JCR1

Self-priming “JET” pumps

Clean water

Domestic use

PERFORMANCE RANGE

- Flow rate up to **60 l/min** (3.6 m^3/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

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. 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.
The pump should be installed in an enclosed environment or sheltered from inclement weather.

PATENTS - TRADE MARKS - MODELS

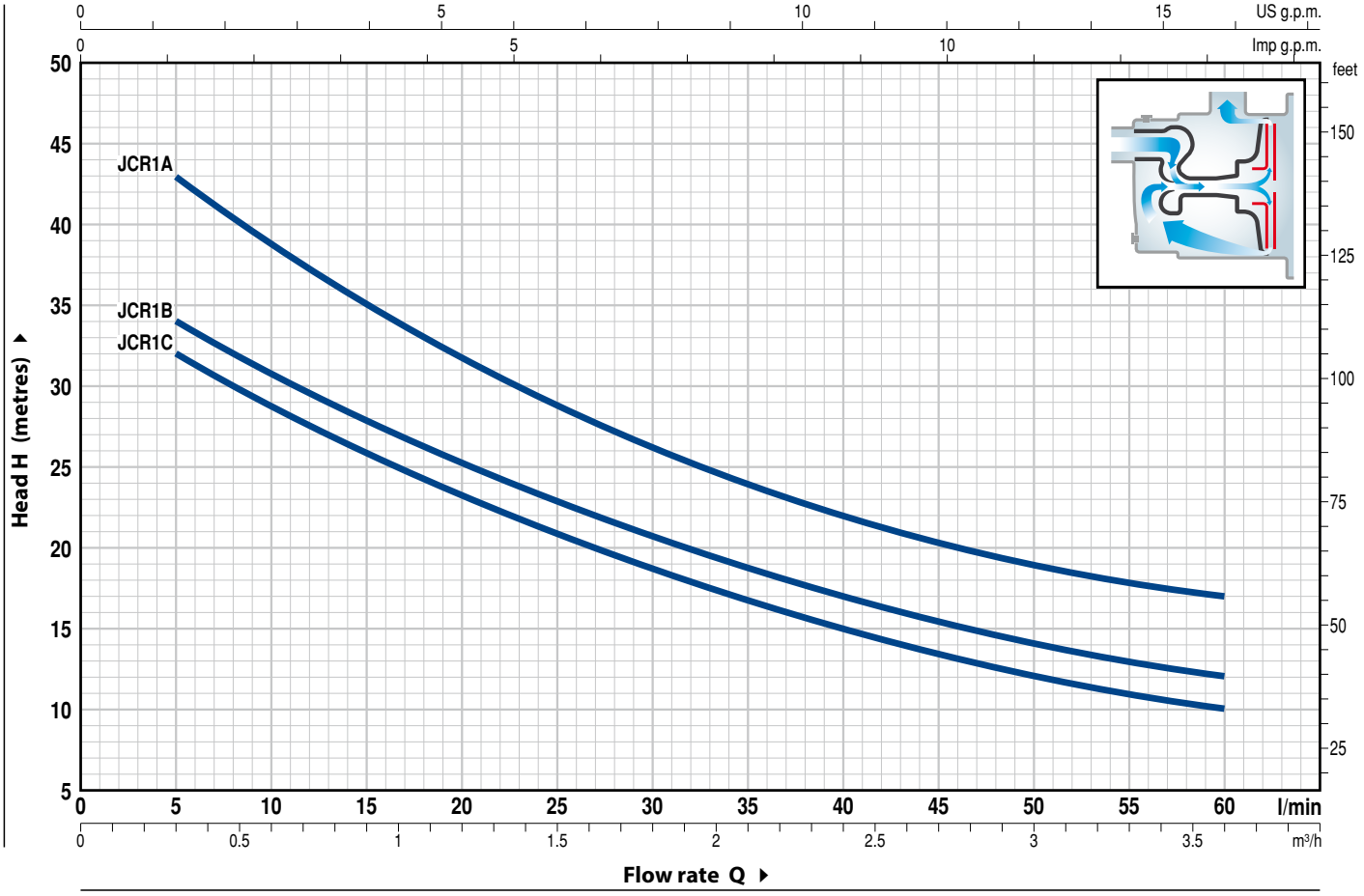
- European Patent n. 1 510 696

OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

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

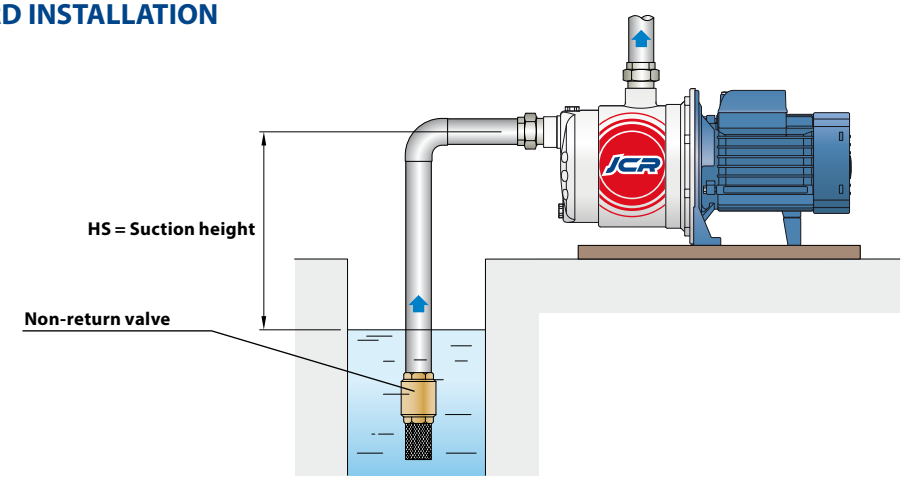


MODEL		POWER (P2)		Q	m³/h	0	0.3	0.6	1.2	1.5	1.8	2.4	2.7	3.0	3.6
Single-phase	Three-phase	kW	HP		l/min	**0**	**5**	**10**	**20**	**25**	**30**	**40**	**45**	**50**	**60**
