4" monoblock submersible pumps

NEW



4BLOCK®

FLOATING IMPELLERS
PATENTED SYSTEM

MADE IN ITALY

PEDROLLO®
the spring of life

ECO FRIENDLY

4BLOCK®

Domestic use

Civil use

Uso agricolo

Clean water
(Maximum sand content 200 g/m³)



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/m³.**

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 m³/h)
- Head up to **140 m**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **200 g/m³**
- 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

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

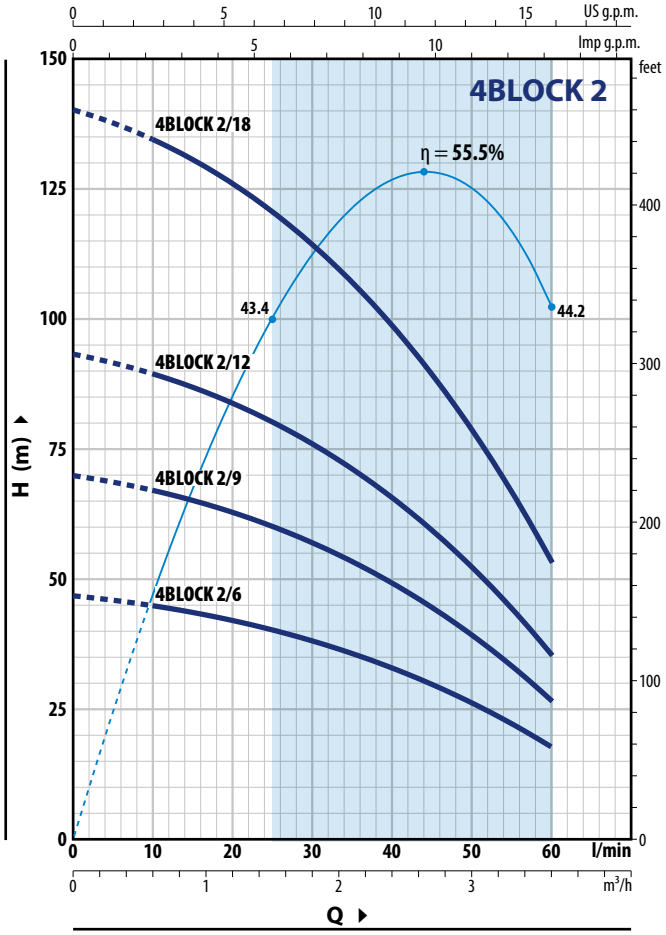
EAC CE

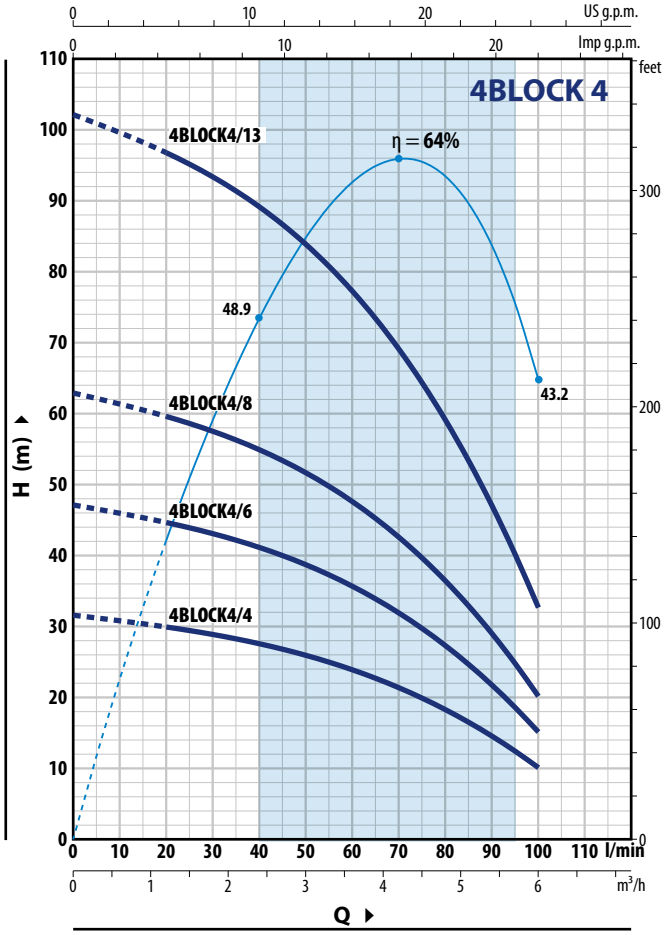
ECO FRIENDLY

ErP ready RoHS2 COMPLIANT REACH COMPLIANT EMC COMPLIANT

4BLOCK® 4" monoblock submersible pumps

CHARACTERISTIC CURVES AND PERFORMANCE DATA 50 Hz n= 2900 min^{-1}





4BLOCK 2

MODEL	POWER (P2)		Q	m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6
Single-phase	kW	HP		l/min	**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

