indicating that one of the two thermal relays has tripped because of an overload
- LED indicating manual or automatic operation
- Buttons to select manual or automatic control
- Buttons to start or stop each pump (manual operation)

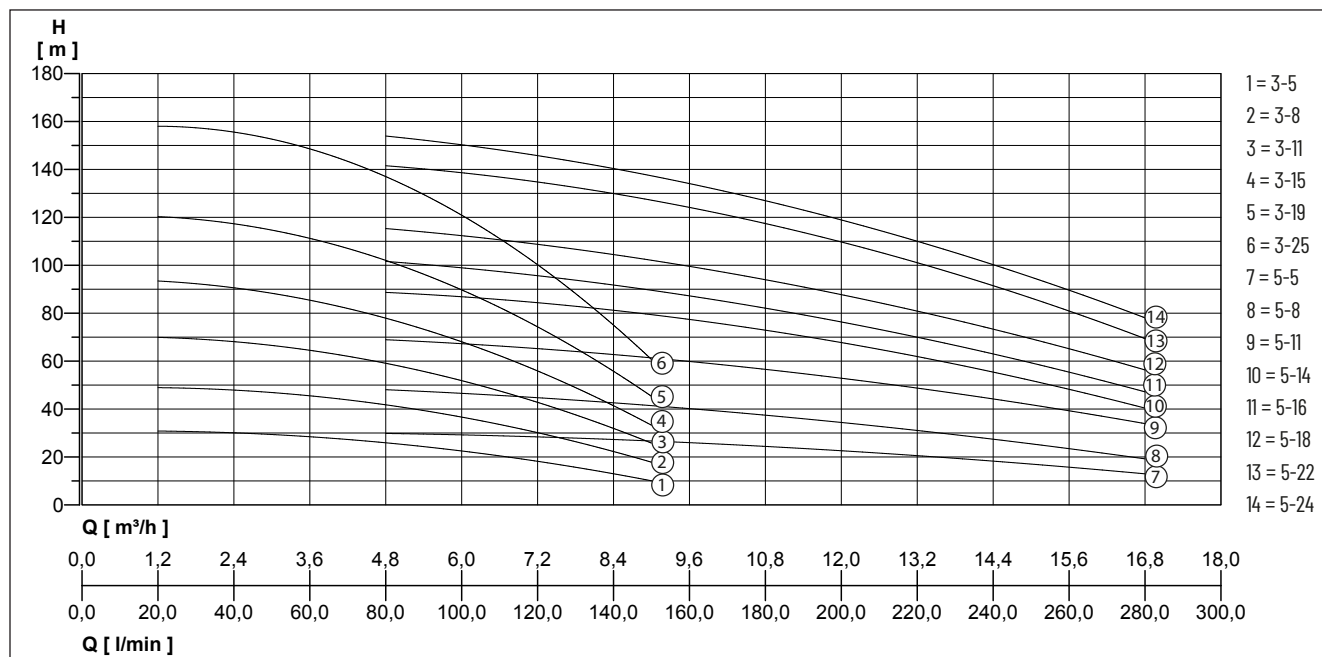
### External control devices

- Two adjustable differential pressure switches ON/OFF
- ON/OFF float switch, located in the water collection tank, or
- 3 electrodes for the electronic control of the level of the tank, or
- Reverse pressure switch inserted in the water supply duct (aqueduct)

# PRESSOMAT PM 20 PVM 3 - 5

BOOSTER SETS - FIX SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

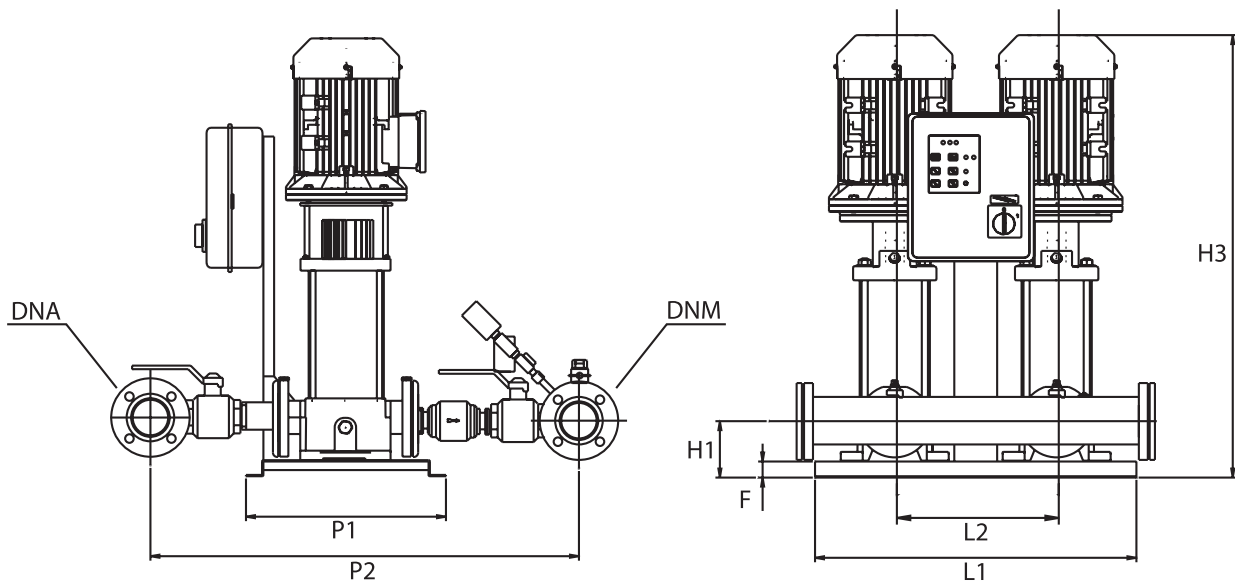
| Type                   | Flow rate $Q$ [ $m^3/h$ ] | 0   | 1   | 2   | 4   | 4.8 | 5   | 6   | 7  | 7.2 | 8  | 9  | 9.6 | 12  | 14.4 | 16.8 |
|------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|-----|-----|------|------|
| PMD20 PVM 3-5 F        | Delivery head $H$ [m]     | 40  | 31  | 30  | 28  |     | 26  | 23  | 18 |     | 13 | 10 |     |     |      |      |
| PMS20/PMD20 PVM 3-8 F  |                           | 50  | 49  | 48  | 45  |     | 42  | 37  | 30 |     | 22 | 18 |     |     |      |      |
| PMS20/PMD20 PVM 3-11 F |                           | 72  | 70  | 68  | 64  |     | 60  | 52  | 42 |     | 32 | 26 |     |     |      |      |
| PMS20/PMD20 PVM 3-15 F |                           | 97  | 94  | 90  | 85  |     | 78  | 68  | 57 |     | 41 | 33 |     |     |      |      |
| PMS20/PMD20 PVM 3-19 F |                           | 123 | 121 | 117 | 110 |     | 102 | 90  | 76 |     | 55 | 45 |     |     |      |      |
| PMD20 PVM 3-25 F       |                           | 165 | 157 | 156 | 150 |     | 138 | 120 | 98 |     | 75 | 62 |     |     |      |      |
| PMS20/PMD20 PVM 5-5 F  |                           | 32  |     |     |     | 30  |     |     |    | 28  |    |    | 26  | 23  | 18   | 13   |
| PMS20/PMD20 PVM 5-8 F  |                           | 52  |     |     |     | 48  |     |     |    | 45  |    |    | 40  | 34  | 28   | 19   |
| PMD20 PVM 5-11 F       |                           | 74  |     |     |     | 69  |     |     |    | 65  |    |    | 60  | 53  | 44   | 34   |
| PMD20 PVM 5-14 F       |                           | 93  |     |     |     | 89  |     |     |    | 84  |    |    | 77  | 68  | 56   | 40   |
| PMD20 PVM 5-16 F       |                           | 107 |     |     |     | 102 |     |     |    | 95  |    |    | 87  | 77  | 63   | 47   |
| PMD20 PVM 5-18 F       |                           | 120 |     |     |     | 115 |     |     |    | 109 |    |    | 100 | 88  | 72   | 57   |
| PMD20 PVM 5-22 F       |                           | 148 |     |     |     | 142 |     |     |    | 134 |    |    | 124 | 110 | 92   | 69   |
| PMD20 PVM 5-24 F       |                           | 164 |     |     |     | 154 |     |     |    | 146 |    |    | 133 | 120 | 100  | 78   |

# PRESSOMAT PM 20 PVM 3 - 5

BOOSTER SETS - FIX SPEED

## PRESSOMAT PM 20 PVM 3 - 5

| Type             | Code No. | Voltage      | Motor rating 2xP2 | Weight |
|------------------|----------|--------------|-------------------|--------|
| PMD20 PVM 3-5 F  | UP460000 | 3/N/PE~400 V | 0.37 kW           | 106 kg |
| PMS20 PVM 3-8 F  | UP450010 | 1/N/PE~230 V | 0.75 kW           | 108 kg |
| PMD20 PVM 3-8 F  | UP460010 | 3/N/PE~400 V | 0.75 kW           | 113 kg |
| PMS20 PVM 3-11 F | UP450020 | 1/N/PE~230 V | 1.10 kW           | 113 kg |
| PMD20 PVM 3-11 F | UP460020 | 3/N/PE~400 V | 1.10 kW           | 118 kg |
| PMS20 PVM 3-15 F | UP450030 | 1/N/PE~230 V | 1.10 kW           | 116 kg |
| PMD20 PVM 3-15 F | UP460030 | 3/N/PE~400 V | 1.10 kW           | 121 kg |
| PMS20 PVM 3-19 F | UP450040 | 1/N/PE~230 V | 1.50 kW           | 136 kg |
| PMD20 PVM 3-19 F | UP460040 | 3/N/PE~400 V | 1.50 kW           | 141 kg |
| PMD20 PVM 3-25 F | UP460050 | 3/N/PE~400 V | 2.20 kW           | 151 kg |
| PMS20 PVM 5-5 F  | UP450060 | 1/N/PE~230 V | 0.75 kW           | 107 kg |
| PMD20 PVM 5-5 F  | UP460060 | 3/N/PE~400 V | 0.75 kW           | 112 kg |
| PMS20 PVM 5-8 F  | UP450070 | 1/N/PE~230 V | 1.10 kW           | 113 kg |
| PMD20 PVM 5-8 F  | UP460070 | 3/N/PE~400 V | 1.10 kW           | 118 kg |
| PMD20 PVM 5-11 F | UP460080 | 3/N/PE~400 V | 2.20 kW           | 144 kg |
| PMD20 PVM 5-14 F | UP460090 | 3/N/PE~400 V | 2.20 kW           | 147 kg |
| PMD20 PVM 5-16 F | UP460100 | 3/N/PE~400 V | 2.20 kW           | 149 kg |
| PMD20 PVM 5-18 F | UP460110 | 3/N/PE~400 V | 3.00 kW           | 166 kg |
| PMD20 PVM 5-22 F | UP460120 | 3/N/PE~400 V | 4.00 kW           | 177 kg |
| PMD20 PVM 5-24 F | UP460130 | 3/N/PE~400 V | 4.00 kW           | 179 kg |



# PRESSOMAT PM 20 PVM 3 - 5

BOOSTER SETS - FIX SPEED

## DIMENSIONS [mm]

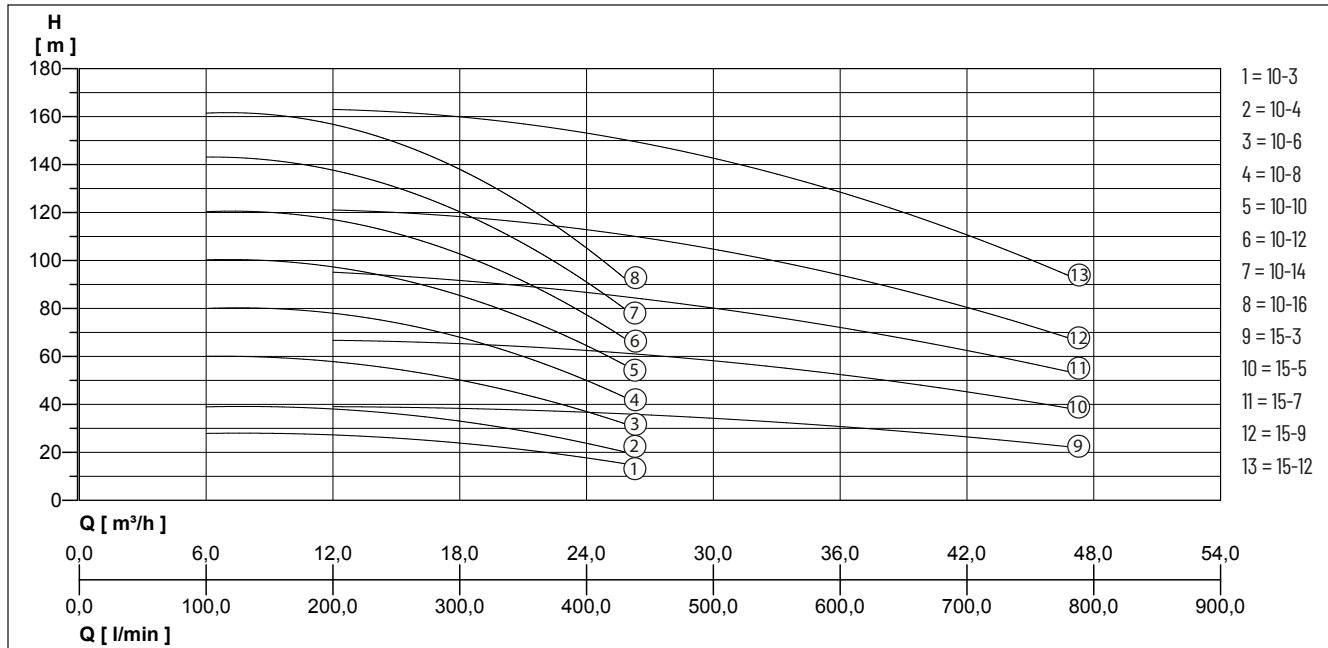
| Type                   | F  | L1  | L2  | P1  | P2  | H1  | H2  | H3   | DNA | DNM |
|------------------------|----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| PMD20 PVM 3-5 F        | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 540  | 2"  | 2"  |
| PMS20/PMD20 PVM 3-8 F  | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 640  | 2"  | 2"  |
| PMS20/PMD20 PVM 3-11 F | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 694  | 2"  | 2"  |
| PMS20/PMD20 PVM 3-15 F | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 766  | 2"  | 2"  |
| PMS20/PMD20 PVM 3-19 F | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 886  | 2"  | 2"  |
| PMD20 PVM 3-25 F       | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 994  | 2"  | 2"  |
| PMS20/PMD20 PVM 5-5 F  | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 631  | 2"  | 2"  |
| PMS20/PMD20 PVM 5-8 F  | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 712  | 2"  | 2"  |
| PMD20 PVM 5-11 F       | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 841  | 2"  | 2"  |
| PMD20 PVM 5-14 F       | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 922  | 2"  | 2"  |
| PMD20 PVM 5-16 F       | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 976  | 2"  | 2"  |
| PMD20 PVM 5-18 F       | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 1088 | 2"  | 2"  |
| PMD20 PVM 5-22 F       | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 1203 | 2"  | 2"  |
| PMD20 PVM 5-24 F       | 30 | 600 | 370 | 320 | 690 | 105 | 780 | 1257 | 2"  | 2"  |



# PRESSOMAT PM 20 PVM 10 - 15

BOOSTER SETS - FIX SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

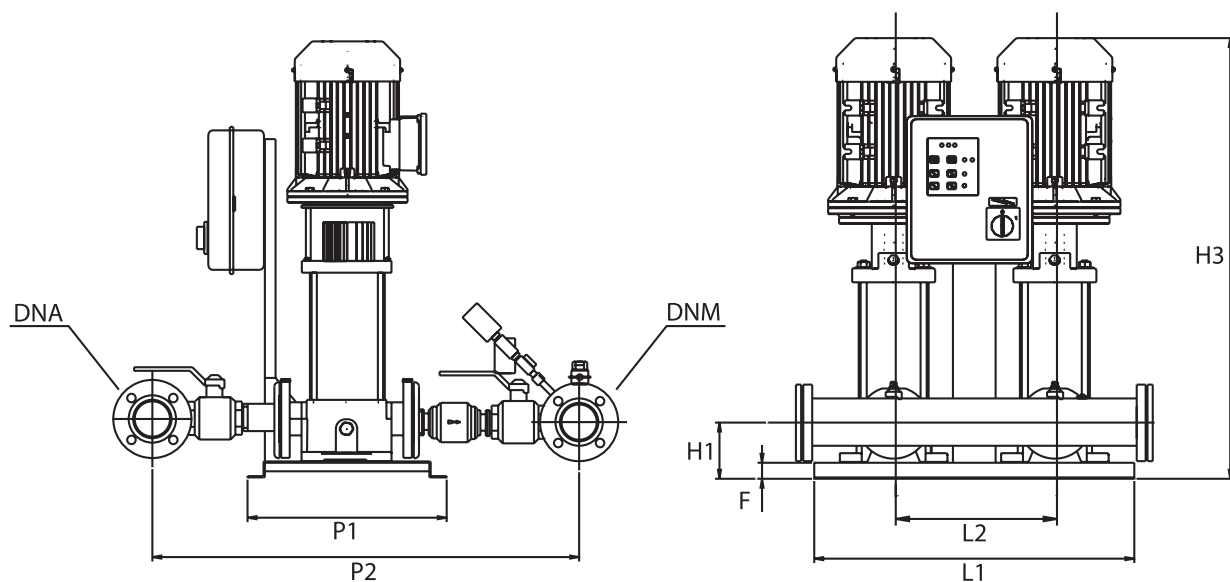
| Type                   | Flow rate $Q$ [ $\text{m}^3/\text{h}$ ] | 0     | 6     | 12    | 18    | 24    | 26   | 36    | 42    | 47   |
|------------------------|-----------------------------------------|-------|-------|-------|-------|-------|------|-------|-------|------|
| PMS20/PMD20 PVM 10-3 F | Delivery head $H$ [m]                   | 28.0  | 28.0  | 27.0  | 24.0  | 18.0  | 15.0 |       |       |      |
| PMS20/PMD20 PVM 10-4 F |                                         | 39.0  | 39.0  | 38.0  | 33.0  | 24.0  | 20.0 |       |       |      |
| PMD20 PVM 10-6 F       |                                         | 60.0  | 60.0  | 58.0  | 50.0  | 37.0  | 32.0 |       |       |      |
| PMD20 PVM 10-8 F       |                                         | 80.0  | 80.0  | 78.0  | 68.0  | 50.0  | 43.0 |       |       |      |
| PMD20 PVM 10-10 F      |                                         | 100.0 | 100.0 | 98.0  | 85.0  | 64.0  | 57.0 |       |       |      |
| PMD20 PVM 10-12 F      |                                         | 120.0 | 120.0 | 118.0 | 102.0 | 77.0  | 68.0 |       |       |      |
| PMD20 PVM 10-14 F      |                                         | 142.0 | 143.0 | 138.0 | 120.0 | 91.0  | 80.0 |       |       |      |
| PMD20 PVM 10-16 F      |                                         | 160.0 | 161.0 | 158.0 | 137.0 | 105.0 | 93.0 |       |       |      |
| PMD20 PVM 15-3 F       |                                         | 39.8  |       | 39.2  |       | 36.3  |      | 31.0  | 26.8  | 22.0 |
| PMD20 PVM 15-5 F       |                                         | 68.0  |       | 66.9  |       | 62.0  |      | 52.7  | 45.7  | 38.0 |
| PMD20 PVM 15-7 F       |                                         | 97.0  |       | 95.0  |       | 87.0  |      | 72.0  | 62.0  | 54.0 |
| PMD20 PVM 15-9 F       |                                         | 124.0 |       | 121.0 |       | 113.0 |      | 94.0  | 80.0  | 68.0 |
| PMY20 PVM 15-12 F      |                                         | 166.0 |       | 163.0 |       | 153.0 |      | 129.0 | 110.0 | 94.0 |

## PRESSOMAT PM 20 PVM 10 - 15

| Type              | Code No. | Voltage      | Motor rating 2xP2 | Weight |
|-------------------|----------|--------------|-------------------|--------|
| PMS20 PVM 10-3 F  | UP450110 | 1/N/PE~230 V | 1.1 kW            | 135 kg |
| PMD20 PVM 10-3 F  | UP460140 | 3/N/PE~400 V | 1.1 kW            | 140 kg |
| PMS20 PVM 10-4 F  | UP450120 | 1/N/PE~230 V | 1.5 kW            | 155 kg |
| PMD20 PVM 10-4 F  | UP460150 | 3/N/PE~400 V | 1.5 kW            | 160 kg |
| PMD20 PVM 10-6 F  | UP460160 | 3/N/PE~400 V | 2.2 kW            | 169 kg |
| PMD20 PVM 10-8 F  | UP460170 | 3/N/PE~400 V | 3.0 kW            | 189 kg |
| PMD20 PVM 10-10 F | UP460180 | 3/N/PE~400 V | 4.0 kW            | 200 kg |
| PMD20 PVM 10-12 F | UP460190 | 3/N/PE~400 V | 4.0 kW            | 204 kg |
| PMD20 PVM 10-14 F | UP460200 | 3/N/PE~400 V | 5.5 kW            | 269 kg |
| PMD20 PVM 10-16 F | UP460210 | 3/N/PE~400 V | 5.5 kW            | 273 kg |
| PMD20 PVM 15-3 F  | UP460220 | 3/N/PE~400 V | 3.0 kW            | 191 kg |
| PMD20 PVM 15-5 F  | UP460230 | 3/N/PE~400 V | 4.0 kW            | 204 kg |
| PMD20 PVM 15-7 F  | UP460240 | 3/N/PE~400 V | 5.5 kW            | 270 kg |
| PMD20 PVM 15-9 F  | UP460250 | 3/N/PE~400 V | 7.5 kW            | 294 kg |
| PMY20 PVM 15-12 F | UP460260 | 3/N/PE~400 V | 11.0 kW           | 379 kg |

# PRESSOMAT PM 20 PVM 10 - 15

BOOSTER SETS - FIX SPEED



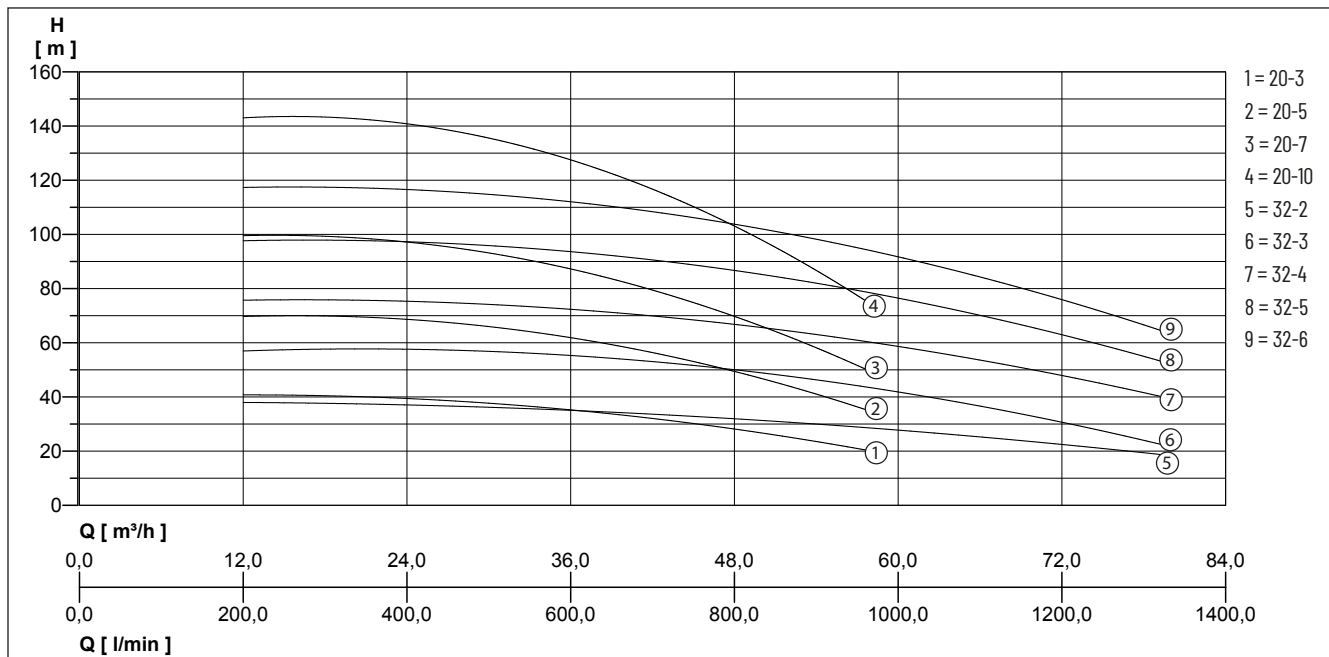
## DIMENSIONS [mm]

| Type              | F  | L1  | L2  | P1  | P2  | H1  | H2  | H3   | DNA    | DNM    |
|-------------------|----|-----|-----|-----|-----|-----|-----|------|--------|--------|
| PMS20 PVM 10-3 F  | 30 | 620 | 370 | 320 | 690 | 105 | 780 | 642  | 2 1/2" | 2 1/2" |
| PMD20 PVM 10-3 F  | 30 | 620 | 370 | 320 | 750 | 110 | 780 | 642  | 2 1/2" | 2 1/2" |
| PMS20 PVM 10-4 F  | 30 | 620 | 370 | 320 | 690 | 105 | 780 | 720  | 2 1/2" | 2 1/2" |
| PMD20 PVM 10-4 F  | 30 | 620 | 370 | 320 | 750 | 110 | 780 | 720  | 2 1/2" | 2 1/2" |
| PMD20 PVM 10-6 F  | 30 | 620 | 370 | 320 | 750 | 110 | 780 | 780  | 2 1/2" | 2 1/2" |
| PMD20 PVM 10-8 F  | 30 | 620 | 370 | 320 | 750 | 110 | 780 | 900  | 2 1/2" | 2 1/2" |
| PMD20 PVM 10-10 F | 30 | 620 | 370 | 320 | 750 | 110 | 780 | 966  | 2 1/2" | 2 1/2" |
| PMD20 PVM 10-12 F | 30 | 620 | 370 | 320 | 750 | 105 | 780 | 1026 | 2 1/2" | 2 1/2" |
| PMD20 PVM 10-14 F | 30 | 620 | 370 | 320 | 750 | 110 | 780 | 1155 | 2 1/2" | 2 1/2" |
| PMD20 PVM 10-16 F | 30 | 620 | 370 | 320 | 750 | 110 | 780 | 1215 | 2 1/2" | 2 1/2" |
| PMD20 PVM 15-3 F  | 30 | 620 | 370 | 380 | 860 | 110 |     | 816  | 3"     | 2 1/2" |
| PMD20 PVM 15-5 F  | 30 | 620 | 370 | 380 | 860 | 110 |     | 913  | 3"     | 2 1/2" |
| PMD20 PVM 15-7 F  | 30 | 620 | 370 | 380 | 860 | 110 |     | 1072 | 3"     | 2 1/2" |
| PMD20 PVM 15-9 F  | 30 | 620 | 370 | 380 | 860 | 110 |     | 1182 | 3"     | 2 1/2" |
| PMY20 PVM 15-12 F | 30 | 620 | 370 | 380 | 860 | 110 |     | 1507 | 3"     | 2 1/2" |

# PRESSOMAT PM 20 PVM 20 - 32

BOOSTER SETS - FIX SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

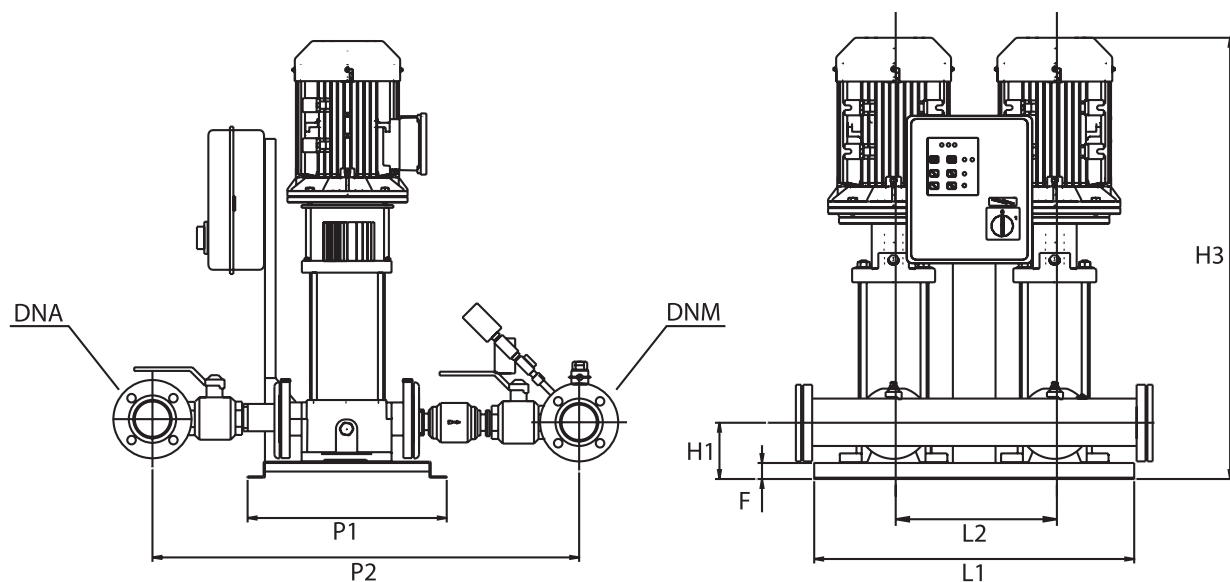
| Type              | Flow rate $Q$ [ $\text{m}^3/\text{h}$ ] | 0   | 12  | 24  | 36  | 48  | 57.6 | 60 | 72 | 79.2 |
|-------------------|-----------------------------------------|-----|-----|-----|-----|-----|------|----|----|------|
| PMD20 PVM 20-3 F  | Delivery head $H$ [m]                   | 42  | 41  | 39  | 35  | 29  | 20   |    |    |      |
| PMD20 PVM 20-5 F  |                                         | 72  | 70  | 68  | 62  | 50  | 35   |    |    |      |
| PMD20 PVM 20-7 F  |                                         | 101 | 100 | 96  | 88  | 70  | 50   |    |    |      |
| PMY20 PVM 20-10 F |                                         | 146 | 144 | 139 | 127 | 106 | 74   |    |    |      |
| PMD20 PVM 32-2 F  |                                         | 39  | 38  | 37  | 35  | 32  |      | 28 | 22 | 19   |
| PMD20 PVM 32-3 F  |                                         | 58  | 58  | 57  | 54  | 49  |      | 43 | 35 | 30   |
| PMD20 PVM 32-4 F  |                                         | 76  | 76  | 75  | 72  | 67  |      | 59 | 48 | 40   |
| PMY20 PVM 32-5 F  |                                         | 98  | 98  | 97  | 93  | 87  |      | 77 | 63 | 53   |
| PMY20 PVM 32-6 F  |                                         | 117 | 118 | 116 | 111 | 104 |      | 93 | 76 | 64   |

## PRESSOMAT PM 20 PVM 20 - 32

| Type              | Code No. | Voltage      | Motor rating 2xP2 | Weight |
|-------------------|----------|--------------|-------------------|--------|
| PMD20 PVM 20-3 F  | UP460270 | 3/N/PE~400 V | 4.0 kW            | 199 kg |
| PMD20 PVM 20-5 F  | UP460280 | 3/N/PE~400 V | 5.5 kW            | 265 kg |
| PMD20 PVM 20-7 F  | UP460290 | 3/N/PE~400 V | 7.5 kW            | 289 kg |
| PMY20 PVM 20-10 F | UP460300 | 3/N/PE~400 V | 11.0 kW           | 310 kg |
| PMD20 PVM 32-2 F  | UP460310 | 3/N/PE~400 V | 4.0 kW            | 140 kg |
| PMD20 PVM 32-3 F  | UP460320 | 3/N/PE~400 V | 5.5 kW            | 160 kg |
| PMD20 PVM 32-4 F  | UP460330 | 3/N/PE~400 V | 7.5 kW            | 169 kg |
| PMY20 PVM 32-5 F  | UP460340 | 3/N/PE~400 V | 11.0 kW           | 189 kg |
| PMY20 PVM 32-6 F  | UP460350 | 3/N/PE~400 V | 11.0 kW           | 200 kg |

# PRESSOMAT PM 20 PVM 20 - 32

BOOSTER SETS - FIX SPEED



## DIMENSIONS [mm]

| Type              | F  | L1  | L2  | P1  | P2   | H1  | H3   | DNA | DNM    |
|-------------------|----|-----|-----|-----|------|-----|------|-----|--------|
| PMD20 PVM 20-3 F  | 30 | 620 | 370 | 380 | 860  | 110 | 823  | 3"  | 2 1/2" |
| PMD20 PVM 20-5 F  | 30 | 620 | 370 | 380 | 860  | 110 | 982  | 3"  | 2 1/2" |
| PMD20 PVM 20-7 F  | 30 | 620 | 370 | 380 | 860  | 110 | 1092 | 3"  | 2 1/2" |
| PMY20 PVM 20-10 F | 30 | 620 | 370 | 380 | 860  | 110 | 1417 | 3"  | 2 1/2" |
| PMD20 PVM 32-2 F  | 80 | 665 | 440 | 700 | 1036 | 185 | 642  | 4"  | 3"     |
| PMD20 PVM 32-3 F  | 80 | 665 | 440 | 700 | 1036 | 185 | 720  | 4"  | 3"     |
| PMD20 PVM 32-4 F  | 80 | 665 | 440 | 700 | 1036 | 185 | 780  | 4"  | 3"     |
| PMY20 PVM 32-5 F  | 80 | 665 | 440 | 700 | 1036 | 185 | 900  | 4"  | 3"     |
| PMY20 PVM 32-6 F  | 80 | 665 | 440 | 700 | 1036 | 185 | 966  | 4"  | 3"     |

## CPS20

### BOOSTER SETS - VARIABLE SPEED

- Reliable
- Easy to install
- Pressure remains constant during supply
- Low energy consumption



#### DESCRIPTION

The new series of variable speed pressurization booster set CPS20 represents a reliable solution which is easy to use, for residential and industrial applications. The system involves the installation in parallel of two inverters integrated directly on the motor of each pump installed. The two frequency converters communicate and alternate the starting order of each work cycle, always keeping the pressure constant in the distribution system.

#### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Irrigation
- Industry
- Washes

#### MECHANICAL DATA

|                |                                                           |                                |       |
|----------------|-----------------------------------------------------------|--------------------------------|-------|
| Type of liquid | clean water without suspended solids or abrasive material | Temperature of the liquid max. | 90 °C |
|----------------|-----------------------------------------------------------|--------------------------------|-------|

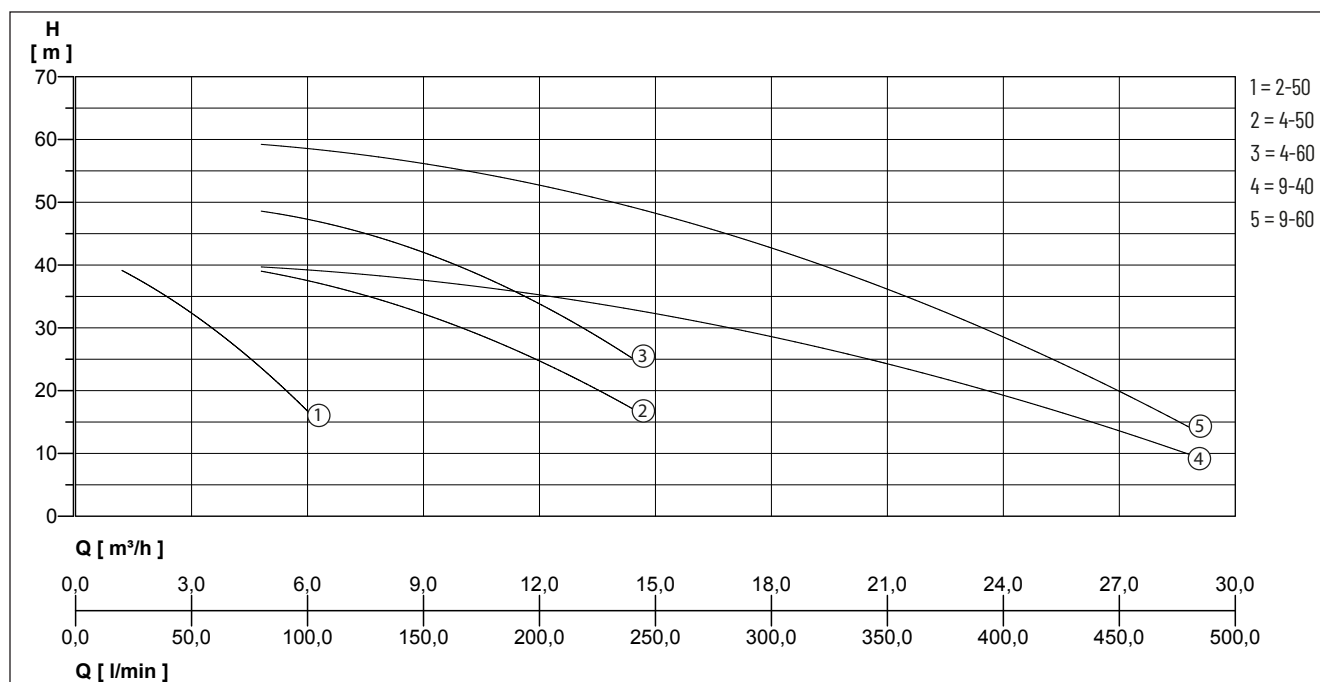
#### ELECTRICAL DATA

|         |              |  |  |
|---------|--------------|--|--|
| Voltage | 1/N/PE~230 V |  |  |
|---------|--------------|--|--|

# CPS20 DHR

## BOOSTER SETS - VARIABLE SPEED

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

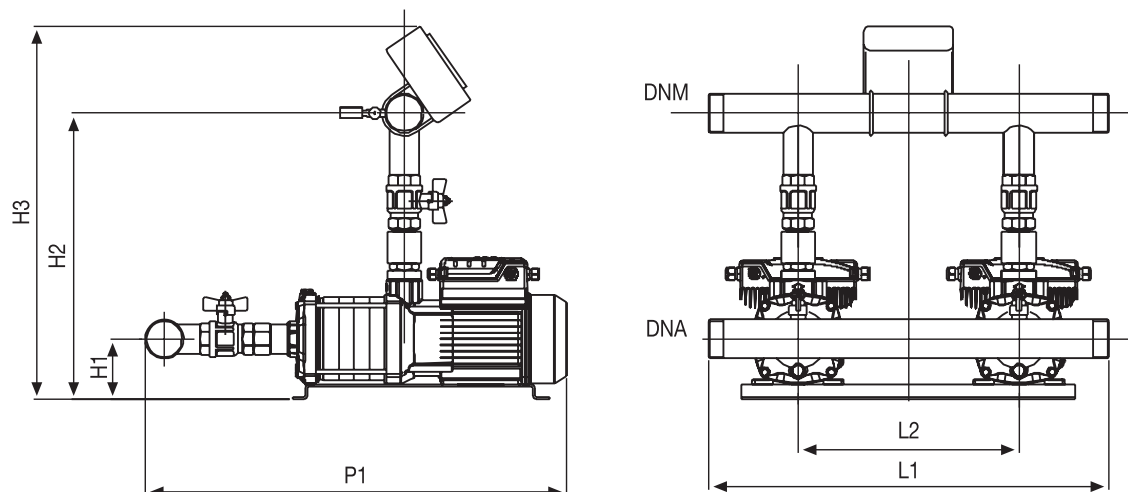
| Type           | Flow rate Q [m³/h]  | 1.2 | 2.4 | 3.6 | 4.8 | 6  | 7.2 | 9.6 | 12 | 14.4 | 19.2 | 24 | 28.8 |
|----------------|---------------------|-----|-----|-----|-----|----|-----|-----|----|------|------|----|------|
| CPS20/DHR 2-50 | Delivery head H [m] | 39  | 35  | 30  | 23  | 17 |     |     |    |      |      |    |      |
| CPS20/DHR 4-50 |                     |     |     |     | 39  | 38 | 35  | 31  | 25 | 17   |      |    |      |
| CPS20/DHR 4-60 |                     |     |     |     | 49  | 47 | 45  | 41  | 34 | 25   |      |    |      |
| CPS20/DHR 9-40 |                     |     |     |     | 40  | 39 | 38  | 38  | 35 | 33   | 27   | 19 | 10   |
| CPS20/DHR 9-60 |                     |     |     |     | 60  | 58 | 57  | 56  | 53 | 49   | 40   | 29 | 14   |

### CPS20 DHR

| Type           | Code No. | Motor rating 2xP2 | Current 2xl | Weight |
|----------------|----------|-------------------|-------------|--------|
| CPS20/DHR 2-50 | UI601000 | 0.75 kW           | 5.5 A       | 57 kg  |
| CPS20/DHR 4-50 | UI601010 | 0.90 kW           | 9.7 A       | 62 kg  |
| CPS20/DHR 4-60 | UI601020 | 1.30 kW           | 9.5 A       | 68 kg  |
| CPS20/DHR 9-40 | UI601030 | 1.30 kW           | 12.5 A      | 77 kg  |
| CPS20/DHR 9-60 | UI601180 | 1.50 kW           | 18.4 A      | 89 kg  |

# CPS20 DHR

BOOSTER SETS - VARIABLE SPEED



## DIMENSIONS [mm]

| Type           | L1  | L2  | P1  | H1  | H2  | H3  | DNA    | DNM    |
|----------------|-----|-----|-----|-----|-----|-----|--------|--------|
| CPS20/DHR 2-50 | 540 | 310 | 525 | 100 | 365 | 572 | 2 1/2" | 1 1/2" |
| CPS20/DHR 4-50 | 540 | 310 | 587 | 100 | 365 | 572 | 2"     | 1 1/2" |
| CPS20/DHR 4-60 | 670 | 310 | 640 | 110 | 377 | 585 | 2"     | 1 1/2" |
| CPS20/DHR 9-40 | 670 | 370 | 610 | 110 | 445 | 660 | 2 1/2" | 2"     |
| CPS20/DHR 9-60 | 670 | 370 | 670 | 110 | 445 | 660 | 2 1/2" | 2"     |

# CPS20

BOOSTER SETS - VARIABLE SPEED



## VARIO 1-20/MULTI EVO-E

### BOOSTER SETS - VARIABLE SPEED

- Compact dimensions
- Sturdy and resistant
- High hydraulic efficiency
- Pressure remains constant during supply



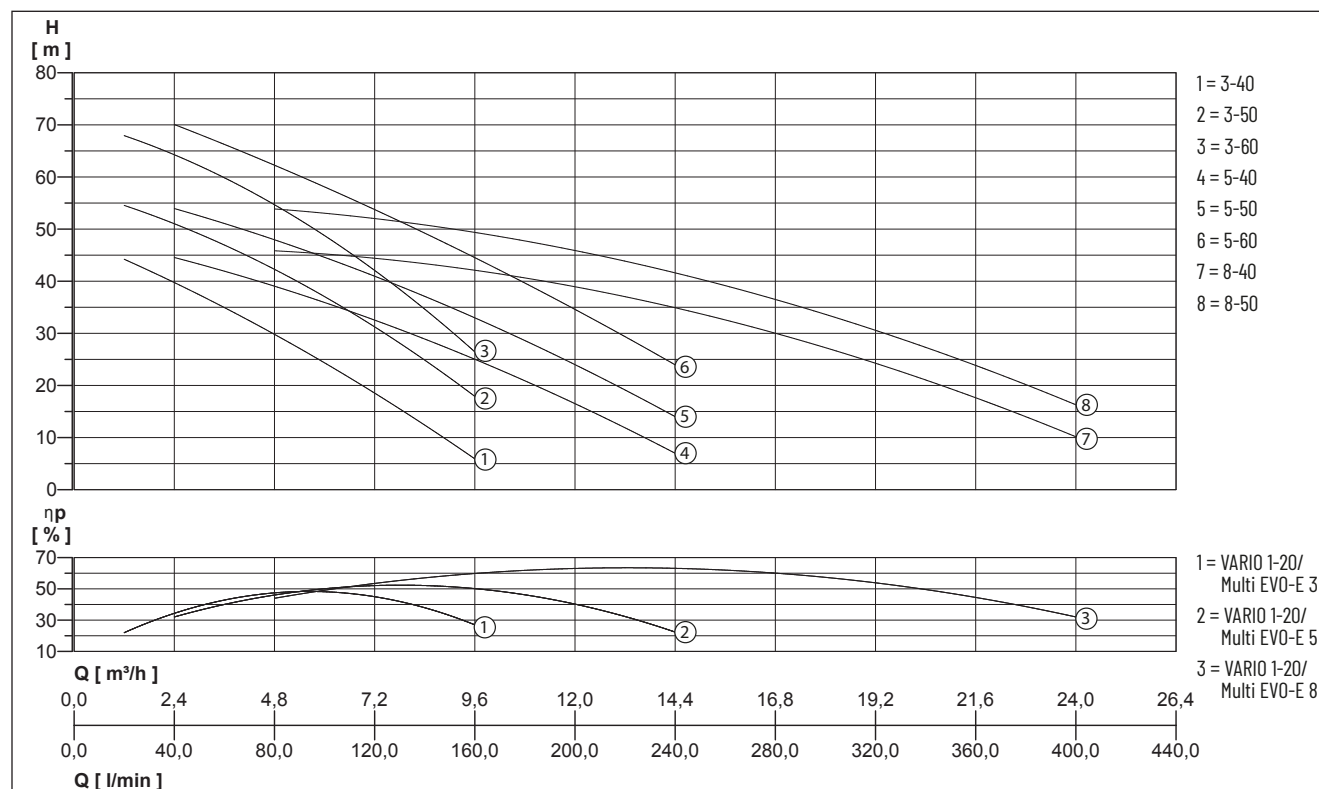
#### DESCRIPTION

The new series of variable speed pressurization boosters VARIO 1-20 represents a reliable solution which is easy to use, for residential and industrial applications. The system involves the installation in parallel of two inverters integrated directly on the motor of each pump installed. The two frequency converters communicate and alternate the starting order of each work cycle, always keeping the pressure constant in the distribution system.

#### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing systems
- Irrigation

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

# VARIO 1-20/MULTI EVO-E

## BOOSTER SETS - VARIABLE SPEED

| Type                       | Flow rate Q [m³/h]  | 1.2  | 2.4  | 3.6  | 4.8  | 6    | 7.2  | 9.6  | 12   | 14.4 | 16.8 | 19.2 | 21.6 | 24   |
|----------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| VARIO1-20/Multi EVO-E 3-40 | Delivery head H [m] | 44.0 | 40.0 | 35.0 | 30.0 | 24.0 | 18.5 | 6.0  |      |      |      |      |      |      |
| VARIO1-20/Multi EVO-E 3-50 |                     | 54.5 | 51.0 | 47.0 | 42.5 | 37.0 | 31.0 | 18.0 |      |      |      |      |      |      |
| VARIO1-20/Multi EVO-E 3-60 |                     | 68.0 | 64.0 | 60.0 | 55.0 | 48.5 | 42.0 | 26.5 |      |      |      |      |      |      |
| VARIO1-20/Multi EVO-E 5-40 |                     | 44.5 | 42.0 | 39.0 | 36.0 | 32.5 | 25.0 | 16.5 | 7.0  |      |      |      |      |      |
| VARIO1-20/Multi EVO-E 5-50 |                     | 54.0 | 51.0 | 48.0 | 44.5 | 41.0 | 33.0 | 24.0 | 14.0 |      |      |      |      |      |
| VARIO1-20/Multi EVO-E 5-60 |                     | 70.0 | 66.5 | 62.0 | 58.0 | 54.0 | 44.5 | 34.5 | 24.0 |      |      |      |      |      |
| VARIO1-20/Multi EVO-E 8-40 |                     |      |      |      | 46.0 | 45.0 | 44.5 | 42.0 | 39.0 | 35.0 | 30.0 | 24.0 | 18.0 | 10.0 |
| VARIO1-20/Multi EVO-E 8-50 |                     |      |      |      | 54.0 | 53.0 | 52.0 | 49.0 | 46.0 | 42.0 | 36.5 | 30.5 | 23.5 | 16.5 |

### MECHANICAL DATA

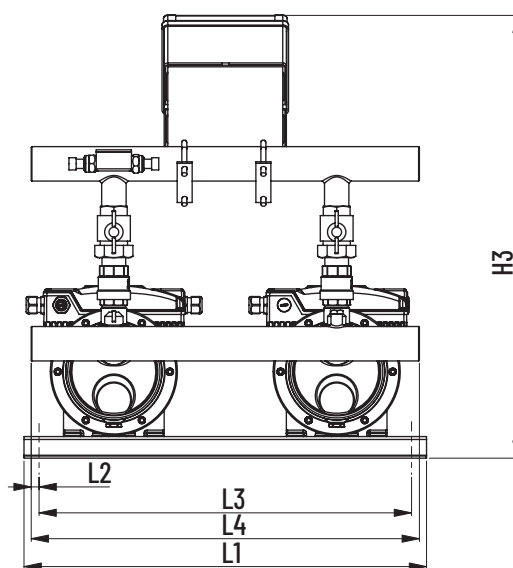
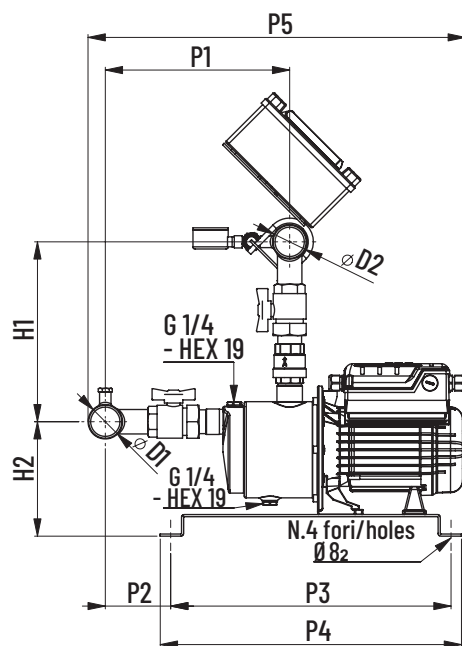
|                         |       |  |  |
|-------------------------|-------|--|--|
| Operating pressure max. | 8 bar |  |  |
|-------------------------|-------|--|--|

### ELECTRICAL DATA

|                   |              |                          |       |
|-------------------|--------------|--------------------------|-------|
| Voltage           | 1/N/PE~230 V | Ambient temperature max. | 40 °C |
| Type of enclosure | IP 55        | Frequency                | 50 Hz |

### VARIO 1-20/MULTI EVO-E

| Type                       | Code No. | Motor rating 2xP1 | Current 2xI | Weight  |
|----------------------------|----------|-------------------|-------------|---------|
| VARIO1-20/Multi EVO-E 3-40 | UI601730 | 0.80 kW           | 5.1 A       | 45.6 kg |
| VARIO1-20/Multi EVO-E 3-50 | UI601740 | 1.00 kW           | 7.0 A       | 49.6 kg |
| VARIO1-20/Multi EVO-E 3-60 | UI601750 | 1.35 kW           | 8.7 A       | 53.0 kg |
| VARIO1-20/Multi EVO-E 5-40 | UI601760 | 1.00 kW           | 7.0 A       | 49.0 kg |
| VARIO1-20/Multi EVO-E 5-50 | UI601770 | 1.25 kW           | 8.5 A       | 52.2 kg |
| VARIO1-20/Multi EVO-E 5-60 | UI601780 | 1.80 kW           | 11.5 A      | 56.4 kg |
| VARIO1-20/Multi EVO-E 8-40 | UI601790 | 1.60 kW           | 10.2 A      | 58.0 kg |
| VARIO1-20/Multi EVO-E 8-50 | UI601800 | 2.00 kW           | 12.5 A      | 60.2 kg |



# VARIO 1-20/MULTI EVO-E

BOOSTER SETS - VARIABLE SPEED

## DIMENSIONS [mm]

| Type                       | L1  | L2 | L3  | L4  | P1  | P2  | P3  | P4  | P5  | H1  | H2  | H3  | D1     | D2     |
|----------------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| VARIO1-20/Multi EVO-E 3-40 | 560 | 15 | 510 | 540 | 257 | 91  | 390 | 420 | 523 | 250 | 160 | 615 | 1 1/2" | 1 1/2" |
| VARIO1-20/Multi EVO-E 3-50 | 560 | 15 | 510 | 540 | 280 | 113 | 390 | 420 | 567 | 250 | 160 | 615 | 1 1/2" | 1 1/2" |
| VARIO1-20/Multi EVO-E 3-60 | 560 | 15 | 510 | 540 | 302 | 136 | 390 | 420 | 589 | 250 | 160 | 615 | 1 1/2" | 1 1/2" |
| VARIO1-20/Multi EVO-E 5-40 | 560 | 15 | 510 | 540 | 283 | 119 | 390 | 420 | 574 | 255 | 155 | 615 | 2"     | 1 1/2" |
| VARIO1-20/Multi EVO-E 5-50 | 560 | 15 | 510 | 540 | 305 | 141 | 390 | 420 | 596 | 255 | 155 | 615 | 2"     | 1 1/2" |
| VARIO1-20/Multi EVO-E 5-60 | 560 | 15 | 510 | 540 | 327 | 163 | 390 | 420 | 653 | 255 | 155 | 615 | 2"     | 1 1/2" |
| VARIO1-20/Multi EVO-E 8-40 | 560 | 15 | 510 | 540 | 300 | 136 | 390 | 420 | 623 | 300 | 155 | 660 | 2"     | 2"     |
| VARIO1-20/Multi EVO-E 8-50 | 560 | 15 | 510 | 540 | 327 | 163 | 390 | 420 | 623 | 300 | 155 | 660 | 2"     | 2"     |

# VARIO 1-20/MULTI EVO-E

BOOSTER SETS - VARIABLE SPEED

## VARIO 1-20/MULTI EVO-E P

### BOOSTER SETS - VARIABLE SPEED

- Compact dimensions
- High hydraulic performance
- Robust
- Easy to use



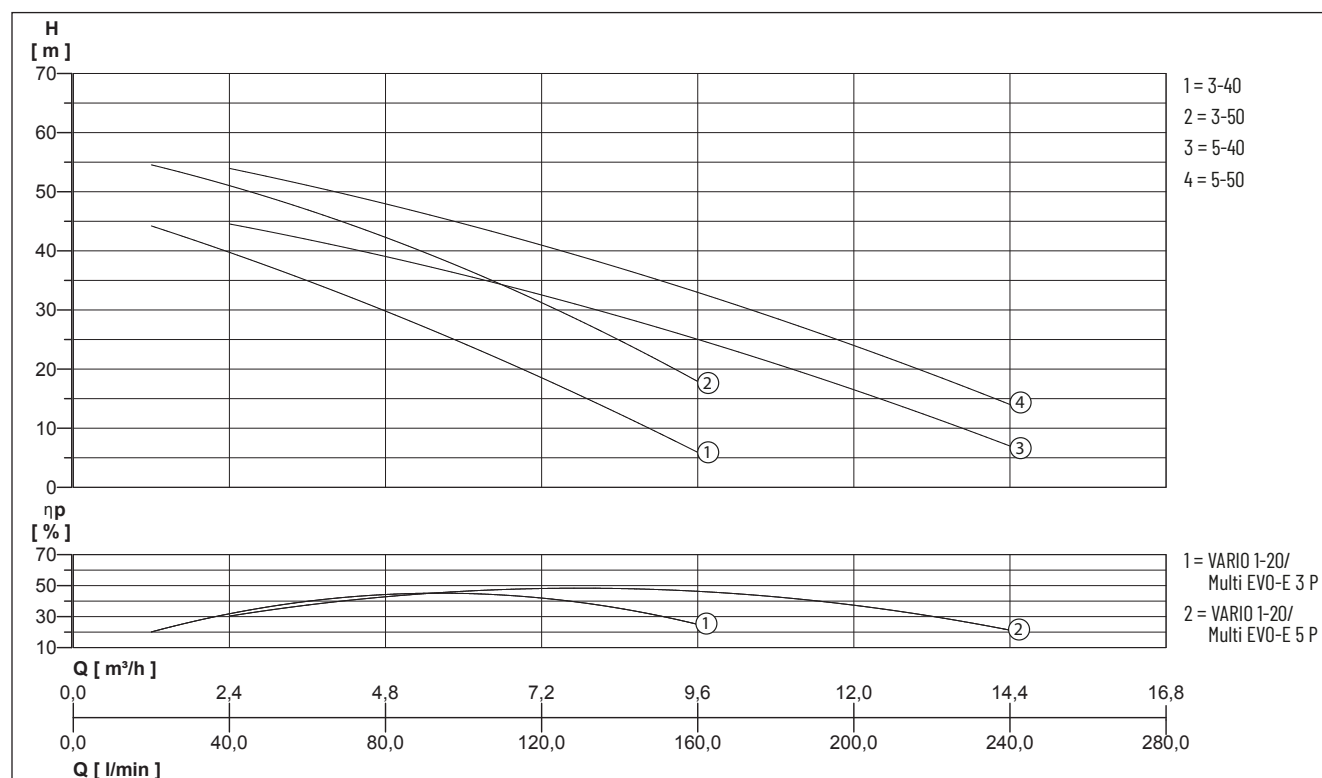
#### DESCRIPTION

The new series of VARIO 1-20 variable speed pressurization units represent a reliable, easy-to-use solution in residential and commercial applications. The system consists in the parallel installation of two inverters, incorporated directly onto the motor of each installed electric pump. The two frequency converters communicate and alternate the starting order of each operating cycle, maintaining a constant pressure in the distribution system.

#### APPLICATIONS

- Lifts and distributes water in domestic systems
- Pressurization systems
- Washing systems
- Irrigation

#### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                         | Flow rate Q [m³/h]  | 1.2  | 2.4  | 3.6  | 4.8  | 6    | 7.2  | 9.6  | 12   | 14.4 |
|------------------------------|---------------------|------|------|------|------|------|------|------|------|------|
| VARIO1-20/Multi EVO-E 3-40 P | Delivery head H [m] | 44.0 | 40.0 | 35.0 | 30.0 | 24.0 | 18.5 | 6.0  |      |      |
| VARIO1-20/Multi EVO-E 3-50 P |                     | 54.5 | 51.0 | 47.0 | 42.5 | 37.0 | 31.0 | 18.0 |      |      |
| VARIO1-20/Multi EVO-E 5-40 P |                     |      | 44.5 | 42.0 | 39.0 | 36.0 | 32.5 | 25.0 | 16.5 | 7.0  |
| VARIO1-20/Multi EVO-E 5-50 P |                     |      | 54.0 | 51.0 | 48.0 | 44.5 | 41.0 | 33.0 | 24.0 | 14.0 |

# VARIO 1-20/MULTI EVO-E P

BOOSTER SETS - VARIABLE SPEED

## MECHANICAL DATA

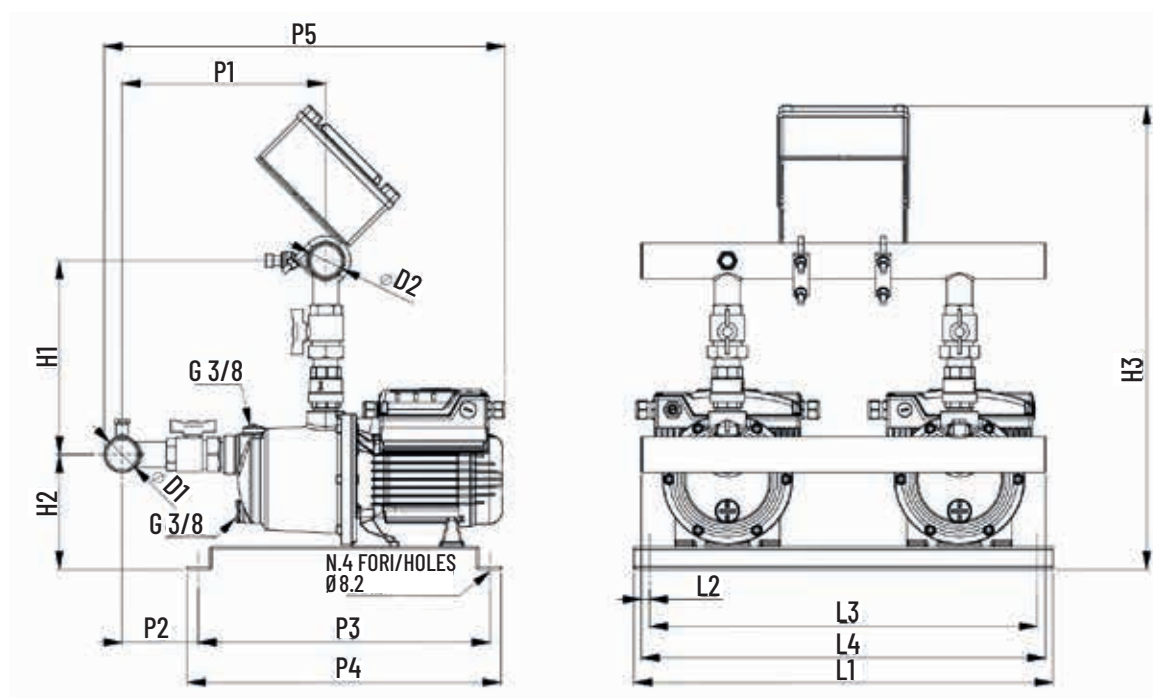
|                         |       |  |
|-------------------------|-------|--|
| Operating pressure max. | 7 bar |  |
|-------------------------|-------|--|

## ELECTRICAL DATA

|                   |              |                          |       |
|-------------------|--------------|--------------------------|-------|
| Voltage           | 1/N/PE~230 V | Ambient temperature max. | 40 °C |
| Type of enclosure | IP 55        | Frequency                | 50 Hz |

## VARIO 1-20/MULTI EVO-E P

| Type                         | Code No. | Motor rating 2xP1 | Current 2xl | Weight  |
|------------------------------|----------|-------------------|-------------|---------|
| VARIO1-20/Multi EVO-E 3-40 P | UI601810 | 0.80 kW           | 5.1 A       | 44.6 kg |
| VARIO1-20/Multi EVO-E 3-50 P | UI601820 | 1.00 kW           | 7.0 A       | 48.6 kg |
| VARIO1-20/Multi EVO-E 5-40 P | UI601830 | 1.00 kW           | 7.0 A       | 48.6 kg |
| VARIO1-20/Multi EVO-E 5-50 P | UI601840 | 1.25 kW           | 8.5 A       | 51.2 kg |



## DIMENSIONS [mm]

| Type                         | L1  | L2 | L3  | L4  | P1  | P2  | P3  | P4  | P5  | H1  | H2  | H3  | D1     | D2     |
|------------------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|
| VARIO1-20/Multi EVO-E 3-40 P | 560 | 15 | 510 | 540 | 272 | 102 | 390 | 420 | 535 | 260 | 153 | 615 | 1 1/2" | 1 1/2" |
| VARIO1-20/Multi EVO-E 3-50 P | 560 | 15 | 510 | 540 | 272 | 102 | 390 | 420 | 552 | 260 | 153 | 615 | 1 1/2" | 1 1/2" |
| VARIO1-20/Multi EVO-E 5-40 P | 560 | 15 | 510 | 540 | 272 | 102 | 390 | 420 | 552 | 260 | 153 | 615 | 1 1/2" | 1 1/2" |
| VARIO1-20/Multi EVO-E 5-50 P | 560 | 15 | 510 | 540 | 272 | 102 | 390 | 420 | 552 | 260 | 153 | 615 | 1 1/2" | 1 1/2" |

## VARIO 1-20

### BOOSTER SETS - VARIABLE SPEED

- Easy to install
- Low energy consumption
- Pressure remains constant during supply



#### DESCRIPTION

The new series of variable speed pressurization booster set VARIO 1-20 represents a reliable solution which is easy to use, for residential and industrial applications. The system involves the installation in parallel of two inverters integrated directly on the motor of each pump installed. The two frequency converters communicate and alternate the starting order of each work cycle, always keeping the pressure constant in the distribution system.

#### APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Irrigation
- Industry
- Washes

#### MECHANICAL DATA

|                         |        |                |                                                           |
|-------------------------|--------|----------------|-----------------------------------------------------------|
| Operating pressure max. | 16 bar | Type of liquid | clean water without suspended solids or abrasive material |
|-------------------------|--------|----------------|-----------------------------------------------------------|

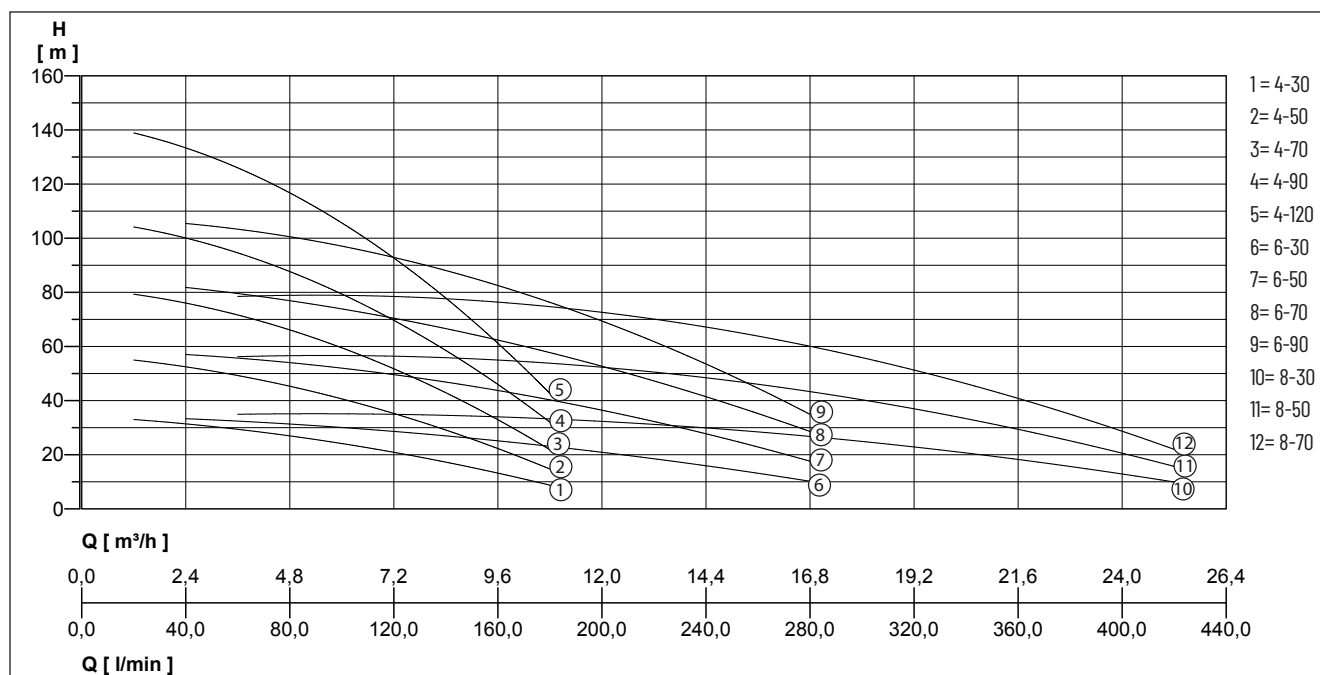
#### ELECTRICAL DATA

|         |              |                          |       |
|---------|--------------|--------------------------|-------|
| Voltage | 1/N/PE~230 V | Ambient temperature max. | 50 °C |
|---------|--------------|--------------------------|-------|

# VARIO 1-20 MULTINOX VE +

BOOSTER SETS - VARIABLE SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                         | Flow rate Q [m³/h]  | 1.2 | 2.4 | 3.6 | 4.8 | 6   | 7.2 | 8.4 | 9.6 | 10.8 | 12 | 14.4 | 16.8 | 18 | 21.6 | 25.2 |
|------------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|----|------|------|----|------|------|
| VARIO1-20 MULTINOX VE+ 4-30  | Delivery head H [m] | 33  | 31  | 30  | 27  | 24  | 21  | 17  | 13  | 9    |    |      |      |    |      |      |
| VARIO1-20 MULTINOX VE+ 4-50  |                     | 55  | 52  | 50  | 45  | 41  | 35  | 29  | 22  | 15   |    |      |      |    |      |      |
| VARIO1-20 MULTINOX VE+ 4-70  |                     | 79  | 76  | 72  | 67  | 59  | 51  | 43  | 33  | 22   |    |      |      |    |      |      |
| VARIO1-20 MULTINOX VE+ 4-90  |                     | 104 | 100 | 95  | 88  | 79  | 69  | 59  | 46  | 32   |    |      |      |    |      |      |
| VARIO1-20 MULTINOX VE+ 4-120 |                     | 138 | 134 | 127 | 117 | 105 | 92  | 78  | 61  | 43   |    |      |      |    |      |      |
| VARIO1-20 MULTINOX VE+ 6-30  |                     |     | 34  | 32  | 31  | 30  | 28  | 27  | 26  | 23   | 21 | 16   | 10   |    |      |      |
| VARIO1-20 MULTINOX VE+ 6-50  |                     |     | 58  | 56  | 53  | 51  | 49  | 47  | 44  | 41   | 37 | 28   | 17   |    |      |      |
| VARIO1-20 MULTINOX VE+ 6-70  |                     |     | 83  | 80  | 77  | 76  | 61  | 68  | 64  | 59   | 55 | 42   | 27   |    |      |      |
| VARIO1-20 MULTINOX VE+ 6-90  |                     |     | 107 | 103 | 99  | 97  | 92  | 88  | 83  | 76   | 71 | 54   | 34   |    |      |      |
| VARIO1-20 MULTINOX VE+ 8-30  |                     |     |     | 35  | 35  | 35  | 35  | 35  | 34  | 33   | 32 | 30   | 27   | 25 | 18   | 10   |
| VARIO1-20 MULTINOX VE+ 8-50  |                     |     |     | 57  | 57  | 56  | 56  | 56  | 54  | 53   | 52 | 50   | 45   | 40 | 28   | 16   |
| VARIO1-20 MULTINOX VE+ 8-70  |                     |     |     | 80  | 79  | 78  | 78  | 77  | 75  | 74   | 73 | 70   | 60   | 56 | 40   | 22   |

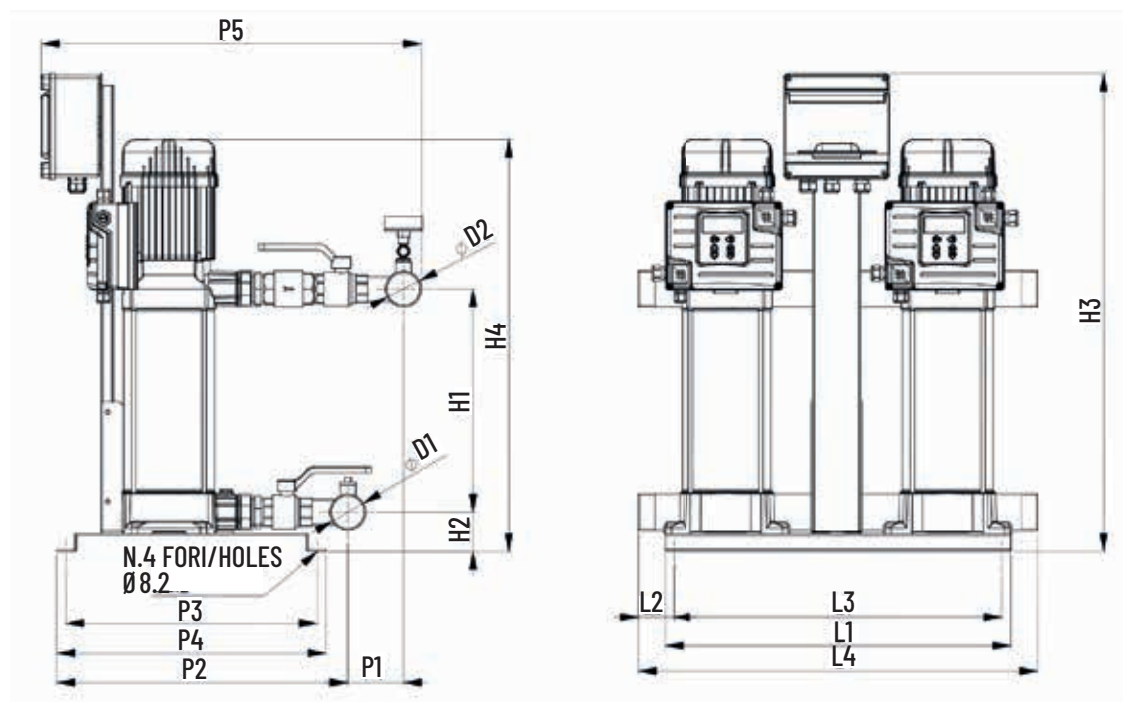
## VARIO 1-20 MULTINOX VE +

| Type                         | Code No.        | Motor rating 2xP2 | Current 2xI | Type of enclosure | Temperature of the liquid max. | Weight |
|------------------------------|-----------------|-------------------|-------------|-------------------|--------------------------------|--------|
| VARIO1-20 MULTINOX VE+ 4-30  | <b>UI601680</b> | 0.7 kW            | 5.0 A       | IP 44             | 50 °C                          | 71 kg  |
| VARIO1-20 MULTINOX VE+ 4-50  | <b>UI601690</b> | 1.3 kW            | 7.5 A       | IP 44             | 50 °C                          | 79 kg  |
| VARIO1-20 MULTINOX VE+ 4-70  | <b>UI601700</b> | 1.3 kW            | 10.3 A      | IP 44             | 50 °C                          | 87 kg  |
| VARIO1-20 MULTINOX VE+ 4-90  | <b>UI601710</b> | 1.5 kW            | 11.0 A      | IP 44             | 50 °C                          | 89 kg  |
| VARIO1-20 MULTINOX VE+ 4-120 | <b>UI601720</b> | 1.5 kW            | 17.8 A      | IP 44             | 50 °C                          | 93 kg  |
| VARIO1-20 MULTINOX VE+ 6-30  | <b>UI601640</b> | 0.7 kW            | 8.0 A       | IP 44             | 50 °C                          | 71 kg  |
| VARIO1-20 MULTINOX VE+ 6-50  | <b>UI601650</b> | 1.3 kW            | 11.6 A      | IP 44             | 50 °C                          | 79 kg  |
| VARIO1-20 MULTINOX VE+ 6-70  | <b>UI601660</b> | 1.5 kW            | 15.2 A      | IP 44             | 50 °C                          | 87 kg  |
| VARIO1-20 MULTINOX VE+ 6-90  | <b>UI601670</b> | 1.5 kW            | 16.0 A      | IP 44             | 50 °C                          | 89 kg  |
| VARIO1-20 MULTINOX VE+ 8-30  | <b>UI601610</b> | 1.3 kW            | 8.0 A       | IP 44             | 50 °C                          | 71 kg  |
| VARIO1-20 MULTINOX VE+ 8-50  | <b>UI601620</b> | 1.5 kW            | 12.5 A      | IP 44             | 50 °C                          | 79 kg  |
| VARIO1-20 MULTINOX VE+ 8-70  | <b>UI601630</b> | 1.5 kW            | 16.0 A      | IP 44             | 50 °C                          | 87 kg  |



# VARIO 1-20 MULTINOX VE +

## BOOSTER SETS - VARIABLE SPEED



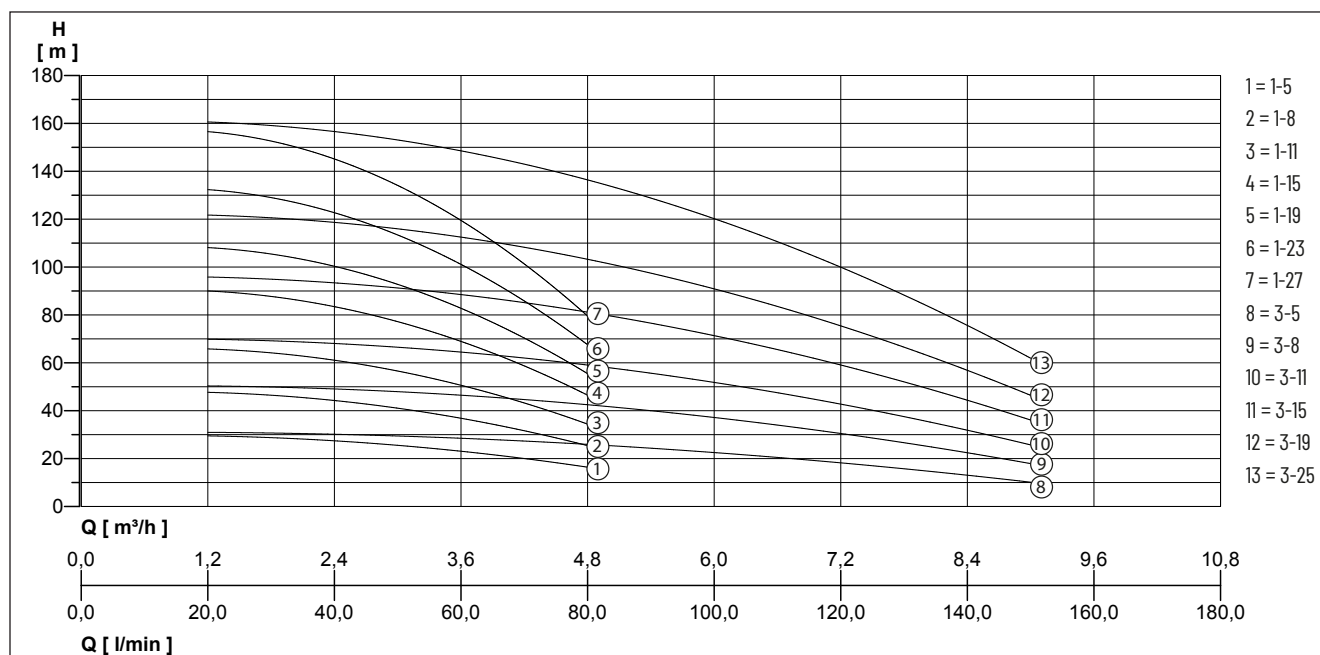
### DIMENSIONS [mm]

| Type                         | L1  | L2 | L3  | L4  | P1 | P2  | P3  | P4  | P5  | H1  | H2 | H3  | H4  | D1 | D2 |
|------------------------------|-----|----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|----|----|
| VARIO1-20 MULTINOX VE+ 4-30  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 130 | 65 | 800 | 446 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 4-50  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 184 | 65 | 800 | 500 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 4-70  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 238 | 65 | 800 | 554 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 4-90  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 292 | 65 | 800 | 608 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 4-120 | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 373 | 65 | 800 | 690 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 6-30  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 130 | 65 | 800 | 446 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 6-50  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 184 | 65 | 800 | 500 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 6-70  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 238 | 65 | 800 | 554 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 6-90  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 292 | 65 | 800 | 608 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 8-30  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 130 | 65 | 800 | 446 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 8-50  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 184 | 65 | 800 | 500 | 2" | 2" |
| VARIO1-20 MULTINOX VE+ 8-70  | 580 | 70 | 530 | 670 | 90 | 485 | 420 | 450 | 635 | 238 | 65 | 800 | 554 | 2" | 2" |

# VARIO 1-20 PVM 1-3

## BOOSTER SETS - VARIABLE SPEED

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

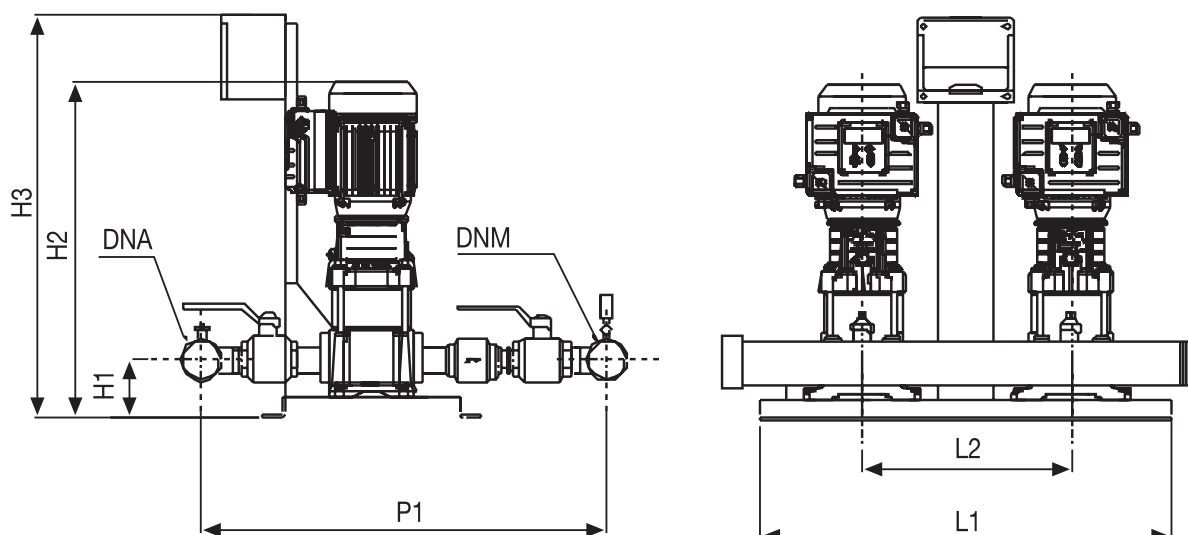
| Type                 | Flow rate $Q$ [ $\text{m}^3/\text{h}$ ] | 0     | 1.2   | 2.4   | 3.6   | 4.8   | 6     | 7.2  | 8.4  | 9    |
|----------------------|-----------------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|
| VARIO1-20 PVM 1-5 F  | Delivery head $H$ [m]                   | 30.4  | 29.4  | 27.7  | 22.8  | 16.5  |       |      |      |      |
| VARIO1-20 PVM 1-8 F  |                                         | 48.8  | 47.6  | 44.5  | 36.6  | 25.5  |       |      |      |      |
| VARIO1-20 PVM 1-11 F |                                         | 67.2  | 65.7  | 61.4  | 50.3  | 34.5  |       |      |      |      |
| VARIO1-20 PVM 1-15 F |                                         | 91.6  | 89.9  | 83.8  | 68.6  | 46.6  |       |      |      |      |
| VARIO1-20 PVM 1-19 F |                                         | 110.0 | 108.0 | 100.7 | 82.4  | 55.6  |       |      |      |      |
| VARIO1-20 PVM 1-23 F |                                         | 134.5 | 132.2 | 123.1 | 100.7 | 67.7  |       |      |      |      |
| VARIO1-20 PVM 1-27 F |                                         | 159.0 | 156.4 | 145.6 | 119.0 | 79.7  |       |      |      |      |
| VARIO1-20 PVM 3-5 F  |                                         | 31.9  | 31.1  | 30.0  | 28.3  | 26.2  | 22.6  | 18.0 | 13.3 | 10.0 |
| VARIO1-20 PVM 3-8 F  |                                         | 51.9  | 50.5  | 48.9  | 46.2  | 42.9  | 37.3  | 30.1 | 22.7 | 17.8 |
| VARIO1-20 PVM 3-11 F |                                         | 71.8  | 70.0  | 67.9  | 64.1  | 59.6  | 52.1  | 42.1 | 32.1 | 25.7 |
| VARIO1-20 PVM 3-15 F |                                         | 98.4  | 96.0  | 93.2  | 88.0  | 81.9  | 71.7  | 58.2 | 44.7 | 36.1 |
| VARIO1-20 PVM 3-19 F |                                         | 125.0 | 121.9 | 118.4 | 111.9 | 104.2 | 91.3  | 74.3 | 57.2 | 46.5 |
| VARIO1-20 PVM 3-25 F |                                         | 164.9 | 160.8 | 156.3 | 147.8 | 137.6 | 120.8 | 98.4 | 76.0 | 62.1 |

### VARIO 1-20 PVM 1-3

| Type                 | Code No. | Motor rating 2xP2 | Current 2xl | Type of enclosure | Temperature of the liquid max. | Weight |
|----------------------|----------|-------------------|-------------|-------------------|--------------------------------|--------|
| VARIO1-20 PVM 1-5 F  | UI601400 | 0.37 kW           | 3.4 A       | IP 55             | 120 °C                         | 60 kg  |
| VARIO1-20 PVM 1-8 F  | UI601410 | 0.55 kW           | 4.1 A       | IP 55             | 120 °C                         | 62 kg  |
| VARIO1-20 PVM 1-11 F | UI601420 | 0.55 kW           | 4.8 A       | IP 55             | 120 °C                         | 67 kg  |
| VARIO1-20 PVM 1-15 F | UI601430 | 0.75 kW           | 5.8 A       | IP 55             | 120 °C                         | 73 kg  |
| VARIO1-20 PVM 1-19 F | UI601440 | 1.10 kW           | 7.4 A       | IP 55             | 120 °C                         | 80 kg  |
| VARIO1-20 PVM 1-23 F | UI601450 | 1.10 kW           | 8.3 A       | IP 55             | 120 °C                         | 90 kg  |
| VARIO1-20 PVM 1-27 F | UI601460 | 1.50 kW           | 9.9 A       | IP 55             | 120 °C                         | 94 kg  |
| VARIO1-20 PVM 3-5 F  | UI601470 | 0.37 kW           | 3.0 A       | IP 55             | 120 °C                         | 62 kg  |
| VARIO1-20 PVM 3-8 F  | UI601480 | 0.75 kW           | 4.8 A       | IP 55             | 120 °C                         | 65 kg  |
| VARIO1-20 PVM 3-11 F | UI601490 | 1.10 kW           | 6.6 A       | IP 55             | 120 °C                         | 73 kg  |
| VARIO1-20 PVM 3-15 F | UI601500 | 1.10 kW           | 9.0 A       | IP 55             | 120 °C                         | 75 kg  |
| VARIO1-20 PVM 3-19 F | UI601510 | 1.50 kW           | 11.0 A      | IP 55             | 120 °C                         | 80 kg  |
| VARIO1-20 PVM 3-25 F | UI601520 | 2.20 kW           | 15.0 A      | IP 55             | 120 °C                         | 90 kg  |

# VARIO 1-20 PVM 1-3

## BOOSTER SETS - VARIABLE SPEED



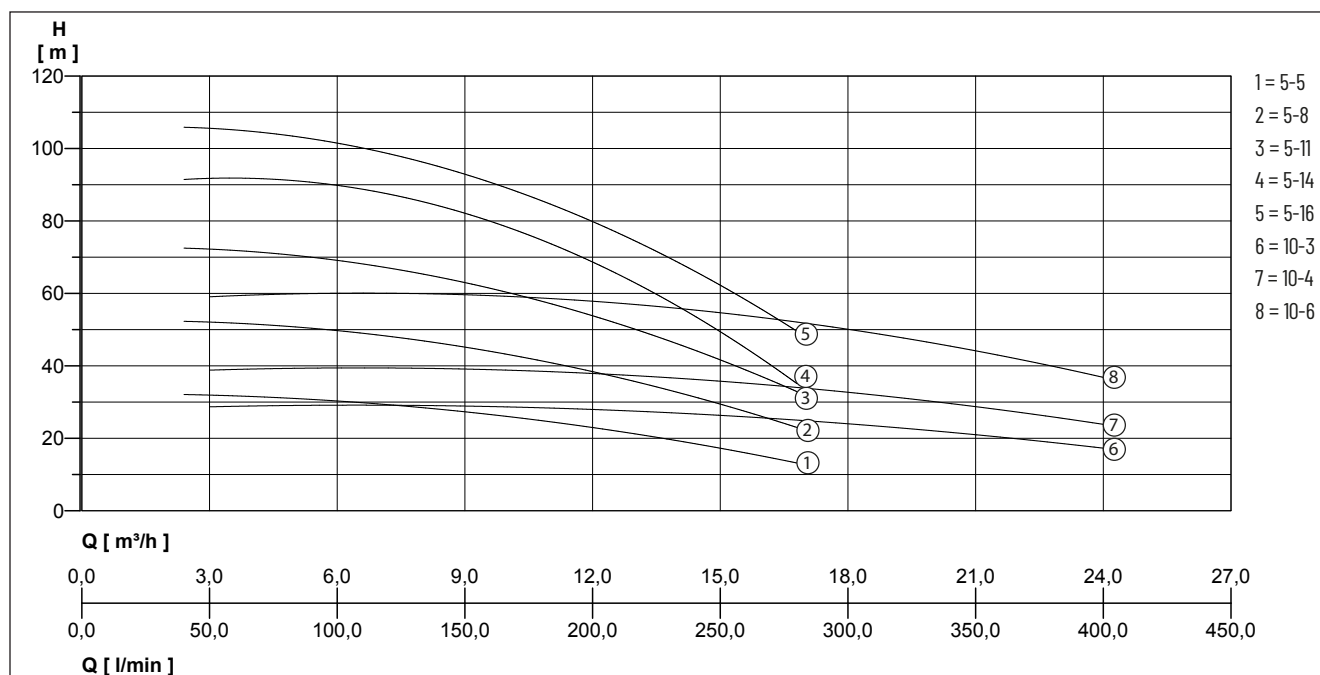
### DIMENSIONS [mm]

| Type                 | L1  | L2  | P1  | H1  | H2   | H3  | DNA | DNM |
|----------------------|-----|-----|-----|-----|------|-----|-----|-----|
| VARIO1-20 PVM 1-5 F  | 600 | 370 | 620 | 105 | 580  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 1-8 F  | 600 | 370 | 620 | 105 | 594  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 1-11 F | 600 | 370 | 620 | 105 | 648  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 1-15 F | 600 | 370 | 620 | 105 | 766  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 1-19 F | 600 | 370 | 620 | 105 | 838  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 1-23 F | 600 | 370 | 620 | 105 | 910  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 1-27 F | 600 | 370 | 620 | 105 | 1030 | 800 | 2"  | 2"  |
| VARIO1-20 PVM 3-5 F  | 600 | 370 | 620 | 105 | 540  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 3-8 F  | 600 | 370 | 620 | 105 | 640  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 3-11 F | 600 | 370 | 620 | 105 | 694  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 3-15 F | 600 | 370 | 620 | 105 | 766  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 3-19 F | 600 | 370 | 620 | 105 | 886  | 800 | 2"  | 2"  |
| VARIO1-20 PVM 3-25 F | 600 | 370 | 620 | 105 | 994  | 800 | 2"  | 2"  |

# VARIO 1-20 PVM 5-10

## BOOSTER SETS - VARIABLE SPEED

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

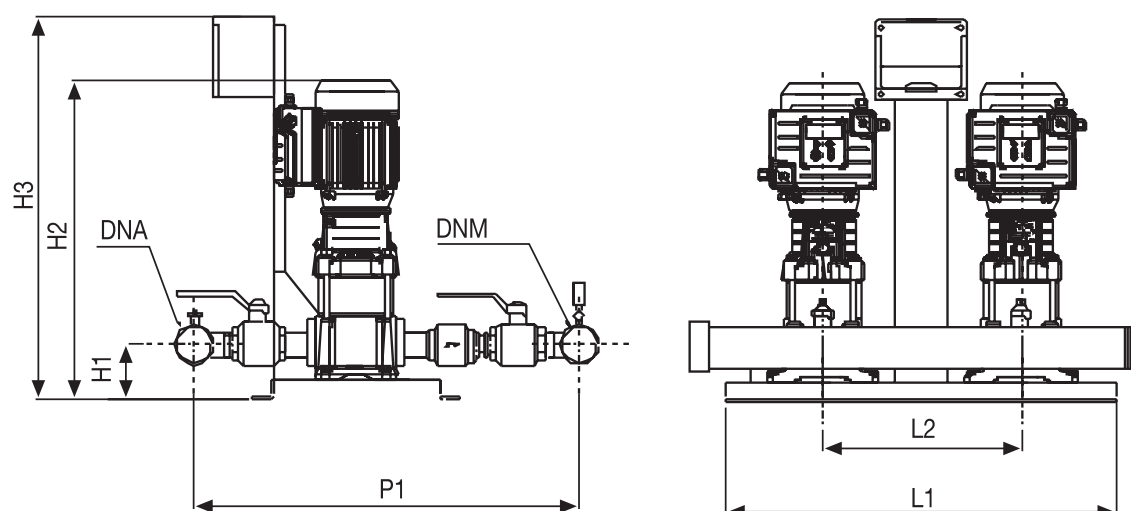
| Type                 | Flow rate Q [m³/h]  | 0     | 3    | 4.8   | 6    | 7.2  | 9    | 9.6  | 12   | 14.4 | 15   | 16.8 | 18   | 21   | 24   |
|----------------------|---------------------|-------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
| VARIO1-20 PVM 5-5 F  | Delivery head H [m] | 32.3  |      | 31.1  |      | 29.4 |      | 26.8 | 22.9 | 18.0 |      | 13.5 |      |      |      |
| VARIO1-20 PVM 5-8 F  |                     | 52.9  |      | 51.1  |      | 48.5 |      | 44.3 | 38.2 | 30.5 |      | 23.6 |      |      |      |
| VARIO1-20 PVM 5-11 F |                     | 73.5  |      | 71.1  |      | 67.5 |      | 61.8 | 53.5 | 43.0 |      | 33.8 |      |      |      |
| VARIO1-20 PVM 5-14 F |                     | 94.1  |      | 91.1  |      | 86.6 |      | 79.4 | 68.9 | 55.8 |      | 43.9 |      |      |      |
| VARIO1-20 PVM 5-16 F |                     | 107.8 |      | 104.5 |      | 99.3 |      | 91.0 | 79.1 | 64.7 |      | 50.7 |      |      |      |
| VARIO1-20 PVM 10-3 F |                     | 28.6  | 28.9 |       | 29.0 |      | 28.7 |      | 27.8 |      | 26.4 |      | 24.4 | 21.0 | 17.1 |
| VARIO1-20 PVM 10-4 F |                     | 38.8  | 39.1 |       | 39.2 |      | 38.9 |      | 37.7 |      | 35.8 |      | 33.2 | 28.8 | 23.6 |
| VARIO1-20 PVM 10-6 F |                     | 59.2  | 59.4 |       | 59.8 |      | 59.4 |      | 57.5 |      | 54.7 |      | 50.8 | 44.2 | 36.5 |

### VARIO 1-20 PVM 5-10

| Type                 | Code No. | Motor rating 2xP2 | Current 2xl | Type of enclosure | Temperature of the liquid max. | Weight |
|----------------------|----------|-------------------|-------------|-------------------|--------------------------------|--------|
| VARIO1-20 PVM 5-5 F  | UI601530 | 0.75 kW           | 5.4 A       | IP 55             | 120 °C                         | 76 kg  |
| VARIO1-20 PVM 5-8 F  | UI601540 | 1.10 kW           | 8.7 A       | IP 55             | 120 °C                         | 80 kg  |
| VARIO1-20 PVM 5-11 F | UI601550 | 2.20 kW           | 12.0 A      | IP 55             | 120 °C                         | 92 kg  |
| VARIO1-20 PVM 5-14 F | UI601560 | 2.20 kW           | 15.2 A      | IP 55             | 120 °C                         | 98 kg  |
| VARIO1-20 PVM 5-16 F | UI601570 | 2.20 kW           | 17.4 A      | IP 55             | 120 °C                         | 100 kg |
| VARIO1-20 PVM 10-3 F | UI601580 | 1.10 kW           | 2.4 A       | IP 55             | 120 °C                         | 100 kg |
| VARIO1-20 PVM 10-4 F | UI601590 | 1.50 kW           | 3.2 A       | IP 55             | 120 °C                         | 110 kg |
| VARIO1-20 PVM 10-6 F | UI601600 | 2.20 kW           | 4.8 A       | IP 55             | 120 °C                         | 120 kg |

# VARIO 1-20 PVM 5-10

## BOOSTER SETS - VARIABLE SPEED



### DIMENSIONS [mm]

| Type                 | L1  | L2  | P1  | H1  | H2  | H3  | DNA    | DNM    |
|----------------------|-----|-----|-----|-----|-----|-----|--------|--------|
| VARIO1-20 PVM 5-5 F  | 600 | 370 | 660 | 105 | 631 | 810 | 2"     | 2"     |
| VARIO1-20 PVM 5-8 F  | 600 | 370 | 660 | 105 | 712 | 810 | 2"     | 2"     |
| VARIO1-20 PVM 5-11 F | 600 | 370 | 660 | 105 | 841 | 810 | 2"     | 2"     |
| VARIO1-20 PVM 5-14 F | 600 | 370 | 660 | 105 | 922 | 810 | 2"     | 2"     |
| VARIO1-20 PVM 5-16 F | 600 | 370 | 660 | 105 | 976 | 810 | 2"     | 2"     |
| VARIO1-20 PVM 10-3 F | 620 | 370 | 700 | 100 | 612 | 820 | 2 1/2" | 2 1/2" |
| VARIO1-20 PVM 10-4 F | 620 | 370 | 700 | 100 | 714 | 820 | 2 1/2" | 2 1/2" |
| VARIO1-20 PVM 10-6 F | 620 | 370 | 700 | 100 | 714 | 820 | 2 1/2" | 2 1/2" |

# VARIO 1-20

BOOSTER SETS - VARIABLE SPEED

## VARIO 3-20

### BOOSTER SETS - VARIABLE SPEED

- Easy to install
- Versatile operation
- Low power consumption



#### DESCRIPTION

The new series of variable speed pressurization booster set VARIO3-20 represents a reliable solution which is easy to use, for residential and industrial applications. The system involves the installation of two pumps in parallel featuring electronic control. VARIO3 is an electronic device capable of changing the frequency of a pump. Integrated directly on the motor, it allows to adjust its speed so as to supply the same pressure at all times, even when the water demand changes.

When the system pressure drops below the set threshold, the module starts the first pump of the unit to restore to set-point pressure; the speed of rotation of the pump varies according to the water demand so, a greater demand will correspond to a higher speed, until the maximum speed set has been reached, after which, if the system requires greater performance, the module will activate the second pump to keep the pressure stable. As the water demand decreases, the speed of the last pump started is reduced, until it turns off. The module will keep the first pump on until the minimum set speed has been reached, after which, if there are no further pressure drops, the pump will be stopped. VARIO3-20 features five operating modes to meet the operating needs.

