

4" monoblock submersible pumps

**NEW**



**4BLOCK<sup>®</sup>**

**FLOATING IMPELLERS  
PATENTED SYSTEM**

**MADE IN ITALY**

 **PEDROLLO<sup>®</sup>**  
the spring of life





## NEW

- **Stainless steel borehole pumps ready for installation c/w capacitor and built-in thermal overload motor-protector.**
- **Patented hydraulic system with free floating impeller system regardless of any sand content.**
- **Efficiency increased to top amongst similar pumps (+12% compared to previous serie) and energy consumption significantly reduced.**
- **Our hydraulics have a MEI factor (minimum efficiency index) largely overcoming ErP requirements.**
- **Non-return valve built-in.**
- **Increased performances on all the working curve.**
- **Max sand content 200 g/m<sup>3</sup>.**

### INSTALLATION AND USE

Suitable for pumping clean water from wells.

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

### PERFORMANCE RANGE

- Flow rate up to **200 l/min** (12 m<sup>3</sup>/h)
- Head up to **140 m**

### APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **200 g/m<sup>3</sup>**
- Maximum immersion depth of **60 m** with a sufficiently long power cable
- Vertical and horizontal installation
- Starts/hour: **30** 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

EU REGULATION N. 547/2012

### PATENTS - TRADE MARKS - MODELS

- European Patents n. EP3123031, EP2419642

### OPTIONS AVAILABLE ON REQUEST

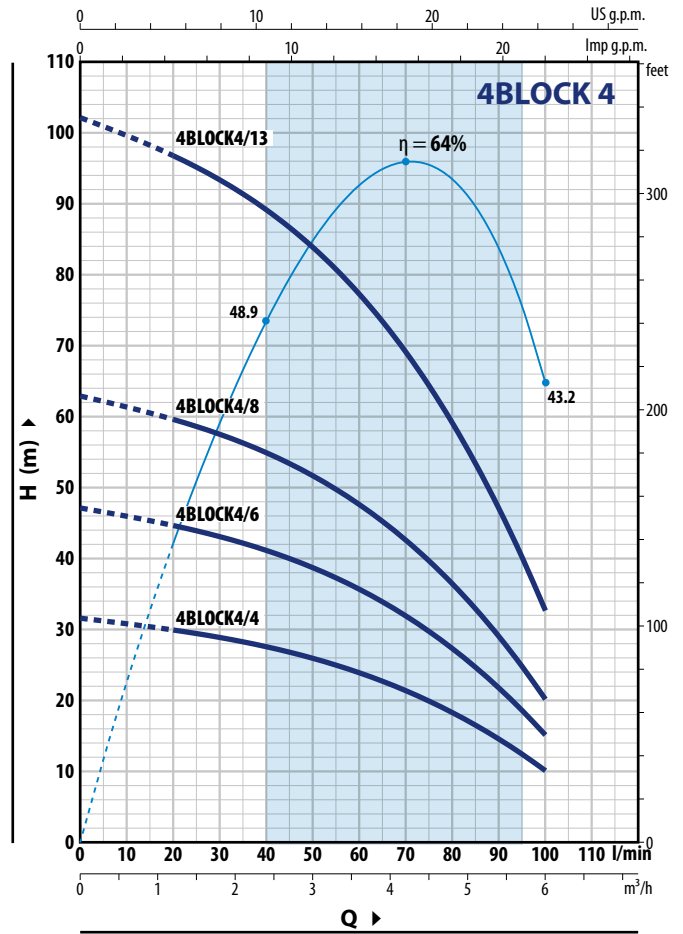
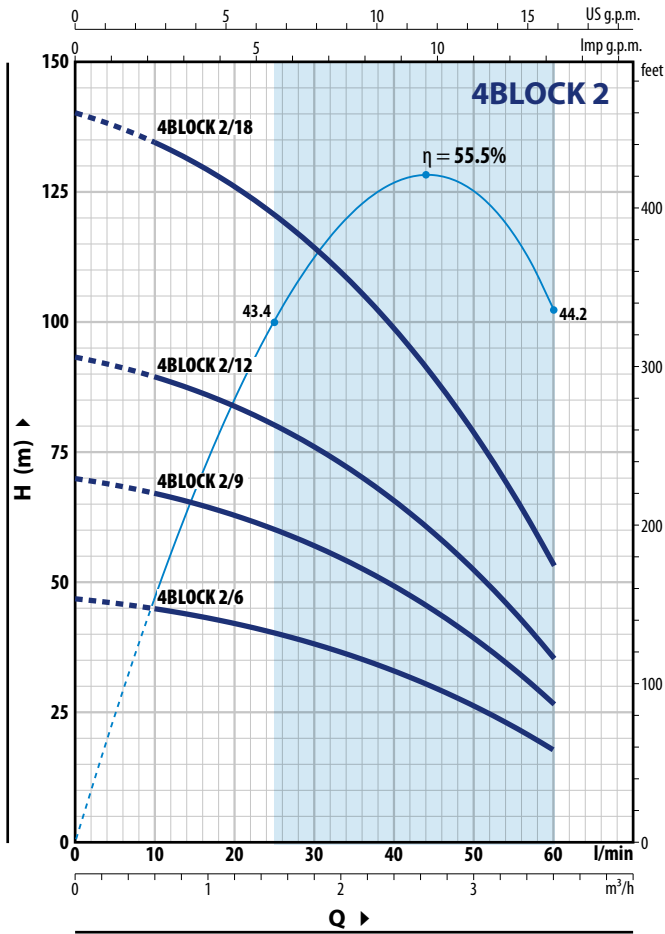
- **30 metres** long power cable
- Other voltages or 60 Hz frequency

