

## Self-priming liquid ring pumps

with double anti-seize inserts



### Jansen



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### PERFORMANCE RANGE

- Flow rate up to **50 l/min** (3 m<sup>3</sup>/h)
- Head up to **51 m**

### APPLICATION LIMITS

- Manometric suction lift up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+90 °C**
- Temperature of diesel up to **+55 °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



### INSTALLATION AND USE

Suitable for use with clean water or liquids that do not contain abrasive particles and liquids that are not chemically aggressive towards the materials from which the pump is made.

As a specific result of the pump's operating principle they are suitable for use in all situations where a compact self-priming pump is required or where the fluid supply is limited, irregular or contains air.

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

### PATENTS - TRADE MARKS - MODELS

- Motor bracket: patent n° IT1243605
- Registered Community Design n° 342159-0008

### OPTIONALS AVAILABLE ON REQUEST

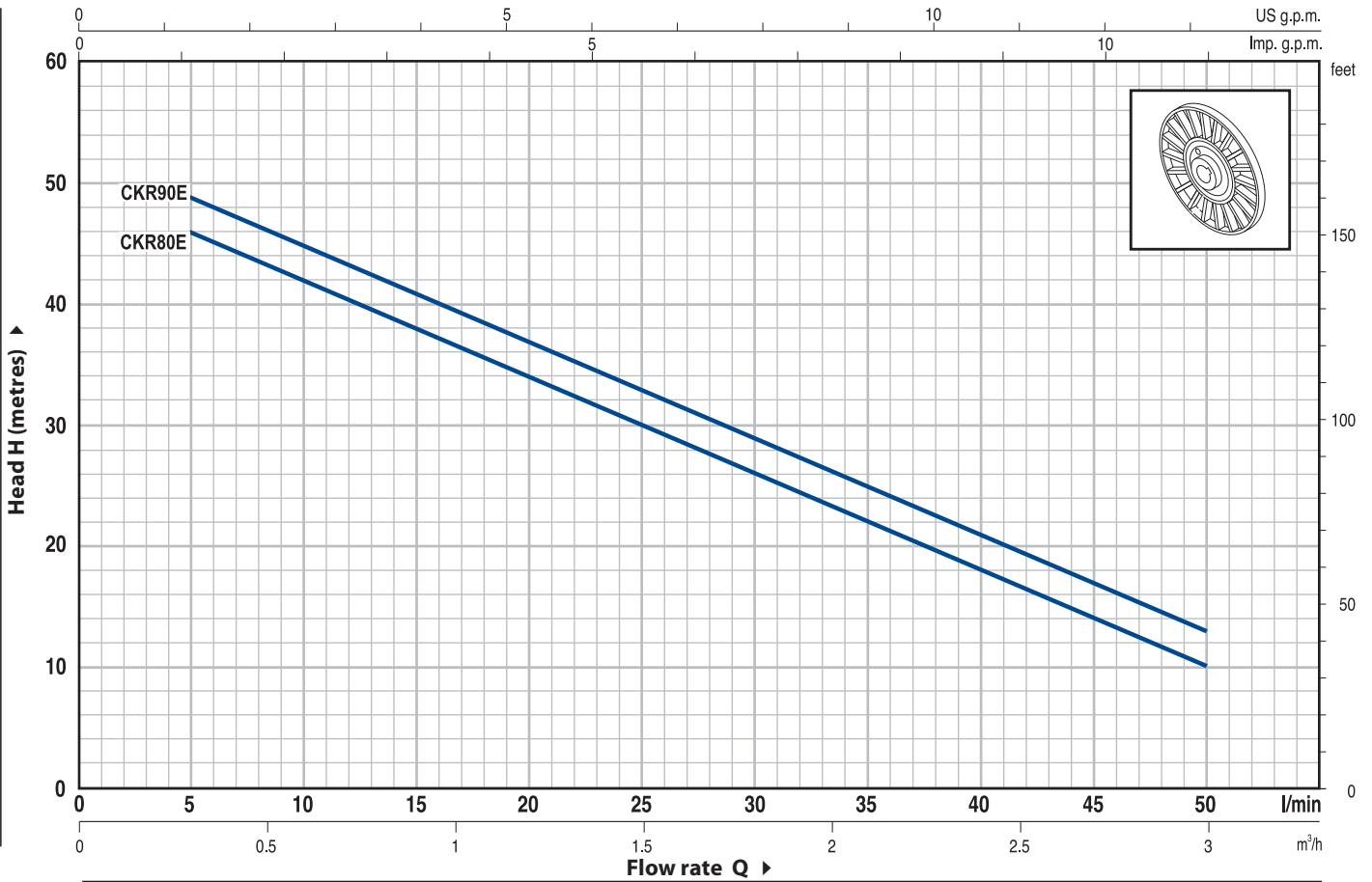
- Special mechanical seal
- Other voltages or 60 Hz frequency
- IP 55 class protection

