

4BLOCK

4" monoblock submersible pumps



-  Clean water
(Maximum sand content 150 g/m³)
-  Domestic use
-  Civil use
-  Agricultural use

PERFORMANCE RANGE

- Flow rate up to **150 l/min** (9 m³/h)
- Head up to **116 m**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **150 g/m³**
- Maximum immersion depth of **60 m** with a sufficiently long power cable
- Vertical and horizontal installation
- Starts/hour: **20** at regular intervals
- 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



CERTIFICATIONS

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

INSTALLATION AND USE

Suitable for pumping clean water from boreholes that contain sand (up to 150 g/m³).

Because of their high efficiency and reliability they are suitable for use in domestic applications such as domestic water supply as part of a pressure supply and for irrigation, etc.

PATENTS - TRADE MARKS - MODELS

- Patent Pending n. PCT/IB2009/051491
- Patent Pending n. PCT/IB2010/054499
- Patent n. EP09781276.2

OPTIONS AVAILABLE ON REQUEST

- **30 metres** long power cable
- Other voltages

GUARANTEE

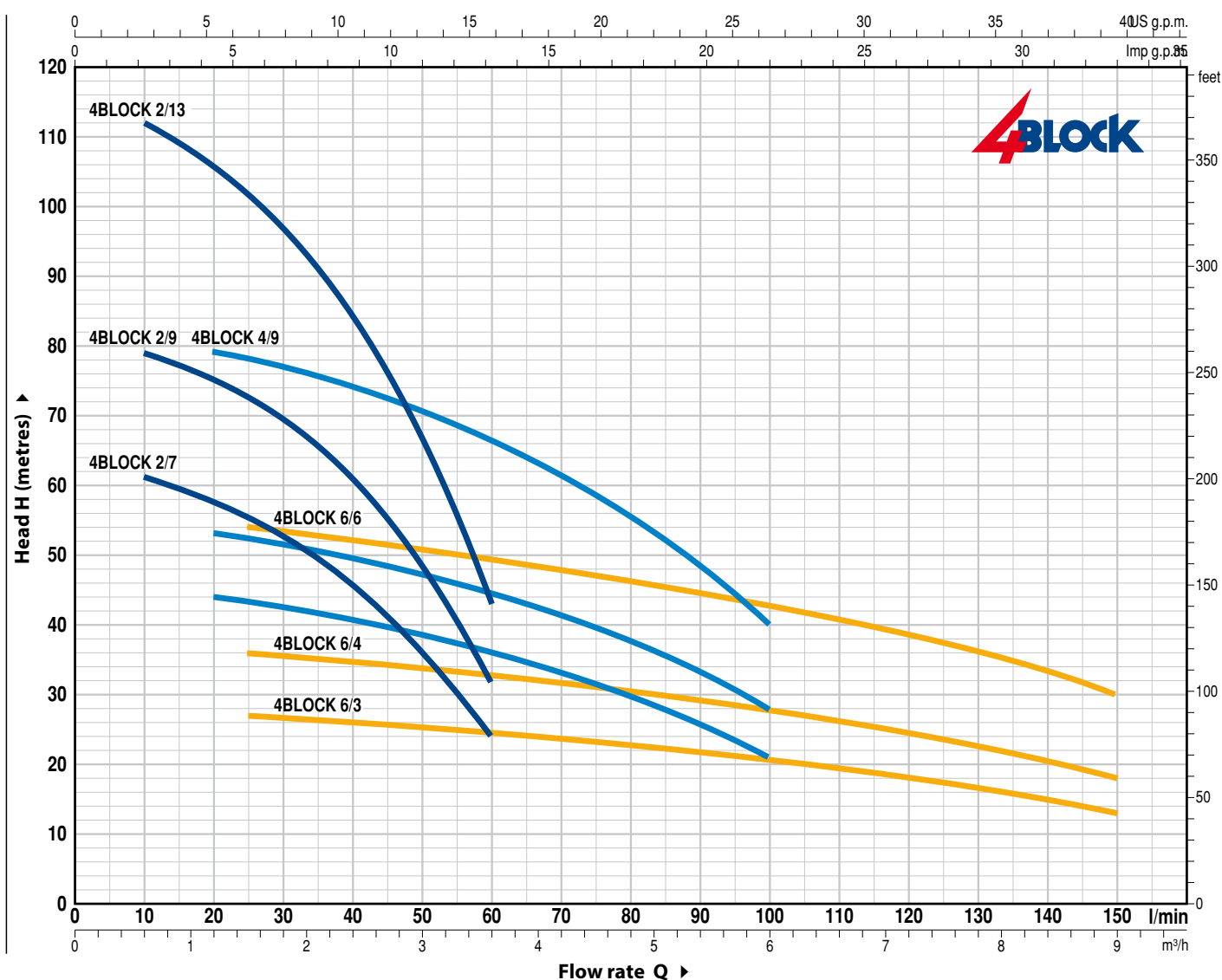
2 years subject to terms and conditions

► **Ready to install, stainless steel monoblock submersible pump.**

Complete with: – motor with built-in capacitor and thermal overload protector
– 20 m long power cable.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm



