

NEW

PEDROLLO[®]
... the spring of life



4BLOCK

4" monoblock submerged pumps

PERFORMANCE RANGE

Flow rate up to **150 l/min (9 m³/h)**
Head up to **128 m**

LIMITS OF USE

Liquid temperature up to **+35°C**
Maximum sand content **150 g/m³**
Submersion depth up to **40 m**

CONSTRUCTION AND SAFETY STANDARDS

EN 60 335-1
IEC 335-1
CEI 61-150

EN 60034-1
IEC 34-1
CEI 2-3



INSTALLATION AND USE

They are recommended for pumping clean water with a sand content of up to 150 g/m³.
Due to their high efficiency and reliability, they are recommended for use in domestic water supplies as part of a pressure set, or for irrigation.

TWO-YEAR WARRANTY in accordance with our General Terms of Sale.

CONSTRUCTION CHARACTERISTICS

- **DELIVERY BODY:** stainless steel AISI 304 with threaded port ISO 228-1.
- **CASE:** stainless steel AISI 304.
- **IMPELLERS AND DIFFUSERS:** technopolymer.
- **DIFFUSER HOUSING:** stainless steel AISI 304.
- **PUMP SHAFT:** stainless steel AISI 304.
- **PUMP BEARINGS:** housing in special technopolymer with stainless steel AISI 316 shaft bushes, chrome oxide coated to resist sand.
- **DRIVE COUPLING:** stainless steel AISI 316L.
- **SCREWS AND CABLE COVER:** stainless steel AISI 304.
- **MOTOR SHAFT:** stainless steel EN 10088-3 - 1.4104 (AISI 431 for 1.1 kW single-phase).
- **MOTOR:** submersible for continuous duty (dry rewindable).
- **4BLOCKm:** single-phase 220÷240 V - 50 Hz.
- **4BLOCK:** three-phase 380÷415 V - 50 Hz.
- **INSULATION:** class F. ● **PROTECTION:** IP 68.
- **DOUBLE SEAL:**
silicon carbide - ceramic - NBR on the pump side;
ceramic - graphite - NBR on the motor side (in oil barrier chamber).
- Registered Community Design n° 342159-0010.
- Patent Pending n° BO2008000219.

STANDARD FEATURES:

4BLOCKm (single-phase) Thermal motor protection built into the winding.
Internal capacitor.
20 metre flat power cable.

4BLOCK (three-phase)
20 metre flat power cable.

