

4-BLOCK[®]

4" monoblock submersible pumps



- PATENTED -

10 times more resistant to sand

STRONG AGAINST SAND

MADE IN ITALY

 **PEDROLLO**[®]
the spring of life



4-BLOCK®

4" monoblock submersible pumps



Clean water
(Maximum sand content
200 g/m³)



Domestic use



Civil use



Agricultural use



Patented



Borehole pumps ready for installation c/w capacitor and built-in thermal overload motor-protector.

Thanks to a refined hydraulic design, combined with innovative mechanical solutions (patented), this new series of pumps has been created with floating impellers, that guarantee a greater resistance to the wear caused by the presence of sand in the water, 10 times higher than that found on other pumps on the market.

- ✘ Stainless steel borehole pumps ready for installation c/w capacitor and built-in thermal overload motor-protector.
- ✘ Our hydraulics have a MEI factor (minimum efficiency index) easily surpassing ErP requirements.
- ✘ Increased performances on all the working curve.
- ✘ Max sand content 200 g/m³.

PERFORMANCE RANGE

- Flow rate up to **200 l/min** (12 m³/h)
- Head up to **140 m**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **200 g/m³**
- Maximum immersion depth of **100 m** (with a sufficiently long power cable)
- Vertical and horizontal installation
- Starts/hour: **20** at regular intervals
- Continuous service **S1**

INSTALLATION AND USE

Suitable for pumping clean water from wells even in the presence of sand (up to 200 g/m³).

For their high efficiency and reliability these pumps are suitable for domestic applications, for water supply as part of a pressure supply by booster set, for irrigation, ecc.

