



### 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: **20** at regular intervals
- Continuous service **S1**

### INSTALLATION AND USE

Suitable for pumping clean water from boreholes that contain sand (up to 200 g/m<sup>3</sup>).

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.

### 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

### CERTIFICATIONS

Company with management system certified DNV  
ISO 9001: QUALITY



### PATENTS - TRADE MARKS - MODELS

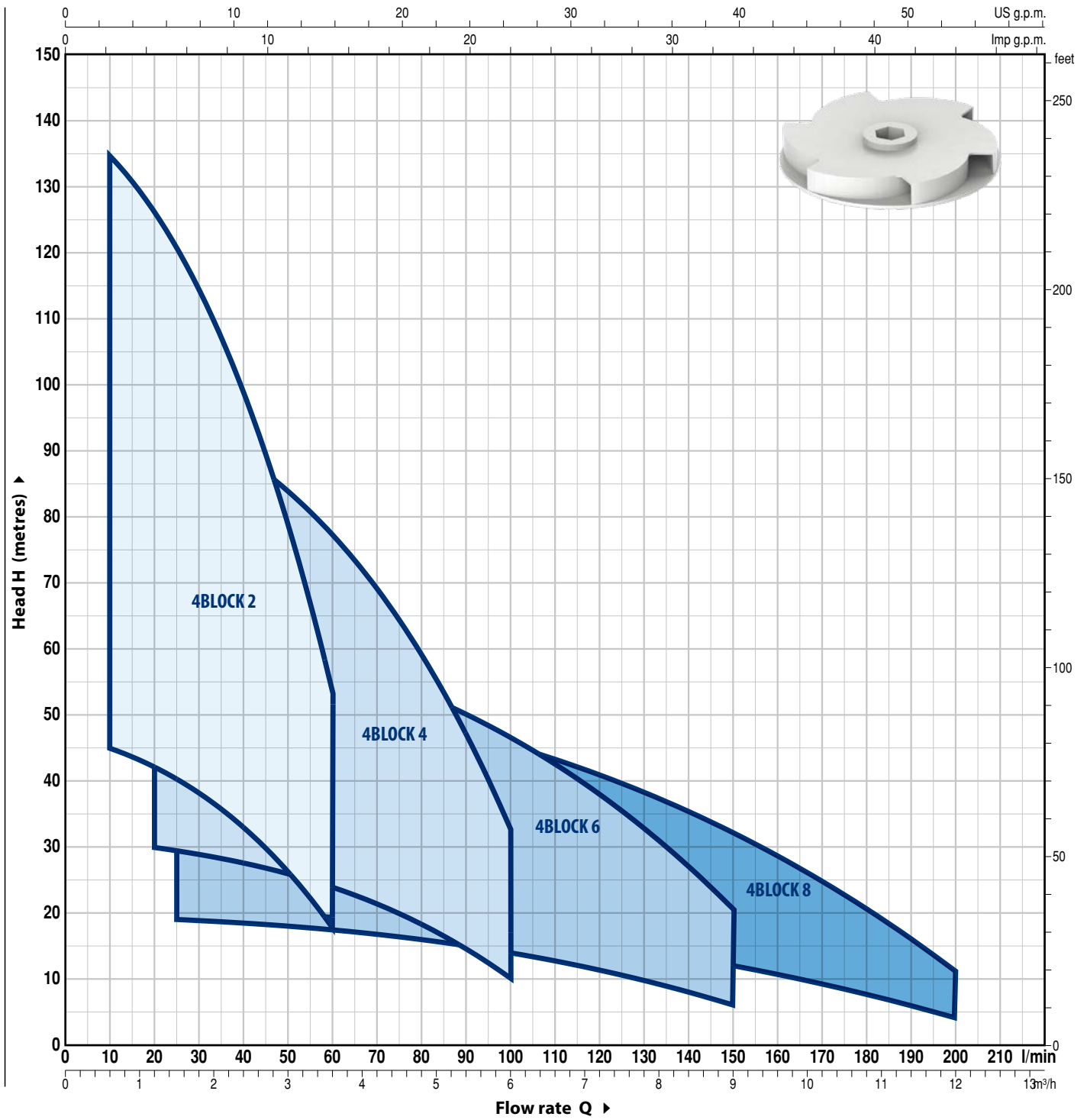
- European Patents n. n° EP3123031, EP2419642