JCRm 1C	JCR 1C	0.37	0.50	H	metres	35	32	28.5	23.5	21	18.5	15	13.5	12	10
JCRm 1B	JCR 1B	0.48	0.65			37	34	30.5	25.5	23	20.5	17	15.5	14	12
JCRm 1A	JCR 1A	0.55	0.75			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.

STANDARD INSTALLATION



JCR1

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 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-12	**Ø 12** mm	Ceramic	Graphite	NBR

7 BEARINGS — **6201 ZZ / 6201 ZZ**

8 CAPACITOR

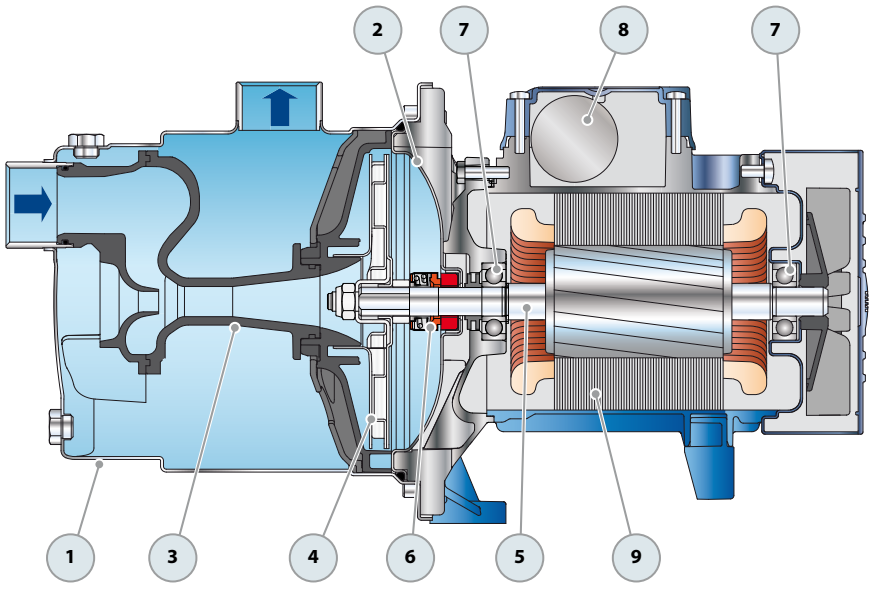
Pump ***Single-phase***	***Capacitance*** ***(230 V or 240 V)***	***(110 V)***
JCRm 1C	**10** µF - 450 VL	**25** µF - 250 VL
JCRm 1B	**10** µF - 450 VL	**25** µF - 250 VL
JCRm 1A	**14** µF - 450 VL	**25** µF - 250 VL