PATENTS - TRADE MARKS - MODELS

- European Patents n° EP3123031, EP2419642

OPTIONS AVAILABLE ON REQUEST

- **30 metres** long power cable
- Other voltages or 60 Hz frequency

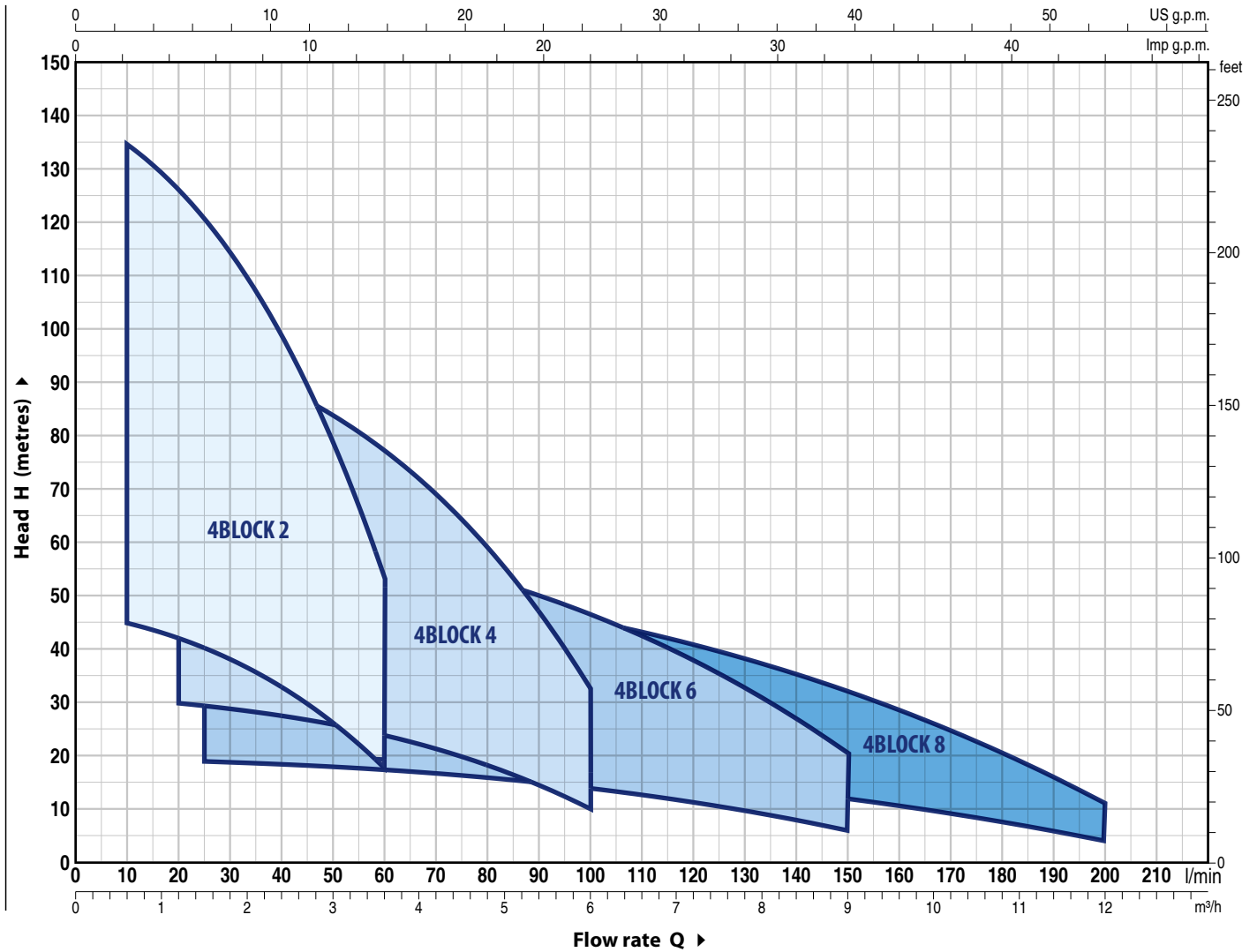
WARRANTY