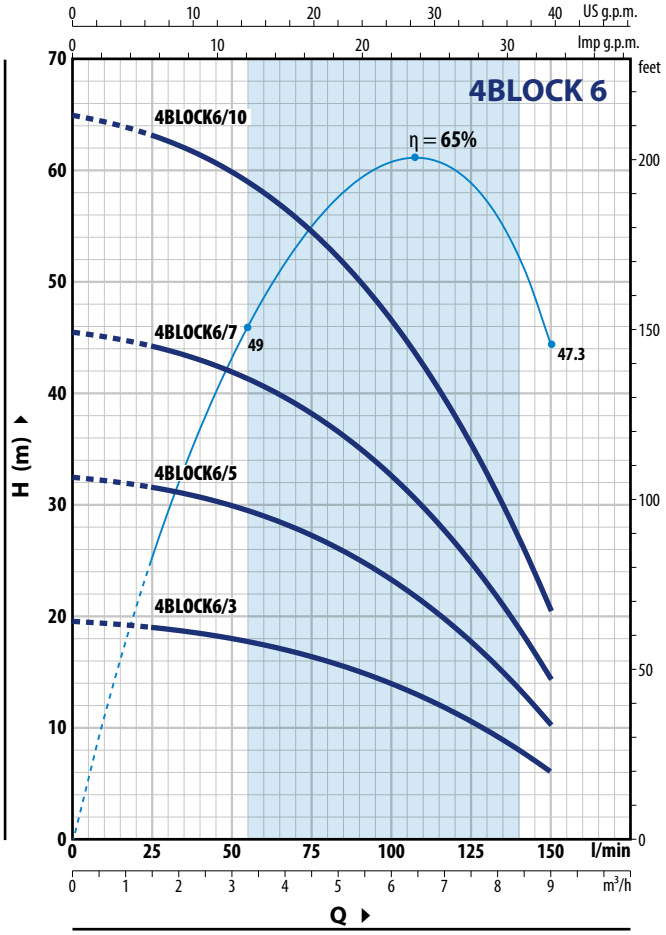
4BLOCK 4

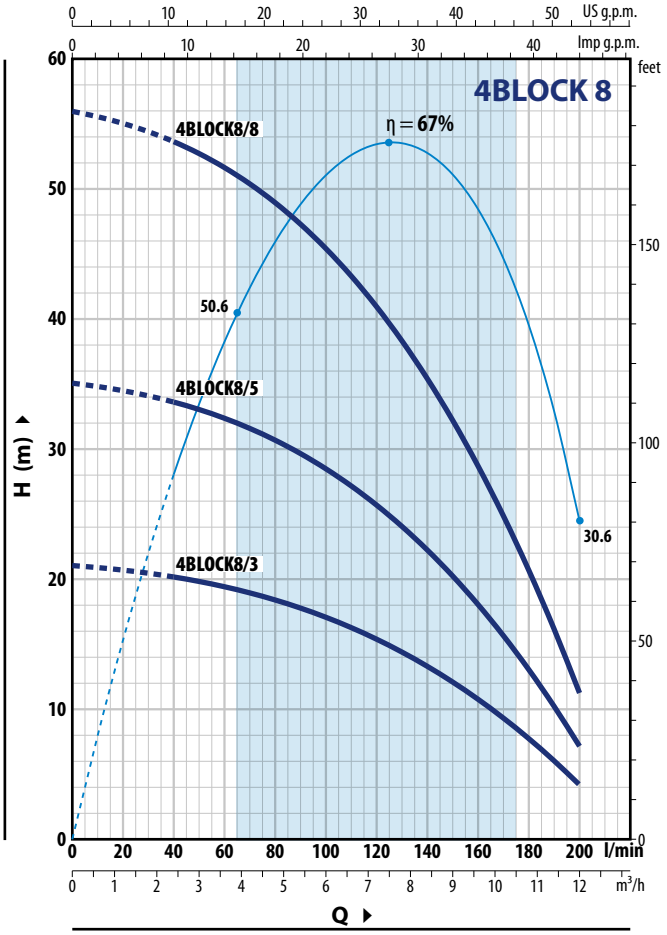
MODEL	POWER (P2)		Q	m³/h	0	1.2	1.5	2.4	3.6	4.5	6.0
Single-phase	kW	HP		l/min	**0**	**20**	**25**	**40**	**60**	**75**	**100**
4BLOCKm 4/4	0.37	0.50	H	metres	31.5	30	29.5	27.5	23.8	19.8	10
4BLOCKm 4/6	0.55	0.75			47	44.5	44	41	35.5	29.5	15
4BLOCKm 4/8	0.75	1			63	59.5	58.5	55	47.5	39.5	20
4BLOCKm 4/13	1.1	1.5			102	97	95	89	77	64.5	32.5

Q = Flow rate **H** = Total manometer 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 (P2)		Q	m³/h	0	1.5	2.4	3.6	4.5	6.0	7.5	9.0
Single-phase	kW	HP		l/min	**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 (P2)		Q	m³/h	0	2.4	3.6	4.5	6.0	7.5	9.0	10.5	12
Single-phase	kW	HP		l/min	**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	**DELIVERY BODY AND EXTERNAL SLEEVE**	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1.
2	**FOOT VALVE**	Noryl
3	**PUMP BEARING**	Fixed part in EPDM
4	**IMPELLERS**	Delrin made
5	**DIFFUSERS**	Noryl made
6	**STAGE CASING**	Stainless steel AISI 304
7	**PUMP SHAFT**	Stainless steel AISI 304
8	**CABLE COVER**	Stainless steel AISI 304
9	**FILTER**	Stainless steel AISI 304
10	**MOTOR BRACKET**	Tecnopolymer & brass
11	**ROTOR SHAFT**	Stainless steel AISI 431
12	**MOTOR SLEEVE**	Stainless steel AISI 304
13	**MECHANICAL SEAL**	

Seal	*Shaft*		*Materials*	
Model	***Diameter***	*Stationary ring*	*Rotational ring*	*Elastomer*
ST1-16	**Ø 16** mm	Ceramic	Graphite	NBR

14	**BEARINGS**	**6203 / 6203**

15 **CAPACITOR**

Pump	*Capacitance*
Single-phase	***(230 V o 240 V)***
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

16 **ELECTRIC MOTOR**

Submersible PEDROLLO motor, suitable for continuous duty, rewindable in oil bath (non-toxic oil for food use).

4BLOCKm: single-phase 230 V - 50 Hz
Motor with built-in capacitor.
Thermal overload protector incorporated into the winding.

