# JCR2

## Self-priming “JET” pumps

Clean water

Domestic use

Civil use


### PERFORMANCE RANGE

- Flow rate up to **70 l/min** (4.2 $m^3$/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**

CE

### CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT

EAC

### 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

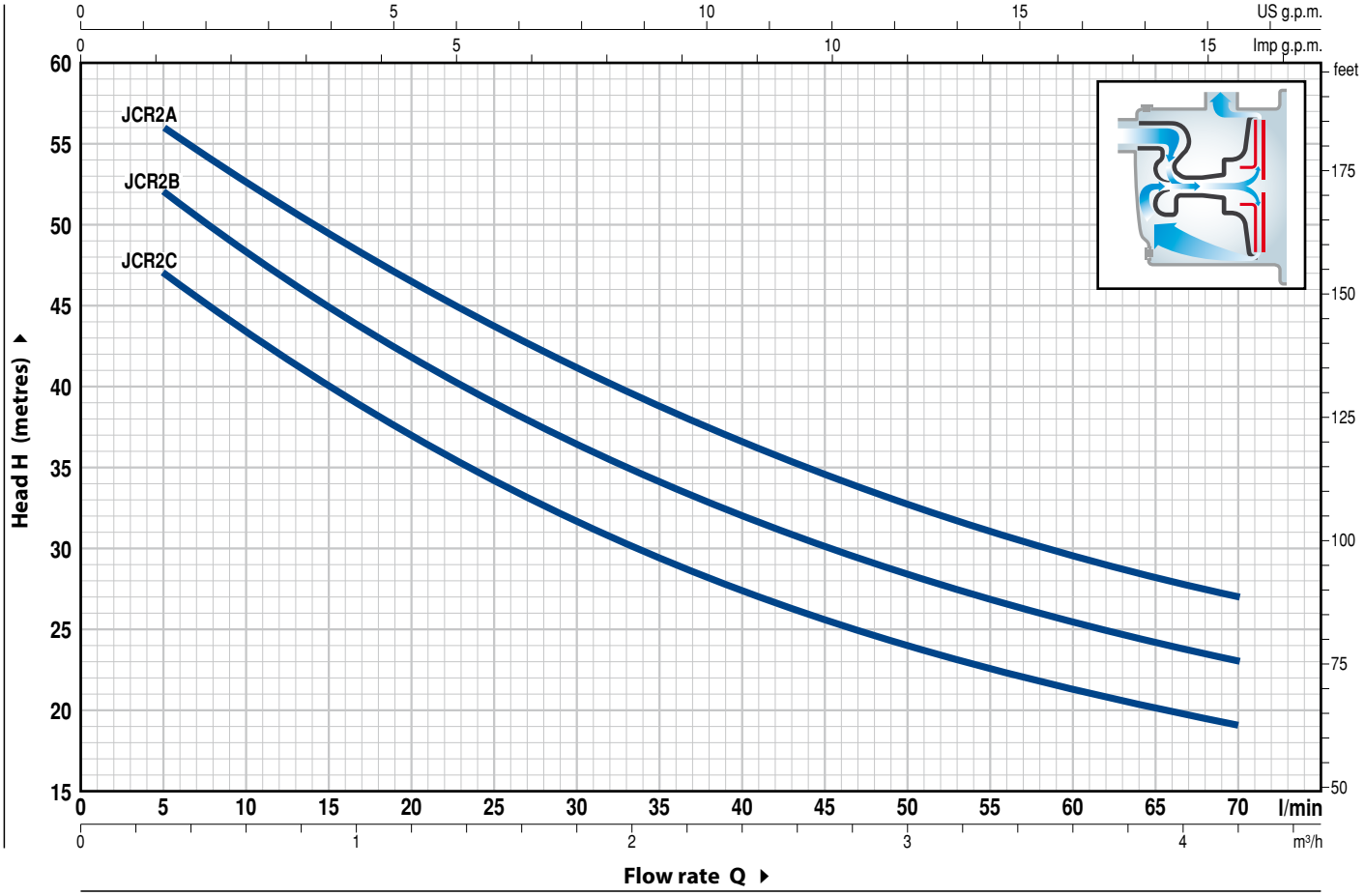
- European Patent n. 1 510 696

### OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

**50 Hz** **n= 2900 rpm** HS= 0 m

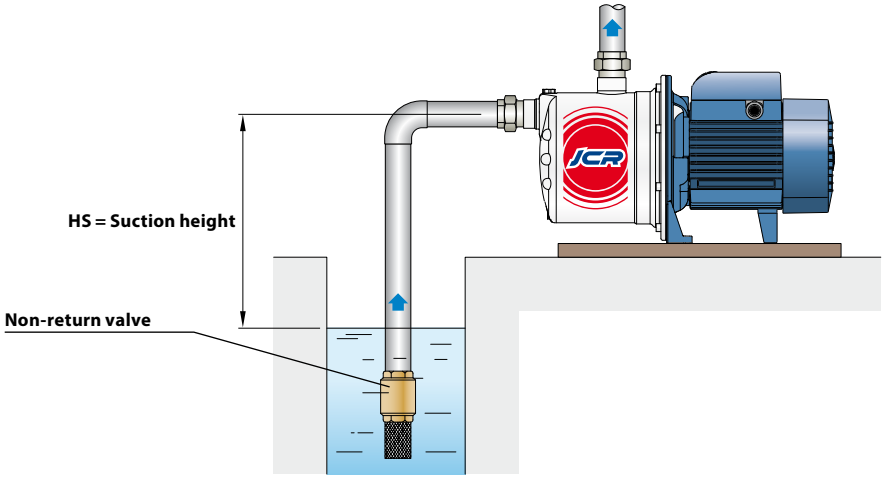



| MODEL | | POWER (P2) | | Q | m³/h | 0 | 0.3 | 0.6 | 1.2 | 1.5 | 1.8 | 2.4 | 2.7 | 3.0 | 3.6 | 4.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single-phase | Three-phase | kW | HP | | l/min | **0** | **5** | **10** | **20** | **25** | **30** | **40** | **45** | **50** | **60** | **70** |
| JCRm 2C | JCR 2C | 0.75 | 1 | | | 50 | 47 | 43 | 37 | 34 | 31.5 | 27.5 | 25.5 | 24 | 21 | 19 |
| JCRm 2B | JCR 2B | 0.90 | 1.25 | H | metres | 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 |

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

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

## STANDARD INSTALLATION



| POS. | COMPONENT | CONSTRUCTION CHARACTERISTICS |
|---|---|---|
| 1 | **PUMP BODY** | Stainless steel AISI 304 complete with threaded ports in compliance with ISO 228/1 |
| 2 | **BODY BACKPLATE** | Stainless steel AISI 304 |
| 3 | **NOZZLE ASSEMBLY** | Noryl FE1520PW |
| 4 | **IMPELLER** | Stainless steel AISI 304 |
| 5 | **MOTOR SHAFT** | Stainless steel EN 10088-3 - 1.4104 |
| 6 | **MECHANICAL SEAL** | |

| ***Seal*** ***Model*** | ***Shaft*** ***Diameter*** | *Materials* *Stationary ring* | *Rotational ring* | *Elastomer* |
|---|---|---|---|---|
| **AR-14** | **Ø 14** mm | Ceramic | Graphite | NBR |