2 years according to our general conditions of sale

Sand resistant

PERFORMANCE RANGE

50 Hz n= 2900 min⁻¹



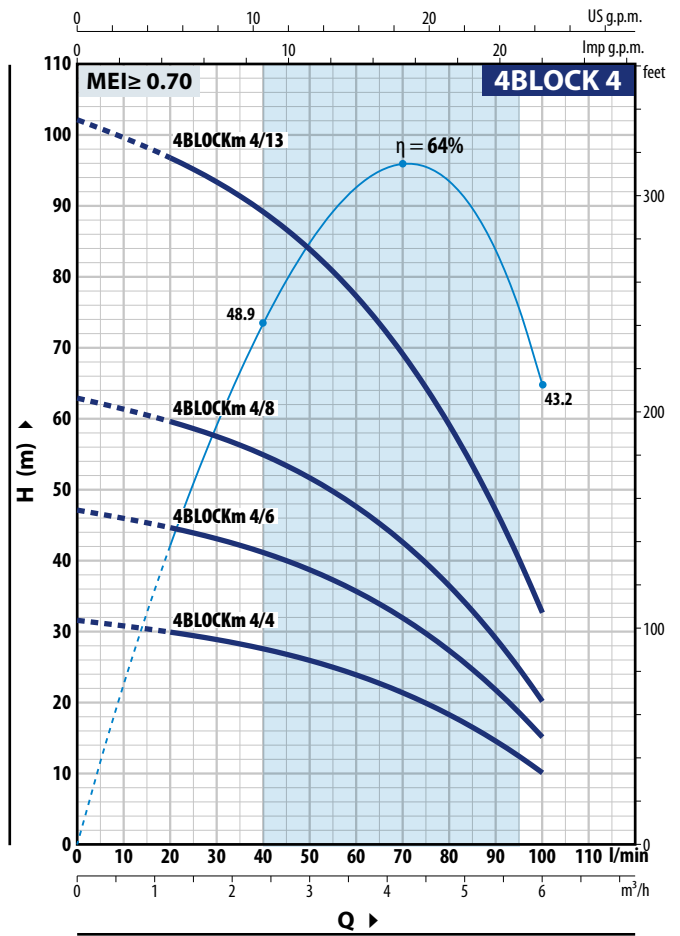
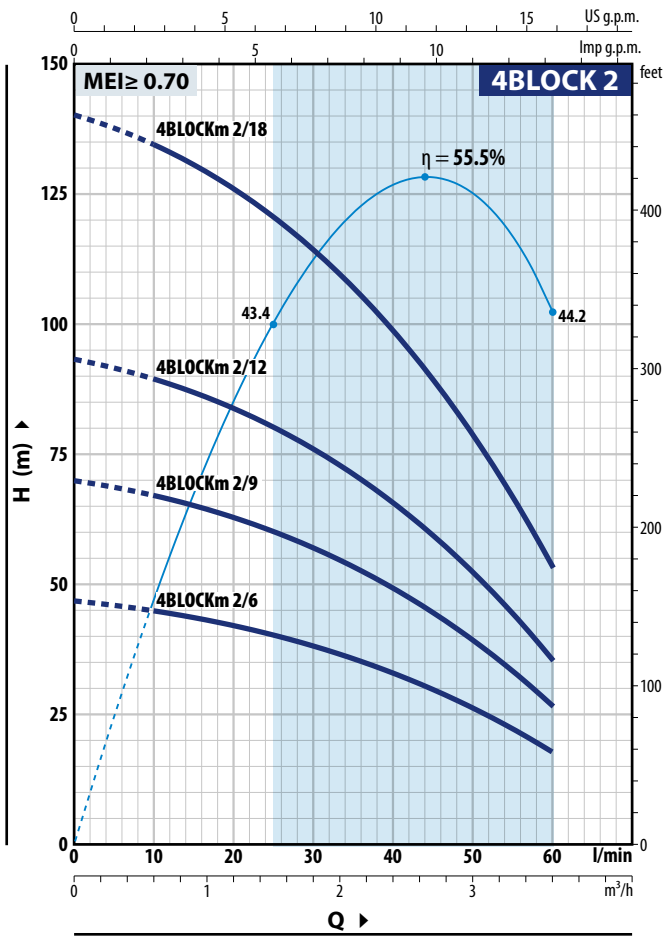
➡ Stainless steel borehole pumps ready for installation.