#### MECHANICAL DATA

|                         |        |                |                                                           |
|-------------------------|--------|----------------|-----------------------------------------------------------|
| Operating pressure max. | 16 bar | Type of liquid | clean water without suspended solids or abrasive material |
|-------------------------|--------|----------------|-----------------------------------------------------------|

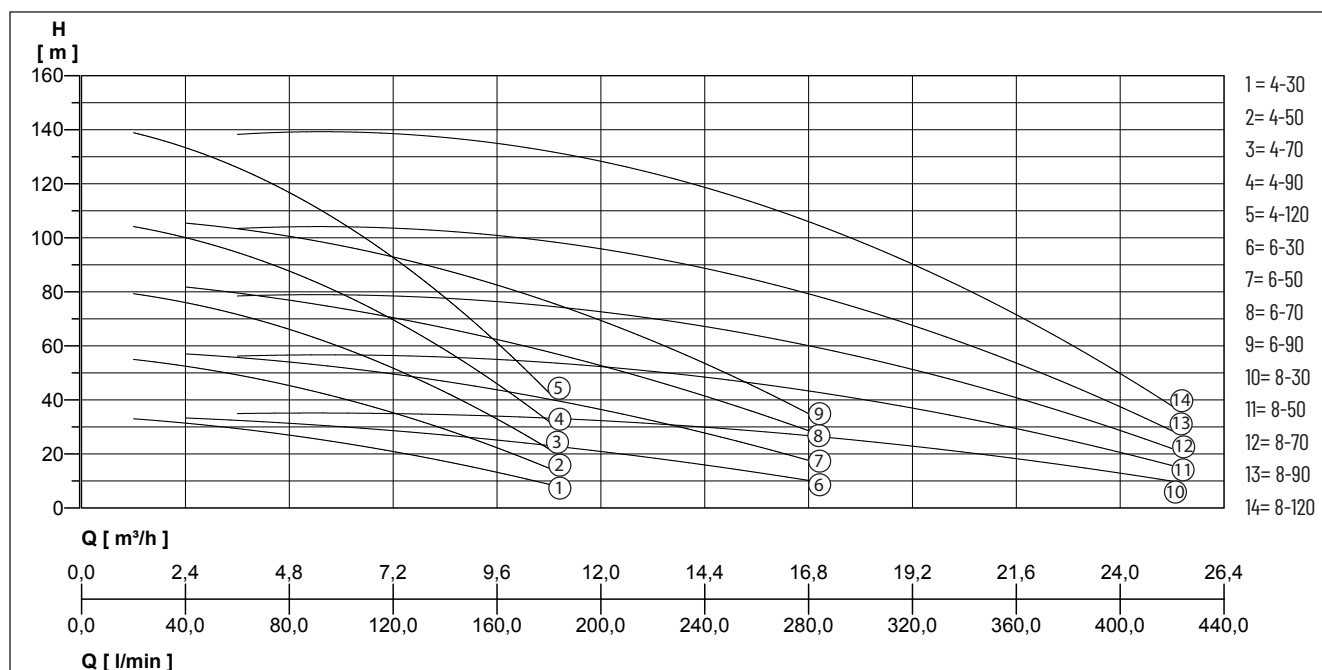
#### ELECTRICAL DATA

|                   |              |                          |       |
|-------------------|--------------|--------------------------|-------|
| Voltage           | 3/N/PE~400 V | Ambient temperature max. | 50 °C |
| Type of enclosure | IP 55        |                          |       |

# VARIO 3-20 MULTINOX VE +

BOOSTER SETS - VARIABLE SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                         | Flow rate Q [m³/h]  | 1.2 | 2.4 | 3.6 | 4.8 | 6   | 7.2 | 8.4 | 9.6 | 10.8 | 12  | 14.4 | 16.8 | 18 | 21.6 | 25.2 |
|------------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|----|------|------|
| VARIO3-20 MULTINOX VE+ 4-30  | Delivery head H [m] | 33  | 31  | 30  | 27  | 24  | 21  | 17  | 13  | 9    |     |      |      |    |      |      |
| VARIO3-20 MULTINOX VE+ 4-50  |                     | 55  | 52  | 50  | 45  | 41  | 35  | 29  | 22  | 15   |     |      |      |    |      |      |
| VARIO3-20 MULTINOX VE+ 4-70  |                     | 79  | 76  | 72  | 67  | 59  | 51  | 43  | 33  | 22   |     |      |      |    |      |      |
| VARIO3-20 MULTINOX VE+ 4-90  |                     | 104 | 100 | 95  | 88  | 79  | 69  | 59  | 46  | 32   |     |      |      |    |      |      |
| VARIO3-20 MULTINOX VE+ 4-120 |                     | 138 | 134 | 127 | 117 | 105 | 92  | 78  | 61  | 43   |     |      |      |    |      |      |
| VARIO3-20 MULTINOX VE+ 6-30  |                     |     | 34  | 32  | 31  | 30  | 28  | 27  | 26  | 23   | 21  | 16   | 10   |    |      |      |
| VARIO3-20 MULTINOX VE+ 6-50  |                     |     | 58  | 56  | 53  | 51  | 49  | 47  | 44  | 41   | 37  | 28   | 17   |    |      |      |
| VARIO3-20 MULTINOX VE+ 6-70  |                     |     | 83  | 80  | 77  | 76  | 61  | 68  | 64  | 59   | 55  | 42   | 27   |    |      |      |
| VARIO3-20 MULTINOX VE+ 6-90  |                     |     | 107 | 103 | 99  | 97  | 92  | 88  | 83  | 76   | 71  | 54   | 34   |    |      |      |
| VARIO3-20 MULTINOX VE+ 8-30  |                     |     |     | 35  | 35  | 35  | 35  | 35  | 34  | 33   | 32  | 30   | 27   | 25 | 18   | 10   |
| VARIO3-20 MULTINOX VE+ 8-50  |                     |     |     | 57  | 57  | 56  | 56  | 56  | 54  | 53   | 52  | 50   | 45   | 40 | 28   | 16   |
| VARIO3-20 MULTINOX VE+ 8-70  |                     |     |     | 80  | 79  | 78  | 78  | 77  | 75  | 74   | 73  | 70   | 60   | 56 | 40   | 22   |
| VARIO3-20 MULTINOX VE+ 8-90  |                     |     |     | 104 | 104 | 104 | 103 | 103 | 101 | 98   | 94  | 90   | 82   | 73 | 52   | 29   |
| VARIO3-20 MULTINOX VE+ 8-120 |                     |     |     | 139 | 139 | 139 | 138 | 138 | 135 | 131  | 126 | 120  | 109  | 98 | 70   | 38   |



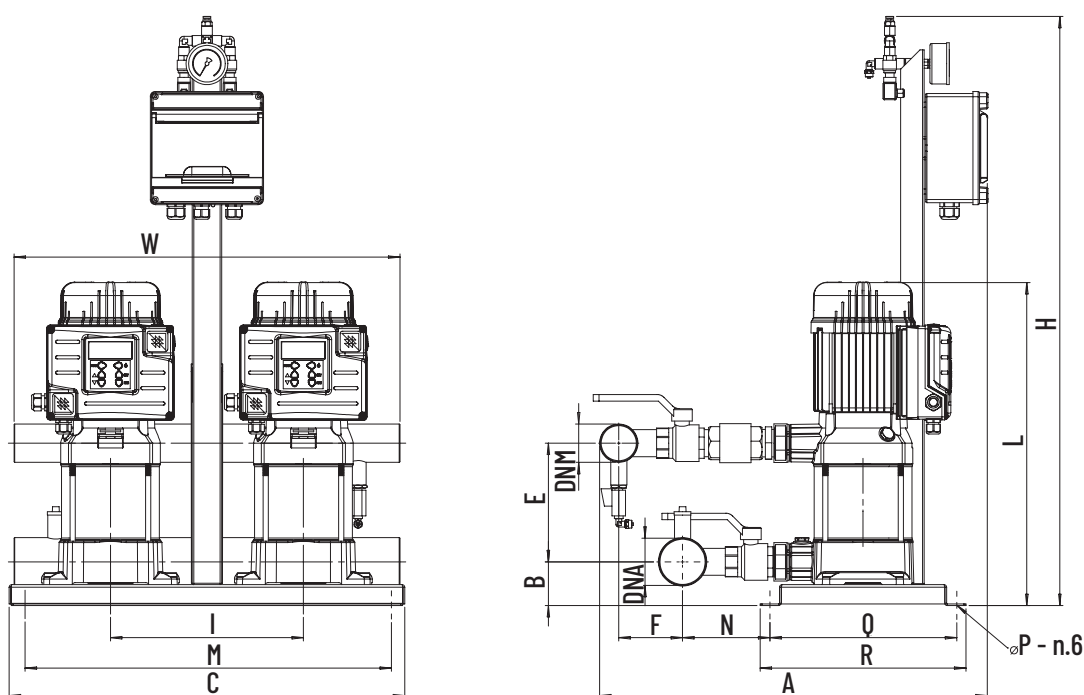
# VARIO 3-20 MULTINOX VE +

## BOOSTER SETS - VARIABLE SPEED

### VARIO 3-20 MULTINOX VE +

| Type                         | Code No. | Motor rating<br>2xP2 | Current 2xI | Temperature of the<br>liquid max. | Weight |
|------------------------------|----------|----------------------|-------------|-----------------------------------|--------|
| VARIO3-20 MULTINOX VE+ 4-30  | UI710280 | 0.7 kW               | 1.7 A       | 50 °C                             | 69 kg  |
| VARIO3-20 MULTINOX VE+ 4-50  | UI710290 | 1.3 kW               | 3.0 A       | 50 °C                             | 77 kg  |
| VARIO3-20 MULTINOX VE+ 4-70  | UI710300 | 1.3 kW               | 3.2 A       | 50 °C                             | 85 kg  |
| VARIO3-20 MULTINOX VE+ 4-90  | UI710310 | 1.5 kW               | 4.0 A       | 50 °C                             | 87 kg  |
| VARIO3-20 MULTINOX VE+ 4-120 | UI710320 | 1.5 kW               | 5.2 A       | 50 °C                             | 91 kg  |
| VARIO3-20 MULTINOX VE+ 6-30  | UI710240 | 0.7 kW               | 2.3 A       | 50 °C                             | 69 kg  |
| VARIO3-20 MULTINOX VE+ 6-50  | UI710250 | 1.3 kW               | 3.2 A       | 50 °C                             | 77 kg  |
| VARIO3-20 MULTINOX VE+ 6-70  | UI710260 | 1.5 kW               | 3.6 A       | 50 °C                             | 85 kg  |
| VARIO3-20 MULTINOX VE+ 6-90  | UI710270 | 1.5 kW               | 7.6 A       | 50 °C                             | 87 kg  |
| VARIO3-20 MULTINOX VE+ 8-30  | UI710210 | 1.3 kW               | 2.1 A       | 50 °C                             | 69 kg  |
| VARIO3-20 MULTINOX VE+ 8-50  | UI710220 | 1.5 kW               | 3.6 A       | 50 °C                             | 77 kg  |
| VARIO3-20 MULTINOX VE+ 8-70  | UI710230 | 1.5 kW               | 5.0 A       | 50 °C                             | 85 kg  |
| VARIO3-20 MULTINOX VE+ 8-90  | UI700180 | 3.0 kW               | 9.7 A       | 50 °C                             | 110 kg |
| VARIO3-20 MULTINOX VE+ 8-120 | UI700190 | 4.0 kW               | 12.3 A      | 50 °C                             | 116 kg |

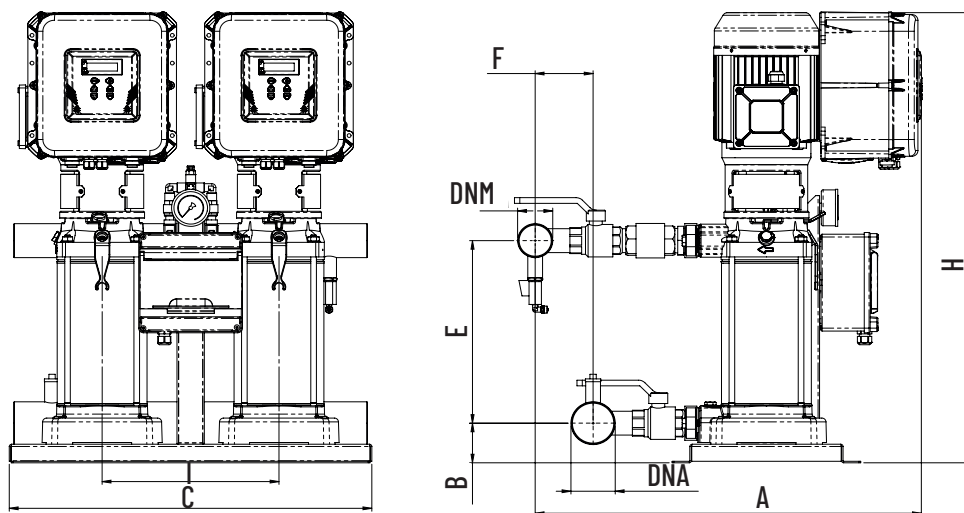
Fig. 1



# VARIO 3-20 MULTINOX VE +

## BOOSTER SETS - VARIABLE SPEED

Fig. 2



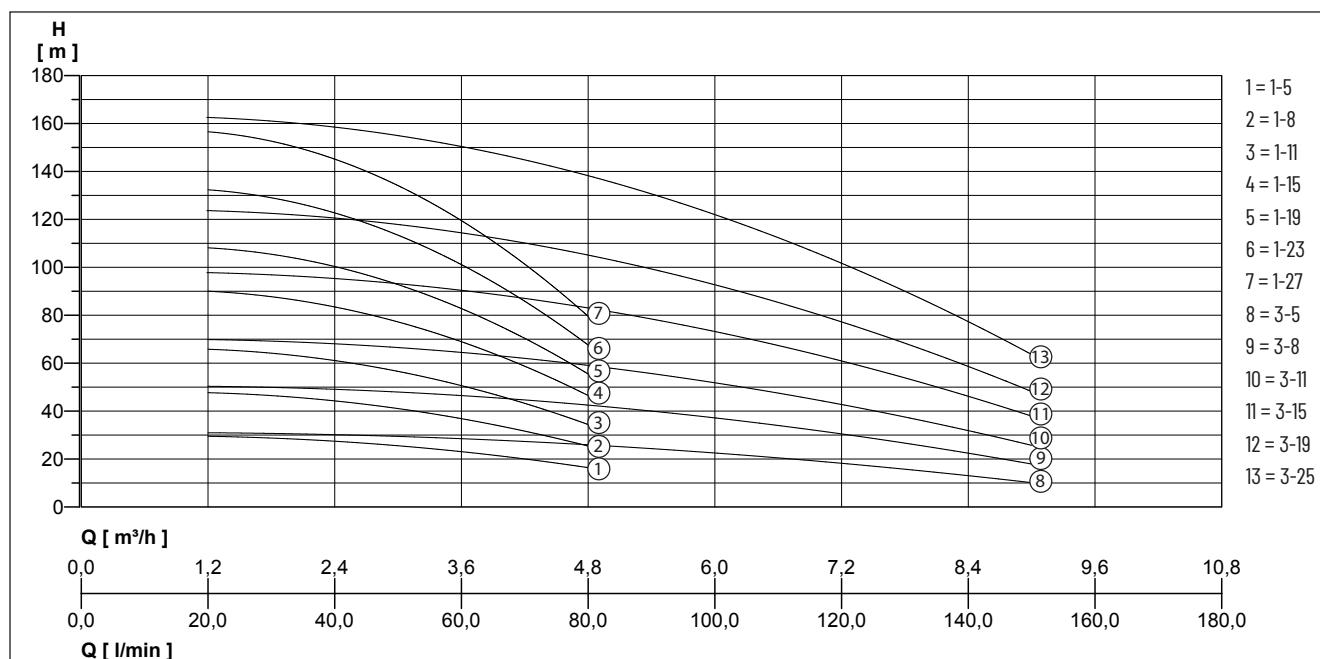
### DIMENSIONS [mm]

| Type                         | Fig. | A   | B  | C     | F  | H   | I   | L   | M     | N   | P    | Q   | R   | W   | DNA    | DNM | E   |
|------------------------------|------|-----|----|-------|----|-----|-----|-----|-------|-----|------|-----|-----|-----|--------|-----|-----|
| VARIO3-20 MULTINOX VE+ 4-30  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 449 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 130 |
| VARIO3-20 MULTINOX VE+ 4-50  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 503 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 184 |
| VARIO3-20 MULTINOX VE+ 4-70  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 557 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 238 |
| VARIO3-20 MULTINOX VE+ 4-90  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 611 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 292 |
| VARIO3-20 MULTINOX VE+ 4-120 | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 693 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 373 |
| VARIO3-20 MULTINOX VE+ 6-30  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 449 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 130 |
| VARIO3-20 MULTINOX VE+ 6-50  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 503 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 184 |
| VARIO3-20 MULTINOX VE+ 6-70  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 557 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 238 |
| VARIO3-20 MULTINOX VE+ 6-90  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 611 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 292 |
| VARIO3-20 MULTINOX VE+ 8-30  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 449 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 130 |
| VARIO3-20 MULTINOX VE+ 8-50  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 503 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 184 |
| VARIO3-20 MULTINOX VE+ 8-70  | 1    | 615 | 68 | 608,5 | 96 | 910 | 300 | 557 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 238 |
| VARIO3-20 MULTINOX VE+ 8-90  | 2    | 691 | 68 | 608,5 | 96 | 765 | 300 | 765 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 292 |
| VARIO3-20 MULTINOX VE+ 8-120 | 2    | 691 | 68 | 608,5 | 96 | 890 | 300 | 890 | 578,5 | 145 | 10,5 | 290 | 320 | 600 | 2 1/2" | 2"  | 373 |

# VARIO 3-20 PVM 1-3

## BOOSTER SETS - VARIABLE SPEED

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                 | Flow rate $Q$ [m³/h]  | 1.2   | 2.4   | 3.6   | 4.8   | 6     | 7.2  | 8.4  | 9    |
|----------------------|-----------------------|-------|-------|-------|-------|-------|------|------|------|
| VARIO3-20 PVM 1-5 F  | Delivery head $H$ [m] | 29.4  | 27.7  | 22.8  | 16.5  |       |      |      |      |
| VARIO3-20 PVM 1-8 F  |                       | 47.6  | 44.5  | 36.6  | 25.5  |       |      |      |      |
| VARIO3-20 PVM 1-11 F |                       | 65.7  | 61.4  | 50.3  | 34.5  |       |      |      |      |
| VARIO3-20 PVM 1-15 F |                       | 89.9  | 83.8  | 68.6  | 46.6  |       |      |      |      |
| VARIO3-20 PVM 1-19 F |                       | 108.0 | 100.7 | 82.4  | 55.6  |       |      |      |      |
| VARIO3-20 PVM 1-23 F |                       | 132.2 | 123.1 | 100.7 | 67.7  |       |      |      |      |
| VARIO3-20 PVM 1-27 F |                       | 156.4 | 145.6 | 119.0 | 79.7  |       |      |      |      |
| VARIO3-20 PVM 3-5 F  |                       | 31.1  | 30.0  | 28.3  | 26.2  | 22.6  | 18.0 | 13.3 | 10.0 |
| VARIO3-20 PVM 3-8 F  |                       | 50.5  | 48.9  | 46.2  | 42.9  | 37.3  | 30.1 | 22.7 | 17.8 |
| VARIO3-20 PVM 3-11 F |                       | 70.0  | 67.9  | 64.1  | 59.6  | 52.1  | 42.1 | 32.1 | 25.7 |
| VARIO3-20 PVM 3-15 F |                       | 96.0  | 93.2  | 88.0  | 81.9  | 71.7  | 58.2 | 44.7 | 36.1 |
| VARIO3-20 PVM 3-19 F |                       | 121.9 | 118.4 | 111.9 | 104.2 | 91.3  | 74.3 | 57.2 | 46.5 |
| VARIO3-20 PVM 3-25 F |                       | 160.8 | 156.3 | 147.8 | 137.6 | 120.8 | 98.4 | 76.0 | 62.1 |

### VARIO 3-20 PVM 1-3

| Type                 | Code No. | Motor rating 2xP2 | Current 2xI | Temperature of the liquid max. | Weight |
|----------------------|----------|-------------------|-------------|--------------------------------|--------|
| VARIO3-20 PVM 1-5 F  | UI710000 | 0.37 kW           | 1.50 A      | 120 °C                         | 75 kg  |
| VARIO3-20 PVM 1-8 F  | UI710010 | 0.55 kW           | 2.30 A      | 120 °C                         | 78 kg  |
| VARIO3-20 PVM 1-11 F | UI710020 | 0.55 kW           | 3.20 A      | 120 °C                         | 80 kg  |
| VARIO3-20 PVM 1-15 F | UI710030 | 0.75 kW           | 4.40 A      | 120 °C                         | 87 kg  |
| VARIO3-20 PVM 1-19 F | UI710040 | 1.10 kW           | 5.50 A      | 120 °C                         | 93 kg  |
| VARIO3-20 PVM 1-23 F | UI710050 | 1.10 kW           | 6.70 A      | 120 °C                         | 96 kg  |
| VARIO3-20 PVM 1-27 F | UI710060 | 1.50 kW           | 7.80 A      | 120 °C                         | 116 kg |
| VARIO3-20 PVM 3-5 F  | UI710070 | 0.37 kW           | 0.90 A      | 120 °C                         | 75 kg  |
| VARIO3-20 PVM 3-8 F  | UI710080 | 0.75 kW           | 1.45 A      | 120 °C                         | 82 kg  |
| VARIO3-20 PVM 3-11 F | UI710090 | 1.10 kW           | 2.00 A      | 120 °C                         | 87 kg  |
| VARIO3-20 PVM 3-15 F | UI710100 | 1.10 kW           | 2.70 A      | 120 °C                         | 90 kg  |
| VARIO3-20 PVM 3-19 F | UI710110 | 1.50 kW           | 3.40 A      | 120 °C                         | 110 kg |
| VARIO3-20 PVM 3-25 F | UI710120 | 2.20 kW           | 4.50 A      | 120 °C                         | 120 kg |

# VARIO 3-20 PVM 1-3

## BOOSTER SETS - VARIABLE SPEED

Fig. 1

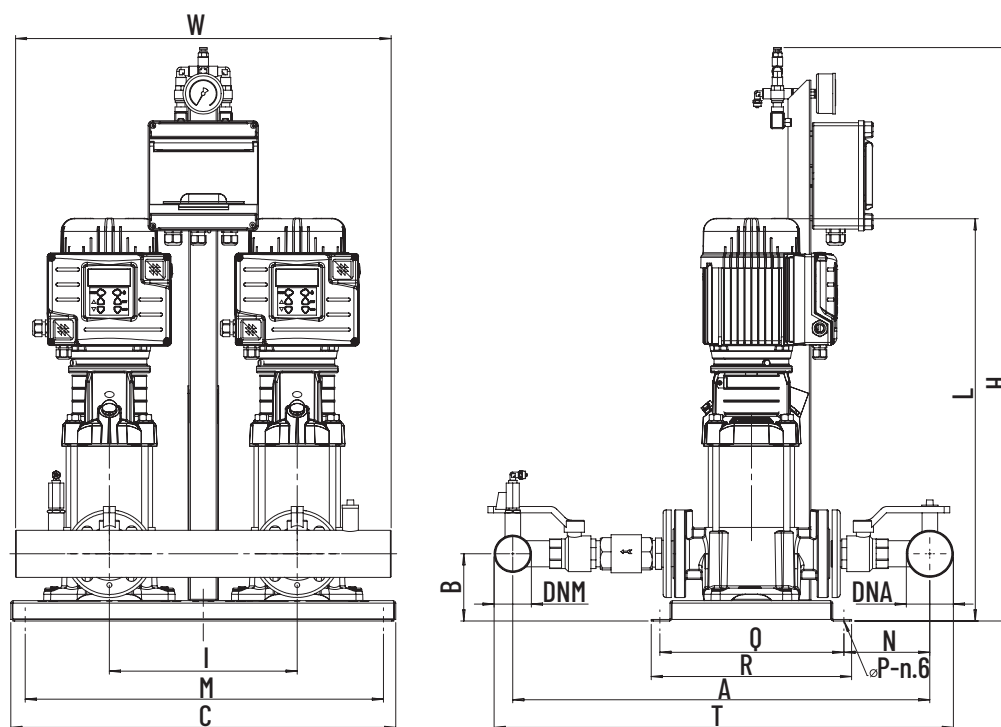
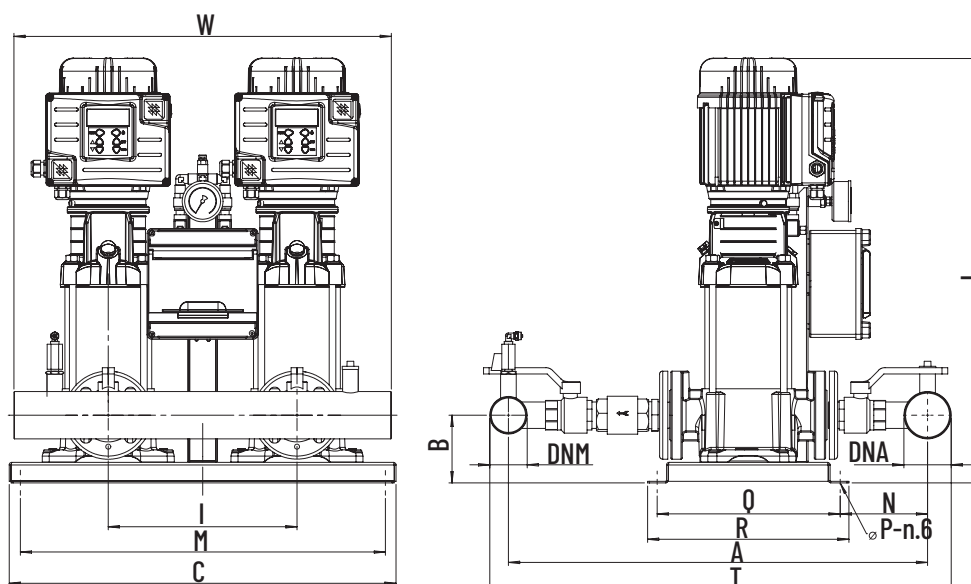


Fig. 2



# VARIO 3-20 PVM 1-3

## BOOSTER SETS - VARIABLE SPEED

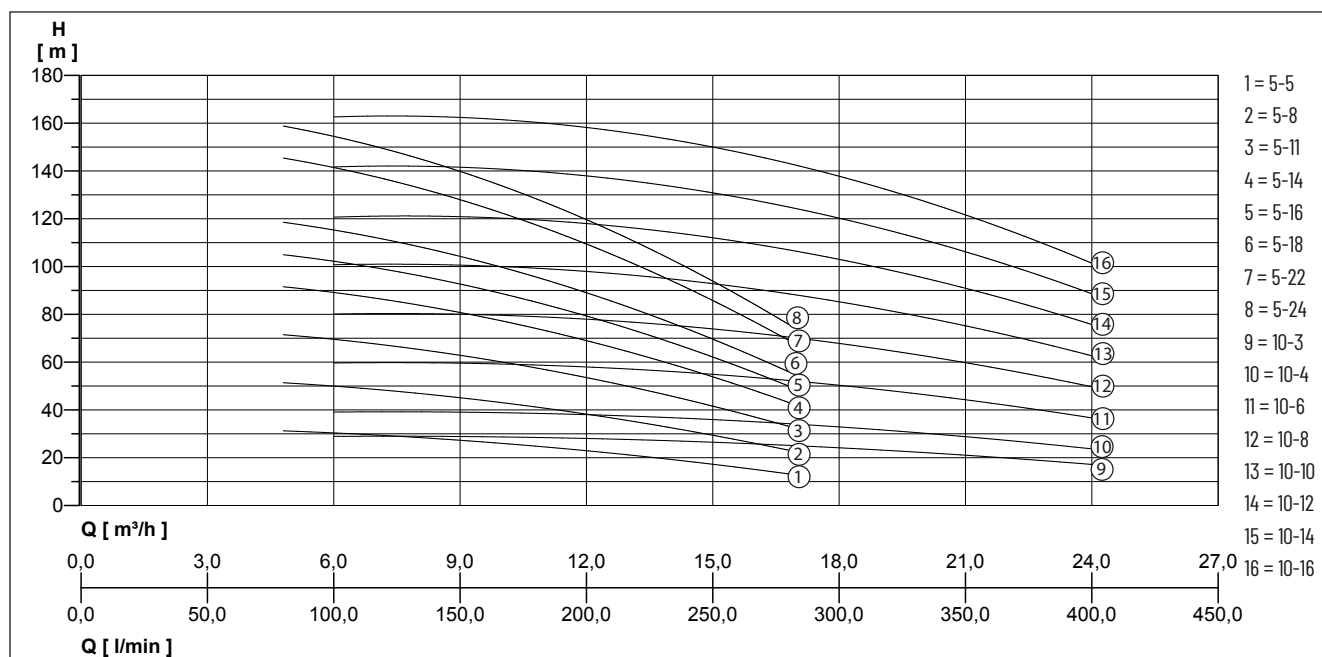
### DIMENSIONS [mm]

| Type                 | Fig. | A   | B   | C   | H   | I   | L    | M   | N   | P   | Q   | R   | T   | W   | DNA | DNM |
|----------------------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| VARIO3-20 PVM 1-5 F  | 1    | 650 | 105 | 600 | 800 | 370 | 540  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 1-8 F  | 1    | 650 | 105 | 600 | 800 | 370 | 594  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 1-11 F | 2    | 650 | 105 | 600 | 800 | 370 | 648  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 1-15 F | 2    | 650 | 105 | 600 | 800 | 370 | 766  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 1-19 F | 2    | 650 | 105 | 600 | 800 | 370 | 838  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 1-23 F | 2    | 650 | 105 | 600 | 800 | 370 | 910  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 1-27 F | 2    | 650 | 105 | 600 | 800 | 370 | 1030 | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 3-5 F  | 1    | 650 | 105 | 600 | 800 | 370 | 540  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 3-8 F  | 1    | 650 | 105 | 600 | 800 | 370 | 640  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 3-11 F | 2    | 650 | 105 | 600 | 800 | 370 | 694  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 3-15 F | 2    | 650 | 105 | 600 | 800 | 370 | 766  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 3-19 F | 2    | 650 | 105 | 600 | 800 | 370 | 886  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |
| VARIO3-20 PVM 3-25 F | 2    | 650 | 105 | 600 | 800 | 370 | 994  | 570 | 127 | 8,2 | 290 | 320 | 710 | 670 | 2"  | 2"  |

# VARIO 3-20 PVM 5-10

BOOSTER SETS - VARIABLE SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                  | Flow rate Q [m³/h]  | 4.8   | 6     | 7.2   | 9.6   | 12    | 14.4 | 16.8 | 18    | 24    |
|-----------------------|---------------------|-------|-------|-------|-------|-------|------|------|-------|-------|
| VARIO3-20 PVM 5-5 F   | Delivery head H [m] | 31.1  |       | 29.4  | 26.8  | 22.9  | 18.0 | 13.5 |       |       |
| VARIO3-20 PVM 5-8 F   |                     | 51.1  |       | 48.5  | 44.3  | 38.2  | 30.5 | 23.6 |       |       |
| VARIO3-20 PVM 5-11 F  |                     | 71.1  |       | 67.5  | 61.8  | 53.5  | 43.0 | 33.8 |       |       |
| VARIO3-20 PVM 5-14 F  |                     | 91.1  |       | 86.6  | 79.4  | 68.9  | 55.8 | 43.9 |       |       |
| VARIO3-20 PVM 5-16 F  |                     | 104.5 |       | 99.3  | 91.0  | 79.1  | 64.7 | 50.7 |       |       |
| VARIO3-20 PVM 5-18 F  |                     | 117.8 |       | 112.0 | 102.7 | 89.3  | 71.1 | 57.4 |       |       |
| VARIO3-20 PVM 5-22 F  |                     | 144.5 |       | 137.4 | 126.1 | 109.7 | 87.6 | 70.9 |       |       |
| VARIO3-20 PVM 5-24 F  |                     | 157.8 |       | 150.1 | 137.8 | 119.9 | 95.9 | 77.7 |       |       |
| VARIO3-20 PVM 10-3 F  |                     |       | 29.0  |       |       | 27.8  |      |      | 24.4  | 17.1  |
| VARIO3-20 PVM 10-4 F  |                     |       | 39.2  |       |       | 37.7  |      |      | 33.2  | 23.6  |
| VARIO3-20 PVM 10-6 F  |                     |       | 59.8  |       |       | 57.5  |      |      | 50.8  | 36.5  |
| VARIO3-20 PVM 10-8 F  |                     |       | 80.3  |       |       | 77.4  |      |      | 68.4  | 49.5  |
| VARIO3-20 PVM 10-10 F |                     |       | 101.0 |       |       | 97.2  |      |      | 86.0  | 62.4  |
| VARIO3-20 PVM 10-12 F |                     |       | 121.0 |       |       | 117.0 |      |      | 104.0 | 75.4  |
| VARIO3-20 PVM 10-14 F |                     |       | 142.0 |       |       | 137.0 |      |      | 121.2 | 88.3  |
| VARIO3-20 PVM 10-16 F |                     |       | 163.0 |       |       | 157.0 |      |      | 139.0 | 101.0 |

