

## 4" monoblock submersible pumps

 Clean water  
(Maximum sand content 200 g/m<sup>3</sup>)

 Domestic use

 Civil use

 Agricultural use



### PERFORMANCE RANGE

- Flow rate up to **225 l/min** (13.5 m<sup>3</sup>/h)
- Head up to **124 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**

### 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.

### CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1  
IEC 60335-1  
CEI 61-150

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



### PATENTS - TRADE MARKS - MODELS

- European Patents n. EP3123031, EP2419642

### OPTIONS AVAILABLE ON REQUEST

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

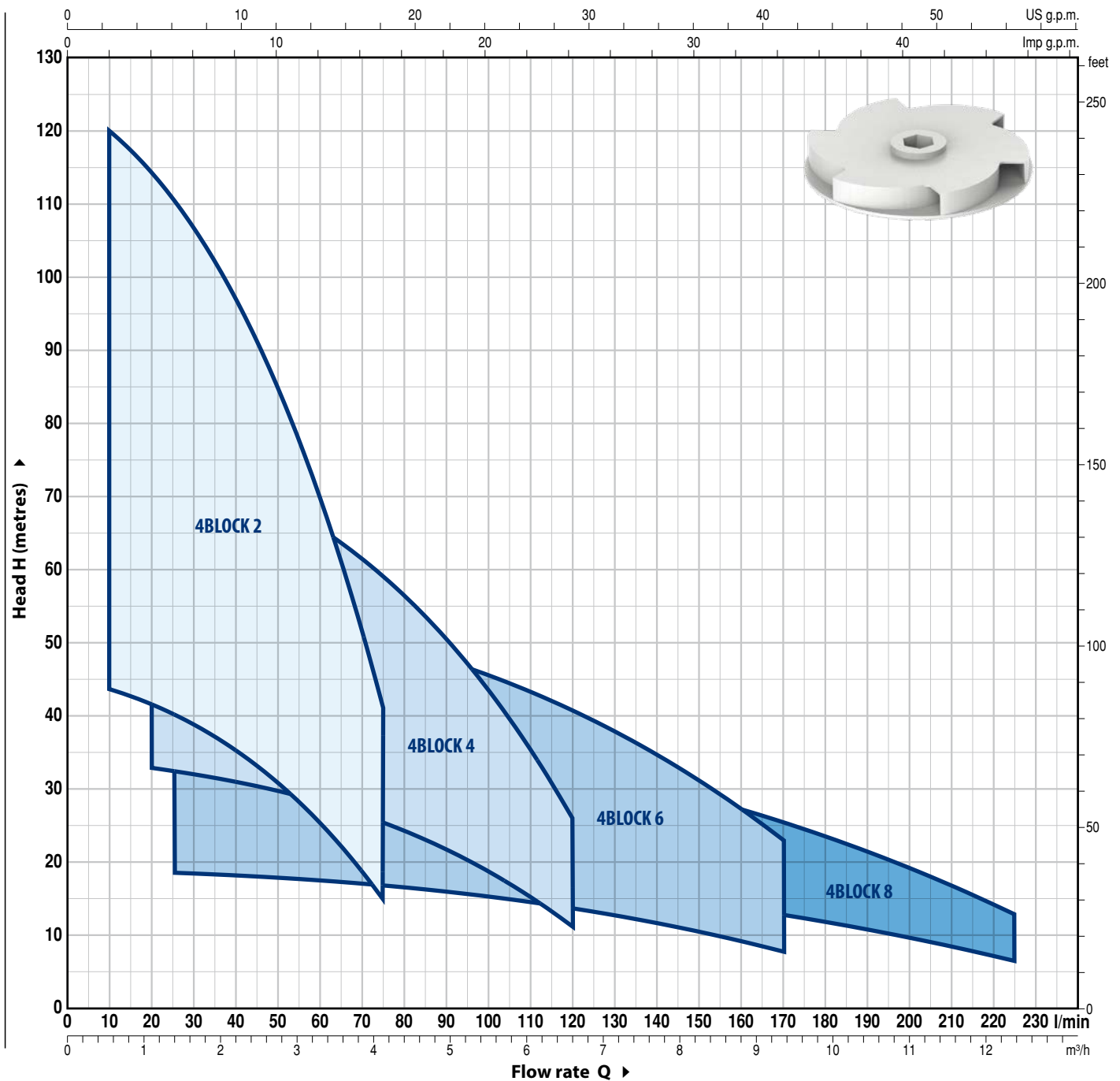
### GUARANTEE

2 years subject to terms and conditions



**PERFORMANCE RANGE**

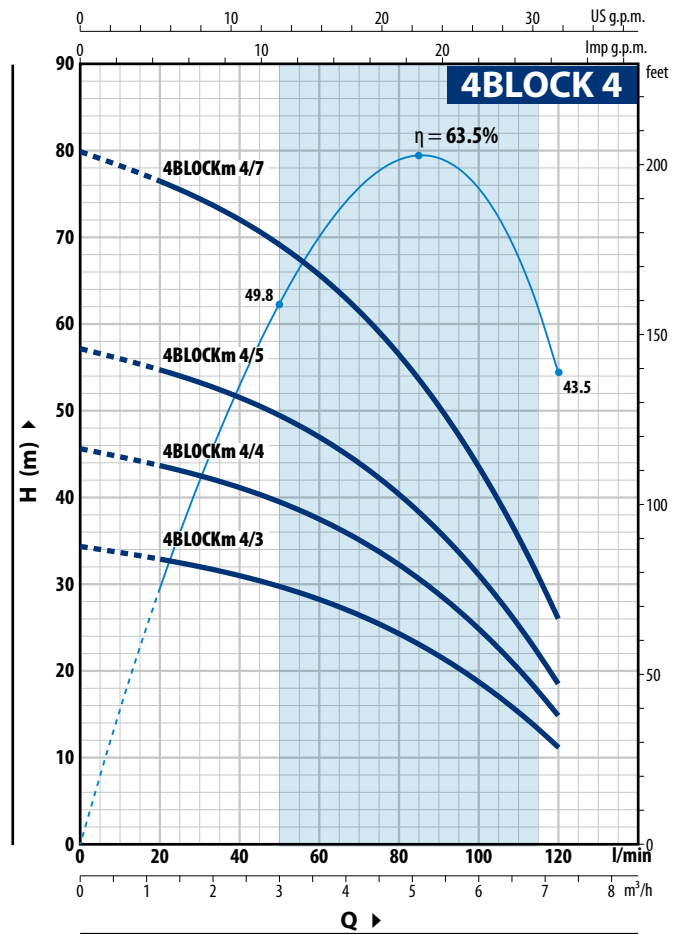
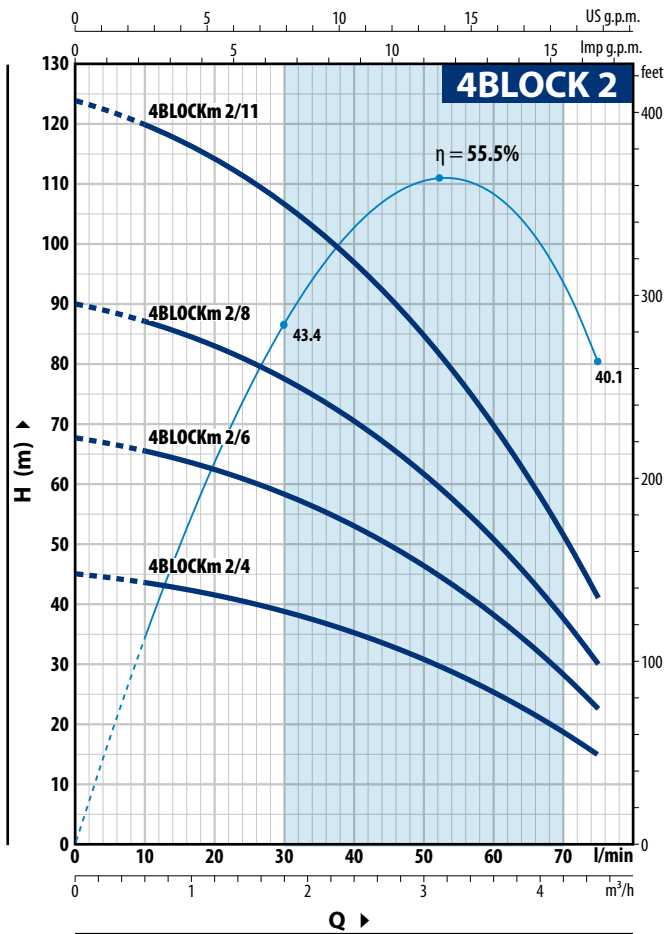
**60 Hz n= 3450 min<sup>-1</sup>**



