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 **65 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

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.
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

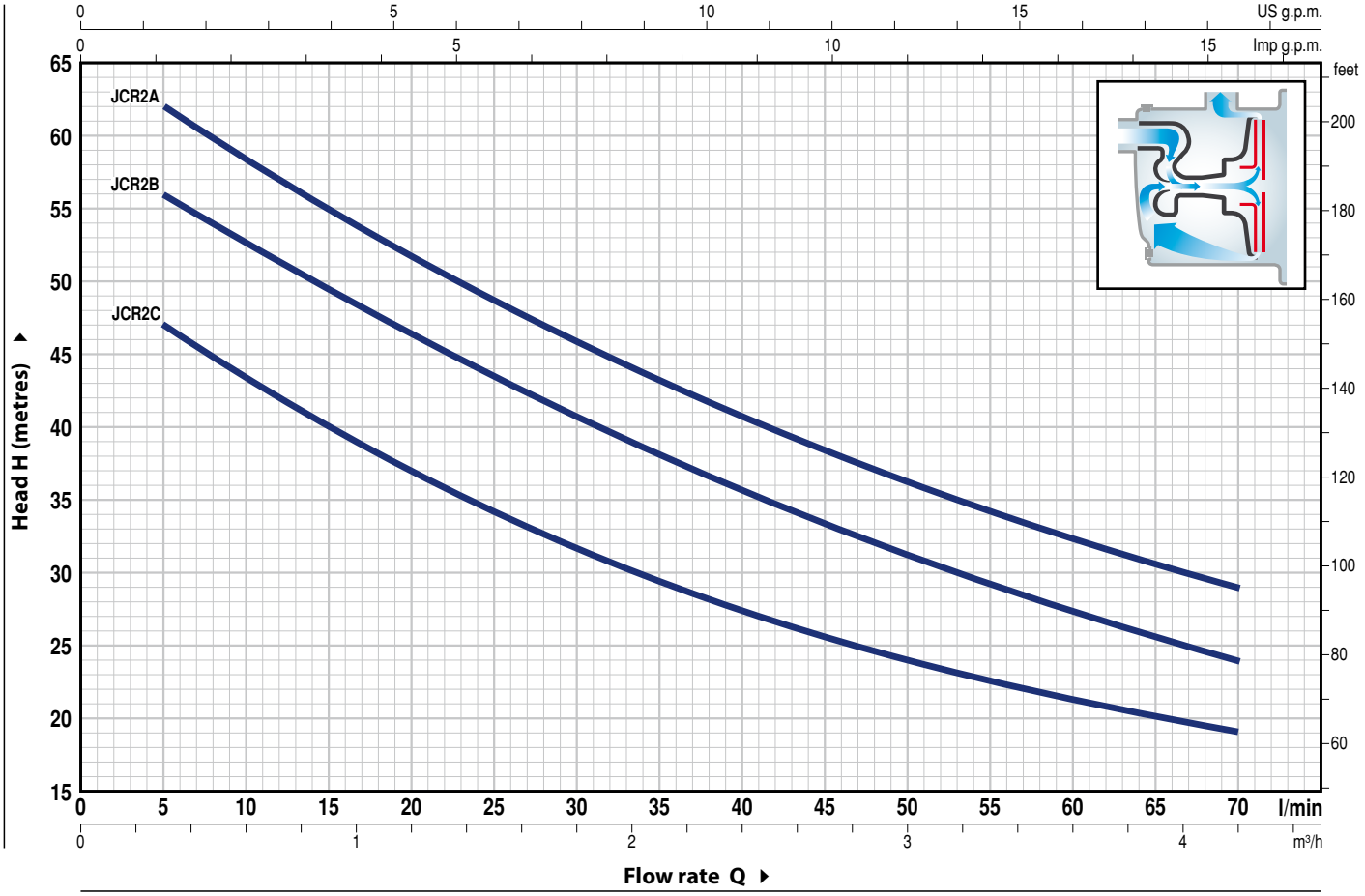
- Pump body with NPT ANSI B 1.20.1 threaded ports
- Other voltages