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

4-BLOCK® 4" monoblock submersible pumps

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



4BLOCK 2

MODEL	POWER (P ₂)		Q	H metres						
	kW	HP		0	0.6	1.2	1.8	2.4	3.0	3.6
Single-phase				0	10	20	30	40	50	60
4BLOCKm 2/6	0.37	0.50	H metres	47	45	42	38	33	26.3	18
4BLOCKm 2/9	0.55	0.75		70	67.5	63	57	49.5	39.5	26.5
4BLOCKm 2/12	0.75	1		94	90	84	76	66	52.5	35.5
4BLOCKm 2/18	1.1	1.5		140	135	126	114	99	79	53.5

4BLOCK 4

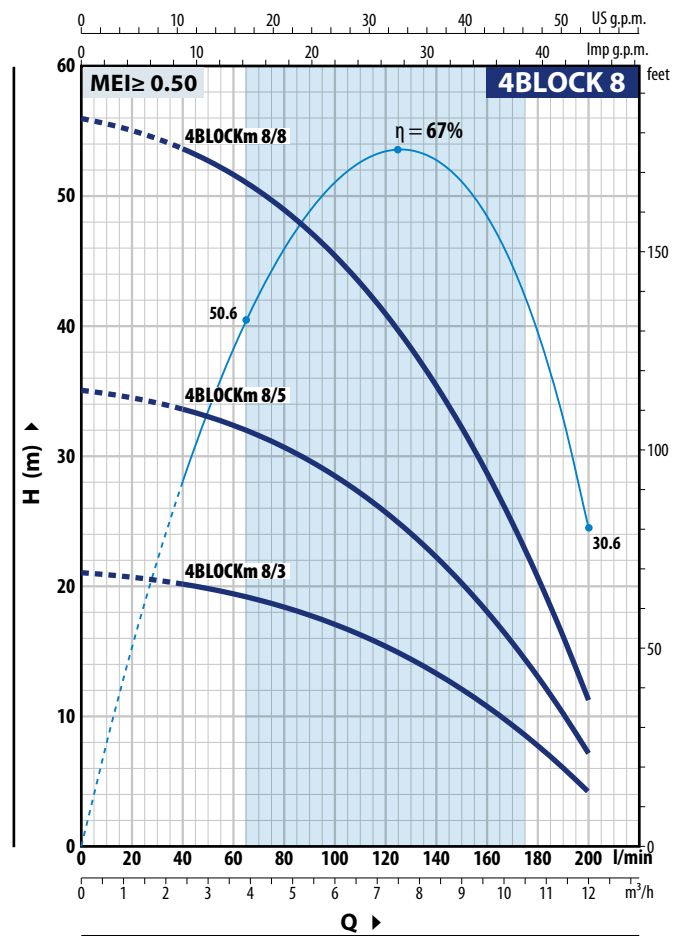
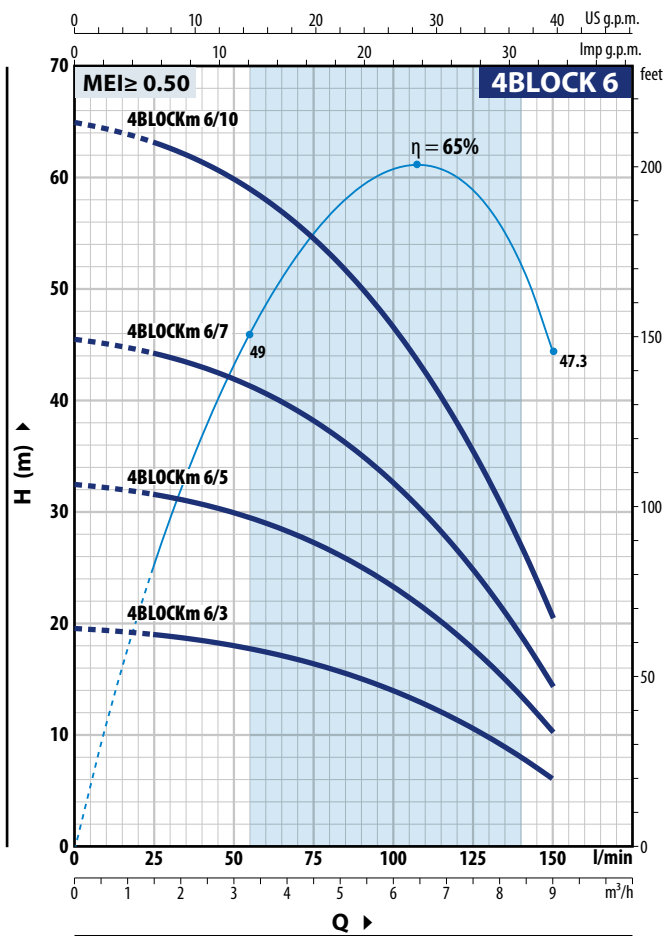
MODEL	POWER (P ₂)		Q	H metres						
	kW	HP		0	1.2	1.5	2.4	3.6	4.5	6.0
Single-phase				0	20	25	40	60	75	100
4BLOCKm 4/4	0.37	0.50	H metres	31.5	30	29.5	27.5	23.8	19.8	10
4BLOCKm 4/6	0.55	0.75		47	44.5	44	41	35.5	29.5	15
4BLOCKm 4/8	0.75	1		63	59.5	58.5	55	47.5	39.5	20
4BLOCKm 4/13	1.1	1.5		102	97	95	89	77	64.5	32.5

Q = Flow rate H = Total manometresc head

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

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



4BLOCK 6

MODEL	POWER (P ₂)		Q	H metres												
	kW	HP		0	1.5	2.4	3.6	4.5	6.0	7.5	9.0					
Single-phase				0	25	40	60	75	100	125	150					
4BLOCKm 6/3	0.37	0.50	H metres	19.5	19	18.4	17.4	16.4	14	10.6	6					
4BLOCKm 6/5	0.55	0.75		32.5	31.5	30.5	29	27.5	23.3	17.7	10					
4BLOCKm 6/7	0.75	1		45.5	44	43	40.5	38	32.5	24.8	14.5					
4BLOCKm 6/10	1.1	1.5		65	63	61.5	58	54.5	46.5	35.5	20.5					