- **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.**
- **Increased performances on all the working curve.**
- **Max sand content 200 g/m<sup>3</sup>.**

### CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 min<sup>-1</sup>



#### 4BLOCK 2

MODEL	POWER (P <sub>2</sub> )		Q	Flow rate									
	kW	HP		m <sup>3</sup> /h	l/min	0	0.6	1.2	1.8	2.4	3	3.6	4.5
Single-phase				0	10	20	30	40	50	60	75		
4BLOCKm 2/4	0.37	0.50	H metres	45	43.5	41.5	38.5	35	31	25.5	15		
4BLOCKm 2/6	0.55	0.75		67.5	65.5	62	58	53	46	38	22.5		
4BLOCKm 2/8	0.75	1		90	87	83	77	70	61.5	50.5	30		
4BLOCKm 2/11	1.1	1.5		124	120	114	107	97	85	69.5	41		

#### 4BLOCK 4

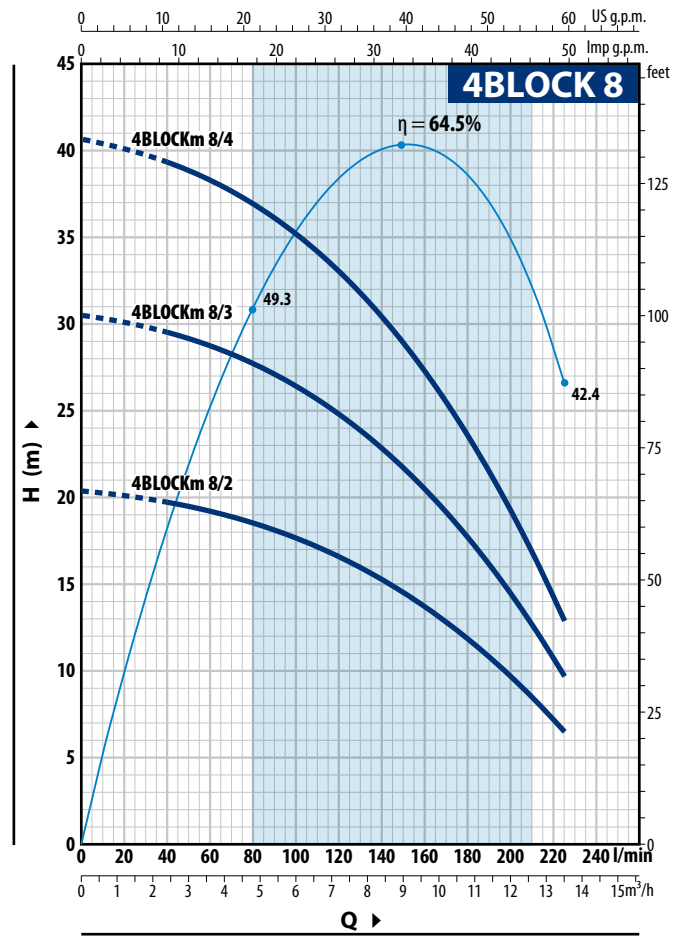
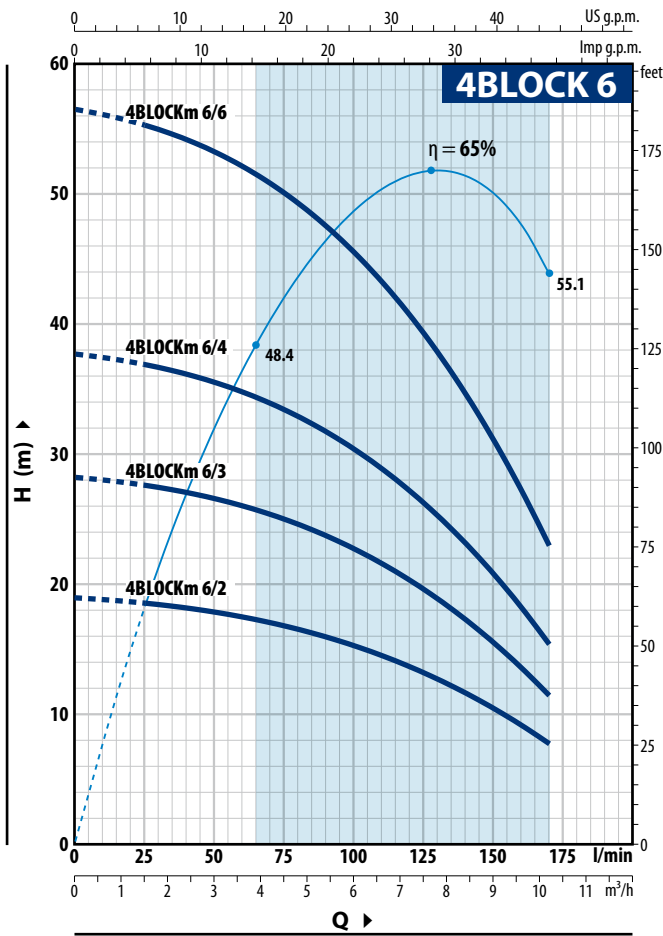
MODEL	POWER (P <sub>2</sub> )		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	l/min	0	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6
Single-phase				0	20	30	40	50	60	70	80	90	100	120	
4BLOCKm 4/3	0.37	0.50	H metres	34.5	33	32	31	29.5	28	26.4	24.2	21.7	18.7	11	
4BLOCKm 4/4	0.55	0.75		45.5	43.5	42.5	41	39.5	37.5	35	32.5	29	24.9	15	
4BLOCKm 4/5	0.75	1		57	54.5	53	51.5	49.5	47	44	40.5	36	31	18.5	
4BLOCKm 4/7	1.1	1.5		80	77	75	72	69	65.5	61.5	56.5	50.5	43.5	26	