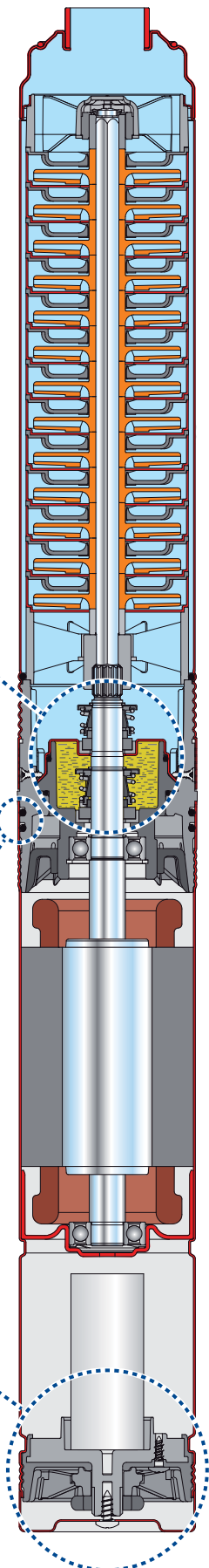
OPTIONS AVAILABLE ON REQUEST

- ⇒ 30 metre power cable
- ⇒ Other voltages or frequency 60 Hz

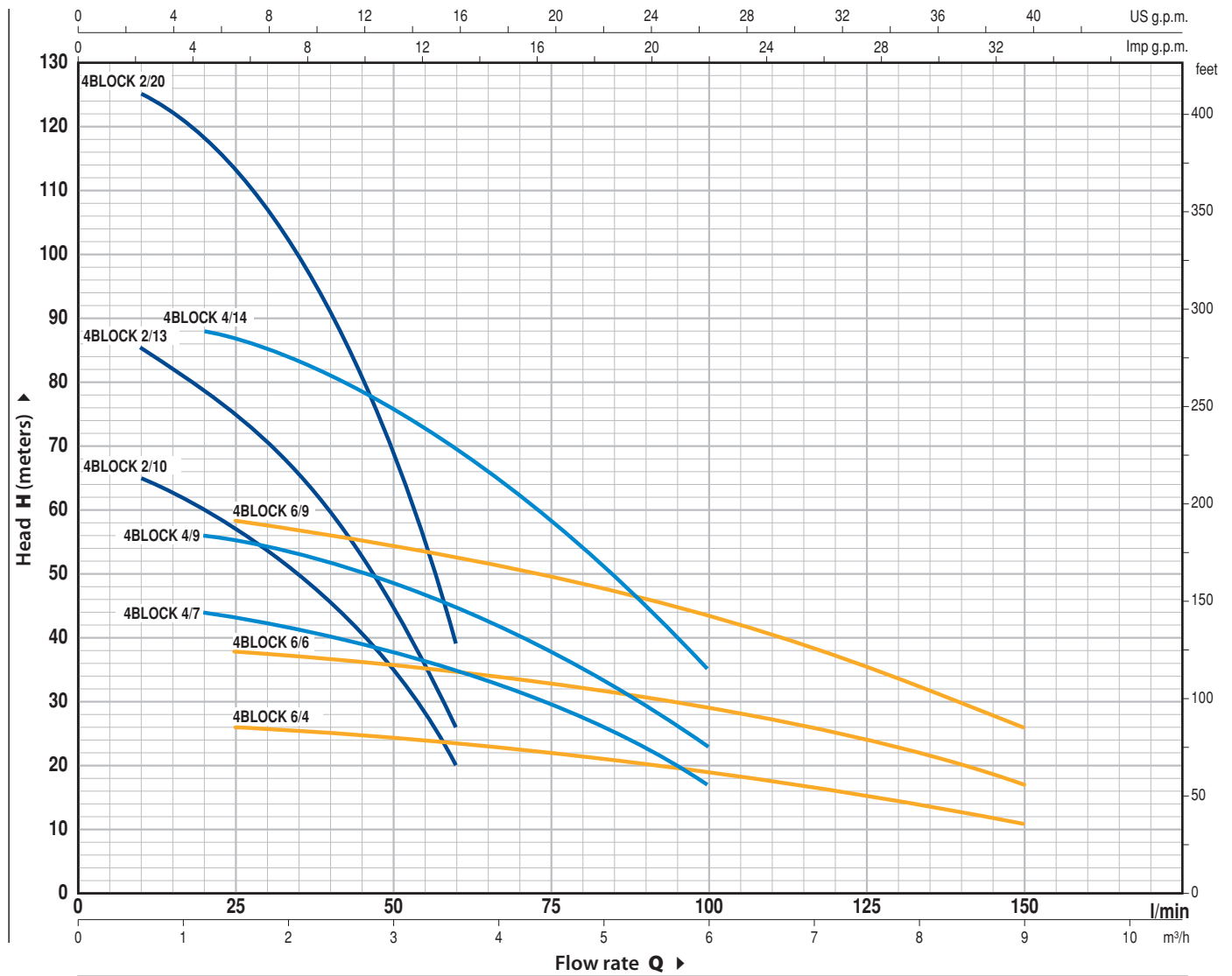
Double mechanical seal for greater pump safety and reliability

Two o-rings fitted to the patented motor support

Patented lower support



CURVES AND PERFORMANCE DATA AT n= 2900 1/min



4BLOCK 2

| TYPE | | POWER | | Q m³/h l/min | Q | | | | | | |
|--------------|-------------|-------|------|--------------------|-----|-----|-----|-----|-----|-----|-----|
| Single-phase | Three-phase | kW | HP | | 0 | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 |
| 4BLOCKm 2/10 | 4BLOCK 2/10 | 0.55 | 0.75 | H meters | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
| 4BLOCKm 2/13 | 4BLOCK 2/13 | 0.75 | 1 | | 66 | 65 | 60 | 54 | 46 | 35 | 20 |
| 4BLOCKm 2/20 | 4BLOCK 2/20 | 1.1 | 1.5 | | 86 | 85 | 79 | 71 | 60 | 45 | 26 |
| | | | | | 128 | 125 | 118 | 108 | 91 | 70 | 39 |

