

# JCR2

## Self-priming "JET" pumps

-  Clean water
-  Domestic use
-  Civil use



### PERFORMANCE RANGE

- Flow rate up to **85 l/min** (5.1 m<sup>3</sup>/h)
- Head up to **60 m**

### APPLICATION LIMITS

- Manometric suction lift up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **6 bar**
- 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



### CERTIFICATIONS

Company with management system certified DNV  
ISO 9001: QUALITY



### INSTALLATION AND USE

Suitable for use with clean water and with liquids that are not chemically aggressive towards the materials from which the pump is made. The self-priming **JCR** pumps are designed to pump water even in cases where air is present. As a result of their reliability and the fact that they are easy to use, they are recommended for use in domestic applications such as the distribution of water in combination with small or medium sized pressure tanks, and for the irrigation of gardens and orchards, etc. The pump should be installed in an enclosed environment or sheltered from inclement weather.

### PATENTS - TRADE MARKS - MODELS

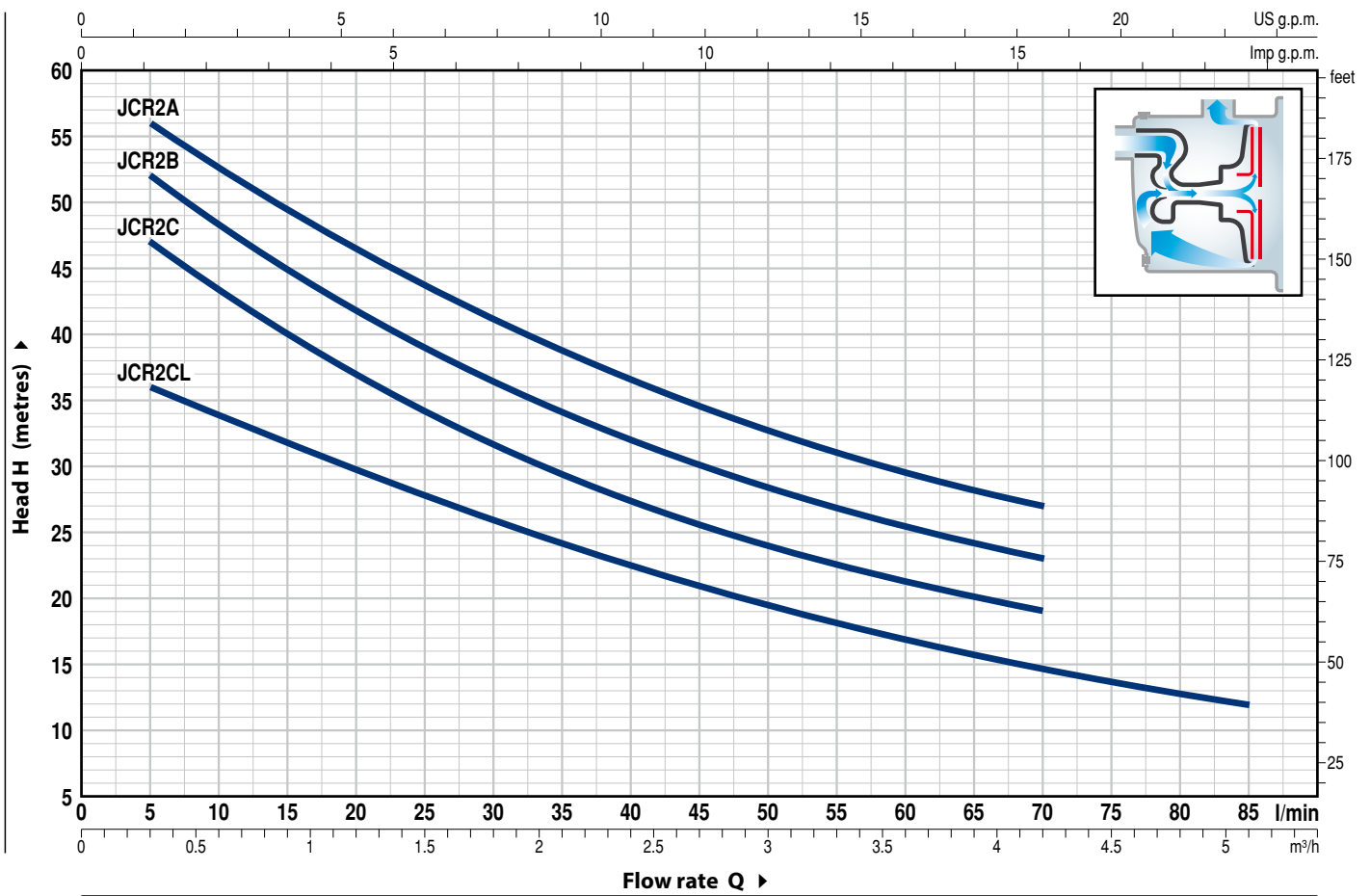
- European Patent n. 1 510 696

### OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n = 2900 min<sup>-1</sup> HS = 0 m



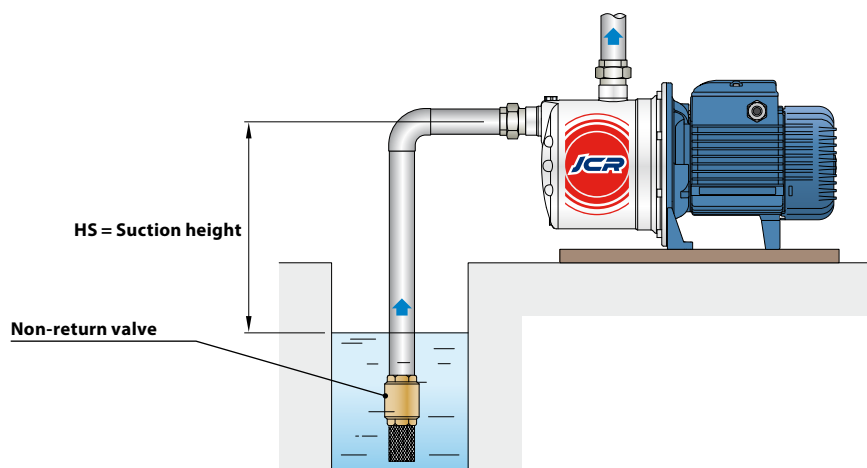
MODEL		POWER (P <sub>2</sub> )			Q	Flow rate														
Single-phase	Three-phase	kW	HP	▲		m <sup>3</sup> /h	0	0.3	0.6	1.2	1.5	1.8	2.4	2.7	3.0	3.6	4.2	4.8	5.1	
					l/min	0	5	10	20	25	30	40	45	50	60	70	80	85		
JCRm 2C	JCR 2C	0.75	1	IE3	H metres	50	47	43	37	34	31.5	27.5	25.5	24	21	19				
JCRm 2B	JCR 2B	0.90	1.25			55	52	48	42	39	36	32	30	28.5	25.5	23				
JCRm 2A	JCR 2A	1.1	1.5			60	56	53	46.5	43.5	41	36.5	34.5	32.5	29.5	27				
JCRm 2CL	JCR 2CL	0.75	1			38	36	34	29.5	28	26	22.5	21	19.5	17	14.5	12.5	12		

Q = Flow rate H = Total manometric head HS = Suction height

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

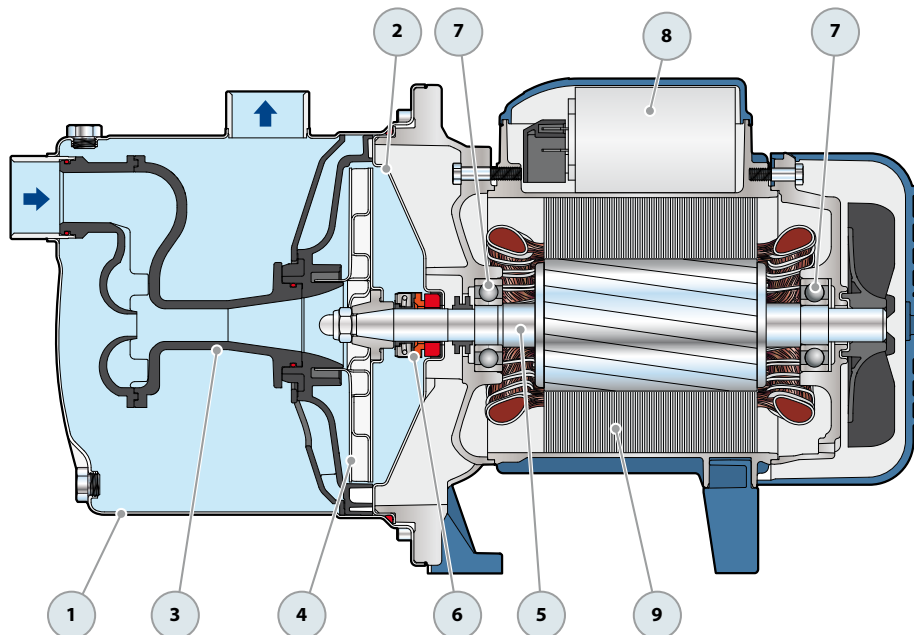
▲ Performance class of the three-phase motor (IEC 60034-30-1)