Q = Flow rate H = Total manometric head

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

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 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	3	4.5	6	7.5	9	10.2			
Single-phase			l/min	0	25	50	75	100	125	150	170				
4BLOCKm 6/2	0.37	0.50	H metres	19	18.5	17.8	16.8	15.2	13.2	10.4	7.5				
4BLOCKm 6/3	0.55	0.75		28.5	28	26.7	25.2	22.9	19.7	15.6	11.5				
4BLOCKm 6/4	0.75	1		38	37	35.5	33.5	30.5	26.3	20.8	15.5				
4BLOCKm 6/6	1.1	1.5		57	55.5	53.5	50.5	45.5	39.5	31.5	23				

### 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	7.5	9	10.5	12	13.5	
Single-phase			l/min	0	40	60	75	100	125	150	175	200	225		
4BLOCKm 8/2	0.55	0.75	H metres	20.5	19.5	19.2	18.7	17.6	16.2	14.5	12.3	9.6	6.5		
4BLOCKm 8/3	0.75	1		30.5	29.5	29	28	26.4	24.3	21.7	18.4	14.4	9.5		
4BLOCKm 8/4	1.1	1.5		40.5	39.5	38.5	37.5	35	32.5	29	24.6	19.2	13		

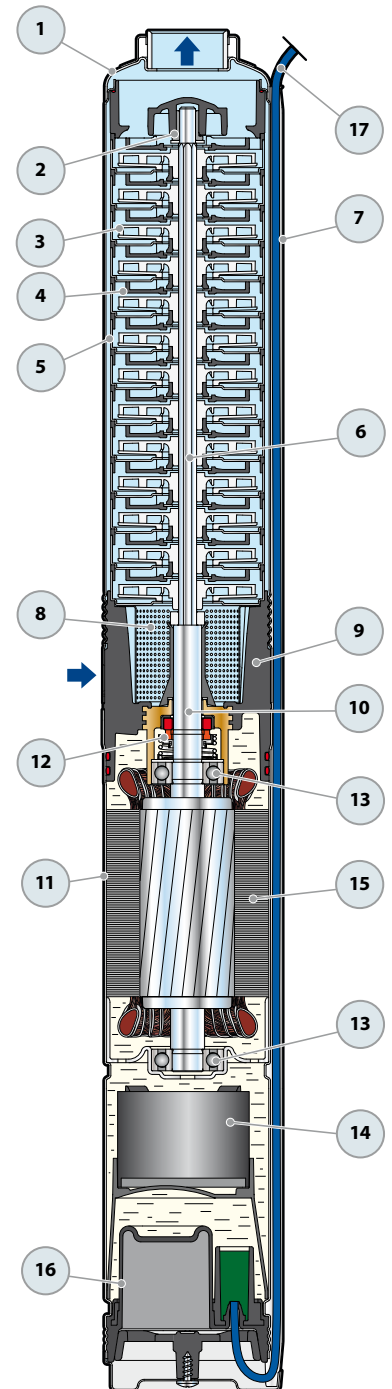
Q = Flow rate H = Total manometric head

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

### POS. COMPONENT

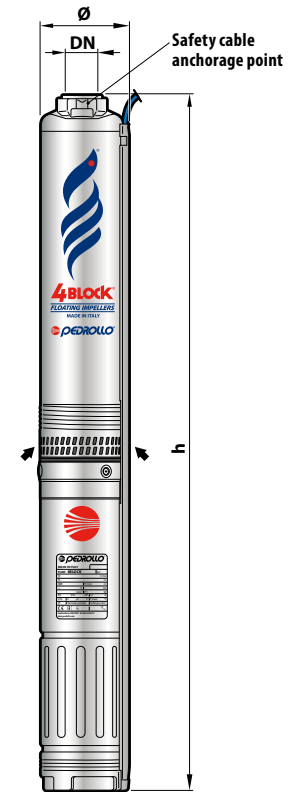
### CONSTRUCTION CHARACTERISTICS

<b>1 DELIVERY BODY AND EXTERNAL SLEEVE</b>	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1.				
<b>2 PUMP BEARING</b>	Fixed part in EPDM				
<b>3 IMPELLERS</b>	Delrin				
<b>4 DIFFUSERS</b>	Noryl				
<b>5 STAGE CASING</b>	Stainless steel AISI 304				
<b>6 PUMP SHAFT</b>	Stainless steel AISI 304				
<b>7 CABLE COVER</b>	Stainless steel AISI 304				
<b>8 FILTER</b>	Stainless steel AISI 304				
<b>9 MOTOR BRACKET</b>	Tecnopolymer and brass				
<b>10 MOTOR SHAFT</b>	Stainless steel AISI 431				
<b>11 MOTOR SLEEVE</b>	Stainless steel AISI 304				