MODEL	POWER (P ₂)		Q								
Single-phase	kW	HP		m ³ /h	0	0.6	1.2	1.8	2.4	3.0	3.6
4BLOCKm 2/7	0.55	0.75	H metres	l/min	0	10	20	30	40	50	60
4BLOCKm 2/9	0.75	1			63	61	58	53	46	36	24
4BLOCKm 2/13	1.1	1.5			82	79	75	70	61	48	32
					116	112	106	97	85	66	43

MODEL	POWER (P ₂)		Q m ³ /h l/min	0	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
Single-phase	kW	HP		0	20	30	40	50	60	70	80	90	100
4BLOCKm 4/5	0.55	0.75	H metres	46	44	42	41	39	36	33	30	26	21
4BLOCKm 4/6	0.75	1		56	53	51	49	47	45	41	38	33	28
4BLOCKm 4/9	1.1	1.5		83	79	76	74	70	67	62	56	48	40

MODEL	POWER (P ₂)		Q m ³ /h l/min	0	1.5	3.0	4.5	6.0	7.5	9.0
Single-phase	kW	HP		0	25	50	75	100	125	150
4BLOCKm 6/3	0.55	0.75	H metres	28	27	25	23	21	17.5	13
4BLOCKm 6/4	0.75	1		37	36	34	31	28	24	18
4BLOCKm 6/6	1.1	1.5		55	54	51	47	43	37	30

Q = Flow rate H = Total manometric head

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

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

1	DELIVERY BODY AND EXTERNAL SLEEVE	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1.
2	IMPELLERS	Lexan 141-R
3	DIFFUSERS	Noryl FE1520PW
4	STAGE CASING	Stainless steel AISI 304
5	PUMP SHAFT	Stainless steel AISI 304
6	PUMP BEARINGS	Special technopolymer housing with stainless steel AISI 316, chrome oxide coated, sand resistant shaft bushing.
7	DRIVE COUPLING	Stainless steel AISI 316L
8	CABLE COVER	Stainless steel AISI 304
9	MOTOR SHAFT	Stainless steel EN 10088-3 1.4104 (AISI 431 per 1.1 kW single-phase)
10	MOTOR SLEEVE	Stainless steel AISI 304

11 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal	Shaft	Position	Materials		
Model	Diameter		Stationary ring	Rotational ring	Elastomer
STA-17	Ø 17 mm	Motor side	Ceramic	Graphite	NBR
ST1-16	Ø 16 mm	Pump side	Silicon carbide	Graphite	NBR

12 BEARINGS

Pump	Model
4BLOCK – 0.55÷0.75 kW	6203 2RS - C3E / 6203 ZZ - C3E
4BLOCK – 1.1 kW	3203B 2RS - C3 / 6203 ZZ - C3E

13 CAPACITOR

Pump	Capacitance
Single-phase	(220 V)
4BLOCK – 0.55 kW	20 µF - 500 VL
4BLOCK – 0.75 kW	31.5 µF - 500 VL
4BLOCK – 1.1 kW	35 µF - 500 VL