GUARANTEE

2 years subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz **n= 3450 min⁻¹** HS= 0 m



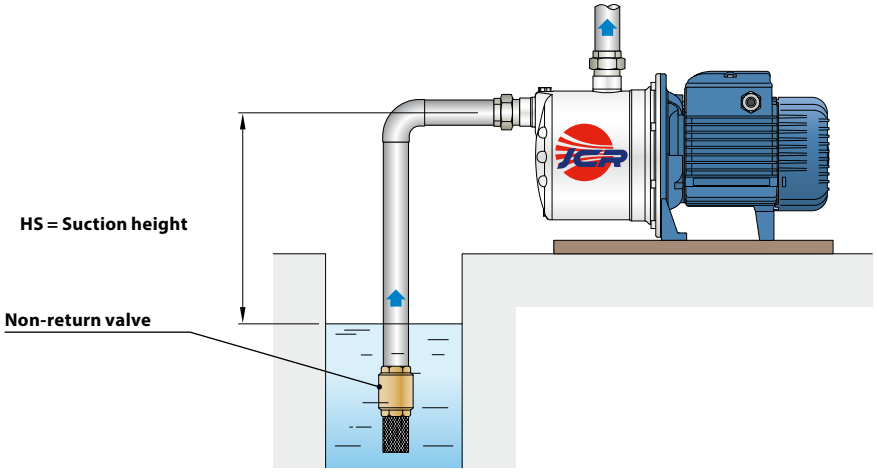
MODEL		POWER (P2)		Q	m³/h	0	0.3	0.6	1.2	1.5	1.8	2.4	2.7	3.0	3.6	4.2
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**5**	**10**	**20**	**25**	**30**	**40**	**45**	**50**	**60**	**70**
JCRm 2C	**JCR 2C**	0.75	1			50	47	43	37	34	31.5	27.5	25.5	24	21	19
JCRm 2B	**JCR 2B**	0.90	1.25	**H**	metres	60	56	53	46.5	43.5	40.5	35.5	33.5	31	27	24
JCRm 2A	**JCR 2A**	1.1	1.5			65	62	58	51.5	48.5	46	41	38.5	36	32	29

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)

STANDARD INSTALLATION



JCR2

POS. COMPONENT — CONSTRUCTION CHARACTERISTICS

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
4	**IMPELLER**	Stainless steel AISI 304
5	**MOTOR SHAFT**	Stainless steel AISI 431

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

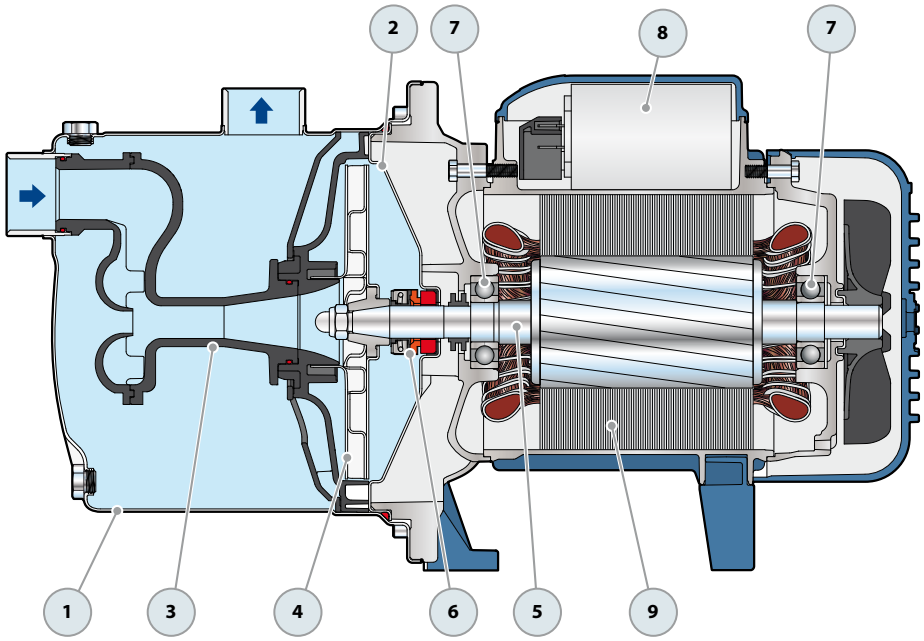
Pump ***Single-phase***	***Capacitance*** ***(220 V)***	***(110 V or 127 V)***
JCRm 2C	**20** µF - 450 VL	**60** µF - 300 VL
JCRm 2B	**25** µF - 450 VL	**60** µF - 300 VL
JCRm 2A	**25** µF - 450 VL	**60** µF - 300 VL