### OPTIONS AVAILABLE ON REQUEST

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

**PERFORMANCE RANGE**

**50 Hz n= 2900 min<sup>-1</sup>**

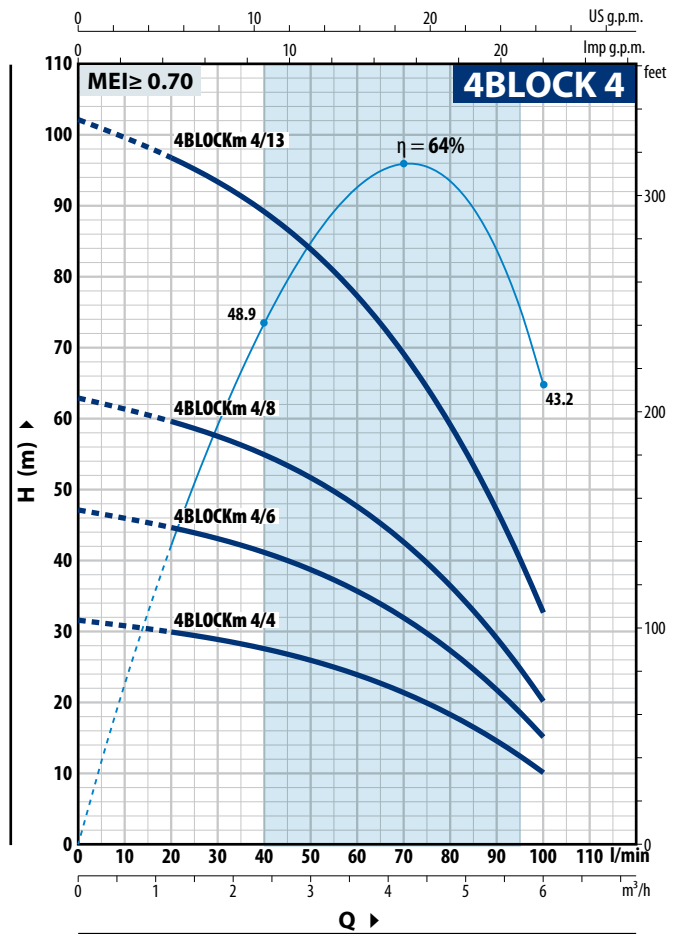
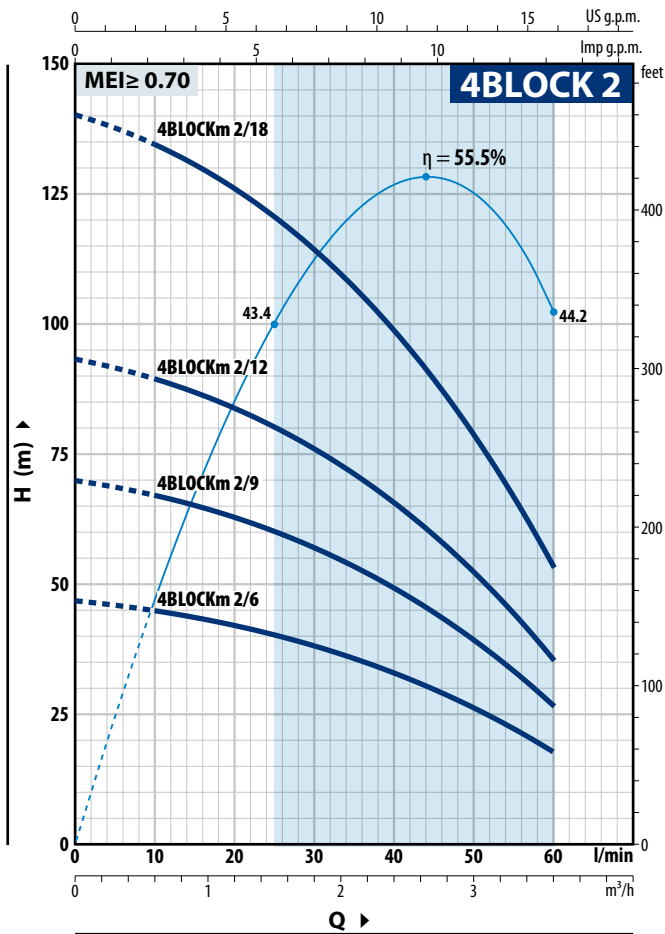


► Ready to install, stainless steel monoblock submersible pump.

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

### CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n = 2900 min<sup>-1</sup>



#### 4BLOCK 2

MODEL	POWER (P <sub>2</sub> )		Q	H metres							
	kW	HP		m <sup>3</sup> /h	0	0.6	1.2	1.8	2.4	3.0	3.6
Single-phase			l/min	0	10	20	30	40	50	60	
4BLOCKm 2/6	0.37	0.50		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