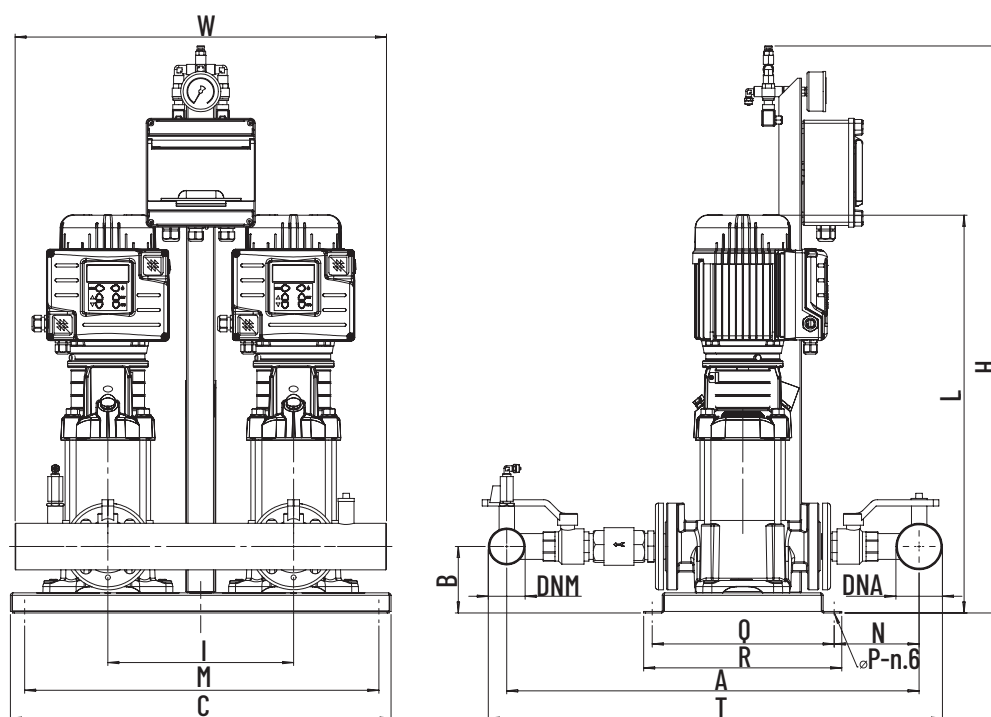
# VARIO 3-20 PVM 5-10

## BOOSTER SETS - VARIABLE SPEED

### VARIO 3-20 PVM 5-10

| Type                  | Code No. | Motor rating 2xP2 | Current 2xl | Temperature of the liquid max. | Weight |
|-----------------------|----------|-------------------|-------------|--------------------------------|--------|
| VARIO3-20 PVM 5-5 F   | UI710130 | 0.75 kW           | 1.7 A       | 120 °C                         | 83 kg  |
| VARIO3-20 PVM 5-8 F   | UI710140 | 1.10 kW           | 2.7 A       | 120 °C                         | 89 kg  |
| VARIO3-20 PVM 5-11 F  | UI710150 | 2.20 kW           | 3.7 A       | 120 °C                         | 115 kg |
| VARIO3-20 PVM 5-14 F  | UI710160 | 2.20 kW           | 4.8 A       | 120 °C                         | 118 kg |
| VARIO3-20 PVM 5-16 F  | UI710170 | 2.20 kW           | 5.4 A       | 120 °C                         | 120 kg |
| VARIO3-20 PVM 5-18 F  | UI700200 | 3.00 kW           | 6.1 A       | 120 °C                         | 142 kg |
| VARIO3-20 PVM 5-22 F  | UI700210 | 4.00 kW           | 7.5 A       | 120 °C                         | 153 kg |
| VARIO3-20 PVM 5-24 F  | UI700220 | 4.00 kW           | 8.2 A       | 120 °C                         | 155 kg |
| VARIO3-20 PVM 10-3 F  | UI710180 | 1.10 kW           | 2.4 A       | 120 °C                         | 109 kg |
| VARIO3-20 PVM 10-4 F  | UI710190 | 1.50 kW           | 3.2 A       | 120 °C                         | 129 kg |
| VARIO3-20 PVM 10-6 F  | UI710200 | 2.20 kW           | 4.8 A       | 120 °C                         | 138 kg |
| VARIO3-20 PVM 10-8 F  | UI700230 | 3.00 kW           | 6.4 A       | 120 °C                         | 135 kg |
| VARIO3-20 PVM 10-10 F | UI700240 | 4.00 kW           | 8.0 A       | 120 °C                         | 140 kg |
| VARIO3-20 PVM 10-12 F | UI700250 | 4.00 kW           | 9.6 A       | 120 °C                         | 145 kg |
| VARIO3-20 PVM 10-14 F | UI700260 | 5.50 kW           | 11.0 A      | 120 °C                         | 150 kg |
| VARIO3-20 PVM 10-16 F | UI700270 | 5.50 kW           | 13.0 A      | 120 °C                         | 155 kg |

Fig. 1



# VARIO 3-20 PVM 5-10

## BOOSTER SETS - VARIABLE SPEED

Fig. 2

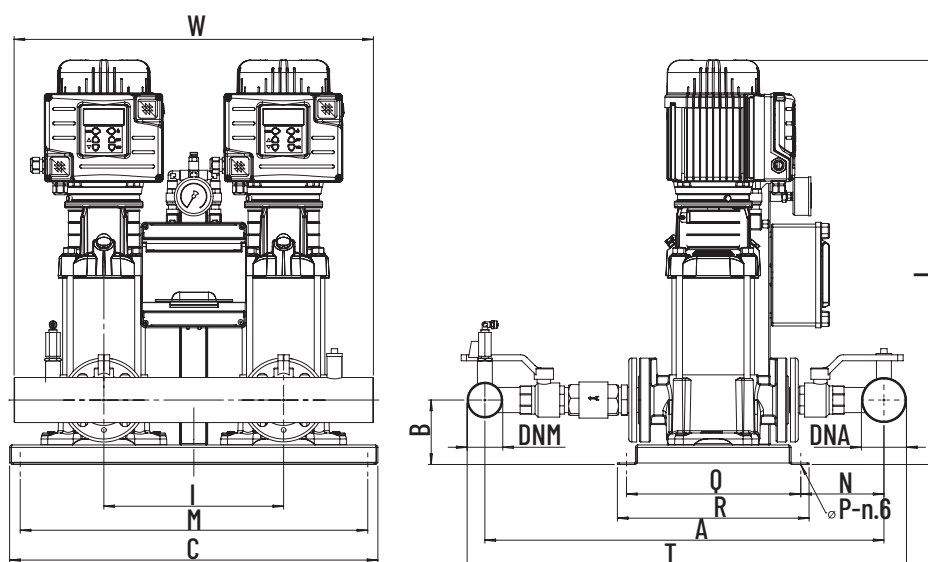
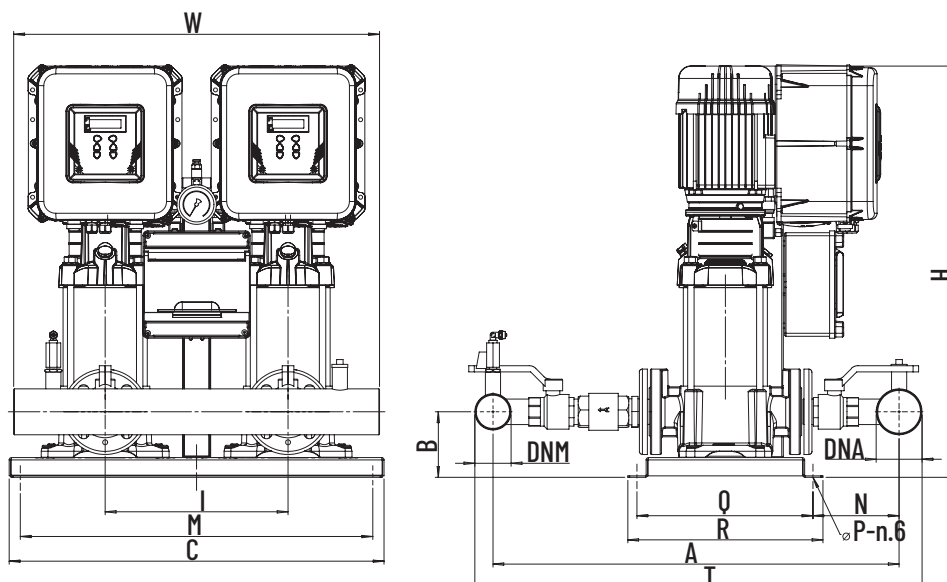


Fig. 3





# VARIO 3-20 PVM 5-10

## BOOSTER SETS - VARIABLE SPEED

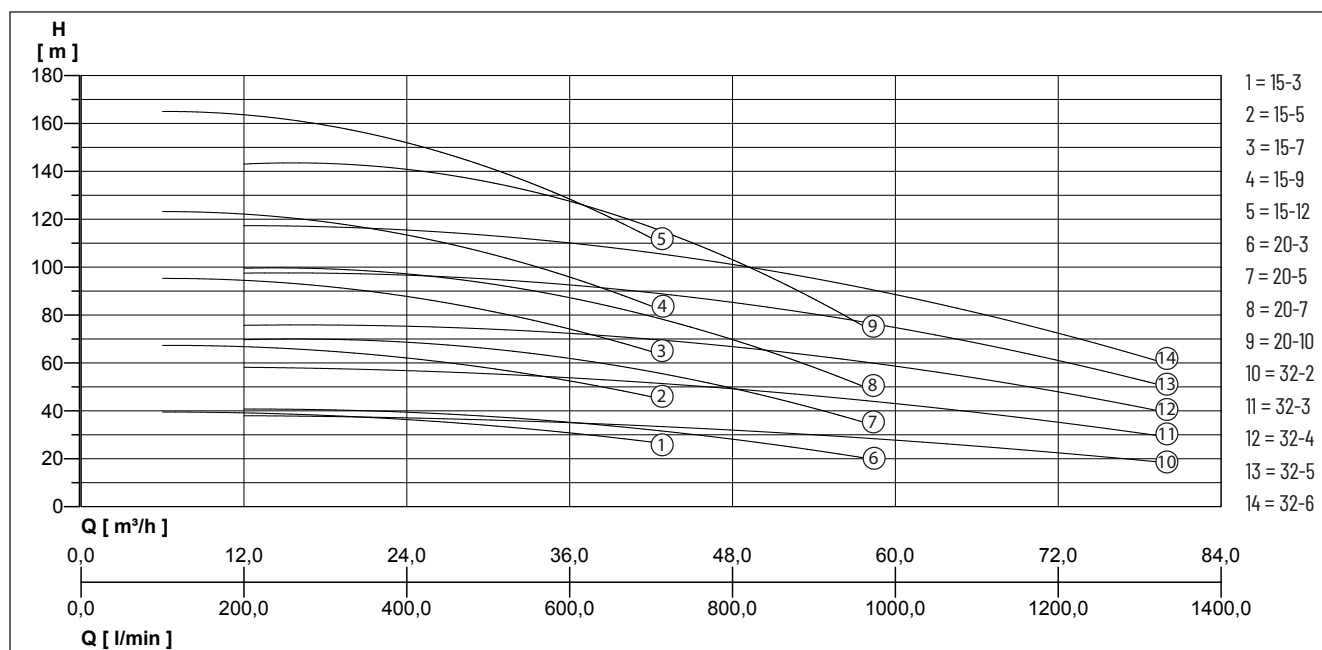
### DIMENSIONS [mm]

| Type                  | Fig. | A   | B   | C   | H    | I   | L   | M     | N   | P    | Q   | R   | T   | W   | DNA    | DNM    |
|-----------------------|------|-----|-----|-----|------|-----|-----|-------|-----|------|-----|-----|-----|-----|--------|--------|
| VARIO3-20 PVM 5-5 F   | 1    | 650 | 105 | 600 | 800  | 370 | 631 | 570   | 127 | 8,2  | 290 | 320 | 710 | 670 | 2"     | 2"     |
| VARIO3-20 PVM 5-8 F   | 2    | 650 | 105 | 600 | 800  | 370 | 712 | 570   | 127 | 8,2  | 290 | 320 | 710 | 670 | 2"     | 2"     |
| VARIO3-20 PVM 5-11 F  | 2    | 650 | 105 | 600 | 800  | 370 | 841 | 570   | 127 | 8,2  | 290 | 320 | 710 | 670 | 2"     | 2"     |
| VARIO3-20 PVM 5-14 F  | 2    | 650 | 105 | 600 | 800  | 370 | 922 | 570   | 127 | 8,2  | 290 | 320 | 710 | 670 | 2"     | 2"     |
| VARIO3-20 PVM 5-16 F  | 2    | 650 | 105 | 600 | 800  | 370 | 976 | 570   | 127 | 8,2  | 290 | 320 | 710 | 670 | 2"     | 2"     |
| VARIO3-20 PVM 5-18 F  | 3    | 690 | 108 | 615 | 1091 | 300 |     | 578,5 | 145 | 10,5 | 290 | 320 | 757 | 600 | 2"     | 2"     |
| VARIO3-20 PVM 5-22 F  | 3    | 690 | 108 | 615 | 1206 | 300 |     | 578,5 | 145 | 10,5 | 290 | 320 | 757 | 600 | 2"     | 2"     |
| VARIO3-20 PVM 5-24 F  | 3    | 690 | 108 | 615 | 1260 | 300 |     | 578,5 | 145 | 10,5 | 290 | 320 | 757 | 600 | 2"     | 2"     |
| VARIO3-20 PVM 10-3 F  | 1    | 700 | 110 | 620 | 800  | 370 | 642 | 590   | 150 | 8,2  | 290 | 320 | 775 | 670 | 2 1/2" | 2 1/2" |
| VARIO3-20 PVM 10-4 F  | 2    | 700 | 110 | 620 | 800  | 370 | 720 | 590   | 150 | 8,2  | 290 | 320 | 775 | 670 | 2 1/2" | 2 1/2" |
| VARIO3-20 PVM 10-6 F  | 2    | 700 | 110 | 620 | 800  | 370 | 780 | 590   | 150 | 8,2  | 290 | 320 | 775 | 670 | 2 1/2" | 2 1/2" |
| VARIO3-20 PVM 10-8 F  | 3    | 720 | 113 | 615 | 902  | 360 |     | 578,5 | 158 | 8,5  | 290 | 320 | 795 | 660 | 2 1/2" | 2 1/2" |
| VARIO3-20 PVM 10-10 F | 3    | 720 | 113 | 615 | 969  | 360 |     | 578,5 | 158 | 8,5  | 290 | 320 | 795 | 670 | 2 1/2" | 2 1/2" |
| VARIO3-20 PVM 10-12 F | 3    | 720 | 113 | 615 | 1029 | 360 |     | 578,5 | 158 | 8,5  | 290 | 320 | 795 | 660 | 2 1/2" | 2 1/2" |
| VARIO3-20 PVM 10-14 F | 3    | 720 | 113 | 615 | 1158 | 360 |     | 578,5 | 158 | 8,5  | 290 | 320 | 795 | 660 | 2 1/2" | 2 1/2" |
| VARIO3-20 PVM 10-16 F | 3    | 720 | 113 | 615 | 1218 | 360 |     | 578,5 | 158 | 8,5  | 290 | 320 | 795 | 660 | 2 1/2" | 2 1/2" |

# VARIO 3-20 PVM 15 / PVM 20 / PVM 32

BOOSTER SETS - VARIABLE SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                  | Flow rate Q [m³/h]  | 6     | 12    | 18    | 24    | 30    | 36    | 42    | 48    | 57.6  | 200   | 400   | 600  | 800  | 1000 | 1200 | 1320 |
|-----------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| VARIO3-20 PVM 15-3 F  | Delivery head H [m] | 39.6  | 39.2  | 37.8  | 36.3  | 34.1  | 31.0  | 26.8  |       |       |       |       |      |      |      |      |      |
| VARIO3-20 PVM 15-5 F  |                     | 67.4  | 66.9  | 64.7  | 62.0  | 58.1  | 52.7  | 45.7  |       |       |       |       |      |      |      |      |      |
| VARIO3-20 PVM 15-7 F  |                     | 95.3  | 94.7  | 91.6  | 87.7  | 82.0  | 74.4  | 64.6  |       |       |       |       |      |      |      |      |      |
| VARIO3-20 PVM 15-9 F  |                     | 123.2 | 122.4 | 118.4 | 113.4 | 106.0 | 96.0  | 83.6  |       |       |       |       |      |      |      |      |      |
| VARIO3-20 PVM 15-12 F |                     | 165.0 | 163.9 | 158.8 | 151.9 | 141.9 | 128.6 | 112.0 |       |       |       |       |      |      |      |      |      |
| VARIO3-20 PVM 20-3 F  |                     |       | 41.0  |       | 39.0  |       | 35.0  |       | 29.0  | 20.0  |       |       |      |      |      |      |      |
| VARIO3-20 PVM 20-5 F  |                     |       | 70.0  |       | 68.0  |       | 62.0  |       | 50.0  | 35.0  |       |       |      |      |      |      |      |
| VARIO3-20 PVM 20-7 F  |                     |       | 100.0 |       | 96.0  |       | 88.0  |       | 70.0  | 50.0  |       |       |      |      |      |      |      |
| VARIO3-20 PVM 20-10 F |                     |       | 144.0 |       | 139.0 |       | 127.0 |       | 106.0 | 74.0  |       |       |      |      |      |      |      |
| VARIO3-20 PVM 32-2 F  |                     |       |       |       |       |       |       |       | 38.0  | 37.0  | 35.0  | 32.0  | 28.0 | 22.0 | 19.0 |      |      |
| VARIO3-20 PVM 32-4 F  |                     |       |       |       |       |       |       |       | 76.0  | 75.0  | 72.0  | 67.0  | 59.0 | 48.0 | 40.0 |      |      |
| VARIO3-20 PVM 32-5 F  |                     |       |       |       |       |       |       |       | 98.0  | 96.0  | 92.0  | 86.0  | 75.0 | 61.0 | 51.0 |      |      |
| VARIO3-20 PVM 32-3 F  |                     |       |       |       |       |       |       |       | 58.0  | 57.0  | 54.0  | 49.0  | 43.0 | 35.0 | 30.0 |      |      |
| VARIO3-20 PVM 32-6 F  |                     |       |       |       |       |       |       |       | 118.0 | 115.0 | 109.0 | 101.0 | 90.0 | 73.0 | 60.0 |      |      |

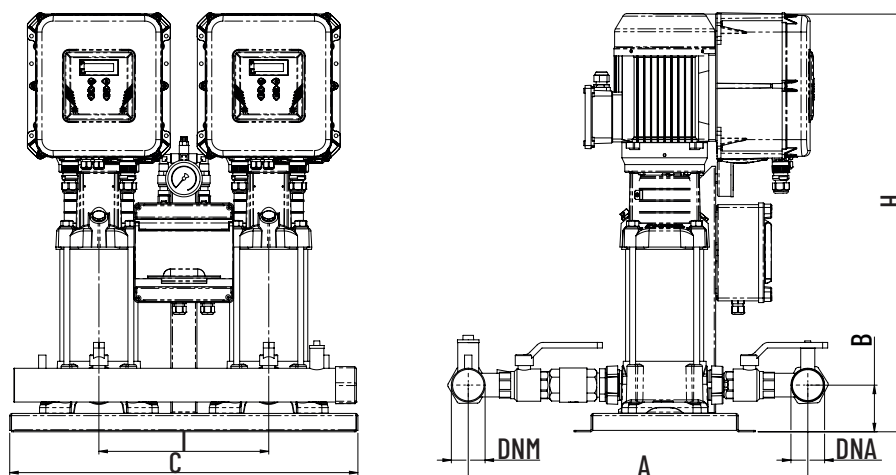
# VARIO 3-20 PVM 15 / PVM 20 / PVM 32

BOOSTER SETS - VARIABLE SPEED

## VARIO 3-20 PVM 15 / PVM 20 / PVM 32

| Type                  | Code No. | Motor rating 2xP2 | Current 2xl | Temperature of the liquid max. | Weight |
|-----------------------|----------|-------------------|-------------|--------------------------------|--------|
| VARIO3-20 PVM 15-3 F  | UI700280 | 3.0 kW            | 5.1 A       | 120 °C                         | 140 kg |
| VARIO3-20 PVM 15-5 F  | UI700290 | 4.0 kW            | 8.5 A       | 120 °C                         | 160 kg |
| VARIO3-20 PVM 15-7 F  | UI700300 | 5.5 kW            | 12.0 A      | 120 °C                         | 210 kg |
| VARIO3-20 PVM 15-9 F  | UI700310 | 7.5 kW            | 15.0 A      | 120 °C                         | 226 kg |
| VARIO3-20 PVM 15-12 F | UI700320 | 11.0 kW           | 20.0 A      | 120 °C                         | 250 kg |
| VARIO3-20 PVM 20-3 F  | UI700330 | 4.0 kW            | 8.5 A       | 120 °C                         | 140 kg |
| VARIO3-20 PVM 20-5 F  | UI700340 | 5.5 kW            | 11.9 A      | 120 °C                         | 160 kg |
| VARIO3-20 PVM 20-7 F  | UI700350 | 7.5 kW            | 15.3 A      | 120 °C                         | 180 kg |
| VARIO3-20 PVM 20-10 F | UI700360 | 11.0 kW           | 20.4 A      | 120 °C                         | 210 kg |
| VARIO3-20 PVM 32-2 F  | UI700370 | 4.0 kW            | 7.1 A       | 120 °C                         | 300 kg |
| VARIO3-20 PVM 32-4 F  | UI700390 | 7.5 kW            | 14.3 A      | 120 °C                         | 360 kg |
| VARIO3-20 PVM 32-5 F  | UI700400 | 11.0 kW           | 17.8 A      | 120 °C                         | 380 kg |
| VARIO3-20 PVM 32-3 F  | UI700380 | 5.5 kW            | 10.7 A      | 120 °C                         | 320 kg |
| VARIO3-20 PVM 32-6 F  | UI700410 | 11.0 kW           | 21.4 A      | 120 °C                         | 420 kg |

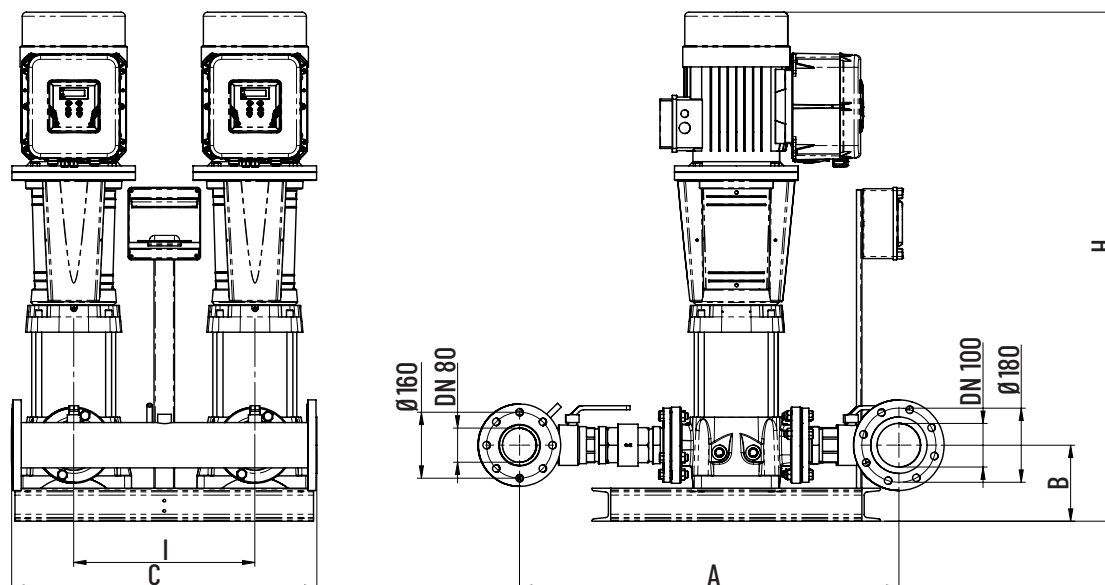
Fig.1



# VARIO 3-20 PVM 15 / PVM 20 / PVM 32

BOOSTER SETS - VARIABLE SPEED

Fig.2



## DIMENSIONS [mm]

| Type                  | Fig. | A   | B   | C   | H    | I   | DNA | DNM |
|-----------------------|------|-----|-----|-----|------|-----|-----|-----|
| VARIO3-20 PVM 15-3 F  | 1    | 850 | 125 | 710 | 816  | 360 | 3"  | 3"  |
| VARIO3-20 PVM 15-5 F  | 1    | 850 | 125 | 710 | 913  | 360 | 3"  | 3"  |
| VARIO3-20 PVM 15-7 F  | 1    | 850 | 125 | 710 | 1072 | 360 | 3"  | 3"  |
| VARIO3-20 PVM 15-9 F  | 1    | 850 | 125 | 710 | 1182 | 360 | 3"  | 3"  |
| VARIO3-20 PVM 15-12 F | 1    | 850 | 125 | 710 | 1507 | 360 | 3"  | 3"  |
| VARIO3-20 PVM 20-3 F  | 1    | 850 | 125 | 710 | 690  | 360 | 3"  | 3"  |
| VARIO3-20 PVM 20-5 F  | 1    | 850 | 125 | 710 | 845  | 360 | 3"  | 3"  |
| VARIO3-20 PVM 20-7 F  | 1    | 850 | 125 | 710 | 992  | 360 | 3"  | 3"  |
| VARIO3-20 PVM 20-10 F | 1    | 850 | 125 | 710 | 1122 | 360 | 3"  | 3"  |
| VARIO3-20 PVM 32-2 F  | 1    | 950 | 185 | 750 | 982  | 440 | 4"  | 3"  |
| VARIO3-20 PVM 32-4 F  | 2    | 950 | 185 | 750 | 1179 | 440 | 4"  | 3"  |
| VARIO3-20 PVM 32-5 F  | 2    | 950 | 185 | 750 | 1472 | 440 | 4"  | 3"  |
| VARIO3-20 PVM 32-3 F  | 2    | 950 | 185 | 750 | 1089 | 440 | 4"  | 3"  |
| VARIO3-20 PVM 32-6 F  | 2    | 950 | 185 | 750 | 1542 | 440 | 4"  | 3"  |

## VARIO 3-30

### BOOSTER SETS - VARIABLE SPEED

- Easy to install
- Versatile operation
- Low power consumption



#### DESCRIPTION

The new series of variable speed pressurization booster set VARIO 3-30 represents a reliable solution which is easy to use, for residential and industrial applications. The system involves the installation of three pumps in parallel featuring electronic control. VARIO3 is an electronic device capable of changing the frequency of a pump. Integrated directly on the motor, it allows to adjust its speed so as to supply the same pressure at all times, even when the water demand changes.

When the system pressure drops below the set threshold, the module starts the first pump of the unit to restore to set-point pressure; the speed of rotation of the pump varies according to the water demand so, a greater demand will correspond to a higher speed, until the maximum speed set has been reached, after which, if the system requires greater performance, the module will activate the second and then the third pump to keep the pressure stable. As the water demand decreases, the speed of the last pump started is reduced, until it turns off. The module will keep the first pump on until the minimum set speed has been reached, after which, if there are no further requests for water, the pump will be stopped. VARIO3-30 features five operating modes to meet the operating needs.

#### MECHANICAL DATA

|                         |        |                |                                                           |
|-------------------------|--------|----------------|-----------------------------------------------------------|
| Operating pressure max. | 16 bar | Type of liquid | clean water without suspended solids or abrasive material |
|-------------------------|--------|----------------|-----------------------------------------------------------|

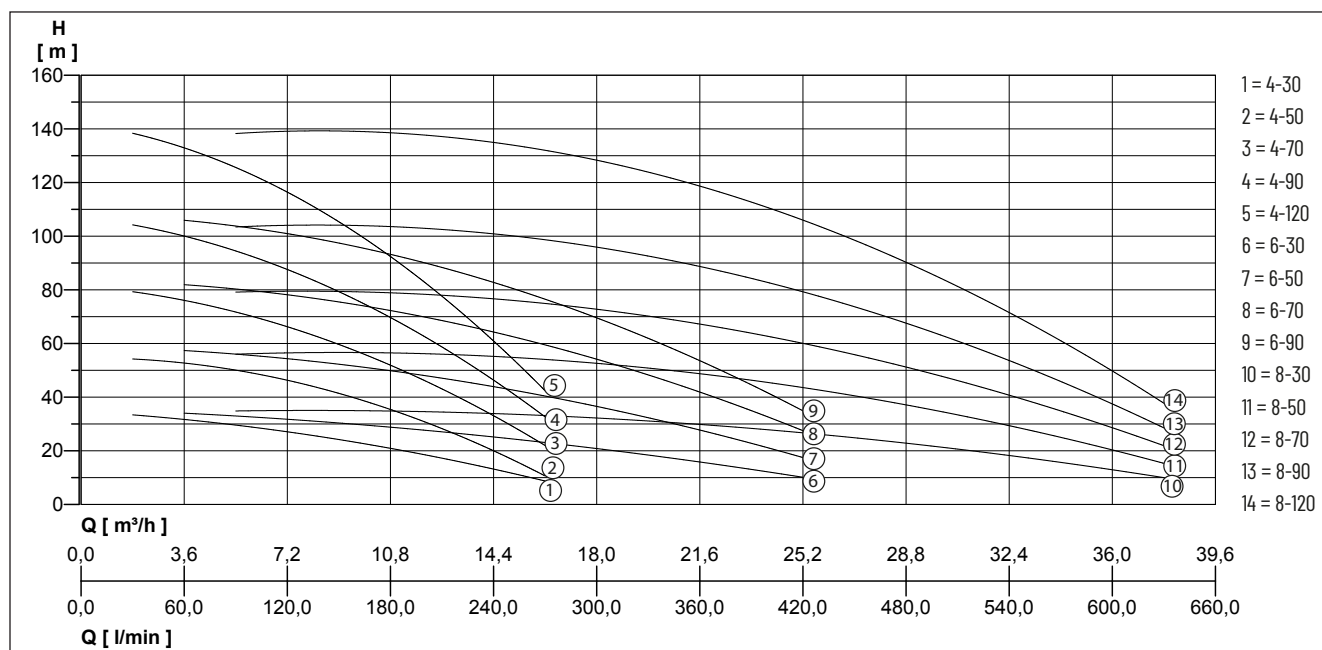
#### ELECTRICAL DATA

|                   |              |                          |       |
|-------------------|--------------|--------------------------|-------|
| Voltage           | 3/N/PE~400 V | Ambient temperature max. | 50 °C |
| Type of enclosure | IP 55        |                          |       |

# VARIO 3-30 MULTINOX VE +

BOOSTER SETS - VARIABLE SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                         | Flow rate Q<br>[m³/h] | 1.8 | 3.6 | 5.4 | 7.2 | 9   | 10.8 | 12.6 | 14.4 | 16.2 | 18  | 21.6 | 25.2 | 27 | 32.4 | 37.8 |
|------------------------------|-----------------------|-----|-----|-----|-----|-----|------|------|------|------|-----|------|------|----|------|------|
| VARIO3-30 MULTINOX VE+ 4-30  | Delivery head H [m]   | 33  | 32  | 30  | 27  | 24  | 21   | 17   | 13   | 9    |     |      |      |    |      |      |
| VARIO3-30 MULTINOX VE+ 4-50  |                       | 55  | 52  | 50  | 46  | 41  | 35   | 29   | 22   | 15   |     |      |      |    |      |      |
| VARIO3-30 MULTINOX VE+ 4-70  |                       | 79  | 76  | 72  | 67  | 60  | 51   | 42   | 34   | 22   |     |      |      |    |      |      |
| VARIO3-30 MULTINOX VE+ 4-90  |                       | 104 | 100 | 95  | 88  | 79  | 69   | 58   | 48   | 32   |     |      |      |    |      |      |
| VARIO3-30 MULTINOX VE+ 4-120 |                       | 138 | 133 | 126 | 117 | 105 | 92   | 78   | 60   | 43   |     |      |      |    |      |      |
| VARIO3-30 MULTINOX VE+ 6-30  |                       |     | 34  | 33  | 32  | 30  | 29   | 27   | 25   | 23   | 21  | 16   | 10   |    |      |      |
| VARIO3-30 MULTINOX VE+ 6-50  |                       |     | 58  | 56  | 54  | 52  | 49   | 47   | 44   | 41   | 37  | 28   | 17   |    |      |      |
| VARIO3-30 MULTINOX VE+ 6-70  |                       |     | 83  | 80  | 77  | 76  | 71   | 69   | 64   | 60   | 55  | 42   | 27   |    |      |      |
| VARIO3-30 MULTINOX VE+ 6-90  |                       |     | 107 | 104 | 100 | 97  | 92   | 88   | 83   | 77   | 71  | 54   | 34   |    |      |      |
| VARIO3-30 MULTINOX VE+ 8-30  |                       |     |     | 35  | 35  | 35  | 35   | 34   | 34   | 33   | 32  | 30   | 27   | 25 | 18   | 10   |
| VARIO3-30 MULTINOX VE+ 8-50  |                       |     |     | 57  | 56  | 56  | 56   | 56   | 55   | 54   | 53  | 50   | 44   | 40 | 28   | 16   |
| VARIO3-30 MULTINOX VE+ 8-70  |                       |     |     | 80  | 80  | 79  | 78   | 77   | 76   | 75   | 73  | 69   | 60   | 56 | 40   | 22   |
| VARIO3-30 MULTINOX VE+ 8-90  |                       |     |     | 104 | 104 | 104 | 103  | 103  | 101  | 98   | 94  | 90   | 82   | 73 | 52   | 29   |
| VARIO3-30 MULTINOX VE+ 8-120 |                       |     |     | 139 | 139 | 139 | 138  | 138  | 135  | 131  | 126 | 120  | 109  | 98 | 70   | 38   |