9 ELECTRIC MOTOR

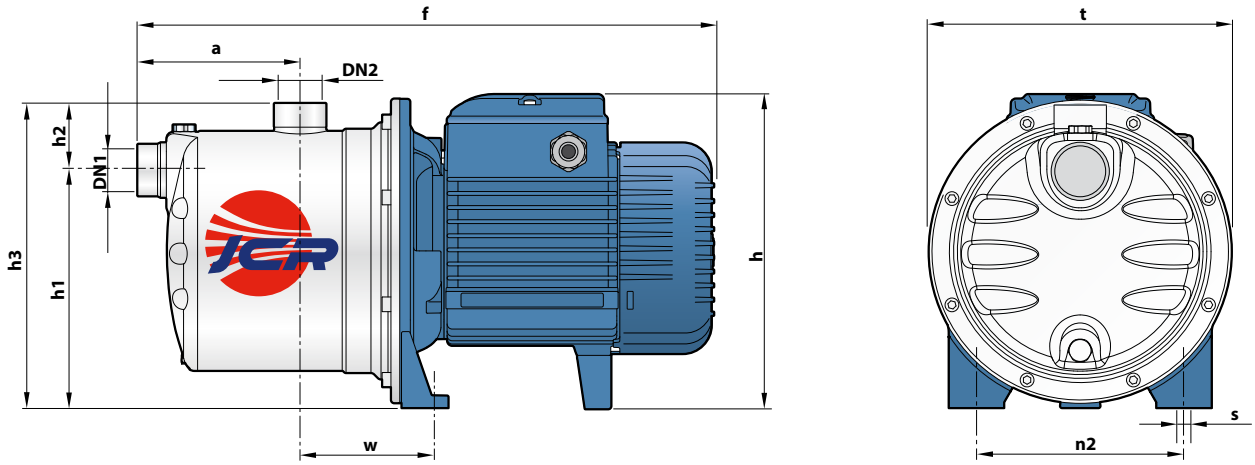
JCRm: single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding.
JCR: three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz.

➠ **The three-phase pumps are fitted with high performance motors 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 2C	**JCR 2C**	**1"**	**1"**	111	393	217 *	162	46	208	208	142	91	10	**10.2**	**10.0**
JCRm 2B	**JCR 2B**													**11.1**	**11.0**
JCRm 2A	**JCR 2A**													**11.8**	**11.1**

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

ABSORPTION

MODEL	VOLTAGE		
Single-phase	220 V	110 V	127 V
JCRm 2C	**5.0** A	**10.0** A	**9.0** A
JCRm 2B	**6.7** A	**13.4** A	**11.6** A
JCRm 2A	**6.9** A	**13.8** A	**12.9** A

MODEL	VOLTAGE			
Three-phase	220 V	380 V	220 V	440 V
JCR 2C	**3.8** A	**2.2** A	**3.6** A	**2.0** A
JCR 2B	**5.3** A	**3.0** A	**3.7** A	**2.1** A
JCR 2A	**5.8** A	**3.3** A	**5.5** A	**3.1** 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**