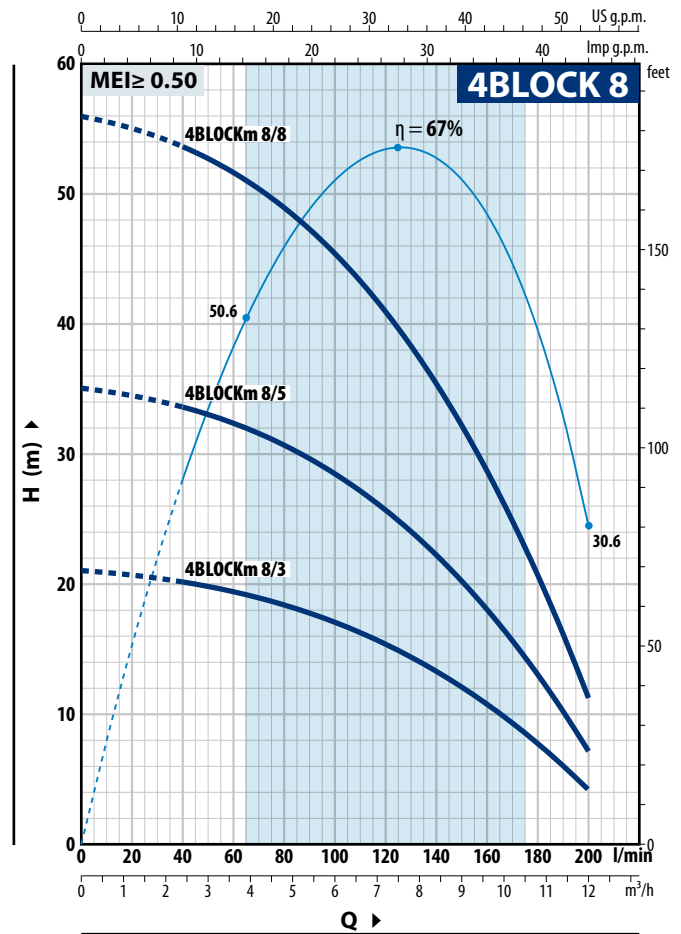
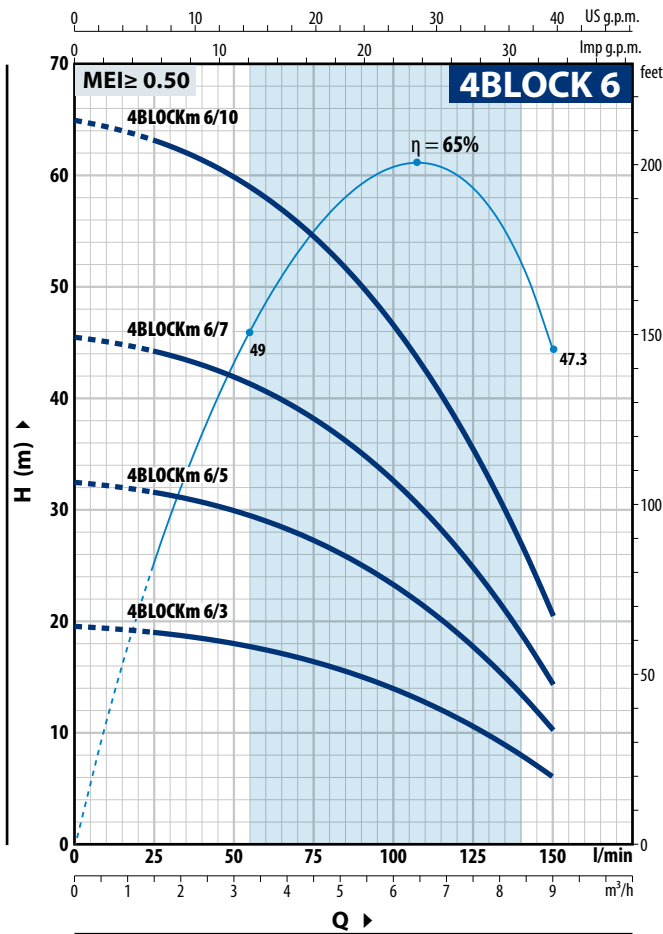
MODEL	POWER (P <sub>2</sub> )		Q	H metres							
	kW	HP		m <sup>3</sup> /h	0	1.2	1.5	2.4	3.6	4.5	6.0
Single-phase			l/min	0	20	25	40	60	75	100	
4BLOCKm 4/4	0.37	0.50		31.5	30	29.5	27.5	23.8	19.8	10	
4BLOCKm 4/6	0.55	0.75		47	44.5	44	41	35.5	29.5	15	
4BLOCKm 4/8	0.75	1		63	59.5	58.5	55	47.5	39.5	20	
4BLOCKm 4/13	1.1	1.5		102	97	95	89	77	64.5	32.5	

Q = Flow rate H = Total manometric 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	