| | | | |
|---|---|---|---|
| 7 | **BEARINGS** | **6203 ZZ / 6203 ZZ** | |
| 8 | **CAPACITOR** | | |

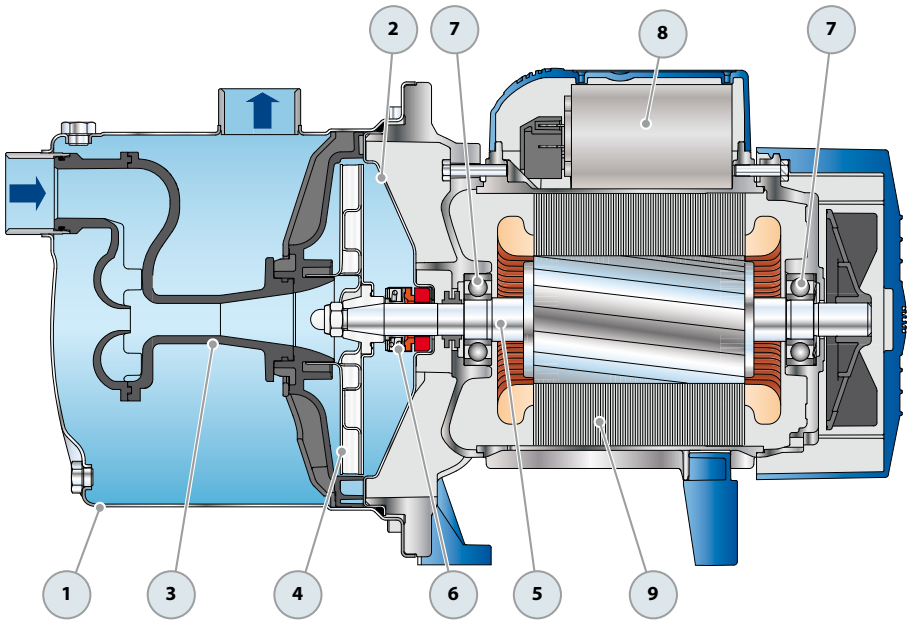
| ***Pump*** ***Single-phase*** | ***Capacitance*** ***(230 V or 240 V)*** | ***(110 V)*** |
|---|---|---|
| **JCRm 2C** | **20** µF - 450 VL | **60** µF - 300 VL |
| **JCRm 2B** | **25** µF - 450 VL | **60** µF - 300 VL |
| **JCRm 2A** | **25** µF - 450 VL | **60** µF - 300 VL |

**9 ELECTRIC MOTOR**

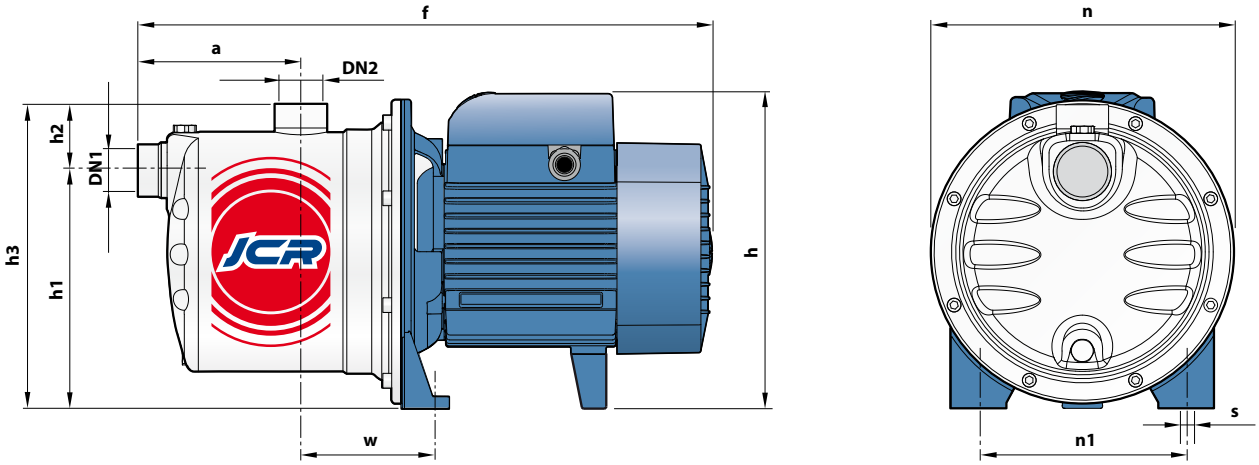
**JCRm**: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.
**JCR**: three-phase 230/400 V - 50 Hz.

➠ **The three-phase pumps are fitted with high performance motors in class IE2 (IEC 60034-30)**

– 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 | n | n1 | 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 | | | | | | | | | | | | | **11.2** | **11.2** |
| JCRm 2A | JCR 2A | | | | | | | | | | | | | **11.5** | **11.5** |

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

## ABSORPTION

| MODEL | VOLTAGE | | |
|---|---|---|---|
| Single-phase | 230 V | 240 V | 110 V |
| JCRm 2C | **4.7** A | **4.5** A | **9.4** A |
| JCRm 2B | **5.8** A | **5.3** A | **11.6** A |
| JCRm 2A | **6.2** A | **5.7** A | **12** A |

| MODEL | VOLTAGE | | | | | |
|---|---|---|---|---|---|---|
| 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 | **4.4** A | **2.5** A | **1.5** A |
| JCR 2A | **5.3** A | **3.1** A | **1.7** A | **4.9** A | **2.8** A | **1.6** 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** |