4BLOCK 8

MODEL	POWER (P ₂)		Q	H metres												
	kW	HP		0	2.4	3.6	4.5	6.0	7.5	9.0	10.5	12				
Single-phase				0	40	60	75	100	125	150	175	200				
4BLOCKm 8/3	0.55	0.75	H metres	21	20	19.4	18.7	17.1	14.9	12.1	8.6	4				
4BLOCKm 8/5	0.75	1		35	33.5	32.5	31	28.5	24.8	20.2	14.3	7				
4BLOCKm 8/8	1.1	1.5		56	53.5	51.5	50	45.5	39.5	32.5	22.9	11.5				



Q = Flow rate H = Total manometres head

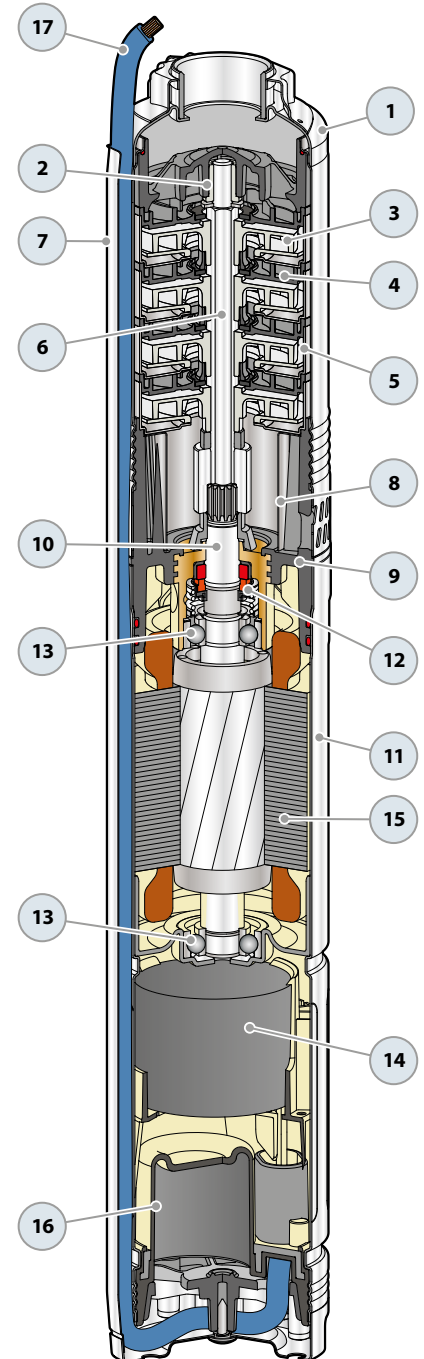
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

4-BLOCK® 4" monoblock submersible pumps

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

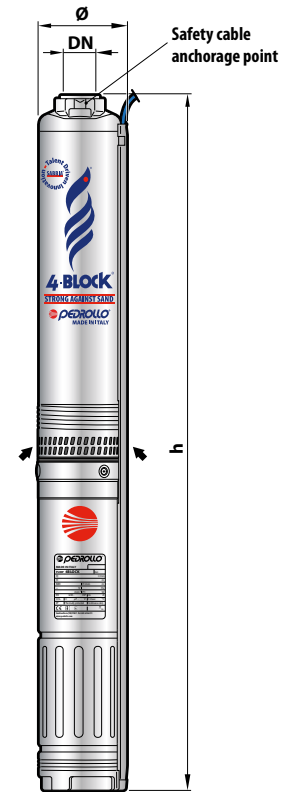
1 DELIVERY BODY AND EXTERNAL SLEEVE	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1			
2 PUMP BEARING	Fixed part in EPDM			
3 IMPELLERS	Delrin			
4 DIFFUSERS	Noryl			
5 STAGE CASING	Stainless steel AISI 304			
6 PUMP SHAFT	Stainless steel AISI 304			
7 CABLE COVER	Stainless steel AISI 304			
8 FILTER	Stainless steel AISI 304			
9 MOTOR BRACKET	Tecnopolymer & brass			
10 MOTOR SHAFT	Acciaio inox AISI 431			
11 MOTOR SLEEVE	Stainless steel AISI 304			
12 MECHANICAL SEAL	<i>Seal</i>	<i>Shaft</i>	<i>Materials</i>	
	<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>
	ST1-16	Ø 16 mm	Ceramic	Graphite
				<i>Elastomer</i>
				NBR
13 BEARINGS	6203 / 6203			
14 CAPACITOR	EN 60252-1/A1  			
15 ELECTRIC MOTOR	Submersible PEDROLLO motor, suitable for continuous duty, rewindable in oil bath (non-toxic oil for food use).			
	4BLOCKm: single-phase 220-230 V - 50 Hz			
	Motor with built-in capacitor.			
	Thermal overload protector incorporated into the winding.			
	– Insulation: class F			
	– Protection: IP X8			
16 MEMBRANE BALANCER				
17 POWER CABLE	⇒ DRINCABLE® HRC type approved for use in drinking water by "ACS" in compliance with XP P 41-250, approval n. 18 MAT NY 156			



