

# JCR1

## Self-priming "JET" pumps

 Clean water

 Domestic use



### PERFORMANCE RANGE

- Flow rate up to **60 l/min** (3.6 m<sup>3</sup>/h)
- Head up to **48 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. Because 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. Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

### PATENTS - TRADE MARKS - MODELS

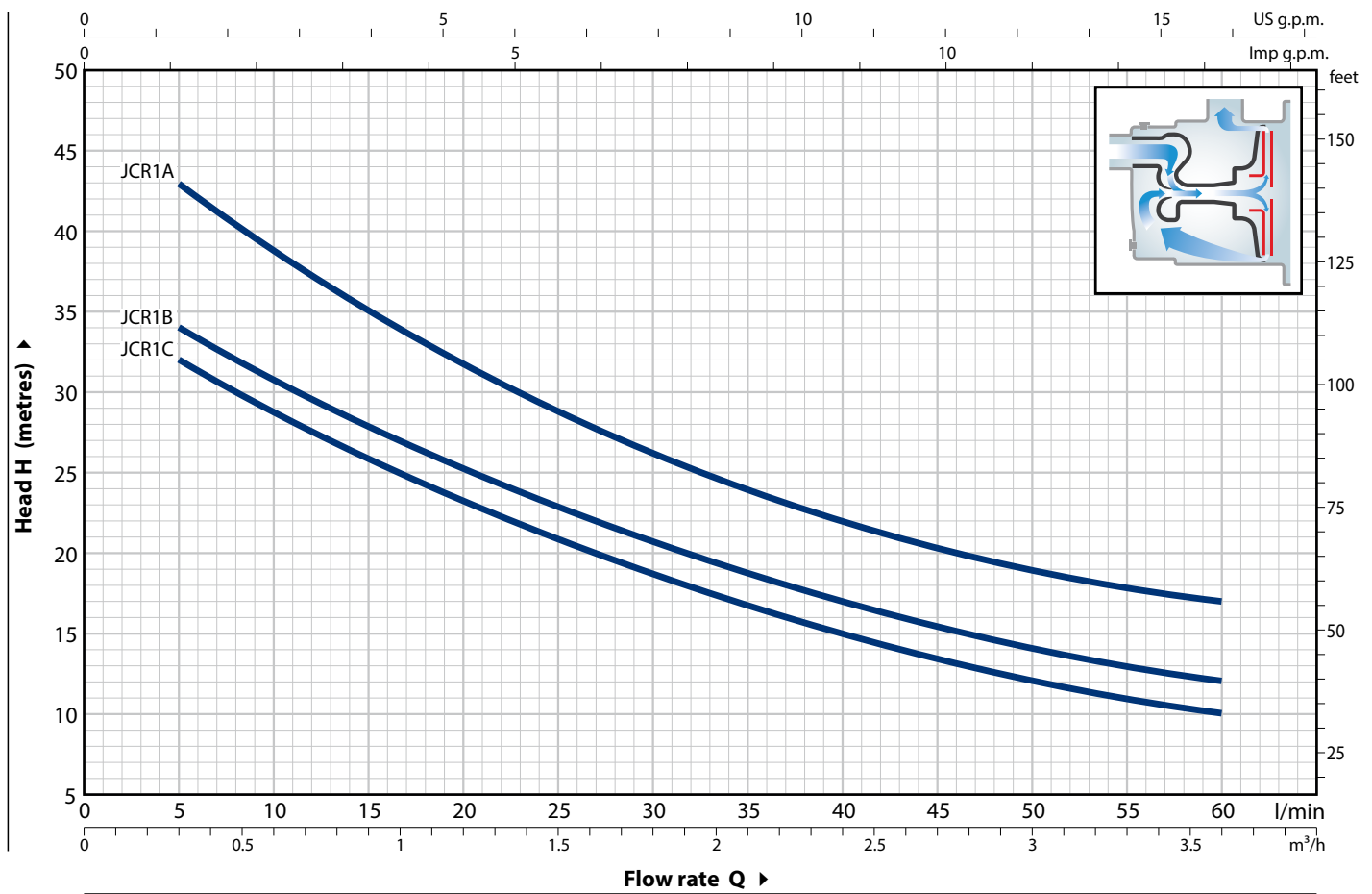
- European Patent n. 1 510 696

### 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
					l/min	0	5	10	20	25	30	40	45	50	60