### GUARANTEE

2 years subject to terms and conditions

**CHARACTERISTIC CURVES AND PERFORMANCE DATA**

**50 Hz n= 2900 1/min HS= 0 m**

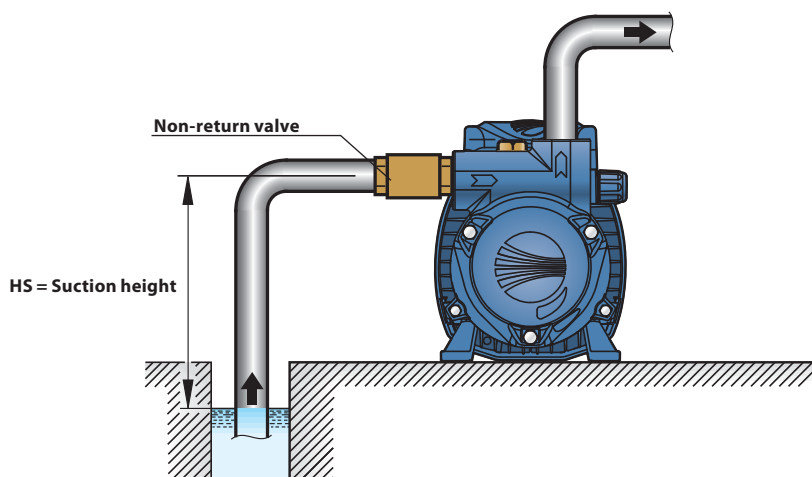


MODEL		POWER		Q	Flow rate												
Single-phase	Three-phase	kW	HP		m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0		
CKRm 80E	CKR 80E	0.55	0.75	H metres	0	5	10	15	20	25	30	35	40	50			
CKRm 90E	CKR 90E	0.75	1		48	46	42	38	34	30	26	22	18	10			
					51	49	45	41	37	33	29	25	21	13			

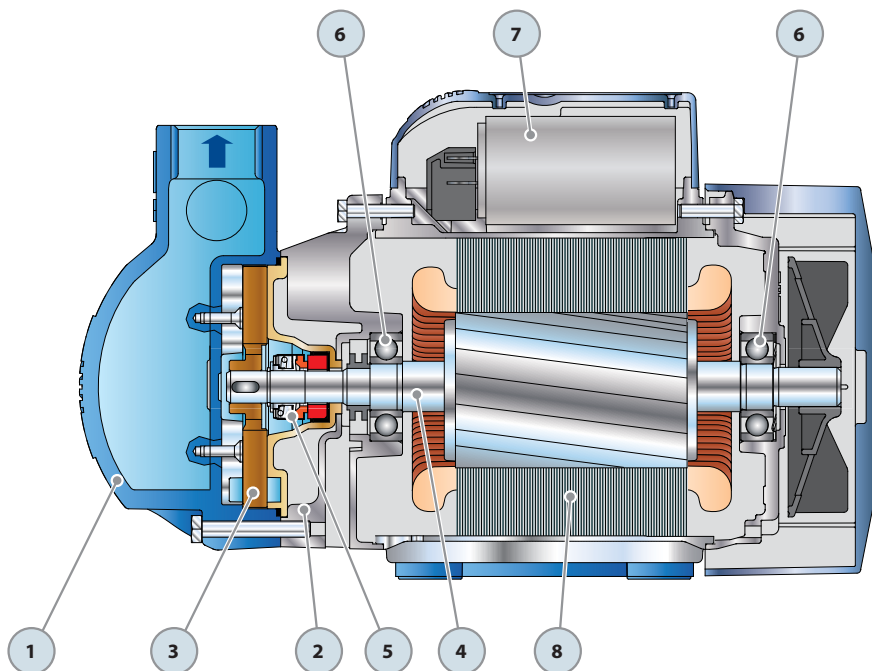
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 App. A.

