

-  Clean water
-  Domestic use
-  Civil use



PERFORMANCE RANGE

- Flow rate up to **160 l/min** (9.6 m³/h)
- Head up to **56 m**

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure:
 - **6 bar** for CP 100-130-132-150-158
 - **10 bar** for CP 170-190-200
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



EU REGULATION N. 547/2012

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT AND SAFETY




INSTALLATION AND USE

Suitable for use with clean water and with liquids that are not chemically aggressive towards the materials from which the pump is made. Because they are reliable and easy to use these pumps are widely used in domestic and civil applications such as the distribution of water in combination with small and medium sized pressure tanks, for transferring liquids and for the irrigation of gardens and orchards.

The pump should be installed in an enclosed environment or sheltered from inclement weather.

PATENTS - TRADE MARKS - MODELS

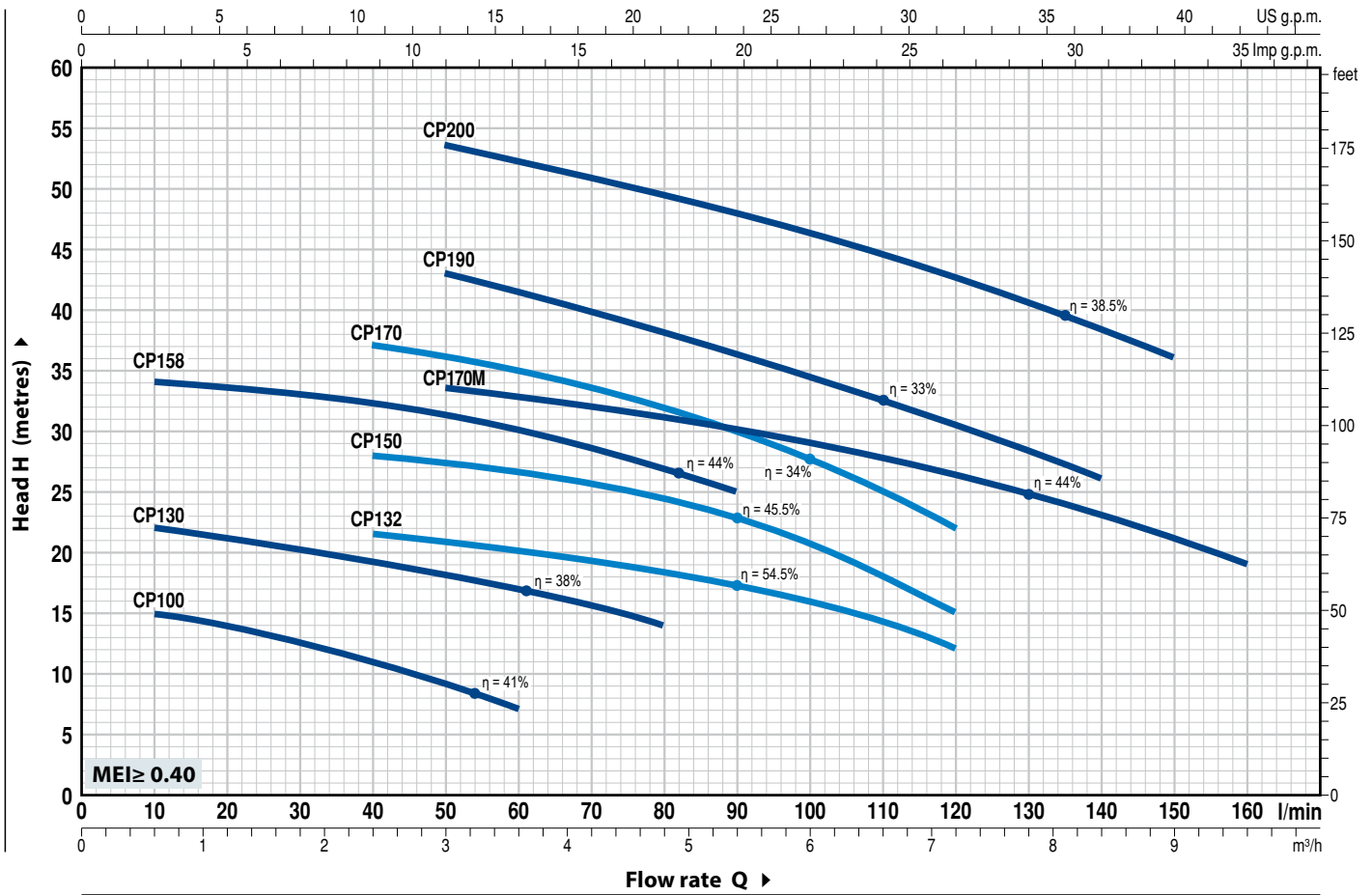
- Registered Trade Mark n. 0001516350 CPm158 
- Registered EU Design n. 002098434

OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal
- Other voltages or 60 Hz frequency
- IP X5 class protection for CP 170, CP 170M

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm HS= 0 m



| MODEL | | POWER (P ₂) | | ▲ | Q | Flow rate | | | | | | | | | | | | | | | | | | |
|--------------|-------------|-------------------------|------|-----|----------|-------------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|--|
| Single-phase | Three-phase | kW | HP | | | m ³ /h | 0 | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 5.4 | 6.0 | 6.6 | 7.2 | 7.8 | 8.4 | 9.0 | 9.6 | |
| | | | | | l/min | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | | |
| CPm 100 | CP 100 | 0.25 | 0.33 | IE2 | H metres | 16 | 15 | 14 | 12.5 | 11 | 9 | 7 | | | | | | | | | | | | |
| CPm 130 | CP 130 | 0.37 | 0.50 | | | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 15.5 | 14 | | | | | | | | | | |
| CPm 132 | CP 132 | 0.55 | 0.75 | | | 23 | - | 22.5 | 22 | 21.5 | 21 | 20.5 | 19.5 | 18.5 | 17.5 | 16 | 14 | 12 | | | | | | |
| CPm 150 | CP 150 | 0.75 | 1 | | | 29.5 | - | 29 | 28.5 | 28 | 27.5 | 26.5 | 26 | 24.5 | 23 | 21 | 18 | 15 | | | | | | |
| CPm 158 | CP 158 | 0.75 | 1 | | | 36 | 34 | 33.5 | 33 | 32.5 | 31.5 | 30 | 28.5 | 27 | 25 | | | | | | | | | |
| CPm 170 | CP 170 | 1.1 | 1.5 | | | 41 | - | - | 38 | 37 | 36 | 35 | 33.5 | 32 | 30 | 27.5 | 25 | 22 | | | | | | |
| CPm 170M | CP 170M | 1.1 | 1.5 | | | 36 | - | - | 35 | 34.5 | 33.5 | 33 | 32 | 31 | 30 | 29 | 28 | 26.5 | 25 | 23 | 21 | 19 | | |
| CPm 190 | CP 190 | 1.5 | 2 | IE3 | H metres | 48 | - | - | 46 | 44.5 | 43 | 41.5 | 40 | 38 | 36 | 34.5 | 32.5 | 30.5 | 28 | 26 | | | | |
| - | CP 200 | 2.2 | 3 | | | 56 | - | - | 55 | 54.5 | 53.5 | 52 | 51 | 49.5 | 48 | 46 | 44.5 | 42.5 | 40.5 | 38.5 | 36 | | | |

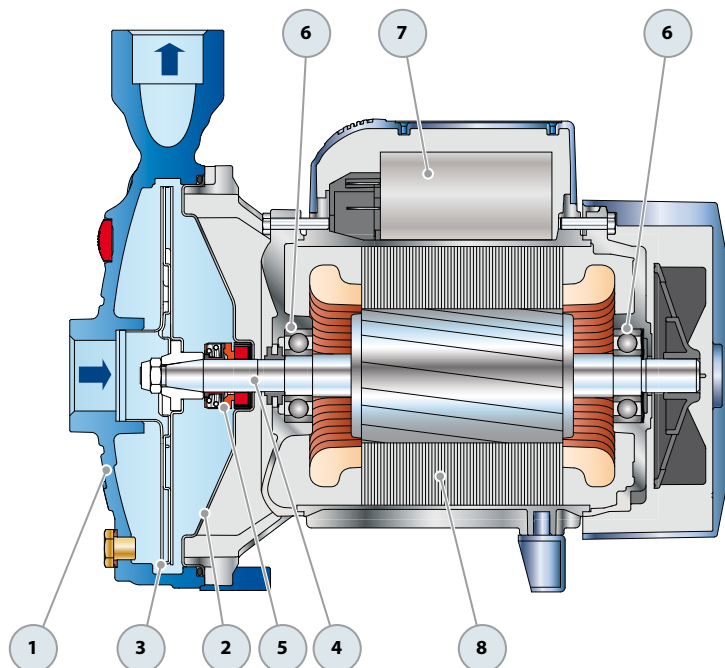
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