JCRm 1C	JCR 1C	0.37	0.50	IE2	H metres	35	32	28.5	23.5	21	18.5	15	13.5	12	10
JCRm 1B	JCR 1B	0.48	0.65			37	34	30.5	25.5	23	20.5	17	15.5	14	12
JCRm 1A	JCR 1A	0.55	0.75	IE3		48	43	39	31.5	28.5	26	22	20.5	19	17

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

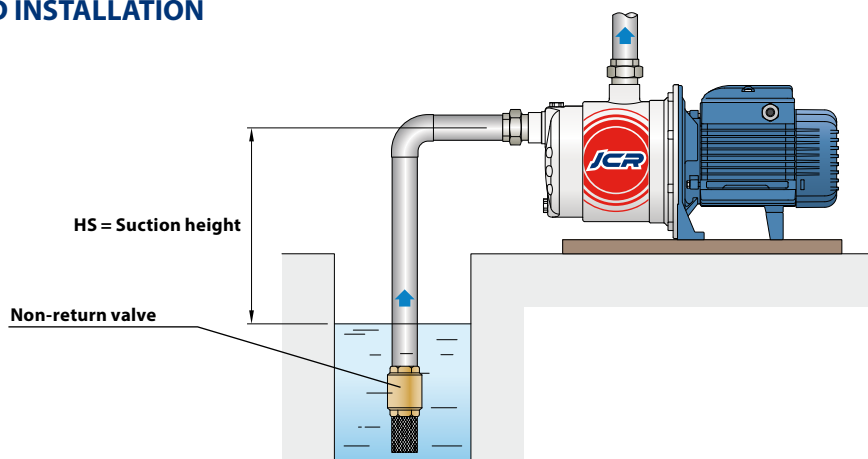
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three-phase motor efficiency class (IEC 60034-30-1)

  = Stocked in Australia

Other models available upon request with 6 to 8 weeks lead time.