14 ELECTRIC MOTOR

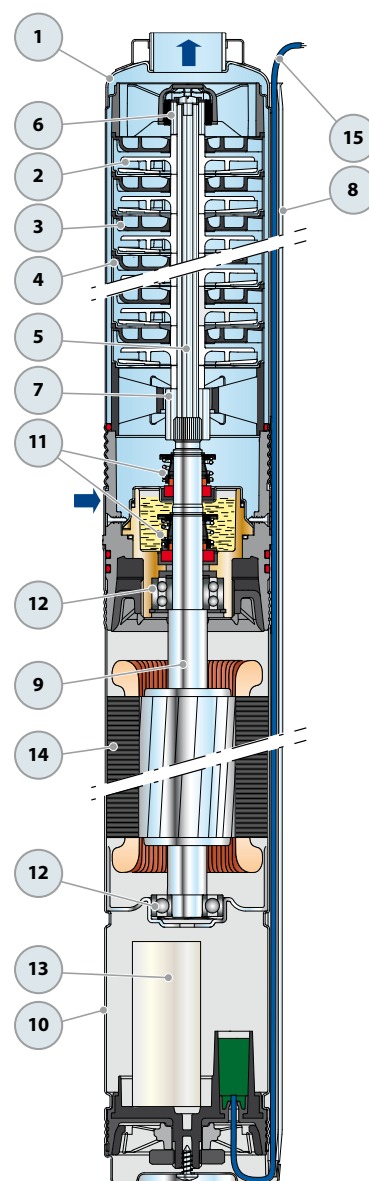
Submersible PEDROLLO motor, suitable for continuous duty (with dry, rewindable stator).

4BLOCKm: single-phase 220 V - 60 Hz
Motor with built-in capacitor.
Thermal overload protector incorporated into the winding.

- Insulation: class F
- Protection: IP X8

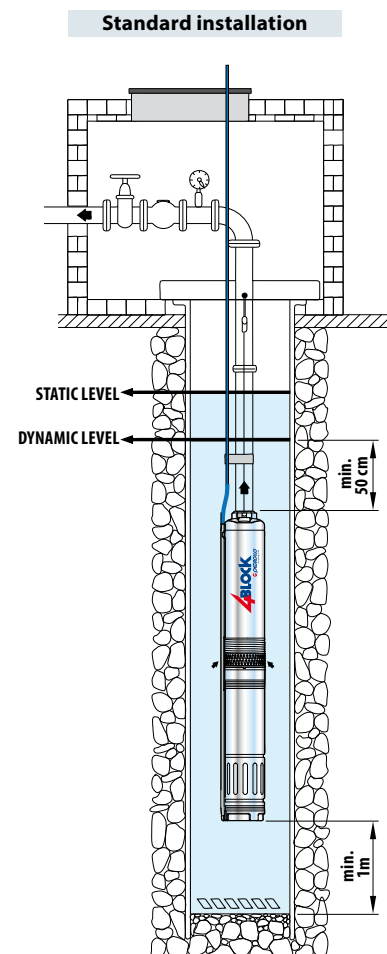
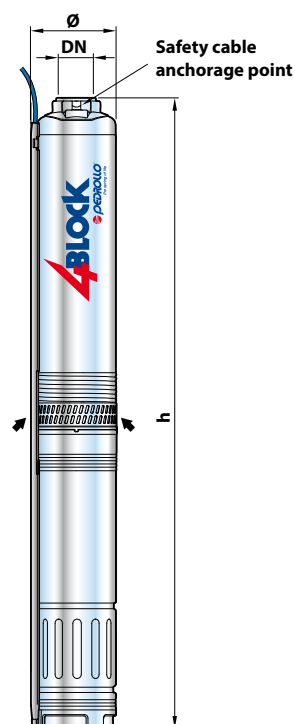
15 POWER CABLE

⇒ **PBS-P type**
approved for use in drinking water by "ACS"
in compliance with BS 6920, approval n. 04 ACCLI 201
Standard length 20 metres



DIMENSIONS AND WEIGHT

MODEL	PORT	DIMENSIONS mm			kg
Single-phase	DN	N. STAGES	Ø	h	1~
4BLOCKm 2/7	1 1/4"	7	100	665	12.0
4BLOCKm 2/9		9		727-702	13.7
4BLOCKm 2/13		13		872-801	16.7
4BLOCKm 4/5		5		645	11.7
4BLOCKm 4/6		6		692-667	13.3
4BLOCKm 4/9		9		830-758	16.1
4BLOCKm 6/3		3		625	10.5
4BLOCKm 6/4		4		680-655	12.9
4BLOCKm 6/6		6		812-733	15.9



ABSORPTION

MODEL	VOLTAGE
Single-phase	220 V
4BLOCKm – 0.55 kW	6.0 A
4BLOCKm – 0.75 kW	7.5 A
4BLOCKm – 1.1 kW	8.8 A

PALLETIZATION

MODEL	GROUPAGE/CONTAINER
Single-phase	n. pumps
4BLOCKm 2/7	55
4BLOCKm 2/9	55
4BLOCKm 2/13	33
4BLOCKm 4/5	55
4BLOCKm 4/6	55
4BLOCKm 4/9	33
4BLOCKm 6/3	55
4BLOCKm 6/4	55
4BLOCKm 6/6	33