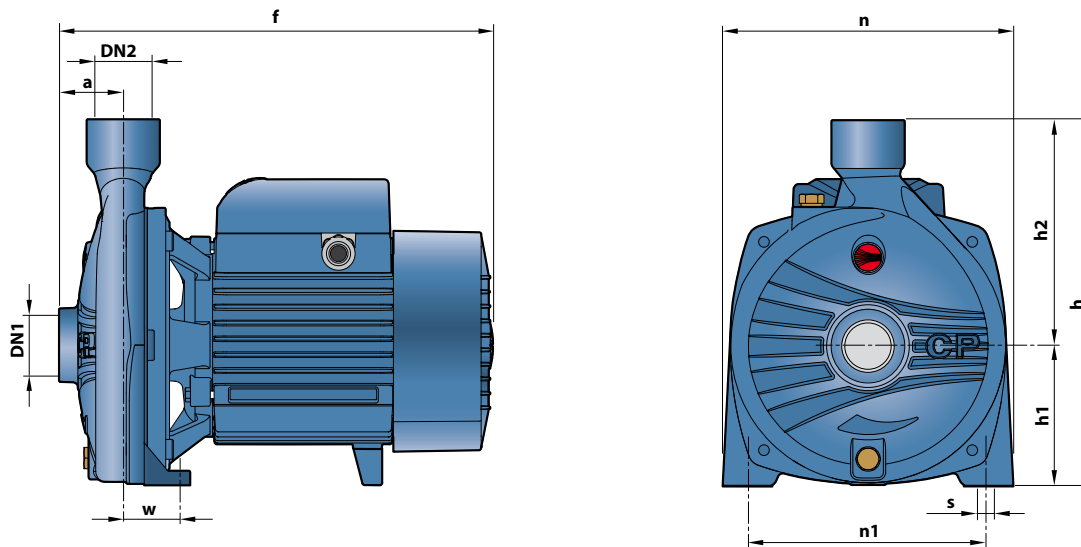
▲ Performance class of the three-phase motor (IEC-60034-30)

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

| | | | | | | |
|--------------------------|--|--------------------------|-----------------------|------------------------|------------------------|------------------|
| 1 PUMP BODY | Cast iron with an Epoxy Electro Coating treatment, with threaded ports in compliance with ISO 228/1 | | | | | |
| 2 BODY BACKPLATE | Stainless steel AISI 304 (cast iron for CP 170-170M-190-200) | | | | | |
| 3 IMPELLER | Stainless steel AISI 304 | | | | | |
| 4 MOTOR SHAFT | Stainless steel EN 10088-3 - 1.4104 | | | | | |
| 5 MECHANICAL SEAL | Pump | Seal | Shaft | Materials | | |
| | <i>Model</i> | <i>Model</i> | <i>Diameter</i> | <i>Stationary ring</i> | <i>Rotational ring</i> | <i>Elastomer</i> |
| | CP 100-130-132 | AR-12 | Ø 12 mm | Ceramic | Graphite | NBR |
| | CP 150-158 | AR-14 | Ø 14 mm | Ceramic | Graphite | NBR |
| | CP 170-170M-190-200 | FN-18 | Ø 18 mm | Graphite | Ceramic | NBR |
| 6 BEARINGS | Pump | Model | | | | |
| | CP 100-130-132 | 6201 ZZ / 6201 ZZ | | | | |
| | CP 150-158 | 6203 ZZ / 6203 ZZ | | | | |
| | CP 170-170M | 6204 ZZ / 6204 ZZ | | | | |
| | CP 190-200 | 6304 ZZ / 6204 ZZ | | | | |
| 7 CAPACITOR | Pump | Capacitance | | | | |
| | <i>Single-phase</i> | <i>(230 V or 240 V)</i> | | <i>(110 V)</i> | | |
| | CPm 100 | 10 µF - 450 VL | 25 µF - 250 VL | | | |
| | CPm 130 | 10 µF - 450 VL | 25 µF - 250 VL | | | |
| | CPm 132 | 14 µF - 450 VL | 25 µF - 250 VL | | | |
| | CPm 150-158 | 20 µF - 450 VL | 60 µF - 300 VL | | | |
| | CPm 170-170M | 25 µF - 450 VL | 60 µF - 250 VL | | | |
| | CPm 190 | 45 µF - 450 VL | 80 µF - 250 VL | | | |
| 8 ELECTRIC MOTOR | CPm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding. | | | | | |
| | CP: three-phase 230/400 V - 50 Hz. | | | | | |
| | <p>⇒ The three-phase pumps are fitted with high performance motors up to P2=1.1kW in class IE2 and from P2=1.5kW in class IE3 (IEC 60034-30)</p> <ul style="list-style-type: none"> - Insulation: class F - Protection: IP X4 | | | | | |