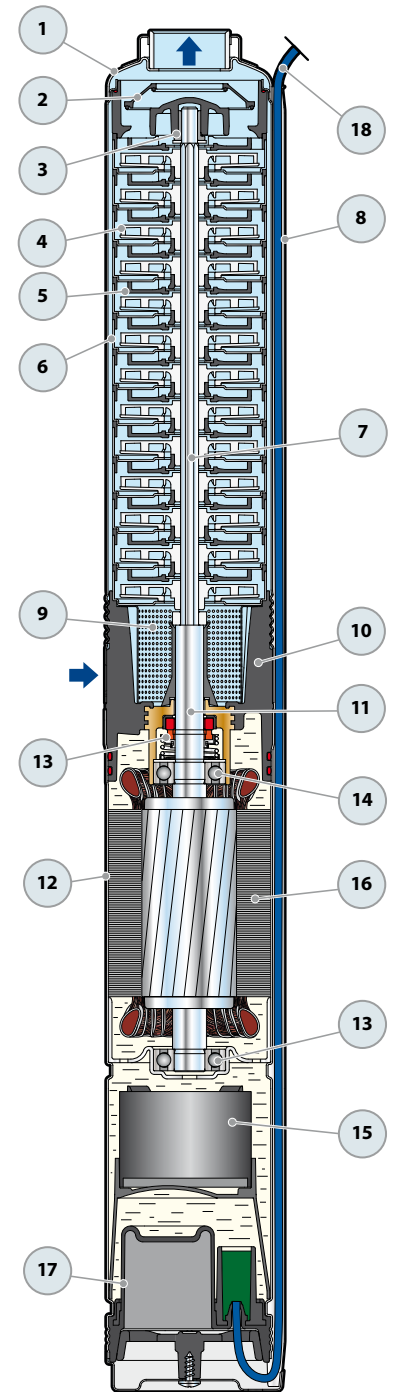
Q = Flow rate H = Total manometric head

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

**POS. COMPONENT CONSTRUCTION CHARACTERISTICS**

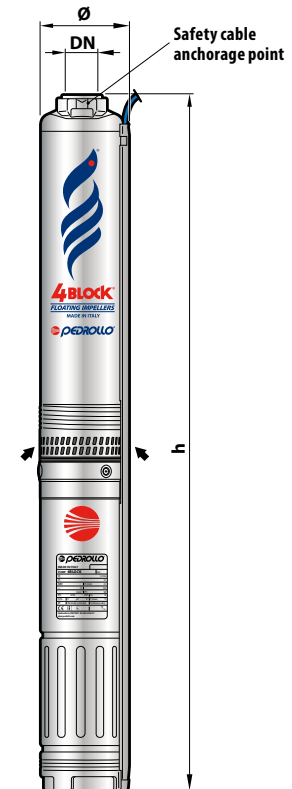
<b>1 DELIVERY BODY AND EXTERNAL SLEEVE</b>	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1.			
<b>2 CHECK VALVES</b>	Noryl			
<b>3 PUMP BEARING</b>	Fixed part in EPDM			
<b>4 IMPELLERS</b>	Delrin			
<b>5 DIFFUSERS</b>	Noryl			
<b>6 STAGE CASING</b>	Stainless steel AISI 304			
<b>7 PUMP SHAFT</b>	Stainless steel AISI 304			
<b>8 CABLE COVER</b>	Stainless steel AISI 304			
<b>9 FILTER</b>	Stainless steel AISI 304			
<b>10 MOTOR BRACKET</b>	Tecnopolymer and brass			
<b>11 MOTOR SHAFT</b>	Stainless steel AISI 431			
<b>12 MOTOR SLEEVE</b>	Stainless steel AISI 304			
<b>13 MECHANICAL SEAL</b>	<i>Seal</i>	<i>Shaft</i>	<i>Materials</i>	
	<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>
	<b>ST1-16</b>	<b>Ø 16 mm</b>	Ceramic	Graphite
<b>14 BEARINGS</b>	<b>6203 / 6203</b>			
<b>15 CAPACITOR</b>	<i>Pump</i>	<i>Capacitance</i>		
	<i>Single-phase</i>	<i>(230 V or 240 V)</i>		
	<b>4BLOCK – 0.37 kW</b>	<b>20 µF - 450 VL</b>		
	<b>4BLOCK – 0.55 kW</b>	<b>20 µF - 450 VL</b>		
	<b>4BLOCK – 0.75 kW</b>	<b>35 µF - 450 VL</b>		
	<b>4BLOCK – 1.1 kW</b>	<b>35 µF - 450 VL</b>		
<b>16 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 220-230 V - 50 Hz Motor with built-in capacitor. Thermal overload protector incorporated into the winding.			
	– Insulation: class F – Protection: IP X8			

<b>17 MEMBRANE BALANCER</b>
<b>18 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	DIMENSIONS mm			kg
		N.STAGES	Ø	h	
Single-phase					1~
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
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
Single-phase	
4BLOCKm 2	55
4BLOCKm 4	55
4BLOCKm 6	55
4BLOCKm 8	55

## Typical installation