<b>12 MECHANICAL SEAL</b>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
	ST1-16	Ø 16 mm	Ceramic	Graphite	NBR
<b>13 BEARINGS</b>	<b>6203 / 6203</b>				
<b>14 CAPACITOR</b>	<b>EN 60252-1/A1</b> 				
<b>15 ELECTRIC MOTOR</b>	Submersible PEDROLLO motor, suitable for continuous duty, rewindable in oil bath (non-toxic oil for food use). <b>4BLOCKm:</b> single-phase 220 V - 60 Hz Motor with built-in capacitor. Thermal overload protector incorporated into the winding. – Insulation: class FF – Protection: IP X8				
<b>16 MEMBRANE BALANCER</b>					
<b>17 POWER CABLE</b>	<p>⇒ Di tipo DRINCABLE® HRC approved for use in drinking water by "ACS" in compliance with XP P 41-250, approval n. 18 MAT NY 156</p> <p><b>Standard length 20 metres</b></p>				



## DIMENSIONS AND WEIGHT

MODEL	PORT DN	N. STAGES	DIMENSIONS mm		kg
			Ø	h	
Single-phase					1~
4BLOCKm 2/4	1¼"	4	100	557	10.4
4BLOCKm 2/6		6		597	11.2
4BLOCKm 2/8		8		657	12.7
4BLOCKm 2/11		11		767	15.7
4BLOCKm 4/3		3		552	10.3
4BLOCKm 4/4		4		577	10.8
4BLOCKm 4/5		5		622	12.0
4BLOCKm 4/7		7		722	14.8
4BLOCKm 6/2		2		540	10.0
4BLOCKm 6/3		3		572	10.6
4BLOCKm 6/4		4		623	11.9
4BLOCKm 6/6		6		736	14.3
4BLOCKm 8/2		2		540	10.0
4BLOCKm 8/3		3		592	11.3
4BLOCKm 8/4		4		673	13.1



## ABSORPTION

MODEL	VOLTAGE	
	220 V	110 V
Single-phase	220 V	110 V
4BLOCKm – 0.37 kW	4.0 A	8.0 A
4BLOCKm – 0.55 kW	4.7 A	9.4 A
4BLOCKm – 0.75 kW	6.6 A	13.2 A
4BLOCKm – 1.1 kW	8.3 A	–

## CAPACITORS

MODEL	CAPACITANCE	
	220 V	110 V or 127 V
Single-phase	220 V	110 V or 127 V
4BLOCKm – 0.37 kW	20 µF - 450 VL	35 µF - 450 VL
4BLOCKm – 0.55 kW	20 µF - 450 VL	35 µF - 450 VL
4BLOCKm – 0.75 kW	35 µF - 450 VL	70 µF - 300 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

### Typical installation