Standard length 20 metres

DIMENSIONS AND WEIGHT

MODEL	PORT DN	DIMENSIONS mm			kg
		N.STAGES	Ø	h	
4BLOCKm 2/6	1¼"	6	100	597	11.2
4BLOCKm 2/9		9		657	12.4
4BLOCKm 2/12		12		737	14.3
4BLOCKm 2/18		18		907	17.2
4BLOCKm 4/4		4		577	10.8
4BLOCKm 4/6		6		627	11.8
4BLOCKm 4/8		8		697	12.8
4BLOCKm 4/13		13		872	16.6
4BLOCKm 6/3		3		572	10.6
4BLOCKm 6/5		5		635	11.8
4BLOCKm 6/7		7		718	13.1
4BLOCKm 6/10		10		862	16.4
4BLOCKm 8/3		3		572	10.6
4BLOCKm 8/5		5		655	12.5
4BLOCKm 8/8		8		799	15.4



ABSORPTION

MODEL	VOLTAGE	
	230 V	240 V
4BLOCKm - 0.37 kW	3.2 A	3.1 A
4BLOCKm - 0.55 kW	4.0 A	3.8 A
4BLOCKm - 0.75 kW	6.0 A	5.8 A
4BLOCKm - 1.1 kW	8.0 A	7.7 A

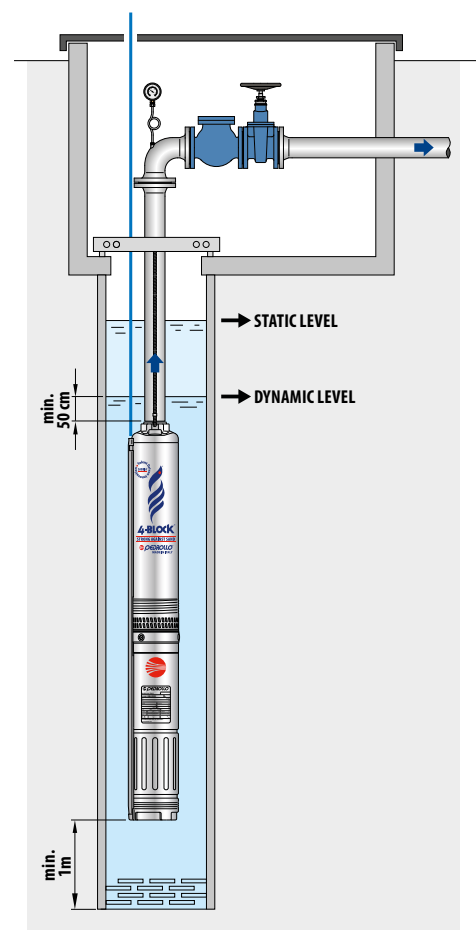
CAPACITOR

MODEL	CAPACITY
Single-phase	230 V or 240 V
4BLOCKm - 0.37 kW	20 µF - 450 VL
4BLOCKm - 0.55 kW	20 µF - 450 VL
4BLOCKm - 0.75 kW	35 µF - 450 VL
4BLOCKm - 1.1 kW	35 µF - 450 VL

PALLETIZATION

MODEL	GROUPAGE
Single-phase	n° pumps
4BLOCKm 2	55
4BLOCKm 4	55
4BLOCKm 6	55
4BLOCKm 8	55

Standard Installation



*The data contained in this publication are not to be considered binding.
Pedrollo S.p.A. reserves the right to make any changes it deems appropriate to improve its production.*

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MADE IN ITALY

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