9 ELECTRIC MOTOR

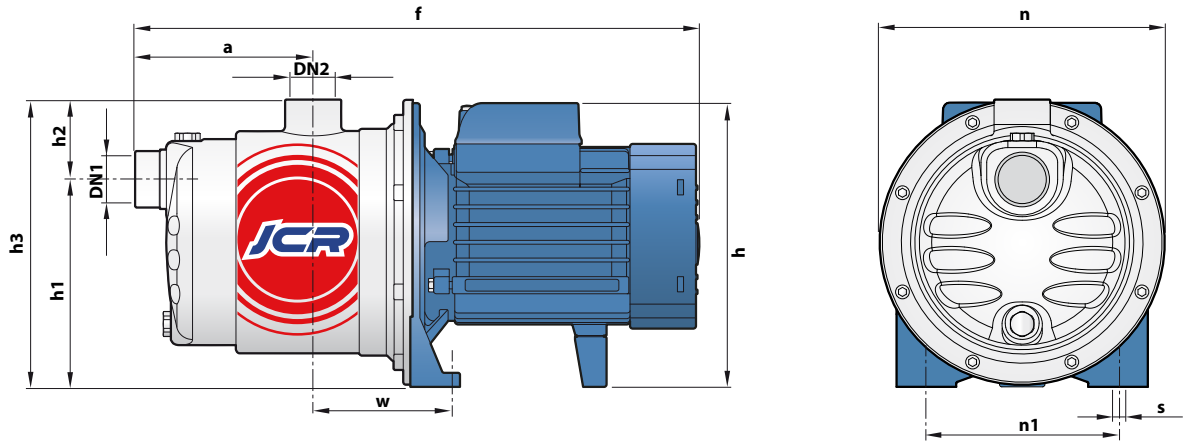
JCRm: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.
JCR: three-phase 230/400 V - 50 Hz.

➠ **The three-phase pumps are fitted with high performance motors 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 1C	**JCR 1C**	**1"**	**1"**	113	361	182	132	51	183	182	120	87	9	**7.1**	**7.1**
JCRm 1B	**JCR 1B**													**7.2**	**7.2**
JCRm 1A	**JCR 1A**													**7.8**	**7.2**

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
JCRm 1C	**2.8** A	**2.7** A	**5.6** A
JCRm 1B	**3.1** A	**3.0** A	**6.0** A
JCRm 1A	**3.9** A	**3.8** A	**7.3** A

MODEL	VOLTAGE					
Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
JCR 1C	**2.1** A	**1.2** A	**0.7** A	**2.0** A	**1.1** A	**0.6** A
JCR 1B	**2.3** A	**1.3** A	**0.8** A	**2.2** A	**1.2** A	**0.7** A
JCR 1A	**3.0** A	**1.7** A	**1.0** A	**2.9** A	**1.6** A	**0.9** A

PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	**Three-phase**	n. pumps	n. pumps
JCRm 1C	**JCR 1C**	**84**	**120**
JCRm 1B	**JCR 1B**	**84**	**120**
JCRm 1A	**JCR 1A**	**84**	**120**