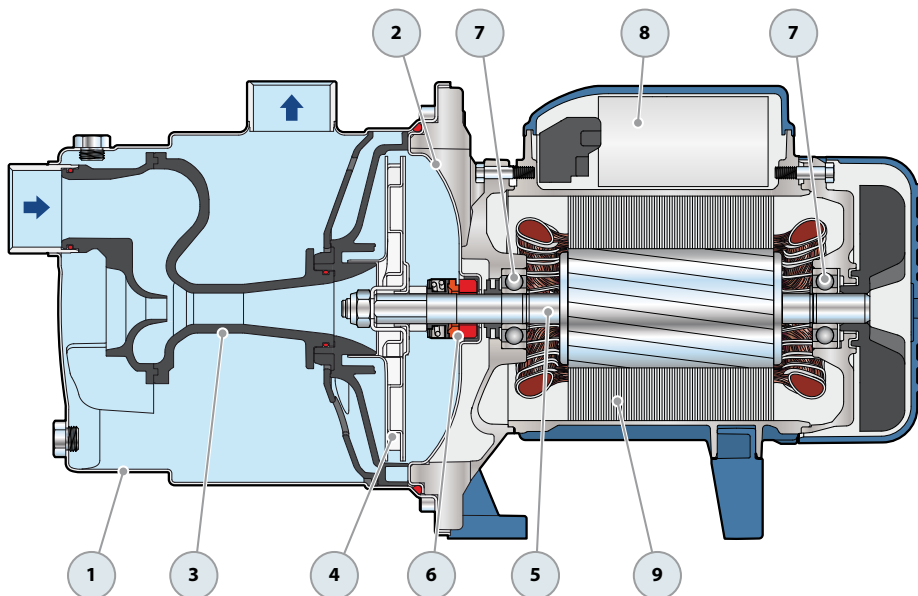
## STANDARD INSTALLATION



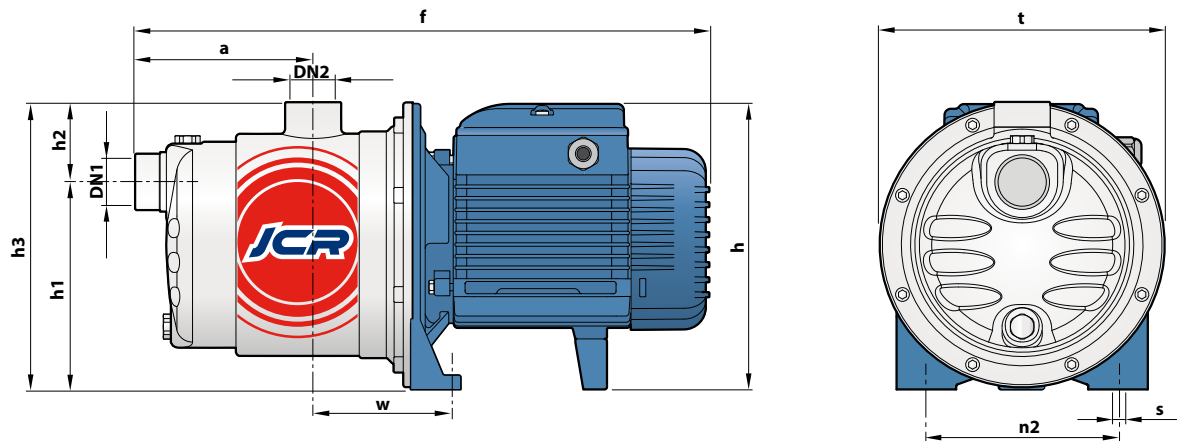
## POS. COMPONENT CONSTRUCTION CHARACTERISTICS

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 AISI 431				
6	<b>MECHANICAL SEAL</b>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Materials Rotational ring</i>	<i>Elastomer</i>
		AR-12	Ø 12 mm	Ceramic	Graphite	NBR
7	<b>BEARINGS</b>	6201 ZZ / 6201 ZZ				
8	<b>CAPACITOR</b>	<i>Pump Single-phase</i>	<i>Capacitance (230 V or 240 V)</i>	<i>(110 V)</i>		
		JCRm 1C	10 µF - 450 VL	25 µF - 250 VL		
		JCRm 1B	10 µF - 450 VL	25 µF - 250 VL		
		JCRm 1A	14 µF - 450 VL	25 µF - 250 VL		

- 9 **ELECTRIC MOTOR**      JCRm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.  
 JCR: three-phase 230/400 V - 50 Hz.
- ⇒ **The three-phase pumps are fitted with high performance motors up to P<sub>2</sub>=0.48 kW in class IE2 and from P<sub>2</sub>=0.55 kW in class IE3 (IEC 60034-30-1)**
- Insulation: class F
  - Protection: IP X4



## 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 1C	JCR 1C	1"	1"	113	367	183	132	51	183	182	120	87	9	6.9	7.0
JCRm 1B	JCR 1B													6.9	6.9
JCRm 1A	JCR 1A													7.6	6.9

## ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
JCRm 1C	2.5 A	2.4 A	5.0 A
JCRm 1B	3.0 A	2.9 A	6.0 A
JCRm 1A	3.6 A	3.3 A	7.3 A

MODEL	VOLTAGE					
	230 V	400 V	690 V	240 V	415 V	720 V
JCR 1C	1.7 A	1.0 A	0.6 A	1.7 A	1.0 A	0.6 A
JCR 1B	2.1 A	1.2 A	0.7 A	2.1 A	1.2 A	0.7 A
JCR 1A	2.8 A	1.6 A	0.9 A	2.8 A	1.6 A	0.9 A

## PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
JCRm 1C	JCR 1C	84	108
JCRm 1B	JCR 1B	84	108
JCRm 1A	JCR 1A	84	108