### WARRANTY

2 years according to our general conditions of sale

# 4BLOCK® 4" monoblock submersible pumps

CHARACTERISTIC CURVES AND PERFORMANCE DATA 50 Hz n= 2900 min<sup>-1</sup>



## 4BLOCK 2

MODEL	POWER (P <sub>2</sub> )		Q	H (metres)						
	kW	HP		0	0.6	1.2	1.8	2.4	3.0	3.6
Single-phase			0	0	10	20	30	40	50	60
4BLOCKm 2/6	0.37	0.50	l/min	47	45	42	38	33	26.3	18
4BLOCKm 2/9	0.55	0.75	m³/h	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

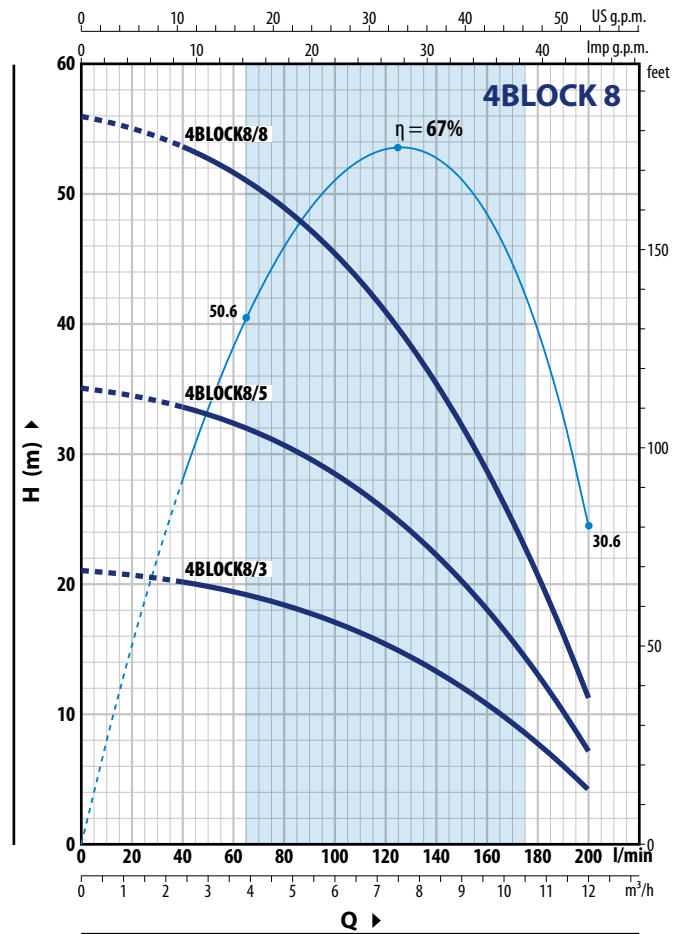
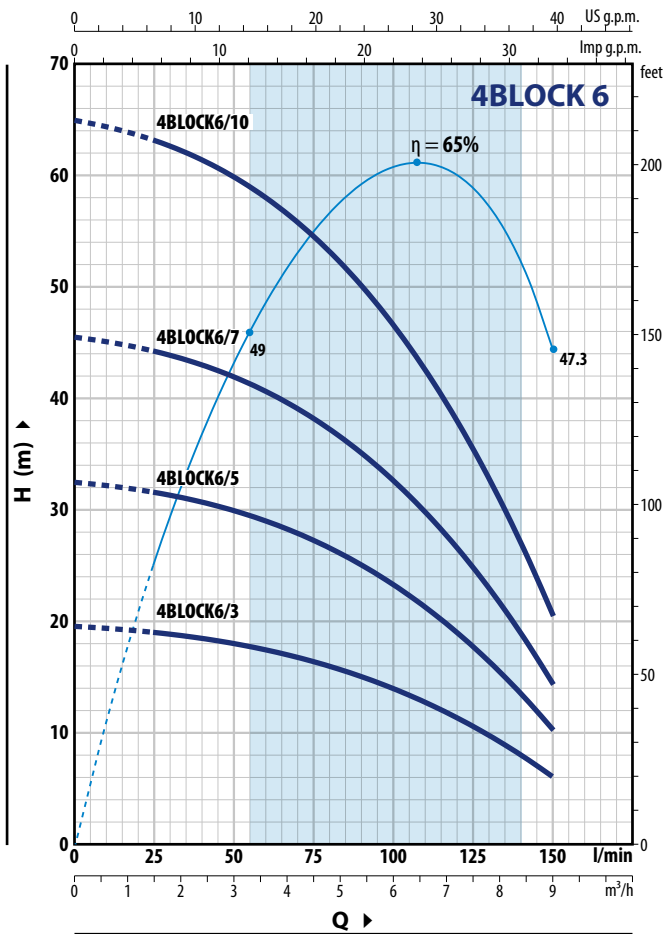
## 4BLOCK 4