4BLOCK 4

| TYPE | | POWER | | Q m³/h l/min | Q | | | | | | | | | | |
|--------------|-------------|-------|------|--------------------|----|-----|------|-----|-----|-----|------|------|-----|-----|--|
| Single-phase | Three-phase | kW | HP | | 0 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 | 5.4 | 6.0 | |
| 4BLOCKm 4/7 | 4BLOCK 4/7 | 0.55 | 0.75 | H meters | 0 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | |
| 4BLOCKm 4/9 | 4BLOCK 4/9 | 0.75 | 1 | | 46 | 44 | 42 | 40 | 38 | 35 | 31.5 | 27 | 23 | 17 | |
| 4BLOCKm 4/14 | 4BLOCK 4/14 | 1.1 | 1.5 | | 60 | 56 | 54.5 | 52 | 49 | 45 | 40.5 | 35 | 29 | 23 | |
| | | | | | 92 | 88 | 85 | 81 | 76 | 70 | 63 | 54.5 | 45 | 35 | |

4BLOCK 6

| TYPE | | POWER | | Q m³/h l/min | Q | | | | | | |
|--------------|-------------|-------|------|--------------------|----|-----|-----|-----|-----|-----|-----|
| Single-phase | Three-phase | kW | HP | | 0 | 1.5 | 3.0 | 4.5 | 6.0 | 7.5 | 9.0 |
| 4BLOCKm 6/4 | 4BLOCK 6/4 | 0.55 | 0.75 | H meters | 0 | 25 | 50 | 75 | 100 | 125 | 150 |
| 4BLOCKm 6/6 | 4BLOCK 6/6 | 0.75 | 1 | | 27 | 26 | 24 | 22 | 19 | 15 | 11 |
| 4BLOCKm 6/9 | 4BLOCK 6/9 | 1.1 | 1.5 | | 40 | 38 | 36 | 33 | 29 | 24 | 17 |
| | | | | | 61 | 58 | 54 | 50 | 44 | 35 | 26 |

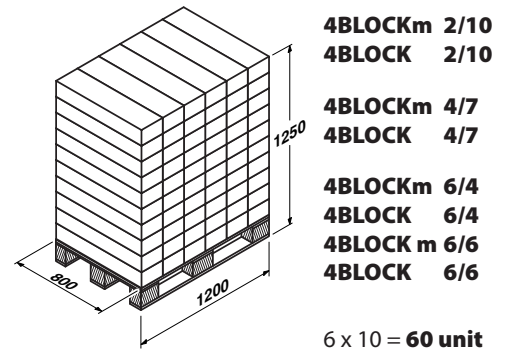
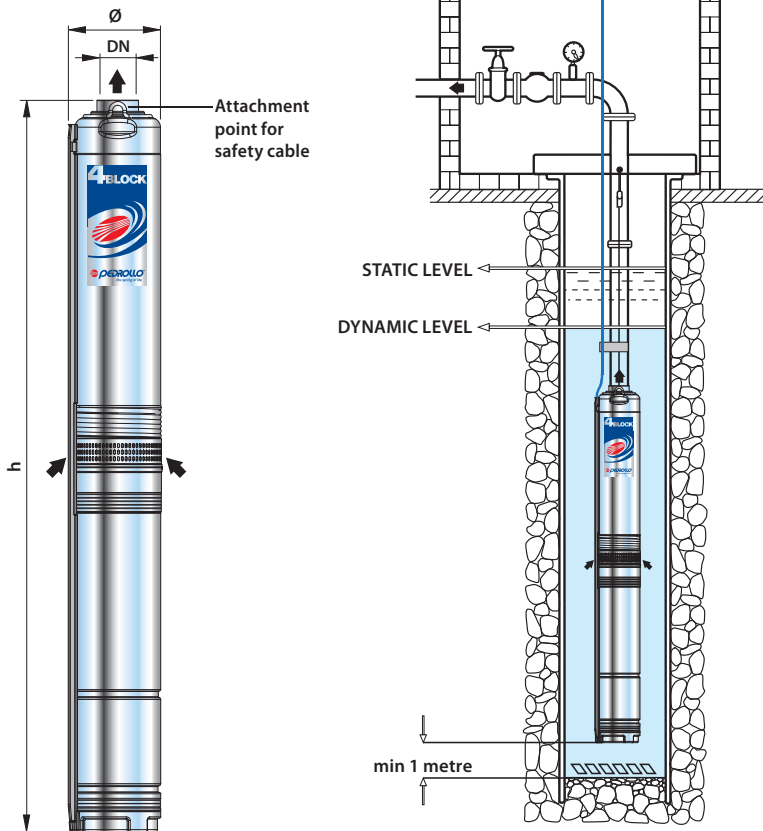
Q = Flow rate H = Total manometric head