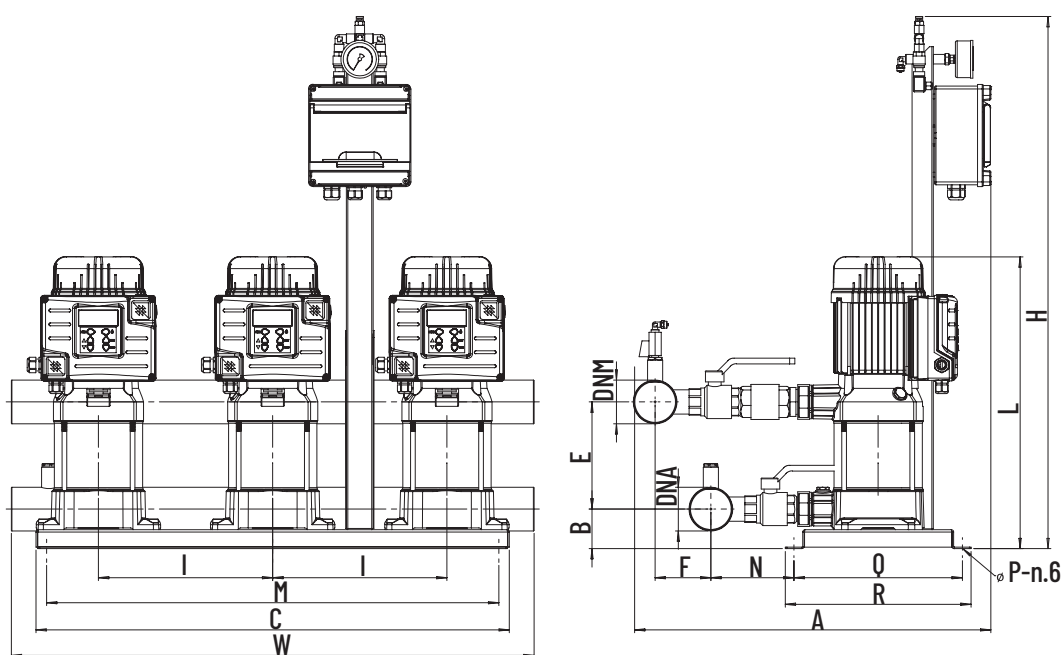
# VARIO 3-30 MULTINOX VE +

## BOOSTER SETS - VARIABLE SPEED

### VARIO 3-30 MULTINOX VE +

| Type                         | Code No. | Motor rating<br>3xP2 | Current 3xI | Temperature of the<br>liquid max. | Weight |
|------------------------------|----------|----------------------|-------------|-----------------------------------|--------|
| VARIO3-30 MULTINOX VE+ 4-30  | UI810280 | 0.7 kW               | 1.7 A       | 50 °C                             | 116 kg |
| VARIO3-30 MULTINOX VE+ 4-50  | UI810290 | 1.3 kW               | 3.0 A       | 50 °C                             | 129 kg |
| VARIO3-30 MULTINOX VE+ 4-70  | UI810300 | 1.3 kW               | 3.2 A       | 50 °C                             | 141 kg |
| VARIO3-30 MULTINOX VE+ 4-90  | UI810310 | 1.5 kW               | 4.0 A       | 50 °C                             | 144 kg |
| VARIO3-30 MULTINOX VE+ 4-120 | UI810320 | 1.5 kW               | 5.2 A       | 50 °C                             | 150 kg |
| VARIO3-30 MULTINOX VE+ 6-30  | UI810240 | 0.7 kW               | 2.3 A       | 50 °C                             | 117 kg |
| VARIO3-30 MULTINOX VE+ 6-50  | UI810250 | 1.3 kW               | 3.2 A       | 50 °C                             | 129 kg |
| VARIO3-30 MULTINOX VE+ 6-70  | UI810260 | 1.5 kW               | 3.6 A       | 50 °C                             | 141 kg |
| VARIO3-30 MULTINOX VE+ 6-90  | UI810270 | 1.5 kW               | 7.6 A       | 50 °C                             | 144 kg |
| VARIO3-30 MULTINOX VE+ 8-30  | UI810210 | 1.3 kW               | 2.1 A       | 50 °C                             | 117 kg |
| VARIO3-30 MULTINOX VE+ 8-50  | UI810220 | 1.5 kW               | 3.6 A       | 50 °C                             | 129 kg |
| VARIO3-30 MULTINOX VE+ 8-70  | UI810230 | 1.5 kW               | 5.0 A       | 50 °C                             | 141 kg |
| VARIO3-30 MULTINOX VE+ 8-90  | UI800180 | 3.0 kW               | 9.7 A       | 50 °C                             | 178 kg |
| VARIO3-30 MULTINOX VE+ 8-120 | UI800190 | 4.0 kW               | 12.3 A      | 50 °C                             | 185 kg |

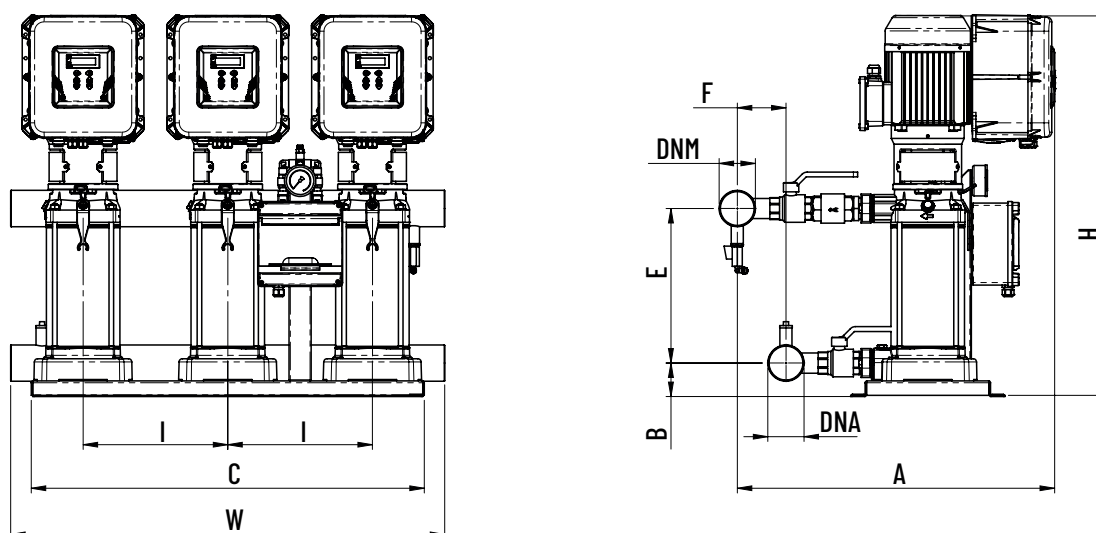
Fig. 1



# VARIO 3-30 MULTINOX VE +

## BOOSTER SETS - VARIABLE SPEED

Fig. 2



### DIMENSIONS [mm]

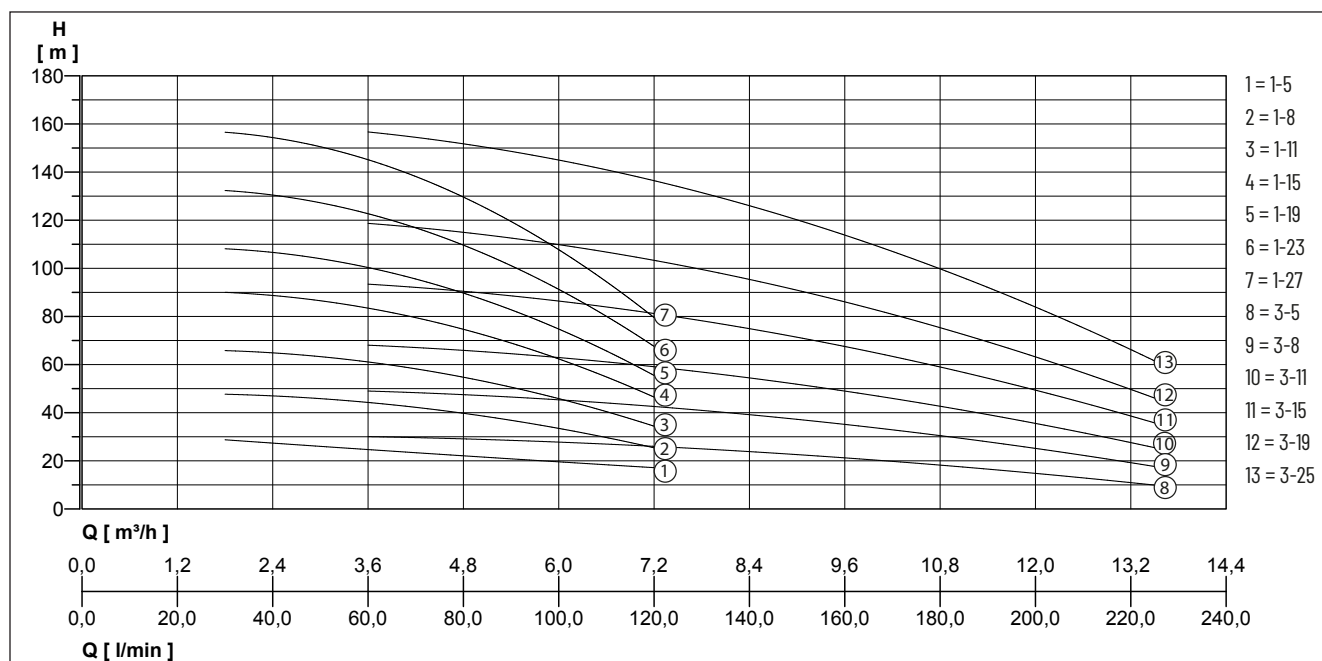
| Type                         | Fig. | A   | B  | C   | F  | H   | I   | L   | M     | N   | P    | Q   | R   | W   | DNA    | DNM    | E   |
|------------------------------|------|-----|----|-----|----|-----|-----|-----|-------|-----|------|-----|-----|-----|--------|--------|-----|
| VARIO3-30 MULTINOX VE+ 4-30  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 449 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 130 |
| VARIO3-30 MULTINOX VE+ 4-50  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 503 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 184 |
| VARIO3-30 MULTINOX VE+ 4-70  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 557 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 238 |
| VARIO3-30 MULTINOX VE+ 4-90  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 611 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 292 |
| VARIO3-30 MULTINOX VE+ 4-120 | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 693 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 373 |
| VARIO3-30 MULTINOX VE+ 6-30  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 449 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 130 |
| VARIO3-30 MULTINOX VE+ 6-50  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 503 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 184 |
| VARIO3-30 MULTINOX VE+ 6-70  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 557 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 238 |
| VARIO3-30 MULTINOX VE+ 6-90  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 611 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 292 |
| VARIO3-30 MULTINOX VE+ 8-30  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 449 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 130 |
| VARIO3-30 MULTINOX VE+ 8-50  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 503 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 184 |
| VARIO3-30 MULTINOX VE+ 8-70  | 1    | 615 | 68 | 815 | 96 | 910 | 300 | 557 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 238 |
| VARIO3-30 MULTINOX VE+ 8-90  | 2    | 697 | 68 | 815 | 96 | 765 | 300 | 765 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 292 |
| VARIO3-30 MULTINOX VE+ 8-120 | 2    | 697 | 68 | 815 | 96 | 890 | 300 | 890 | 778,5 | 145 | 10,5 | 290 | 320 | 900 | 2 1/2" | 2 1/2" | 373 |



# VARIO 3-30 PVM 1-3

## BOOSTER SETS - VARIABLE SPEED

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                 | Flow rate Q [m³/h]  | 1.8   | 3.6   | 5.4   | 7.2   | 10.8 | 13.5 |
|----------------------|---------------------|-------|-------|-------|-------|------|------|
| VARIO3-30 PVM 1-5 F  | Delivery head H [m] | 29.4  | 22.7  | 22.8  | 16.5  |      |      |
| VARIO3-30 PVM 1-8 F  |                     | 47.6  | 44.5  | 36.6  | 25.5  |      |      |
| VARIO3-30 PVM 1-11 F |                     | 65.7  | 61.4  | 50.3  | 34.5  |      |      |
| VARIO3-30 PVM 1-15 F |                     | 89.9  | 83.8  | 68.6  | 46.6  |      |      |
| VARIO3-30 PVM 1-19 F |                     | 108.0 | 100.7 | 82.4  | 55.6  |      |      |
| VARIO3-30 PVM 1-23 F |                     | 132.2 | 123.1 | 100.7 | 67.7  |      |      |
| VARIO3-30 PVM 1-27 F |                     | 156.4 | 145.6 | 119.0 | 79.7  |      |      |
| VARIO3-30 PVM 3-5 F  |                     |       | 30.0  |       | 26.2  | 18.0 | 10.0 |
| VARIO3-30 PVM 3-8 F  |                     |       | 48.9  |       | 42.9  | 30.1 | 17.8 |
| VARIO3-30 PVM 3-11 F |                     |       | 67.9  |       | 59.6  | 42.1 | 25.7 |
| VARIO3-30 PVM 3-15 F |                     |       | 93.2  |       | 81.9  | 58.2 | 36.1 |
| VARIO3-30 PVM 3-19 F |                     |       | 118.4 |       | 104.2 | 74.3 | 46.5 |
| VARIO3-30 PVM 3-25 F |                     |       | 156.3 |       | 137.6 | 98.4 | 62.1 |

### VARIO 3-30 PVM 1-3

| Type                 | Code No. | Motor rating 3xP2 | Current 3xI | Temperature of the liquid max. | Weight |
|----------------------|----------|-------------------|-------------|--------------------------------|--------|
| VARIO3-30 PVM 1-5 F  | UI810000 | 0.37 kW           | 1.50 A      | 120 °C                         | 90 kg  |
| VARIO3-30 PVM 1-8 F  | UI810010 | 0.55 kW           | 2.30 A      | 120 °C                         | 93 kg  |
| VARIO3-30 PVM 1-11 F | UI810020 | 0.55 kW           | 3.20 A      | 120 °C                         | 101 kg |
| VARIO3-30 PVM 1-15 F | UI810030 | 0.75 kW           | 4.40 A      | 120 °C                         | 110 kg |
| VARIO3-30 PVM 1-19 F | UI810040 | 1.10 kW           | 5.50 A      | 120 °C                         | 120 kg |
| VARIO3-30 PVM 1-23 F | UI810050 | 1.10 kW           | 6.70 A      | 120 °C                         | 135 kg |
| VARIO3-30 PVM 1-27 F | UI810060 | 1.50 kW           | 7.80 A      | 120 °C                         | 141 kg |
| VARIO3-30 PVM 3-5 F  | UI810070 | 0.37 kW           | 0.90 A      | 120 °C                         | 93 kg  |
| VARIO3-30 PVM 3-8 F  | UI810080 | 0.75 kW           | 1.45 A      | 120 °C                         | 98 kg  |
| VARIO3-30 PVM 3-11 F | UI810090 | 0.75 kW           | 2.00 A      | 120 °C                         | 110 kg |
| VARIO3-30 PVM 3-15 F | UI810100 | 1.10 kW           | 2.70 A      | 120 °C                         | 113 kg |
| VARIO3-30 PVM 3-19 F | UI810110 | 1.50 kW           | 3.40 A      | 120 °C                         | 120 kg |
| VARIO3-30 PVM 3-25 F | UI810120 | 2.20 kW           | 4.50 A      | 120 °C                         | 135 kg |

# VARIO 3-30 PVM 1-3

## BOOSTER SETS - VARIABLE SPEED

Fig. 1

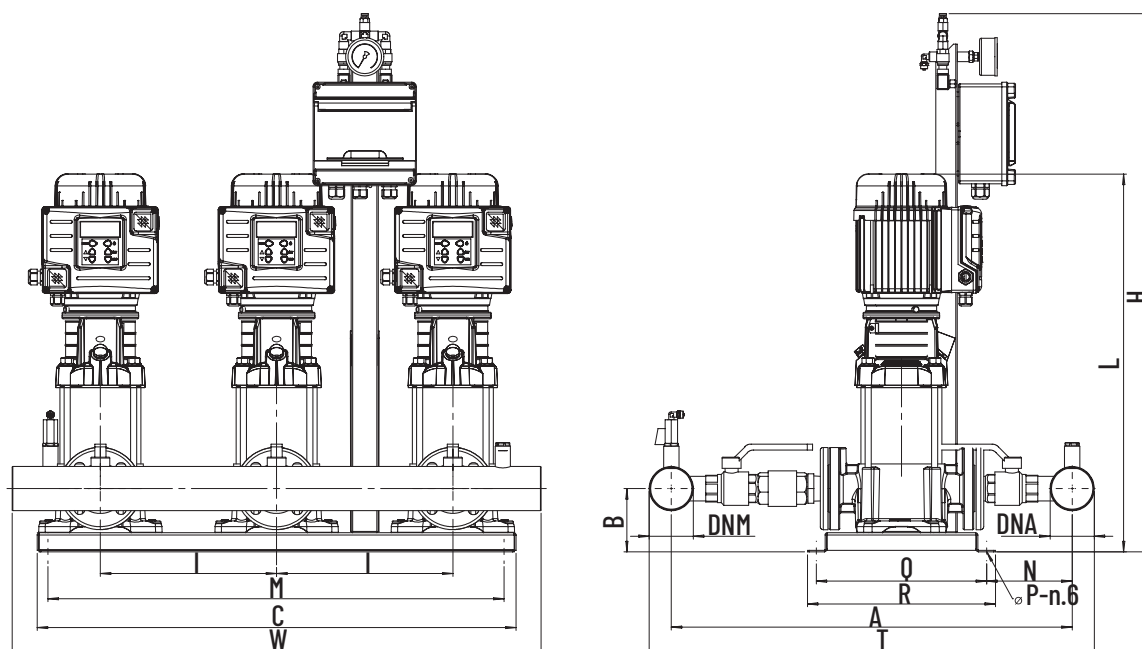
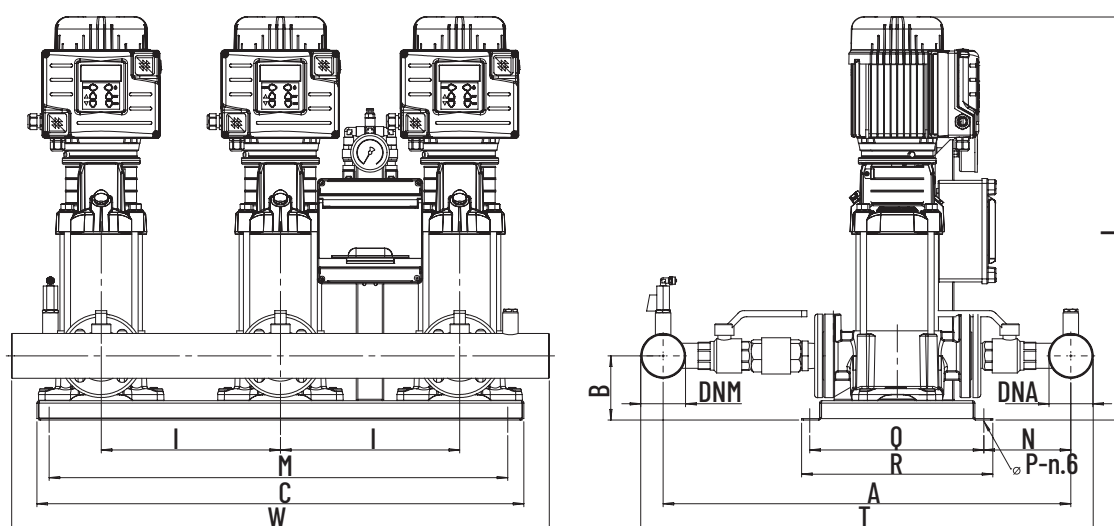


Fig. 2



# VARIO 3-30 PVM 1-3

## BOOSTER SETS - VARIABLE SPEED

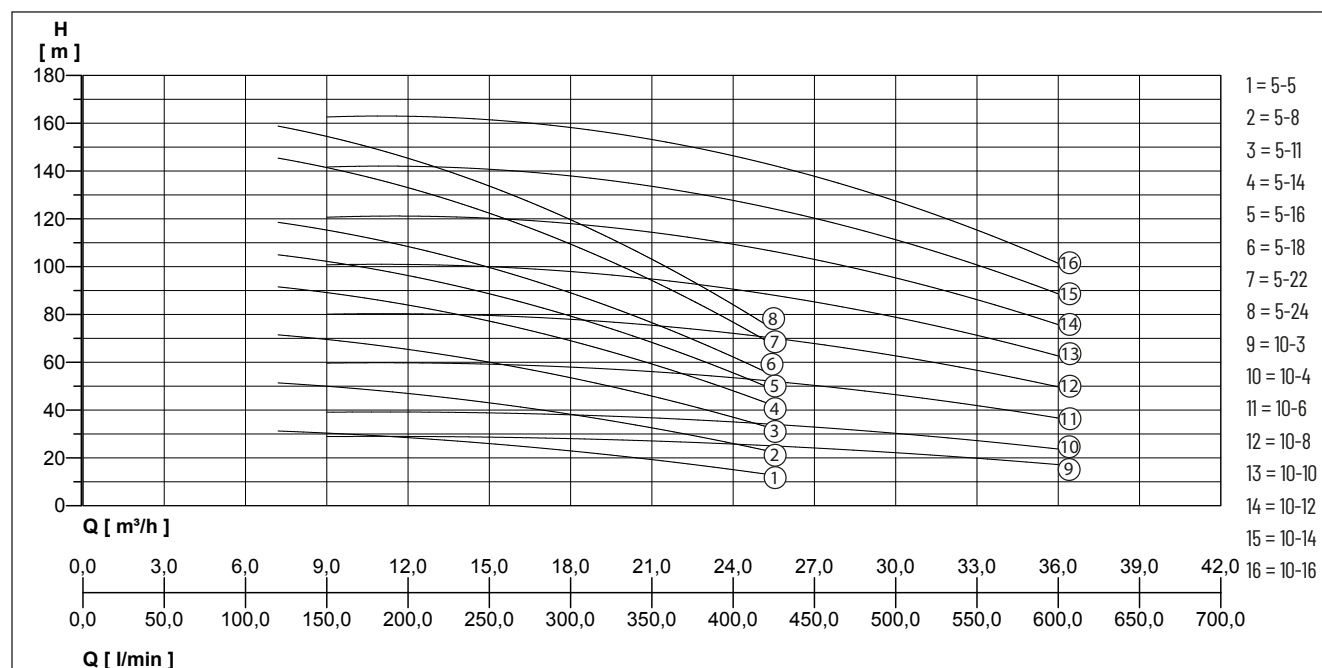
### DIMENSIONS [mm]

| Type                 | Fig. | A   | B   | C   | H    | I   | L    | M     | N   | P    | Q   | R   | T   | W   | DNA    | DNM    |
|----------------------|------|-----|-----|-----|------|-----|------|-------|-----|------|-----|-----|-----|-----|--------|--------|
| VARIO3-30 PVM 1-5 F  | 1    | 690 | 108 | 815 | 910  | 300 | 543  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 1-8 F  | 1    | 690 | 108 | 815 | 910  | 300 | 597  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 1-11 F | 2    | 690 | 108 | 815 | 651  | 300 | 651  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 1-15 F | 2    | 690 | 108 | 815 | 769  | 300 | 769  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 1-19 F | 2    | 690 | 108 | 815 | 841  | 300 | 841  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 1-23 F | 2    | 690 | 108 | 815 | 913  | 300 | 913  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 1-27 F | 2    | 690 | 108 | 815 | 1033 | 300 | 1033 | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 3-5 F  | 1    | 690 | 108 | 815 | 910  | 300 | 543  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 3-8 F  | 1    | 690 | 108 | 815 | 910  | 300 | 643  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 3-11 F | 2    | 690 | 108 | 815 | 697  | 300 | 697  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 3-15 F | 2    | 690 | 108 | 815 | 769  | 300 | 769  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 3-19 F | 2    | 690 | 108 | 815 | 889  | 300 | 889  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 3-25 F | 2    | 690 | 108 | 815 | 997  | 300 | 997  | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900 | 2 1/2" | 2 1/2" |

# VARIO 3-30 PVM 5-10

## BOOSTER SETS - VARIABLE SPEED

### PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                  | Flow rate $Q$ [m³/h]  | 7.2   | 9     | 10.8  | 14.4  | 18    | 21.6 | 25.2 | 27    | 36    |
|-----------------------|-----------------------|-------|-------|-------|-------|-------|------|------|-------|-------|
| VARIO3-30 PVM 5-5 F   | Delivery head $H$ [m] | 31.1  |       | 29.4  | 26.8  | 22.9  | 18.0 | 13.5 |       |       |
| VARIO3-30 PVM 5-8 F   |                       | 51.1  |       | 48.5  | 44.3  | 38.2  | 30.5 | 23.6 |       |       |
| VARIO3-30 PVM 5-11 F  |                       | 71.1  |       | 67.5  | 61.8  | 53.5  | 43.0 | 33.8 |       |       |
| VARIO3-30 PVM 5-14 F  |                       | 91.1  |       | 86.6  | 79.4  | 68.9  | 55.8 | 43.9 |       |       |
| VARIO3-30 PVM 5-16 F  |                       | 104.5 |       | 99.3  | 91.0  | 79.1  | 64.7 | 50.7 |       |       |
| VARIO3-30 PVM 5-18 F  |                       | 117.8 |       | 112.0 | 102.7 | 89.3  | 71.1 | 57.4 |       |       |
| VARIO3-30 PVM 5-22 F  |                       | 144.5 |       | 137.4 | 126.1 | 109.7 | 87.6 | 70.9 |       |       |
| VARIO3-30 PVM 5-24 F  |                       | 157.8 |       | 150.1 | 137.8 | 119.9 | 95.9 | 77.7 |       |       |
| VARIO3-30 PVM 10-3 F  |                       |       | 29.0  |       |       | 27.8  |      |      | 24.4  | 17.1  |
| VARIO3-30 PVM 10-4 F  |                       |       | 39.2  |       |       | 37.7  |      |      | 33.2  | 23.6  |
| VARIO3-30 PVM 10-6 F  |                       |       | 59.8  |       |       | 57.5  |      |      | 50.8  | 36.5  |
| VARIO3-30 PVM 10-8 F  |                       |       | 80.3  |       |       | 77.4  |      |      | 68.4  | 49.5  |
| VARIO3-30 PVM 10-10 F |                       |       | 101.0 |       |       | 97.2  |      |      | 86.0  | 62.4  |
| VARIO3-30 PVM 10-12 F |                       |       | 121.0 |       |       | 117.0 |      |      | 104.0 | 75.4  |
| VARIO3-30 PVM 10-14 F |                       |       | 142.0 |       |       | 137.0 |      |      | 121.2 | 88.3  |
| VARIO3-30 PVM 10-16 F |                       |       | 163.0 |       |       | 157.0 |      |      | 139.0 | 101.0 |

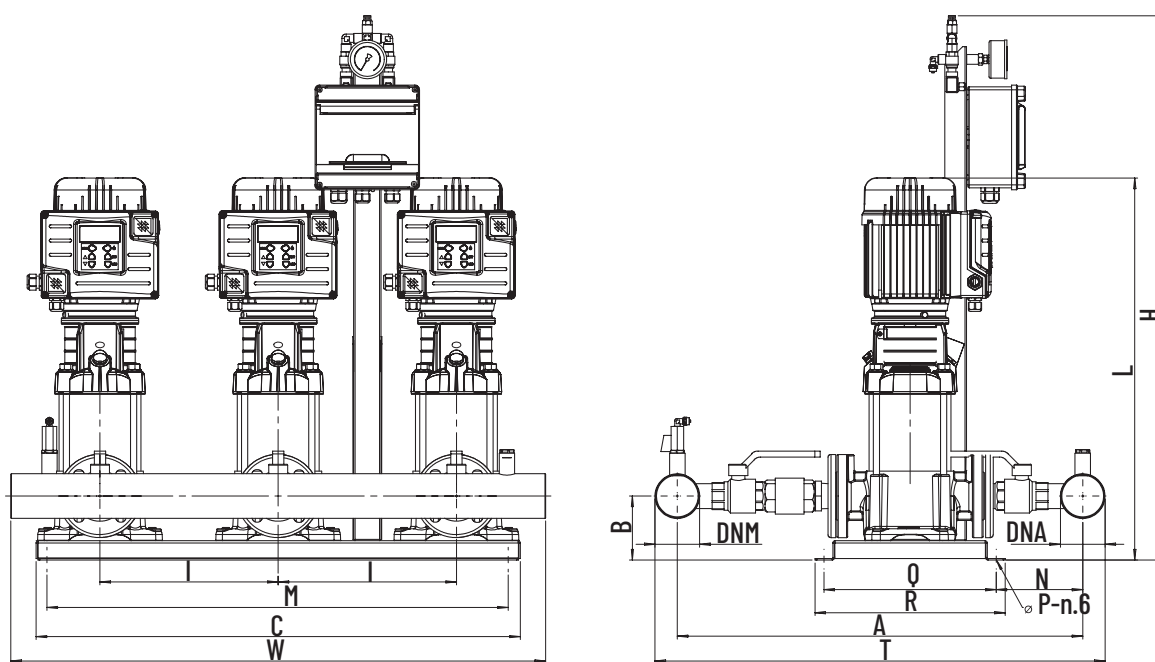
# VARIO 3-30 PVM 5-10

## BOOSTER SETS - VARIABLE SPEED

### VARIO 3-30 PVM 5-10

| Type                  | Code No. | Motor rating 3xP2 | Current 3xl | Temperature of the liquid max. | Weight |
|-----------------------|----------|-------------------|-------------|--------------------------------|--------|
| VARIO3-30 PVM 5-5 F   | UI810130 | 0.75 kW           | 1.7 A       | 120 °C                         | 114 kg |
| VARIO3-30 PVM 5-8 F   | UI810140 | 1.10 kW           | 2.7 A       | 120 °C                         | 120 kg |
| VARIO3-30 PVM 5-11 F  | UI810150 | 2.20 kW           | 3.7 A       | 120 °C                         | 138 kg |
| VARIO3-30 PVM 5-14 F  | UI810160 | 2.20 kW           | 4.8 A       | 120 °C                         | 147 kg |
| VARIO3-30 PVM 5-16 F  | UI810170 | 2.20 kW           | 5.4 A       | 120 °C                         | 150 kg |
| VARIO3-30 PVM 5-18 F  | UI800200 | 3.00 kW           | 6.1 A       | 120 °C                         | 224 kg |
| VARIO3-30 PVM 5-22 F  | UI800210 | 4.00 kW           | 7.5 A       | 120 °C                         | 229 kg |
| VARIO3-30 PVM 5-24 F  | UI800220 | 4.00 kW           | 8.2 A       | 120 °C                         | 248 kg |
| VARIO3-30 PVM 10-3 F  | UI810180 | 1.50 kW           | 2.4 A       | 120 °C                         | 128 kg |
| VARIO3-30 PVM 10-4 F  | UI810190 | 2.00 kW           | 3.2 A       | 120 °C                         | 158 kg |
| VARIO3-30 PVM 10-6 F  | UI810200 | 2.20 kW           | 4.8 A       | 120 °C                         | 173 kg |
| VARIO3-30 PVM 10-8 F  | UI800230 | 3.00 kW           | 6.4 A       | 120 °C                         | 147 kg |
| VARIO3-30 PVM 10-10 F | UI800240 | 4.00 kW           | 8.0 A       | 120 °C                         | 150 kg |
| VARIO3-30 PVM 10-12 F | UI800250 | 4.00 kW           | 9.6 A       | 120 °C                         | 224 kg |
| VARIO3-30 PVM 10-14 F | UI800260 | 5.50 kW           | 11.2 A      | 120 °C                         | 229 kg |
| VARIO3-30 PVM 10-16 F | UI800270 | 5.50 kW           | 12.8 A      | 120 °C                         | 248 kg |

Fig. 1



# VARIO 3-30 PVM 5-10

## BOOSTER SETS - VARIABLE SPEED

Fig. 2

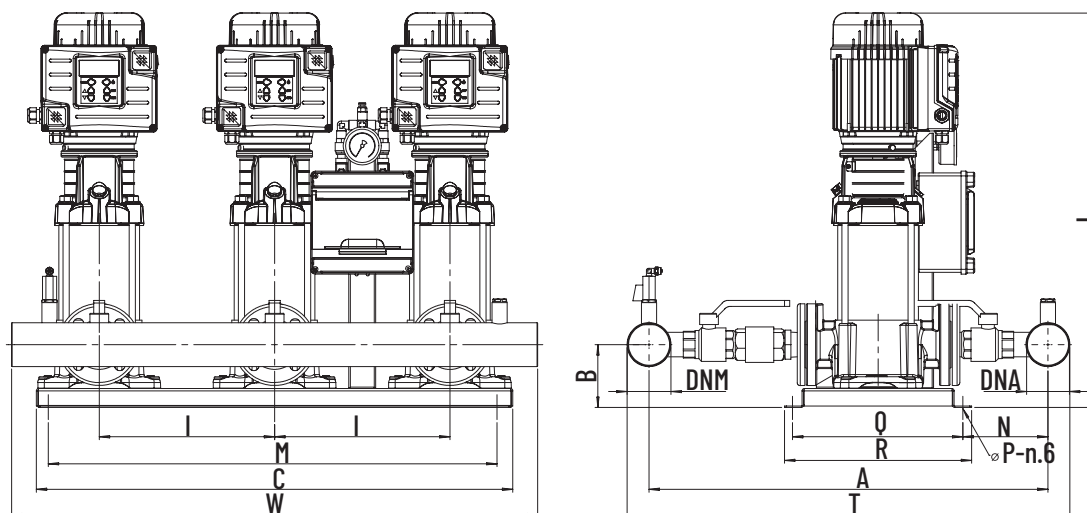
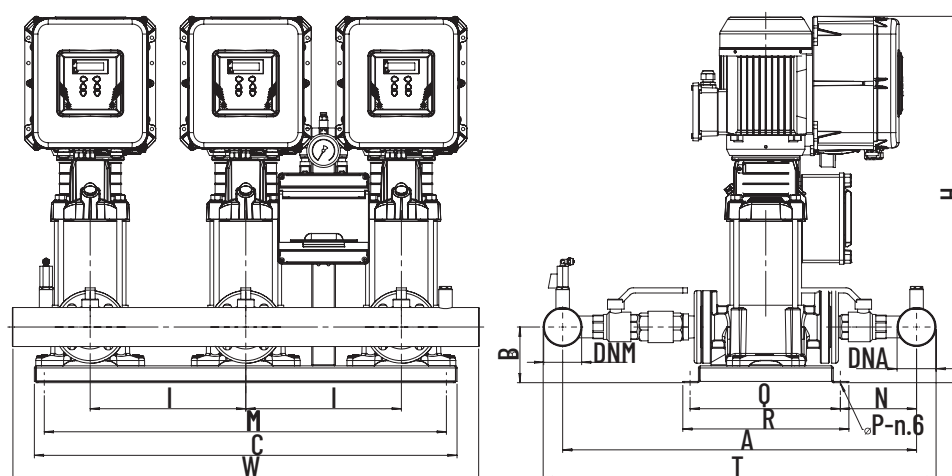