MODEL	POWER (P <sub>2</sub> )		Q	H (metres)						
	kW	HP		0	1.2	1.5	2.4	3.6	4.5	6.0
Single-phase			0	0	20	25	40	60	75	100
4BLOCKm 4/4	0.37	0.50	l/min	31.5	30	29.5	27.5	23.8	19.8	10
4BLOCKm 4/6	0.55	0.75	m³/h	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 manometer head

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

## CHARACTERISTIC CURVES AND PERFORMANCE DATA 50 Hz n= 2900 min<sup>-1</sup>



### 4BLOCK 6

MODEL	POWER (P <sub>2</sub> )		Q	Flow Rate										
	kW	HP		m <sup>3</sup> /h	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 <sub>2</sub> )		Q	Flow Rate										
	kW	HP		m <sup>3</sup> /h	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	

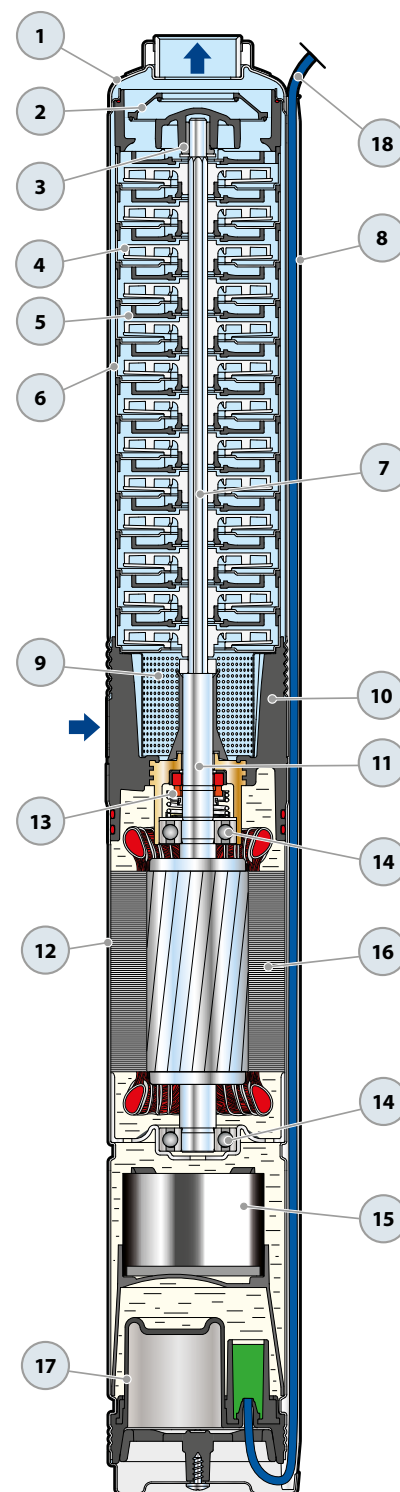
Q = Flow rate H = Total manometric head

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

# 4BLOCK® 4" monoblock submersible pumps

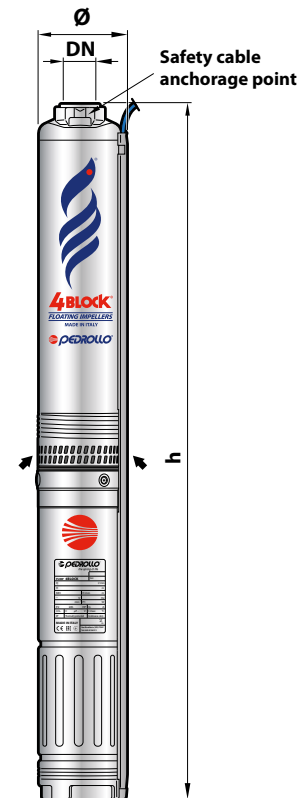
## POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	<b>DELIVERY BODY AND EXTERNAL SLEEVE</b>	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1.			
2	<b>FOOT VALVE</b>	Noryl			
3	<b>PUMP BEARING</b>	Fixed part in EPDM			
4	<b>IMPELLERS</b>	Delrin made			
5	<b>DIFFUSERS</b>	Noryl made			
6	<b>STAGE CASING</b>	Stainless steel AISI 304			
7	<b>PUMP SHAFT</b>	Stainless steel AISI 304			
8	<b>CABLE COVER</b>	Stainless steel AISI 304			
9	<b>FILTER</b>	Stainless steel AISI 304			
10	<b>MOTOR BRACKET</b>	Tecnopolymer & brass			
11	<b>ROTOR SHAFT</b>	Stainless steel AISI 431			
12	<b>MOTOR SLEEVE</b>	Stainless steel AISI 304			
13	<b>MECHANICAL SEAL</b>				
	<i>Seal</i>	<i>Shaft</i>			