## STANDARD INSTALLATION

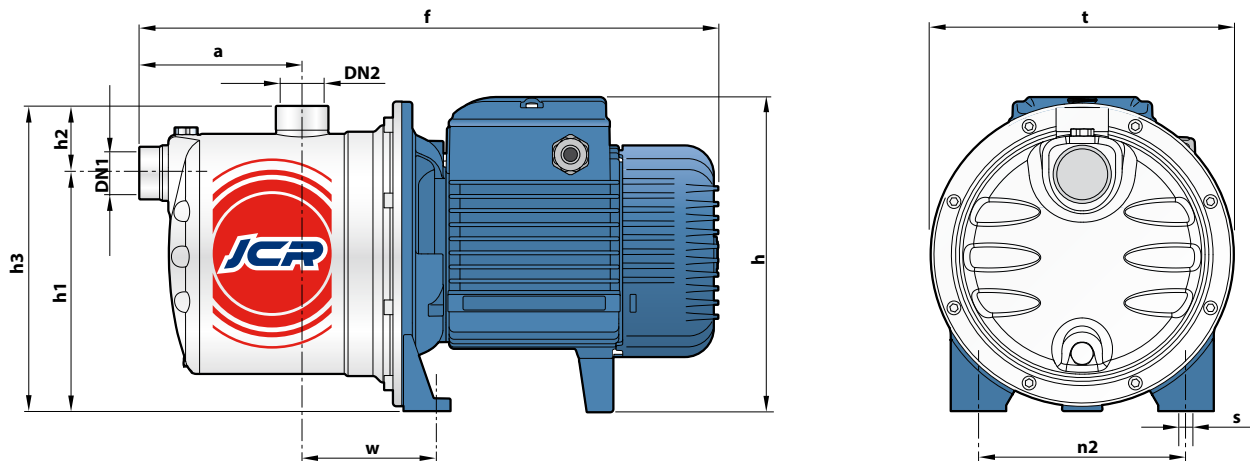


## POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	<b>PUMP BODY</b>	Stainless steel AISI 304 complete with threaded ports in compliance with ISO 228/1				
2	<b>BODY BACKPLATE</b>	Stainless steel AISI 304				
3	<b>NOZZLE ASSEMBLY</b>	Noryl FE1520PW				
4	<b>IMPELLER</b>	Stainless steel AISI 304				
5	<b>MOTOR SHAFT</b>	Stainless steel EN 10088-3 - 1.4104				
6	<b>MECHANICAL SEAL</b>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Materials</i> <i>Rotational ring</i>	<i>Elastomer</i>
		AR-14	Ø 14 mm	Ceramic	Graphite	NBR
7	<b>BEARINGS</b>	<b>6203 ZZ / 6203 ZZ</b>				
8	<b>CAPACITOR</b>	<i>Pump</i> <i>Single-phase</i>	<i>Capacitance</i> <i>(230 V or 240 V)</i>	<i>(110 V)</i>		
		JCRm 2C	20 µF - 450 VL	60 µF - 300 VL		
		JCRm 2CL	20 µF - 450 VL	60 µF - 300 VL		
		JCRm 2B	25 µF - 450 VL	60 µF - 300 VL		
		JCRm 2A	25 µF - 450 VL	60 µF - 300 VL		
9	<b>ELECTRIC MOTOR</b>	<p>JCRm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.                      JCR: three-phase 230/400 V - 50 Hz.</p> <p>⇒ <b>The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1)</b></p> <ul style="list-style-type: none"> <li>- Insulation: class F</li> <li>- Protection: IP X4</li> </ul>				



## DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm										kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	t	n2	w	s	1~	3~
JCRm 2C	JCR 2C	1"	1"	111	393	217 *	162	46	208	208	142	91	10	10.2	10.2
JCRm 2B	JCR 2B													11.1	11.1
JCRm 2A	JCR 2A													11.8	11.5
JCRm 2CL	JCR 2CL													10.2	10.2

(\*) h=236 mm for single phase versions at 110 V

## ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase	230 V	240 V	110 V
JCRm 2C	4.7 A	4.5 A	9.4 A
JCRm 2B	5.8 A	5.6 A	11.6 A
JCRm 2A	6.2 A	5.7 A	12.0 A
JCRm 2CL	3.8 A	3.6 A	7.6 A

MODEL	VOLTAGE					
	230 V	400 V	690 V	240 V	415 V	720 V
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
JCR 2C	3.5 A	2.0 A	1.2 A	3.4 A	1.9 A	1.1 A
JCR 2B	4.6 A	2.7 A	1.6 A	4.5 A	2.6 A	1.5 A
JCR 2A	5.1 A	3.0 A	1.7 A	4.9 A	2.8 A	1.7 A
JCR 2CL	3.3 A	1.9 A	1.1 A	3.1 A	1.8 A	1.1 A

## PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
JCRm 2C	JCR 2C	60	80
JCRm 2B	JCR 2B	60	80
JCRm 2A	JCR 2A	60	80
JCRm 2CL	JCR 2CL	60	80