Fig. 3



# VARIO 3-30 PVM 5-10

## BOOSTER SETS - VARIABLE SPEED

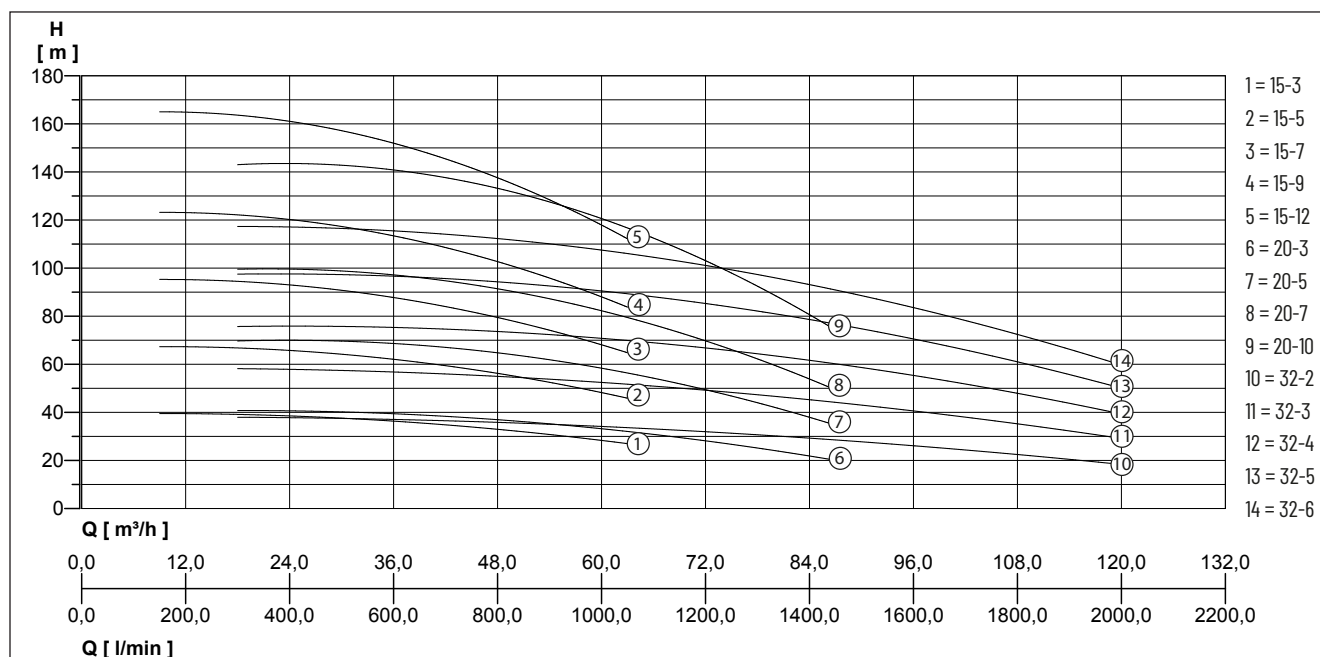
### DIMENSIONS [mm]

| Type                  | Fig. | A   | B   | C    | H    | I   | L   | M     | N   | P    | Q   | R   | T   | W    | DNA    | DNM    |
|-----------------------|------|-----|-----|------|------|-----|-----|-------|-----|------|-----|-----|-----|------|--------|--------|
| VARIO3-30 PVM 5-5 F   | 1    | 690 | 108 | 815  | 910  | 300 | 634 | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900  | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 5-8 F   | 2    | 690 | 108 | 815  | 715  | 300 | 715 | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900  | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 5-11 F  | 2    | 690 | 108 | 815  | 844  | 300 | 844 | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900  | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 5-14 F  | 2    | 690 | 108 | 815  | 925  | 300 | 925 | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900  | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 5-16 F  | 2    | 690 | 108 | 815  | 979  | 300 | 979 | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900  | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 5-18 F  | 3    | 690 | 108 | 815  | 1091 | 300 |     | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900  | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 5-22 F  | 3    | 690 | 108 | 815  | 1206 | 300 |     | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900  | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 5-24 F  | 3    | 690 | 108 | 815  | 1260 | 300 |     | 778,5 | 145 | 10,5 | 290 | 320 | 765 | 900  | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 10-3 F  | 1    | 720 | 113 | 1000 | 910  | 370 | 645 | 963,5 | 158 | 10,5 | 290 | 320 | 795 | 1040 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 10-4 F  | 2    | 720 | 113 | 1000 | 723  | 370 | 723 | 963,5 | 158 | 10,5 | 290 | 320 | 795 | 1040 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 10-6 F  | 2    | 720 | 113 | 1000 | 783  | 370 | 783 | 963,5 | 158 | 10,5 | 290 | 320 | 795 | 1040 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 10-8 F  | 3    | 720 | 113 | 1000 | 902  | 370 |     | 963,5 | 158 | 10,5 | 290 | 320 | 795 | 1040 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 10-10 F | 3    | 720 | 113 | 1000 | 969  | 370 |     | 963,5 | 158 | 10,5 | 290 | 320 | 795 | 1040 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 10-12 F | 3    | 720 | 113 | 1000 | 1029 | 370 |     | 963,5 | 158 | 10,5 | 290 | 320 | 795 | 1040 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 10-14 F | 3    | 720 | 113 | 1000 | 1158 | 370 |     | 963,5 | 158 | 10,5 | 290 | 320 | 795 | 1040 | 2 1/2" | 2 1/2" |
| VARIO3-30 PVM 10-16 F | 3    | 720 | 113 | 1000 | 1218 | 370 |     | 963,5 | 158 | 10,5 | 290 | 320 | 795 | 1040 | 2 1/2" | 2 1/2" |

# VARIO 3-30 PVM 15 / PVM 20 / PVM 32

BOOSTER SETS - VARIABLE SPEED

## PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

| Type                  | Flow rate Q [m³/h]  | 9     | 18    | 27    | 36    | 45    | 54    | 63    | 72    | 86.4 | 90   | 108  | 118.8 |
|-----------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| VARIO3-30 PVM 15-3 F  | Delivery head H [m] | 39.6  | 39.2  | 37.8  | 36.3  | 34.1  | 31.0  | 26.8  |       |      |      |      |       |
| VARIO3-30 PVM 15-5 F  |                     | 67.4  | 66.9  | 64.7  | 62.0  | 58.1  | 52.7  | 45.7  |       |      |      |      |       |
| VARIO3-30 PVM 15-7 F  |                     | 95.3  | 94.7  | 91.6  | 87.7  | 82.0  | 74.4  | 64.6  |       |      |      |      |       |
| VARIO3-30 PVM 15-9 F  |                     | 123.2 | 122.4 | 118.4 | 113.4 | 106.0 | 96.0  | 83.6  |       |      |      |      |       |
| VARIO3-30 PVM 15-12 F |                     | 165.0 | 163.9 | 158.8 | 151.9 | 141.9 | 128.6 | 112.0 |       |      |      |      |       |
| VARIO3-30 PVM 20-3 F  |                     |       | 41.0  |       | 39.0  |       | 35.0  |       | 29.0  | 20.0 |      |      |       |
| VARIO3-30 PVM 20-5 F  |                     |       | 70.0  |       | 68.0  |       | 62.0  |       | 50.0  | 35.0 |      |      |       |
| VARIO3-30 PVM 20-7 F  |                     |       | 100.0 |       | 96.0  |       | 88.0  |       | 70.0  | 50.0 |      |      |       |
| VARIO3-30 PVM 20-10 F |                     |       | 144.0 |       | 139.0 |       | 127.0 |       | 106.0 | 74.0 |      |      |       |
| VARIO3-30 PVM 32-2 F  |                     |       | 38.0  |       | 37.0  |       | 35.0  |       | 32.0  |      | 28.0 | 22.0 | 19.0  |
| VARIO3-30 PVM 32-3 F  |                     |       | 58.0  |       | 57.0  |       | 54.0  |       | 49.0  |      | 43.0 | 35.0 | 30.0  |
| VARIO3-30 PVM 32-4 F  |                     |       | 76.0  |       | 75.0  |       | 72.0  |       | 67.0  |      | 59.0 | 48.0 | 40.0  |
| VARIO3-30 PVM 32-5 F  |                     |       | 98.0  |       | 96.0  |       | 92.0  |       | 86.0  |      | 75.0 | 61.0 | 51.0  |
| VARIO3-30 PVM 32-6 F  |                     |       | 118.0 |       | 115.0 |       | 109.0 |       | 101.0 |      | 90.0 | 73.0 | 60.0  |



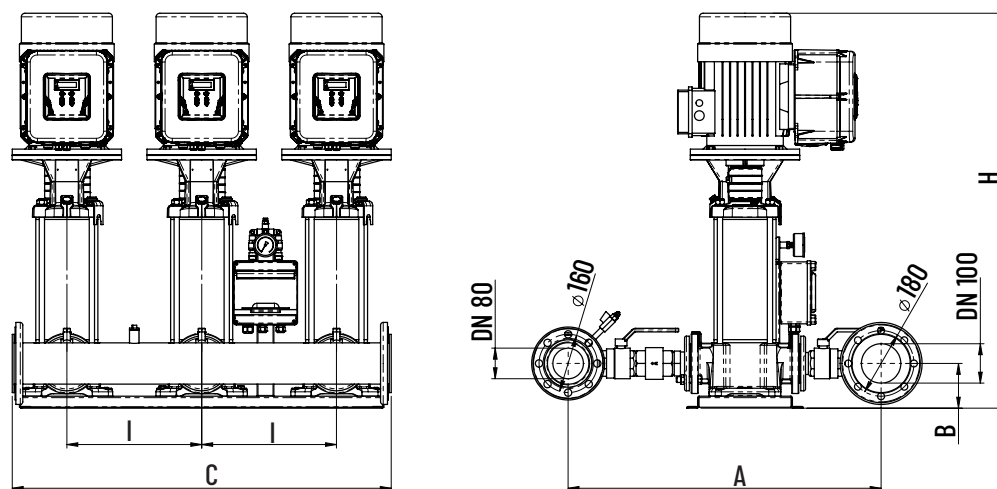
# VARIO 3-30 PVM 15 / PVM 20 / PVM 32

BOOSTER SETS - VARIABLE SPEED

## VARIO 3-30 PVM 15 / PVM 20 / PVM 32

| Type                  | Code No. | Motor rating 3xP2 | Current 3xl | Temperature of the liquid max. | Weight |
|-----------------------|----------|-------------------|-------------|--------------------------------|--------|
| VARIO3-30 PVM 15-3 F  | UI800280 | 3.0 kW            | 5.1 A       | 120 °C                         | 207 kg |
| VARIO3-30 PVM 15-5 F  | UI800290 | 4.0 kW            | 8.5 A       | 120 °C                         | 252 kg |
| VARIO3-30 PVM 15-7 F  | UI800300 | 5.5 kW            | 11.9 A      | 120 °C                         | 354 kg |
| VARIO3-30 PVM 15-9 F  | UI800310 | 7.5 kW            | 15.3 A      | 120 °C                         | 381 kg |
| VARIO3-30 PVM 15-12 F | UI800320 | 11.0 kW           | 20.4 A      | 120 °C                         | 500 kg |
| VARIO3-30 PVM 20-3 F  | UI800330 | 4.0 kW            | 8.5 A       | 120 °C                         | 243 kg |
| VARIO3-30 PVM 20-5 F  | UI800340 | 5.5 kW            | 11.9 A      | 120 °C                         | 345 kg |
| VARIO3-30 PVM 20-7 F  | UI800350 | 7.5 kW            | 15.3 A      | 120 °C                         | 372 kg |
| VARIO3-30 PVM 20-10 F | UI800360 | 11.0 kW           | 20.4 A      | 120 °C                         | 492 kg |
| VARIO3-30 PVM 32-2 F  | UI800370 | 4.0 kW            | 7.1 A       | 120 °C                         | 418 kg |
| VARIO3-30 PVM 32-3 F  | UI800380 | 5.5 kW            | 10.7 A      | 120 °C                         | 485 kg |
| VARIO3-30 PVM 32-4 F  | UI800390 | 7.5 kW            | 14.3 A      | 120 °C                         | 515 kg |
| VARIO3-30 PVM 32-5 F  | UI800400 | 11.0 kW           | 17.8 A      | 120 °C                         | 644 kg |
| VARIO3-30 PVM 32-6 F  | UI800410 | 11.0 kW           | 21.4 A      | 120 °C                         | 656 kg |

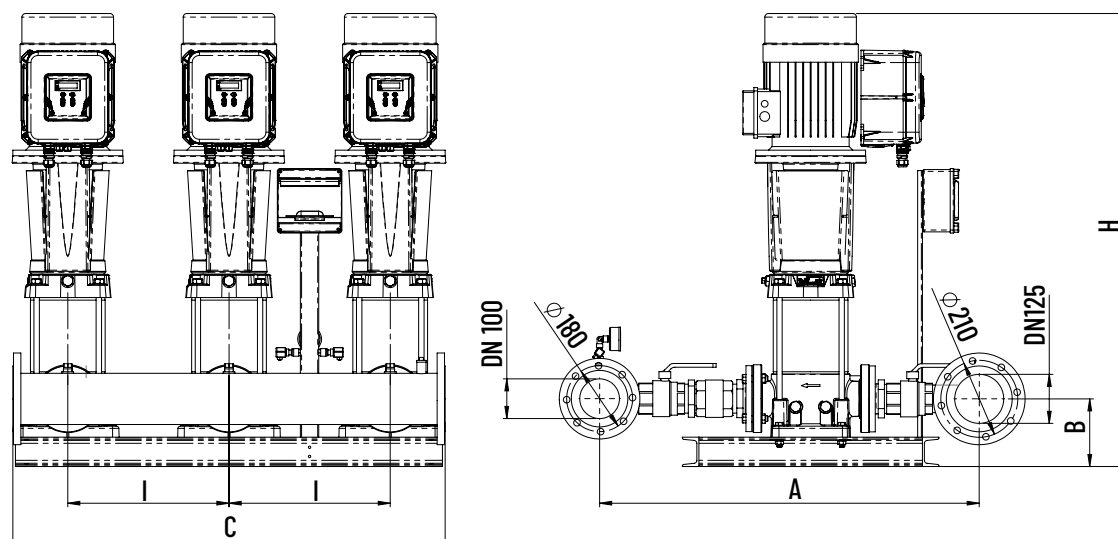
Fig.1



# VARIO 3-30 PVM 15 / PVM 20 / PVM 32

BOOSTER SETS - VARIABLE SPEED

Fig.2



## DIMENSIONS [mm]

| Type                  | Fig. | A    | B   | C    | H    | I   | DNA | DNM |
|-----------------------|------|------|-----|------|------|-----|-----|-----|
| VARIO3-30 PVM 15-3 F  | 1    | 860  | 125 | 1040 | 786  | 370 | 3"  | 3"  |
| VARIO3-30 PVM 15-5 F  | 1    | 860  | 125 | 1040 | 883  | 370 | 3"  | 3"  |
| VARIO3-30 PVM 15-7 F  | 1    | 860  | 125 | 1040 | 1042 | 370 | 3"  | 3"  |
| VARIO3-30 PVM 15-9 F  | 1    | 860  | 125 | 1040 | 1152 | 370 | 3"  | 3"  |
| VARIO3-30 PVM 15-12 F | 1    | 860  | 125 | 1040 | 1417 | 370 | 3"  | 3"  |
| VARIO3-30 PVM 20-3 F  | 1    | 860  | 125 | 1040 | 793  | 370 | 3"  | 3"  |
| VARIO3-30 PVM 20-5 F  | 1    | 860  | 125 | 1040 | 952  | 370 | 3"  | 3"  |
| VARIO3-30 PVM 20-7 F  | 1    | 860  | 125 | 1040 | 1062 | 370 | 3"  | 3"  |
| VARIO3-30 PVM 20-10 F | 1    | 860  | 125 | 1040 | 1387 | 370 | 3"  | 3"  |
| VARIO3-30 PVM 32-2 F  | 2    | 1040 | 185 | 1180 | 982  | 440 | 4"  | 3"  |
| VARIO3-30 PVM 32-3 F  | 2    | 1040 | 185 | 1180 | 1089 | 440 | 4"  | 3"  |
| VARIO3-30 PVM 32-4 F  | 2    | 1040 | 185 | 1180 | 1179 | 440 | 4"  | 3"  |
| VARIO3-30 PVM 32-5 F  | 2    | 1040 | 185 | 1180 | 1472 | 440 | 4"  | 3"  |
| VARIO3-30 PVM 32-6 F  | 2    | 1040 | 185 | 1180 | 1542 | 440 | 4"  | 3"  |

# SECTION 5



**DIGITAL PT 8**  
DIGITAL PRESSURE SWITCH

PAG. 239



**CONTROL PANELS**

PAG. 244



**VSD**  
ELECTRONIC FREQUENCY  
CONVERTER

PAG. 240



**PRESSURE TANKS**

PAG. 246



**FLUSSCONTROL**  
ELECTRONIC PRESSURE  
REGULATOR

PAG. 243



**ACCESSORIES**  
ACCESSORIES AND FILTERS

PAG. 249



# **PENTAIR STA-RITE** **DIGITAL PT8**

- Alarm in case of low air pressure inside the tank (considering high number of pump start and stop )
- Dry running and motor overheating protection
- Function ART (Automatic Reset Test): when the device is disconnected due to dry running it has been conceived to be able to automatically try to reconnect until the water is back in the system.



## DESCRIPTION

DIGITAL PT8 is an electronic pressure switch with an integrated digital pressure gauge. It can manage the start and stop of single-phase electric pumps up to 2,2 Kw. Cut-in and cut-out pressure implementation can be set easily and accurately through an user friendly control panel. It can operate as a differential pressure switch, as an inverted pressure switch, or just with max. or minimum pressures.

DIGITAL PT8 includes also instantaneous current lecture, it controls and manages the overcurrent, the dry running of the pump and the fast cycling protection.

## MECHANICAL DATA

|                    |     |                                |       |
|--------------------|-----|--------------------------------|-------|
| Run dry protection | Yes | Temperature of the liquid max. | 50 °C |
|--------------------|-----|--------------------------------|-------|

## ELECTRICAL DATA

|                 |              |                   |            |
|-----------------|--------------|-------------------|------------|
| Voltage         | 1/N/PE~230 V | Type of enclosure | IP 55      |
| Motor rating P1 | 2.2 kW       | Motor protection  | Integrated |
| Current         | 30 A         | Frequency         | 50/60 Hz   |

## DIGITAL PT8

| Type        | Code No. |
|-------------|----------|
| DIGITAL PT8 | ZB902610 |

## VSD

### ELECTRONIC FREQUENCY CONVERTER

- Energy savings
- Constant output pressure with an increase of comfort for the final user
- Silent operation
- Multi purpose solution
- Inter flow sensor
- Control panel LCD display



#### DESCRIPTION

VSD (Variable Speed Drive) is a static frequency converter that controls the speed of an electric pump to maintain constant pressure even when water demand changes.

This regulation is possible through a pressure sensor and a flow sensor connected to the inverter.

**VSD controls a three-phase pump and it is able to communicate with another hydraulic device thanks to the installation of a communication cable. The supply VOLT. can be single phase 230V or three-phase 400V depending on the model.**

#### APPLICATIONS

- To start and stop single-phase surface or submersed pumps.

#### MECHANICAL DATA

|                         |        |                                |        |
|-------------------------|--------|--------------------------------|--------|
| Run dry protection      | Yes    | Temperature of the liquid max. | 40 °C  |
| Operating pressure max. | 16 bar | Weight                         | 2.7 kg |

#### ELECTRICAL DATA

|                   |              |                          |          |
|-------------------|--------------|--------------------------|----------|
| Voltage           | 1/N/PE~230 V | Ambient temperature max. | 50 °C    |
| Pump voltage      | 3/N/PE~230 V | Frequency                | 50/60 Hz |
| Type of enclosure | IP 55        |                          |          |

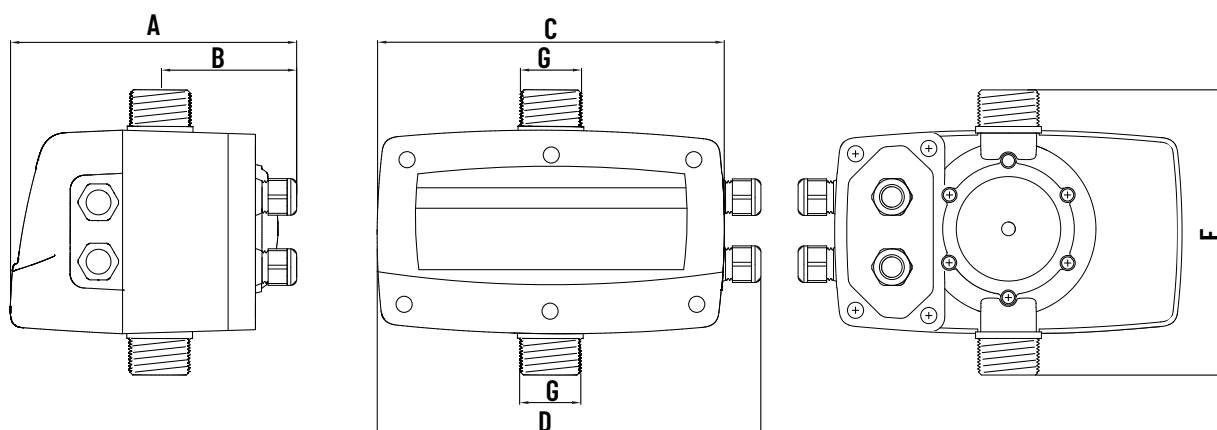
#### VSD

| Type       | Code No.        | Motor protection |
|------------|-----------------|------------------|
| VSD 6 M/T  | <b>ZB902520</b> | 6 A              |
| VSD 10 M/T | <b>ZB902530</b> | 10 A             |

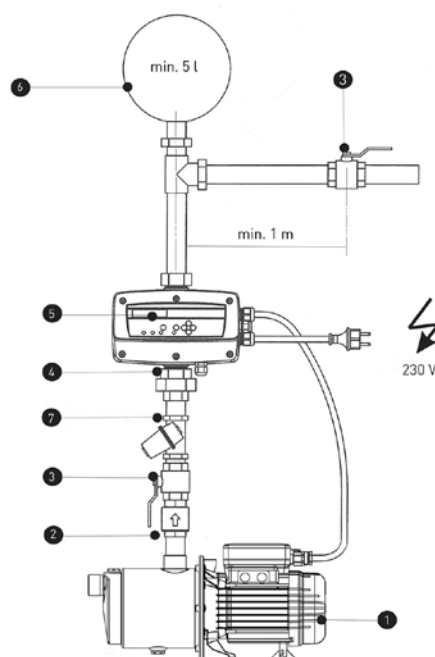
# VSD

## ELECTRONIC FREQUENCY CONVERTER

Fig. 1



### Installation



### DIMENSIONS [mm]

| Type       | Fig. | A   | B  | C   | D   | E   | D      |
|------------|------|-----|----|-----|-----|-----|--------|
| VSD 6 M/T  | 1    | 196 | 93 | 237 | 262 | 196 | 1 1/4" |
| VSD 10 M/T | 1    | 196 | 93 | 237 | 262 | 196 | 1 1/4" |

## FLUSSCONTROL

ELECTRONIC PRESSURE REGULATOR

- Reduces the effects of water hammer.
- Replaces the traditional system of the expansion module
- Requires no maintenance
- Protection in case of a lack of water
- Very easy to install
- Keeps the pressure constant during distribution



### DESCRIPTION

This device starts and stops the pump when the valve is opened and closed. In the event of no intake flow, the electronic system will block the pump protecting it from dry running.

Once the causes that led the pump to be blocked have been overcome, simply press the red Restart (reset) button to restore normal operation. In the event of a temporary power failure, the unit will reset automatically once powered again.

### APPLICATIONS

- To start and stop single-phase surface or submersed pumps.
- Keeps the pressure constant during distribution
- Starts and stops the pump in function of the opening and closing the valve.

### ELECTRICAL DATA

|                   |              |                          |          |
|-------------------|--------------|--------------------------|----------|
| Voltage           | 1/N/PE~230 V | Ambient temperature max. | 40 °C    |
| Type of enclosure | IP 65        | Frequency                | 50/60 Hz |

### FLUSSCONTROL

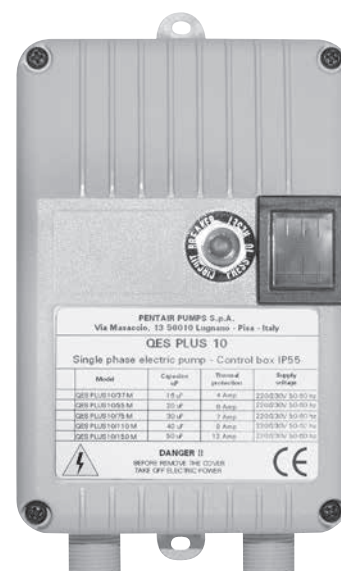
| Type               | Code No.                              | Motor rating P1 | Motor protection | Operating pressure max. | Temperature of the liquid max. | Weight  |
|--------------------|---------------------------------------|-----------------|------------------|-------------------------|--------------------------------|---------|
| Flusscontrol       | <b>ZB401960</b>                       | 1.5 kW          | < 10 A           | 12 bar                  | 65 °C                          | 1.07 kg |
|                    | <b>ZB902360 - with cable</b>          |                 |                  |                         |                                |         |
| Flusscontrol basic | <b>ZB902310</b>                       | 1.1 kW          | < 8 A            | 8 bar                   | 60 °C                          | 0.80 kg |
|                    | <b>ZB902480 - with cable and plug</b> |                 |                  |                         |                                |         |



## QES PLUS

### SINGLE PHASE ELECTRICAL PANEL

- Protection level IP55
- Capacitor included
- Manual via switch or automatic via external remote control



### DESCRIPTION

Single phase electrical panel to control a submersed pump with direct start

### MECHANICAL DATA

|        |        |  |
|--------|--------|--|
| Weight | 0.6 kg |  |
|--------|--------|--|

### ELECTRICAL DATA

|                   |              |                          |       |
|-------------------|--------------|--------------------------|-------|
| Voltage           | 1/N/PE~230 V | Ambient temperature max. | 40 °C |
| Type of enclosure | IP 55        |                          |       |

### QES PLUS

| Type              | Code No. | Motor rating P1 | Motor protection |
|-------------------|----------|-----------------|------------------|
| QES PLUS 10/37 M  | UZ012710 | 0.55 kW         | 4 A              |
| QES PLUS 10/55 M  | UZ012720 | 0.75 kW         | 6 A              |
| QES PLUS 10/75 M  | UZ012730 | 1.00 kW         | 7 A              |
| QES PLUS 10/110 M | UZ012740 | 1.50 kW         | 9 A              |
| QES PLUS 10/150 M | UZ012750 | 2.00 kW         | 12 A             |

# EASYCONTROLLER

## EASYCONTROLLER

- Three configurations: surface, submersible, drainage
- Single phase and three phase
- 1 or 2 pumps
- Remote controls (BMS)
- Universal control unit
- Made in Italy



### DESCRIPTION

EASYCONTROLLER control panels are indicated for residential and industrial applications and they control single and three phase electric pumps installed as:

1 or 2 surface pumps or boosters for pressurizing

1 or 2 drainage pumps or boosters for sewage

### ELECTRICAL DATA

|                          |       |           |       |
|--------------------------|-------|-----------|-------|
| Ambient temperature max. | 50 °C | Frequency | 50 Hz |
|--------------------------|-------|-----------|-------|

### EASYCONTROLLER

| Type                       | Code No.        | Voltage                      | Motor rating<br>P2 2xP2 | Motor protection | Type of enclosure | HxWxL [mm]      | Weight |
|----------------------------|-----------------|------------------------------|-------------------------|------------------|-------------------|-----------------|--------|
| <b>Control for 1 pump</b>  |                 |                              |                         |                  |                   |                 |        |
| EASYCONTROLLER M10-240     | <b>UZQ14010</b> | 1/N/PE~230 V                 | 2.4 kW -                | 1 ... 13 A       | IP6X              | 200 x 100 x 170 | 1.2 kg |
| EASYCONTROLLER D10-110     | <b>UZQ14080</b> | 3/N/PE~230 V<br>3/N/PE~400 V | 0.5 kW -<br>1.1 kW      | 1.6 ... 2.5 A    | IP 54             | 335 x 150 x 250 | 6.9 kg |
| EASYCONTROLLER D10-150     | <b>UZQ14090</b> | 3/N/PE~230 V<br>3/N/PE~400 V | 1.0 kW -<br>1.5 kW      | 2.5 ... 4 A      | IP 54             | 335 x 150 x 250 | 6.9 kg |
| EASYCONTROLLER D10-220     | <b>UZQ14100</b> | 3/N/PE~230 V<br>3/N/PE~400 V | 1.5 kW -<br>2.2 kW      | 4 ... 6.3 A      | IP 54             | 335 x 150 x 250 | 6.9 kg |
| EASYCONTROLLER D10/110-400 | <b>UZQ14110</b> | 3/N/PE~230 V<br>3/N/PE~400 V | 2.4 kW -<br>4.0 kW      | 6.3 ... 10 A     | IP 54             | 335 x 150 x 250 | 6.9 kg |
| EASYCONTROLLER D10/750     | <b>UZQ14210</b> | 3/N/PE~230 V<br>3/N/PE~400 V | 4.0 kW -<br>7.5 kW      | 10 ... 16 A      | IP 54             | 335 x 150 x 250 | 6.9 kg |
| <b>Control for 2 pumps</b> |                 |                              |                         |                  |                   |                 |        |
| EASYCONTROLLER M20-240     | <b>UZQ14020</b> | 1/N/PE~230 V                 | - 2.4 kW                | 1 ... 13 A       | IP6X              | 200 x 100 x 170 | 1.2 kg |
| EASYCONTROLLER D20-110     | <b>UZQ14150</b> | 3/N/PE~230 V<br>3/N/PE~400 V | - 0.5 kW<br>1.1 kW      | 1.6 ... 2.5 A    | IP 54             | 335 x 150 x 250 | 6.9 kg |
| EASYCONTROLLER D20-150     | <b>UZQ14140</b> | 3/N/PE~230 V<br>3/N/PE~400 V | - 1.0 kW<br>1.5 kW      | 2.5 ... 4 A      | IP 54             | 335 x 150 x 250 | 6.9 kg |
| EASYCONTROLLER D20-220     | <b>UZQ14130</b> | 3/N/PE~230 V<br>3/N/PE~400 V | - 1.5 kW<br>2.2 kW      | 4 ... 6.3 A      | IP 54             | 335 x 150 x 250 | 6.9 kg |
| EASYCONTROLLER D20-400     | <b>UZQ14120</b> | 3/N/PE~230 V<br>3/N/PE~400 V | - 2.4 kW<br>4.0 kW      | 6.3 ... 10 A     | IP 54             | 335 x 150 x 250 | 6.9 kg |
| EASYCONTROLLER D20-750     | <b>UZQ14220</b> | 3/N/PE~230 V<br>3/N/PE~400 V | - 4.0 kW<br>7.5 kW      | 10 ... 16 A      | IP 54             | 450 x 230 x 320 | 9.7 kg |

# PRESSURE TANKS

## PRESSURE TANKS

- 7 models 100% stainless steel
- Many possible uses for commercial market



### DESCRIPTION

#### PRESSURE TANKS - Stainless steel

Sta Rite pressure tanks are made of stainless steel AISI 304 in 7 models with the aim to meet all the requirements of civil and industrial systems and ensure the suitability of the product for use with food. Especially suitable for humid rooms CE certified.

**HORIZONTAL:** Interchangeable bromobutyl membrane with a capacity of 24 litres per membrane, with a bracket to mount the pump and a support foot. Pre-load 1.5 bar.

**VERTICAL:** Interchangeable bromobutyl membrane with a capacity of 8-20-24 litres. The latter also in the solution without membrane and with air supply. Pre-load 1.5 bar.

#### PRESSURE TANKS - Painted steel

Pressure tanks for water lifting systems, in painted steel, from 2 to 500 litres, with interchangeable membrane.

Painted carbon steel flange.

CE certified. Preload: 1.5 bar in models from 2 to 24 lt - 2.0 bar in models from 60 to 500 lt CE Certified.