Performance curve tolerance values as per EN ISO 9906 App. A.

DIMENSIONS AND WEIGHTS

PALLETIZATION

Typical installation

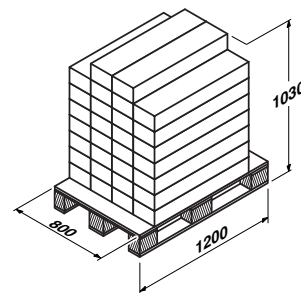


4BLOCKm 2/10
4BLOCK 2/10

4BLOCKm 4/7
4BLOCK 4/7

4BLOCKm 6/4
4BLOCK 6/4
4BLOCKm 6/6
4BLOCK 6/6

6 x 10 = **60 unit**



4BLOCKm 2/13
4BLOCK 2/13
4BLOCKm 2/20
4BLOCK 2/20

4BLOCKm 4/9
4BLOCK 4/9
4BLOCKm 4/14
4BLOCK 4/14

4BLOCKm 6/9
4BLOCK 6/9

4 x 7 + 2 = **30 unit**

| TYPE | | PORT DN | DIMENSIONS mm | | | kg | |
|--------------|-------------|------------|---------------|-----|----------|------|------|
| Single-phase | Three-phase | | N° stages | Ø | h | 1~ | 3~ |
| 4BLOCKm 2/10 | 4BLOCK 2/10 | 1 1/4" | 10 | 100 | 720/695 | 12.6 | 11.5 |
| 4BLOCKm 2/13 | 4BLOCK 2/13 | | 13 | | 801/776 | 14.4 | 13.1 |
| 4BLOCKm 2/20 | 4BLOCK 2/20 | | 20 | | 1001/930 | 18 | 15.3 |

| TYPE | | PORT DN | DIMENSIONS mm | | | kg | |
|--------------|-------------|------------|---------------|-----|---------|------|------|
| Single-phase | Three-phase | | N° stages | Ø | h | 1~ | 3~ |
| 4BLOCKm 4/7 | 4BLOCK 4/7 | 1 1/4" | 7 | 100 | 689/664 | 12.2 | 11.2 |
| 4BLOCKm 4/9 | 4BLOCK 4/9 | | 9 | | 758/733 | 13.9 | 12.7 |
| 4BLOCKm 4/14 | 4BLOCK 4/14 | | 14 | | 940/868 | 17.3 | 14.7 |

| TYPE | | PORT DN | DIMENSIONS mm | | | kg | |
|--------------|-------------|------------|---------------|-----|---------|------|------|
| Single-phase | Three-phase | | N° stages | Ø | h | 1~ | 3~ |
| 4BLOCKm 6/4 | 4BLOCK 6/4 | 1 1/4" | 4 | 100 | 655/630 | 12.2 | 11.0 |
| 4BLOCKm 6/6 | 4BLOCK 6/6 | | 6 | | 740/715 | 13.4 | 12.7 |
| 4BLOCKm 6/9 | 4BLOCK 6/9 | | 9 | | 902/823 | 16.7 | 14.3 |



Pedrollo S.p.A. – Via Enrico Fermi, 7 – 37047 – San Bonifacio (Verona) ITALY
tel. +390456136311 – fax +390457614663 – sales@pedrollo.com – www.pedrollo.com