DIMENSIONS AND WEIGHT



| MODEL | | PORTS | | DIMENSIONS mm | | | | | | | | | kg | | |
|----------------|---------------|--------|-----|---------------|------|-----|-----|-----|------|-----|------|----|------|------|--|
| Single-phase | Three-phase | DN1 | DN2 | a | f | h | h1 | h2 | n | n1 | w | s | 1~ | 3~ | |
| CPm 100 | CP 100 | 1" | 1" | 42 | 253 | 205 | 82 | 123 | 165 | 135 | 41 | 10 | 7.1 | 7.1 | |
| CPm 130 | CP 130 | | | | | | | | | | | | 7.8 | 7.3 | |
| CPm 132 | CP 132 | | | | | | | | | | | | 8.7 | 8.2 | |
| CPm 150 | CP 150 | | | 12.4 | 11.4 | | | | | | | | | | |
| CPm 158 | CP 158 | | | 12.0 | 11.0 | | | | | | | | | | |
| CPm 170 - 170M | CP 170 - 170M | 1 1/4" | 1" | 51 | 367 | 260 | 110 | 150 | 206 | 165 | 44.5 | 11 | 17.8 | 17.2 | |
| CPm 190 | CP 190 | | | | | | | | | | | | 21.3 | 20.3 | |
| - | CP 200 | | | | | | | | | | | | - | 21.5 | |
| | | 48 | 364 | 290 | 115 | 175 | 242 | 206 | 36.5 | | | | | | |

ABSORPTION

| MODEL | VOLTAGE | | |
|----------------|---------|--------|--------|
| Single-phase | 230 V | 240 V | 110 V |
| CPm 100 | 1.9 A | 1.55 A | 3.3 A |
| CPm 130 | 3.2 A | 2.9 A | 6.4 A |
| CPm 132 | 3.9 A | 3.7 A | 7.0 A |
| CPm 150 | 5.7 A | 5.4 A | 11.4 A |
| CPm 158 | 6.0 A | 5.8 A | 12.0 A |
| CPm 170 - 170M | 7.8 A | 7.2 A | 16.0 A |
| CPm 190 | 11.0 A | 10.0 A | 22.0 A |

| MODEL | VOLTAGE | | | |
|---------------|---------|-------|-------|-------|
| Three-phase | 230 V | 400 V | 240 V | 415 V |
| CP 100 | 1.7 A | 1.0 A | 1.6 A | 0.9 A |
| CP 130 | 2.0 A | 1.2 A | 1.8 A | 1.1 A |
| CP 132 | 2.4 A | 1.4 A | 2.3 A | 1.3 A |
| CP 150 | 4.2 A | 2.4 A | 4.1 A | 2.3 A |
| CP 158 | 4.4 A | 2.5 A | 4.3 A | 2.4 A |
| CP 170 - 170M | 5.2 A | 3.0 A | 5.1 A | 2.9 A |
| CP 190 | 7.5 A | 4.3 A | 7.3 A | 4.2 A |
| CP 200 | 9.3 A | 5.4 A | 9.0 A | 5.2 A |

PALLETIZATION

| MODEL | | GROUPAGE | CONTAINER |
|--------------|-------------|----------|-----------|
| Single-phase | Three-phase | n. pumps | n. pumps |
| CPm 100 | CP 100 | 90 | 162 |
| CPm 130 | CP 130 | 90 | 162 |
| CPm 132 | CP 132 | 90 | 162 |
| CPm 150 | CP 150 | 70 | 112 |
| CPm 158 | CP 158 | 70 | 112 |
| CPm 170 | CP 170 | 50 | 70 |
| CPm 170M | CP 170M | 50 | 70 |
| CPm 190 | CP 190 | 36 | 54 |
| - | CP 200 | 36 | 54 |