### PRESSURE TANKS

| Type                            | Code No.           | Operating pressure max. | Alignment  | Membrane            | Feet bracket | Capacity | Weight    |
|---------------------------------|--------------------|-------------------------|------------|---------------------|--------------|----------|-----------|
| <b>Material:Stainless steel</b> |                    |                         |            |                     |              |          |           |
| VES INOX N 8                    | <b>ZA006450</b>    | 8 bar                   | vertical   | Bromobutyl          | No           | 8 l      | 2.40 kg   |
| VES INOX N 20                   | <b>ZA006460</b>    | 8 bar                   | vertical   | Bromobutyl          | No           | 20 l     | 3.30 kg   |
| VES INOX N 24                   | <b>ZA006570</b>    | 8 bar                   | vertical   | Bromobutyl          | No           | 24 l     | 5.00 kg   |
| VES INOX N 24 H                 | <b>ZA006470</b>    | 8 bar                   | horizontal | Bromobutyl          | Yes          | 24 l     | 4.20 kg   |
| VAA 24                          | <b>ZA006610</b>    | 8 bar                   | -          | -                   | No           | 24 l     | 4.20 kg   |
| <b>Material:Painted steel</b>   |                    |                         |            |                     |              |          |           |
| VES 2                           | <b>ZAM04200</b>    | 6 bar                   | -          | Rubber for food use | No           | 2 l      | 0.95 kg   |
| VES 24 V                        | <b>ZA000140</b>    | 6 bar                   | vertical   | Rubber for food use | No           | 24 l     | 4.10 kg   |
| VES 24 H                        | <b>ZA003850</b>    | 6 bar                   | horizontal | Rubber for food use | Yes          | 24 l     | 4.80 kg   |
| VEC 60 V                        | <b>ZA009070-CE</b> | 10 bar                  | vertical   | Butyl rubber        | Yes          | 60 l     | 17.50 kg  |
| VEC 100 V                       | <b>ZA009080-CE</b> | 10 bar                  | vertical   | Butyl rubber        | Yes          | 100 l    | 19.00 kg  |
| VEC 200 V                       | <b>ZA009090-CE</b> | 10 bar                  | vertical   | Butyl rubber        | Yes          | 200 l    | 37.00 kg  |
| VEC 300 V                       | <b>ZA009100-CE</b> | 10 bar                  | vertical   | Butyl rubber        | Yes          | 300 l    | 54.00 kg  |
| VEC 500 V                       | <b>ZA009110-CE</b> | 10 bar                  | vertical   | Butyl rubber        | Yes          | 500 l    | 104.00 kg |

# PRESSURE TANKS

## PRESSURE TANKS

Fig. 1

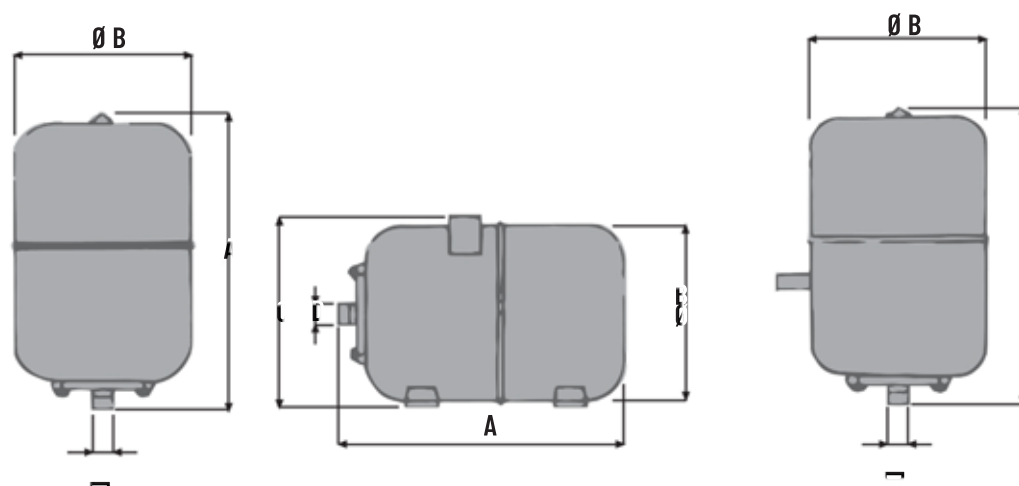
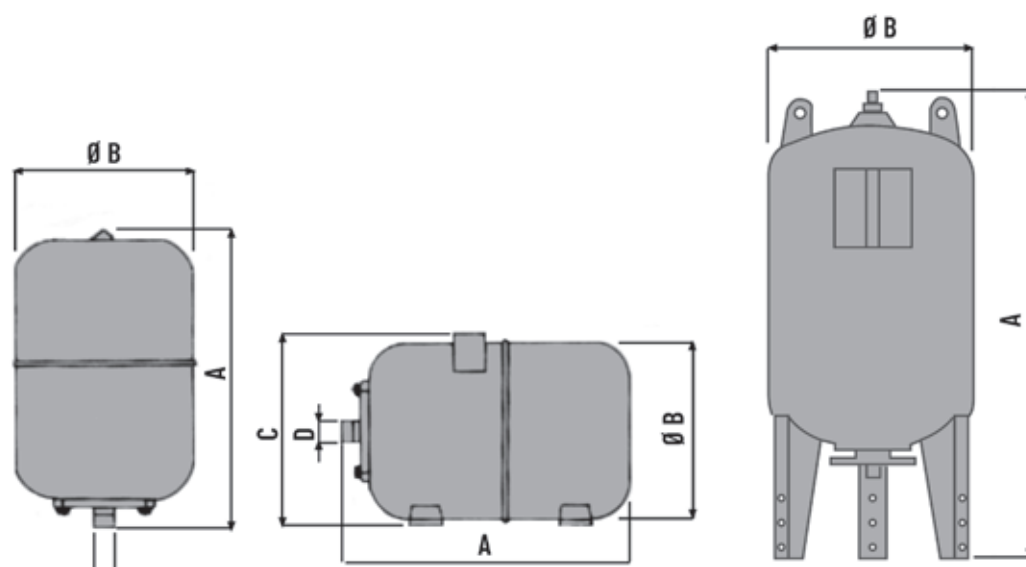


Fig. 2



# PRESSURE TANKS

## PRESSURE TANKS

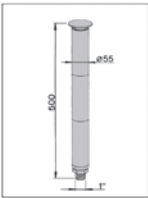
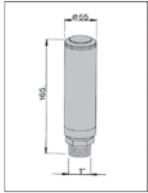
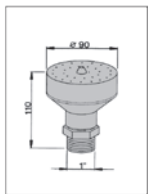
### DIMENSIONS [mm]

| Type            | Fig. | A    | B   | C   | D        |
|-----------------|------|------|-----|-----|----------|
| VES INOX N 8    | 1    | 280  | 226 |     | 1"       |
| VES INOX N 20   | 1    | 390  | 272 |     | 1"       |
| VES INOX N 24   | 1    | 430  | 272 |     | 1"       |
| VES INOX N 24 H | 1    | 430  | 272 | 330 | 1"       |
| VAA 24          | 1    | 430  | 272 | 443 | 1"       |
| VES 2           | 2    | 175  | 155 |     | 1" M     |
| VES 24 V        | 2    | 415  | 295 |     | 1" M     |
| VES 24 H        | 2    | 415  |     | 310 | 1" M     |
| VEC 60 V        | 2    | 845  | 382 |     | 1" M     |
| VEC 100 V       | 2    | 950  | 450 |     | 1" M     |
| VEC 200 V       | 2    | 1225 | 550 |     | 1 1/2" M |
| VEC 300 V       | 2    | 1405 | 630 |     | 1 1/2" M |
| VEC 500 V       | 2    | 1550 | 780 |     | 1 1/2" M |

## ACCESSORIES

|                                                                                     |                                                        |                        |                                      | Code No. |
|-------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------|--------------------------------------|----------|
|    | <b>Pressure switch</b>                                 |                        |                                      |          |
|                                                                                     | Pressure switch                                        | 6 ATM max.             | Italtecnica                          | ZA010840 |
|                                                                                     | Pressure switch                                        | 12 ATM max.            | Italtecnica                          | ZA006400 |
|                                                                                     | Pressure switch                                        | Reverse LP3            | 1/4" F Italtecnica                   | ZA009550 |
|                                                                                     | Pressure switch                                        | 6 ATM max.             | Telemecanique                        | ZA000630 |
|                                                                                     | Pressure switch                                        | 12 ATM max.            | Telemecanique                        | ZA000640 |
|    | <b>Pressure gauge</b>                                  |                        |                                      |          |
|                                                                                     | Pressure gauge                                         | radial connection      | 6 ATM                                | ZB902700 |
|                                                                                     | Pressure gauge                                         | rear radial connection | 6 ATM                                | ZB902150 |
|                                                                                     | Pressure gauge                                         | radial connection      | 10 ATM                               | ZB902690 |
|                                                                                     | Pressure gauge                                         | rear radial connection | 10 ATM                               | ZB902680 |
|   | <b>Microstart</b>                                      |                        |                                      |          |
|                                                                                     | MICROSTART 3-3 Emptying/Filling                        |                        | QES PLUS - AT                        | ZA000590 |
|                                                                                     | MICROSTART 15-3 Filling                                |                        | All panels that use external control | ZA010600 |
|                                                                                     | MICROSTART 5-2 Filling                                 |                        | All panels that use external control | ZA000650 |
|                                                                                     | MICROSTART 10-3 Emptying/Filling                       |                        | QES PLUS - AT                        | ZA008510 |
|  | <b>Hose</b>                                            |                        |                                      |          |
|                                                                                     | Hose                                                   | 1" x mm 500 M-F        |                                      | ZA000270 |
|                                                                                     | Hose                                                   | 1" x mm 600 M-F        |                                      | ZA003060 |
|                                                                                     | Hose                                                   | 1" x mm 700 M-F        |                                      | ZA003160 |
|                                                                                     | Hose                                                   | 1" x mm 800 M-F        |                                      | ZA003070 |
|                                                                                     | Hose                                                   | 1" 1/4 x mm 400 M-F    |                                      | ZA007430 |
|  | <b>Brass fitting</b>                                   |                        |                                      |          |
|                                                                                     | Brass fitting                                          | A 3 ways 1"            |                                      | ZA000240 |
|                                                                                     | Brass fitting                                          | A 5 ways 1"            |                                      | ZA010490 |
|  | <b>Membrane</b>                                        |                        |                                      |          |
|                                                                                     | Bromobutyl membrane for stainless steel pressure tanks |                        |                                      | ZA006380 |
|                                                                                     | Rubber membrane for 2 litre pressure tank              |                        |                                      | ZA003050 |
|                                                                                     | Rubber membrane for 24 litre pressure tank             |                        |                                      | ZA010200 |
|                                                                                     | Butyl membrane for 60 litre pressure tank              |                        |                                      | ZA009190 |
|                                                                                     | Butyl membrane for 100 litre pressure tank             |                        |                                      | ZA009200 |
|                                                                                     | Butyl membrane for 200 litre pressure tank             |                        |                                      | ZA009210 |
|                                                                                     | Butyl membrane for 300 litre pressure tank             |                        |                                      | ZA009220 |
|  | <b>Intake kit</b>                                      |                        |                                      |          |
|                                                                                     | Intake kit                                             | 4 m 1"                 | with bottom valve                    | ZA004520 |
|                                                                                     | Intake kit                                             | 7 m 1"                 | with bottom valve                    | ZA007110 |
|                                                                                     | Male fitting                                           | 1"                     | for intake kit                       | ZA004080 |
|  | <b>Valve</b>                                           |                        |                                      |          |
|                                                                                     | Plastic bottom valve                                   | 1"                     |                                      | ZA000020 |
|                                                                                     | Brass bottom valve                                     | 1"                     | with stainless steel filter          | ZA003000 |
|                                                                                     | Brass bottom valve                                     | 1" 1/4                 | with stainless steel filter          | ZA003190 |
|                                                                                     | Brass bottom valve                                     | 1" 1/2                 | with stainless steel filter          | ZA003200 |
|                                                                                     | Brass bottom valve                                     | 2"                     | with stainless steel filter          | ZA003210 |
|                                                                                     | Brass non-return valve                                 | 1"                     |                                      | ZA002020 |
|                                                                                     | Brass non-return valve                                 | 1" 1/4                 |                                      | ZA003220 |
|                                                                                     | Brass non-return valve                                 | 1" 1/2                 |                                      | ZA003230 |

ACCESSORIES

|                                                                                   |                                                                                         | Code No. |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------|
|  | <b>Accessori Versailles</b><br><br>Bell: water game in the shape of a bell, adjustable. | ZB401710 |
|  | Geyser: water game with one adjustable bubbling jet of water.                           | ZB401700 |
|  | Vulcano: water game with water jets at three levels.                                    | ZB401690 |

## GENERAL SALES CONDITIONS - EN

### I. Definitions

**"Conditions"** means the standard terms and conditions of sale set out in this document and (unless the context otherwise requires) includes any special terms and conditions agreed in writing between the Purchaser and Pentair, and **"Contract Terms"** has the same meaning.

**"Confidential Information"** means any information that is treated as confidential by either party, including trade secrets, technology, information pertaining to business operations and strategies, and information pertaining to customers, pricing and marketing.

**"Contract"** means the contract for the purchase and sale of the Goods and **"Agreement"** has the same meaning.

**"Goods"** means the goods and/or services which Pentair is to supply in accordance with these Conditions.

**"Parties"** means Pentair and Purchaser.

**"Pentair"** means the party who will sell and supply the Goods to the Purchaser in accordance with these Conditions.

**"Purchaser"** means the party whose order for the Goods is accepted by Pentair in accordance with these Conditions.

### II. General

All business transactions between the Parties are governed by these Contract Terms, unless special written agreements are entered into before order confirmation in individual cases. The terms and conditions of the Purchaser are not binding upon Pentair, unless agreed to by Pentair in writing and before order confirmation.

### III. Conclusion of Contract

1. Pentair's offers are limited to those Goods explicitly listed in the offer and strictly exclude any building, assembly or installation work not mentioned, including installation material or site work. Consultation or offers are free of charge and to the best of the Pentair's knowledge, but non-binding. All documentation accompanying offers remains Pentair's property. Documentation may not be copied or disclosed to third parties without Pentair's permission and shall, on request, be returned without delay.

2. No order or variation shall be binding on Pentair unless and until accepted in writing by Pentair, and only then shall it constitute the Contract. No agent or other representative of Pentair has any authority from Pentair to make or vary any agreement on behalf of Pentair, unless subsequently notified by Pentair in writing. Every order or variation accepted by Pentair includes only such Goods as are expressly specified or incorporated in Pentair's written acceptance.

4. Pentair may, from time to time, agree to build products to Purchaser's specifications. In such a case Purchaser shall always be responsible for all expenses incurred by Pentair to comply with Purchaser's specification, such as, but not limited to expenses incurred for tooling (jigs, dies, tools, molds and patterns), expenses related to ordering of raw materials, components or other parts and any other commitments entered into by Purchaser, even during the preparatory phase when no firm Contract is in place. Purchaser shall at all times be obliged to purchase and pay for all customized products that are produced by Pentair. Unless otherwise agreed in writing, any equipment (including, but not limited to jigs, dies, tools, molds and patterns) made for the manufacture of customer specified products shall be, and remain, the sole property of Pentair, notwithstanding that Purchaser may have been charged for all or part of the cost therefore.

5. No price list, quotation, estimate or tender issued by Pentair shall constitute an offer to sell the Goods. Any order placed by the Purchaser in response to such a price list, quotation, estimate or tender shall constitute an offer made to Pentair in accordance with the Contract Terms and shall only be binding on Pentair if it is accepted by Pentair in writing and shall then constitute the Contract. Without limiting the foregoing, Pentair reserves the right at any time before a binding Contract has been entered to alter its price. This right includes the right to alter any published price or price list prices without prior notice.

6. Orders received and accepted by Pentair shall not be subject to cancellation without Pentair's consent, and cancellation of any Contract to which the Purchaser is a party will not constitute sufficient reason for cancellation of any order placed by the Purchaser.

### IV. Delivery and Time for Delivery

1 All delivery times given in written offers or mentioned elsewhere are approximate only and therefore non-binding. The delivery period starts on the day the order is confirmed or when the Purchaser takes cooperative actions which may be required (e.g. payment of an agreed advance payment). The period is interrupted should a payment not be made on time, as agreed, or should the Purchaser not provide outstanding data or specifications needed for the design of the apparatus or plant at the agreed time. The period starts again as soon as Pentair receives the overdue payment or the delayed technical data are transmitted. Non-compliance with the delivery time does not entitle the Purchaser to damages (liquidated or otherwise) or any other form of compensation, nor release the Purchaser from the order.

2 Unforeseen impediments for which Pentair cannot be held responsible irrespective whether they arise in Pentair's own factory or at a sub-supplier, such as: force majeure events, mobilization, war or other delays for which Pentair cannot be held responsible, such as production faults, general material procurement problems, operational faults, transport delays and similar circumstances preventing on schedule performance at the agreed price, are justified reasons for us to cancel the delivery obligations, fully or in part, or to extend the delivery period by the duration of the obstructions. The Purchaser may withdraw from the Contract should relevant faults lead to a delay in performance of more than 12 months. Other rights of withdrawal shall remain unaffected thereby.

### V. Prices

Unless otherwise stated in these Contract Terms, the Contract price of the Goods is FCA, Pentair's warehouse or factory (Incoterms 2020) and is deemed to exclude VAT and other taxes, which shall be charged at the rate applicable at the date of the invoice.



## **VI. Terms of payment**

So far as the law permits, where Pentair has not agreed to provide credit to the Purchaser, the Contract price must be paid before dispatch of Goods. Where Pentair has agreed to provide credit, the Contract price must be paid in accordance with the agreed credit terms or otherwise within thirty (30) days of the date of invoice. Interest will be payable on any sums outstanding after the due date, at the rate of 1.5% per month. Pentair will only accept payments from the Purchaser itself and will not accept (and may return) any payments received from any other parties (including affiliates of the Purchaser).

## **VII. Retention of title**

1. Goods delivered by Pentair remain in Pentair's ownership until all payments due under the Contract have been received.
2. To the extent that ownership of goods is transferred to third parties by incorporation into property and the like, the Purchaser shall cede its claims against such parties to Pentair, as collateral for Pentair's claim, until the latter has been fully settled. With current accounts, the reserved property shall serve as collateral for Pentair's balance claim.

## **VIII. Intellectual Property Infringement**

Pentair will defend Purchaser to the extent of any rightful claim that any Goods furnished under the Contract infringe upon any intellectual property rights, and Pentair will pay all direct damages and costs awarded by a court of competent jurisdiction with respect to such claim. The Purchaser or user must promptly notify Pentair of any such claim, and cooperate fully with Pentair in the defence of such claim, or Pentair will have no duty under this paragraph.

## **IX. Shipment**

Unless the Parties otherwise expressly agree in writing, the following provisions apply: Shipment is always at the risk of the Purchaser. Pentair accepts liability for shipment-related damages only in the event that it carried out the delivery itself and if such damage was caused by at least gross negligence on its side. Pentair shall provide reasonable support to the Purchaser in asserting its claims for compensation against the carrier if shipment was handled by a third party. Such claims should initially be against the carrier (railways, post office, freight forwarder). Replacements are provided only on the basis of a new order at currently valid prices. Any deviations in the delivery note or the invoice as well as transport damage should be reported to us in writing immediately, no later than within 3 days of receipt of the Goods.

## **X. Confidentiality**

Pentair and the Purchaser shall maintain any Confidential Information in strict confidence and shall not disclose the same to any third party or use Confidential Information except for the performance of the Contract and proper and lawful use by the Purchaser (or an affiliate of the Purchaser) of the work or Goods for tenders, sale, manufacture, erection, commissioning and/or servicing of equipment. Nothing contained herein shall preclude the Purchaser from: (a) sharing any or all of the Confidential Information with any of its affiliates or (b) disclosing Confidential Information received from Pentair as part of any work or Goods to the user or their respective employees, directors, agents and/or advisors, to the extent necessary for the performance of the work and provided that they are similarly bound by undertakings of confidence, restricted use and non-disclosure. Further, nothing contained herein shall prevent disclosure of Confidential Information: (a) with a view to complying with the requirements of any applicable law and/or an order of the court or arbitral tribunal or (b) to the extent necessary to resolve a claim or dispute, or to the extent necessary for the Purchaser to resolve a claim or dispute with third parties and/or insurance claims, provided always that the Party so required to disclose any such Confidential Information of the other Party, timely informs and consults the other Party and takes all reasonable steps to minimize the extent of the Confidential Information disclosed and to make such disclosure in confidence.

## **XI. Liability**

1. Notwithstanding anything to the contrary, Pentair's cumulative liability howsoever arising, including under this Contract (including, without limitation, all the obligations related to the schedule and scope of work and deliveries of Goods, warranties and indemnifications, both express and implied, arising from the Contract), in tort (including negligence) or under statute will not exceed the relevant purchase price payable to Pentair under the Contract.
2. Notwithstanding any other provision to the contrary, so far as the law permits, Pentair shall not be liable under this Contract, in contract, under any indemnity, tort (including negligence), by statute or otherwise for loss or damage (whether direct or indirect) of profits, revenues, use, production, contracts, corruption or destruction of data or for any indirect, special or consequential loss or damage whatsoever.

## **XII. Compliance with Law**

1. In performing this Contract, the Purchaser shall comply with all applicable laws, trade embargos, regulations, orders and other restrictions and without limiting the generality of the foregoing, do the following: (a) the Purchaser shall comply with the various national and local laws and regulations concerning occupational health, safety and pollution affected by the use, installation and operation of the Goods and other matters over which Pentair has no control, and (b) Pentair assumes no responsibility for compliance with those laws and regulations, whether by way of indemnity, warranty or otherwise.
2. Unless otherwise expressly agreed in writing, the Purchaser shall ensure and procure that it has all licenses, consents, approvals, permissions and authorizations ("**Licenses**") required in respects of the Goods.
3. Notwithstanding any provision in these Conditions to the contrary, Purchaser acknowledges to have understood Pentair's position of no transactions with Cuba, Iran, North Korea, Syria, and the disputed regions of Crimea, Donetsk and Luhansk ("**Pentair's Position**"), and confirms that it will comply with Pentair's Position on any transactions involving the Goods.
4. Purchaser agrees not to sell, export or transfer any Goods (including, without limitation, any technical information or services supplied) to any other countries except in full compliance with all applicable governmental requirements, including but not limited to applicable US export, US re-export legislation, and measures administered by the United Kingdom, the European Union and its Member States, or the government agencies of any other countries. Any violation by the Purchaser or the end customer, of the applicable laws or regulations of the US or any other government, or where the Purchaser breaches Pentair's Position, notwithstanding whether or not

this is contrary to any aforementioned applicable laws or regulations, shall be deemed a material breach of this Contract and sufficient basis for Pentair to reject any or all orders or to terminate this Contract. Compliance with applicable legal requirements and Pentair's Position is a prerequisite for Pentair to perform its obligations under this Contract, and if the Purchaser fails to comply with such legal requirements, then the Purchaser is incapable of meeting its obligations with Pentair and therefore is in breach of this Contract.

5. The Parties intend that no payments or transfers of value shall be made which have the purpose or effect of public or commercial bribery, acceptance of or acquiescence in extortion or kickbacks or other unlawful or improper means of obtaining business. The Parties will not, directly or indirectly, pay, offer, authorize or promise any monies or anything of value (such as gifts, contributions, travel, or entertainment) to any person or organization, including any employee of Pentair or Pentair's customers, or any government official (which includes any employee or official of any governmental authority, government owned or controlled entity, public international organization or political party or any candidate for political office) for the purpose of influencing their acts or decisions. Purchaser will take appropriate actions to ensure that any person representing or acting under its instruction or control will also comply with this clause. Purchaser will not request that Pentair takes any action which is prohibited or penalized under any anti-boycott law or regulation and any such request will be deemed null and void. Nothing in this clause or in any such request will be construed to require an agreement by Pentair to take action which is prohibited or penalized under any anti-boycott law or regulation. Without limitation, Pentair will not be required under any circumstances to take any action or make payments that Pentair believes, in good faith, would cause it or its affiliated companies to be in violation of any Anti-Corruption Laws (Anti-Corruption Laws include, collectively, the UK Bribery Act 2010, laws under the OECD Anti-Bribery Convention, the United States Foreign Corrupt Practices Act and local anti-corruption laws).

6. Except as disclosed in writing to Pentair, the Purchaser represents that it does not believe or have any reason to believe that there are any actual or potential conflicts of interest regarding its relationship with Pentair, including family members who could benefit from the commercial relationship between the Purchaser and Pentair. Neither Pentair nor any of its representatives are or have any family members who are government officials in a position to influence the Purchaser's commercial relationship with Pentair.

7. The Purchaser will maintain complete and accurate books and records in accordance with generally accepted accounting principles in Purchaser's jurisdiction, consistently applied, properly and accurately recording any and all transactions involving or in any way related to Pentair. The Purchaser will maintain a system of internal accounting controls reasonably designed to ensure that its assets are used only in accordance with its management directives and that it maintains no off-the-book accounts.

8. If at any time Pentair believes in good faith that the Purchaser has breached the warranties, representations or agreements in this section XII, Pentair has the right to select an independent third party to conduct an audit at Pentair's expense, to verify the Purchaser's adherence to the terms in this section. The Purchaser will fully cooperate in such audit.

9. The Purchaser will notify Pentair promptly if: (a) the Purchaser has reason to believe that a breach of this Agreement (including, without limitation, this section XII) has occurred or is likely to occur; or (b) if any conflicts of interest arise. Purchaser will send all such notices to [ethics@pentair.com](mailto:ethics@pentair.com).

10. Any breach of the warranties, representations or agreements of this section XII will constitute a material breach of this Agreement and be grounds for immediate termination for cause of any order and Pentair may withhold any delivery of Goods until such time that Pentair has received confirmation to its reasonable satisfaction that no breach has occurred or will occur. Purchaser will indemnify and hold Pentair harmless against any actions, legal claims, demands, proceedings, losses, damages, costs, expenses and other liabilities of whatever nature resulting from Purchaser's breach of the representations, warranties and agreements contained in this section XII. Without limitation, Pentair expressly reserves the right to refuse to enter into or perform any order, and to cancel any order, if Pentair in its sole discretion determines that such order could violate any applicable law or regulation of the United States, or any other governments. The parties agree that any such refusal or cancellation of any order, or termination of this Agreement by Pentair, as described above, will not constitute a breach of any of Pentair's obligations under this Agreement, and the Purchaser hereby waives any and all claims against Pentair for any loss, cost or expense related thereto.

### **XIII. Relationship Data & Privacy**

Pentair may collect, process and transfer certain personal data in managing its business relationship with Purchaser, such as the names and contact details of Purchaser's personnel involved in the Contract or involved in maintaining or managing Purchaser's use of the Goods. Pentair will handle such personal data in accordance with Pentair's Privacy Notice, which is available at: <https://www.pentair.com/en/privacy-notice.html> Purchaser will provide any necessary notice to and obtain any legally-required consent from its personnel, or affiliates for Pentair's use of their personal data.

### **XIV. Applicable law and jurisdiction**

Unless otherwise mutually agreed, the terms of this Contract shall be interpreted and enforced according to the national law applicable in the country where Pentair is incorporated, excluding principles of conflict of laws and the Convention on Contracts for the International Sale of Goods. Any disputes which may arise from these Conditions and/or the Contract shall be submitted solely to the competent Court of the city where Pentair has its registered office.

### **XV. Miscellaneous**

1. Pentair's warranty terms and conditions (if any) applicable to this contract will be detailed in a separate written document. To the extent permitted by law, those separate, written Warranty Terms & Conditions will be the sole warranty of Pentair and Pentair hereby expressly disclaims and Purchaser waives all other warranties expressed, implied in law or implied in fact, including any warranties of merchantability or fitness for a particular purpose.

2. Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing addressed to that other party at its registered office or principal place of business or such other address as, at the relevant time, has been notified to the party giving the notice.

3. No waiver by Pentair of any breach of the Contract by the Purchaser shall be considered as a waiver of any subsequent breach of the same or any other provision.

4. If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part, the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

## WARRANTY TERMS & CONDITIONS

Pentair warrants the Goods (and any component parts) against defects in materials and workmanship under normal use and service for the period set forth in the Warranty Table below. If the Goods do not appear on the Warranty Table, the warranty period is one (1) year.

All the warranty periods indicated below start:

- a) In the case of being managed through a Pentair-authorized after-sales centre, from the date of the sales receipt given to the end customer
- b) From the date of the invoice to Pentair's direct customers in all other cases

| Goods/Brand          | Warranty Period: |
|----------------------|------------------|
| STA-RITE pumps       | 2 years          |
| STA-RITE accessories | 2 years          |

In these Warranty Terms & Conditions:

**"Conditions"** means these warranty terms and conditions, as set out in this document and (unless the context otherwise requires) includes any special warranty terms and conditions separately agreed in writing between the Purchaser and Pentair.

**"Goods"** means the goods which Pentair has supplied to the Purchaser and to which these Conditions are intended to apply.

**"Pentair"** means the party who has sold and supplied the Goods to which these Conditions apply.

**"Purchaser"** means the party who has purchased the Goods to which these Conditions apply.

The following additional terms apply to these Conditions:

1. Pentair does not warrant accessories or components that are not manufactured by Pentair. This includes any service parts used that are manufactured by other companies, including but not limited to, motors, pistons, seal kits, spacer kits, bypass valves, brine connections & devices, or any other non-Pentair parts. Such items may carry warranties offered by the original manufacturers and, to the extent possible, Pentair will, if expressly requested in writing to do so by the Purchaser, assign to Purchaser its rights under the original manufacturer's warranty, without recourse to Pentair.
2. Purchaser must give Pentair notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the serial number, the type of Goods, and the date of purchase) within thirty (30) days of the discovery of such defect and in any event during the warranty period. No claim made after the expiration of the warranty period shall be valid.
3. This warranty is based on the use of original equipment manufacturer (OEM) replacement parts. Pentair assumes no responsibility or liability if alterations, non-authorized design modifications and/or non-OEM replacement parts are incorporated. If requested by Pentair, any Goods (or its component parts) must be promptly returned to Pentair prior to any attempted repair, or sent to an authorized service station designated by Pentair, and Purchaser shall prepay all shipping expenses. Pentair shall not be liable for any loss or damage to Goods in transit, nor will any warranty claim be valid unless the returned Goods are received intact and undamaged as a result of shipment. Repaired or replaced material returned to customer will be shipped FCA (Incoterms 2020), Pentair's warehouse or factory. Pentair will not give Purchaser credit for parts or Goods returned to Pentair, and will not accept delivery of any such parts or Goods, unless Purchaser has obtained Pentair's approval in writing. Unless otherwise stated in the Warranty Table, this warranty extends to repaired or replaced parts of Pentair's manufacture for six (6) months or for the remainder of the original warranty period applicable to the Goods or parts being repaired or replaced, whichever is greater.
4. If multiple problems occur which are related to each other, the warranty period of the root cause will be taken as the warranty period for all affected components.
5. Pentair may substitute new Goods or improve part(s) of any Goods judged defective without further liability. All repairs or services performed by Pentair, which are not covered by this warranty, will be charged in accordance with Pentair's standard prices then in effect.
6. Under the terms of this warranty, Pentair shall not be liable for: (a) consequential, incidental, collateral, special or liquidated losses or damages; (b) defects caused by normal wear and tear, abnormal conditions of use, failure to maintain, clean, use or operate as per Pentair's product manual or other written guidelines (including, but not limited to applicable codes and ordinances), accident, neglect, abuse or misuse of the Goods; (c) the expense of, and loss or damage caused by, repairs or alterations made by anyone other than

Pentair; (d) damage caused by failure to maintain water conditions or water chemistry, by water freezing, membrane fouling or scaling, debris build-up, abrasive materials, chemicals, gases, liquids, scale deposits, corrosion, lightning, improper voltage, mishandling, or other similar conditions; (e) damage due to hydro-pneumatic or pneumatic use; (f) damage caused by friction, wear, chemical attack, or debris build-up on wear parts ("wear parts" include, but are not limited to: pistons, piston rods, seals, spacers, end cap quad rings, and parts requiring replacement under recommended maintenance procedures, such as filter housing O-rings and gaskets); (g) any loss, damage, or expense relating to or resulting from installation, removal or reinstallation of Goods; (h) any labor costs or charges incurred in repairing or replacing defective Goods or parts, including the cost of reinstalling parts that are repaired or replaced by Pentair; (i) any expense of shipment of Goods or repaired or replacement parts; or (j) any other loss, damage or expense of any nature, including, without limitation, accidental damage, fire, acts of God, or other circumstances outside Pentair's control.

7. TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY IS THE SOLE WARRANTY OF PENTAIR AND PENTAIR HEREBY



EXPRESSLY DISCLAIMS AND PURCHASER WAIVES ALL OTHER WARRANTIES EXPRESSED, IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PENTAIR'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE, AT ITS OPTION, TO REPAIR OR REPLACE ANY GOODS (OR ITS COMPONENT PARTS) WHICH HAS A DEFECT COVERED BY THIS WARRANTY, OR TO REFUND THE PURCHASE PRICE OF SUCH GOODS OR PART.





**Pentair Water Italy | Via Masaccio | 13 56010 LUGNANO (PI) | ITALY |**

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