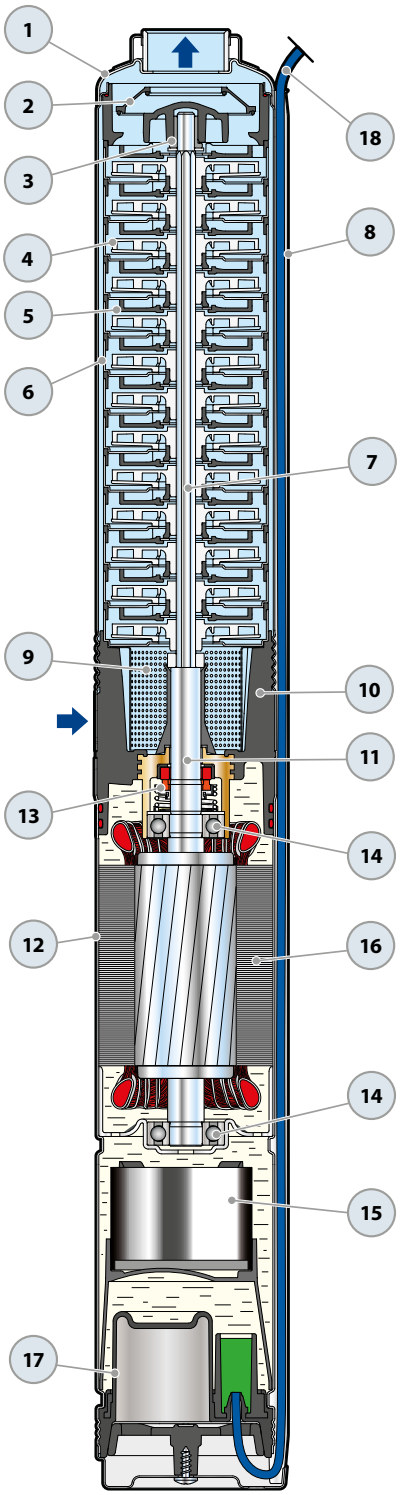
– Insulation: class F
– Protection: IP X8

17	**MEMBRANE BALANCER**	

18 **POWER CABLE**

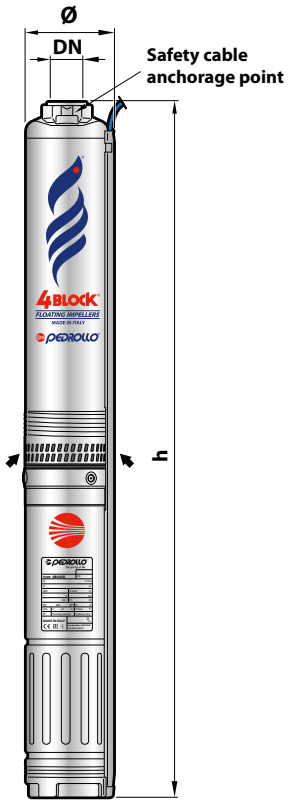
➠ **DRINCABLE® HRC type**
approved for use in drinking water by "ACS"
in compliance with XP P 41-250, approval n. 18 MAT NY 156

Standard length 20 metres



DIMENSIONS AND WEIGHT

MODEL	PORT	DIMENSIONS mm			kg
Single-phase	DN	N.STAGES	Ø	h	1~
4BLOCKm 2/6		6		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	1¼"	13	100	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**



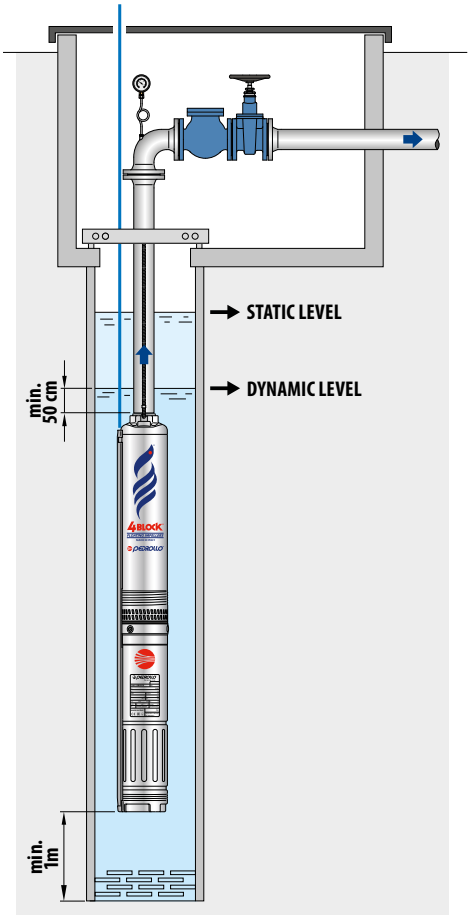
ABSORPTION

MODEL	VOLTAGE	
Single-phase	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

PALLETIZATION

MODEL	GROUPAGE
Single-phase	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



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MADE IN ITALY