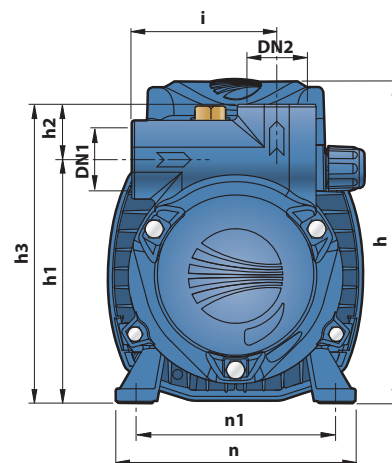
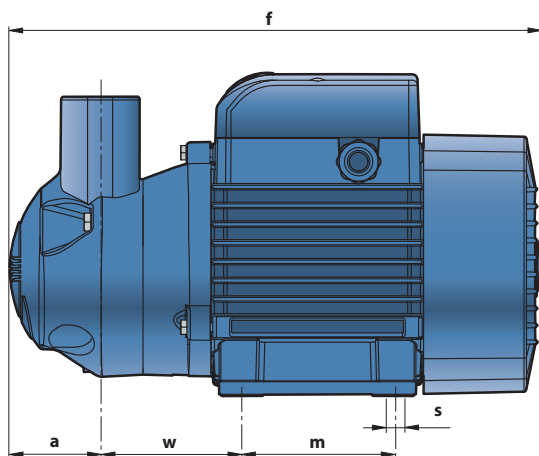
**INSTALLATION EXAMPLE**



POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS				
1	<b>PUMP BODY</b>	Cast iron, with stainless steel insert to prevent impeller seizure due to the formation of rust . The pump body is complete with threaded ports in compliance with ISO 228/1				
2	<b>MOTOR BRACKET</b>	Aluminium with brass insert (patented), reduces the risk of impeller seizure				
3	<b>IMPELLER</b>	Brass, star type with open radial vanes				
4	<b>MOTOR SHAFT</b>	Stainless steel EN 10088-3 - 1.4104				
5	<b>MECHANICAL SEAL</b>	<i>Seal</i>	<i>Shaft</i>	<i>Materials</i>		
		<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		<b>AR-12V</b>	<b>Ø 12 mm</b>	Ceramic	Graphite	Viton
6	<b>BEARINGS</b>	<b>6203 ZZ / 6203 ZZ</b>				
7	<b>CAPACITOR</b>	<i>Pump</i>	<i>Capacitance</i>			
		<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>		
		<b>CKRm 80E</b>	<b>16 µF 450 VL</b>	<b>60 µF 300 VL</b>		
		<b>CKRm 90E</b>	<b>20 µF 450 VL</b>	<b>60 µF 300 VL</b>		
8	<b>ELECTRIC MOTOR</b>	<p><b>CKRm:</b> single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.</p> <p><b>CKR:</b> three-phase 230/400 V - 50 Hz.</p> <p>⇒ <b>Pumps fitted with the three-phase motor option offer IE2 (IEC 60034-30) class high performance</b></p> <p>– Insulation: F class.</p> <p>– Protection: IP 44.</p>				



## DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm												kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	i	m	n	n1	w	s	1~	3~
CKRm 80E	CKR 80E	1"	1"	50	296	180	136	31	167	81	90	140	112	77	7	10.8	9.9
CKRm 90E	CKR 90E			10.9	10.0												

## ABSORPTION

MODEL	VOLTAGE (single-phase)		
	230 V	240 V	110 V
Single-phase	230 V	240 V	110 V
CKRm 80E	5.0 A	4.8 A	9.8 A
CKRm 90E	4.8 A	4.4 A	9.4 A

MODEL	VOLTAGE (three-phase)					
	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
CKR 80E	3.5 A	2.0 A	1.2 A	3.4 A	2.0 A	1.2 A
CKR 90E	3.5 A	2.0 A	1.2 A	3.4 A	2.0 A	1.2 A

## PALLETIZATION

MODEL		GROUPAGE				CONTAINER			
Single-phase	Three-phase	n° pumps	H (mm)	kg		n° pumps	H (mm)	kg	
				1~	3~			1~	3~
CKRm 80E	CKR 80E	102	1370	1120	1030	136	1780	1490	1370
CKRm 90E	CKR 90E	102	1370	1130	1040	136	1780	1500	1380