	<i>Model</i>	<i>Diameter</i>			
	<i>Stationary ring</i>	<i>Rotational ring</i>			
	<i>Materials</i>	<i>Elastomer</i>			
	ST1-16	Ø 16 mm	Ceramic	Graphite	NBR
14	<b>BEARINGS</b>	<b>6203 / 6203</b>			
15	<b>CAPACITOR</b>				
	<i>Pump</i>	<i>Capacitance</i>			
	<i>Single-phase</i>	<i>(230 V o 240 V)</i>			
	4BLOCK – 0.37 kW	20 µF - 450 VL			
	4BLOCK – 0.55 kW	20 µF - 450 VL			
	4BLOCK – 0.75 kW	35 µF - 450 VL			
	4BLOCK – 1.1 kW	35 µF - 450 VL			
	<b>ELECTRIC MOTOR</b>				
	Submersible PEDROLLO motor, suitable for continuous duty, rewindable in oil bath (non-toxic oil for food use).				
16	4BLOCKm: single-phase 230 V - 50 Hz Motor with built-in capacitor. Thermal overload protector incorporated into the winding.				
	– Insulation: class F – Protection: IP X8				
17	<b>MEMBRANE BALANCER</b>				
	<b>POWER CABLE</b>				
18	⇒ DRINCABLE® HRC type approved for use in drinking water by "ACS" in compliance with XP P 41-250, approval n. 18 MAT NY 156  <b>Standard length 20 metres</b>				



## DIMENSIONS AND WEIGHT

MODEL	PORT DN	DIMENSIONS mm			kg 1~
		N.STAGES	Ø	h	
4BLOCKm 2/6	1 1/4"	6	100	597	11.2
4BLOCKm 2/9		9		657	12.4
4BLOCKm 2/12		12		737	13.5
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
Single-phase		
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

## PALLETIZATION

MODEL	GROUPAGE n. pumps
4BLOCKm 2/6	55
4BLOCKm 2/9	55
4BLOCKm 2/12	55
4BLOCKm 2/18	55
4BLOCKm 4/4	55
4BLOCKm 4/6	55
4BLOCKm 4/8	55
4BLOCKm 4/13	55
4BLOCKm 6/3	55
4BLOCKm 6/5	55
4BLOCKm 6/7	55
4BLOCKm 6/10	55
4BLOCKm 8/3	55
4BLOCKm 8/5	55
4BLOCKm 8/8	55

## STANDARD INSTALLATION

