CKR

Self-priming liquid ring pumps

With double anti-seize frontal inserts





PERFORMANCE RANGE

- Flow rate up to **50 l/min** (3 m³/h)
- Head up to 51 m

APPLICATION LIMITS

- Manometric suction lift up to **9 m** (HS)
- Liquid temperature between -10 °C and +90 °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 that does not contain abrasive particles and with liquids that are not chemically aggressive towards the materials from which the pump is made.

Because of a specific principle of their operating performance these pumps are an excellent solution in every case where a compact self-priming pump is required or when the fluid flow is irregular or contains air.

Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

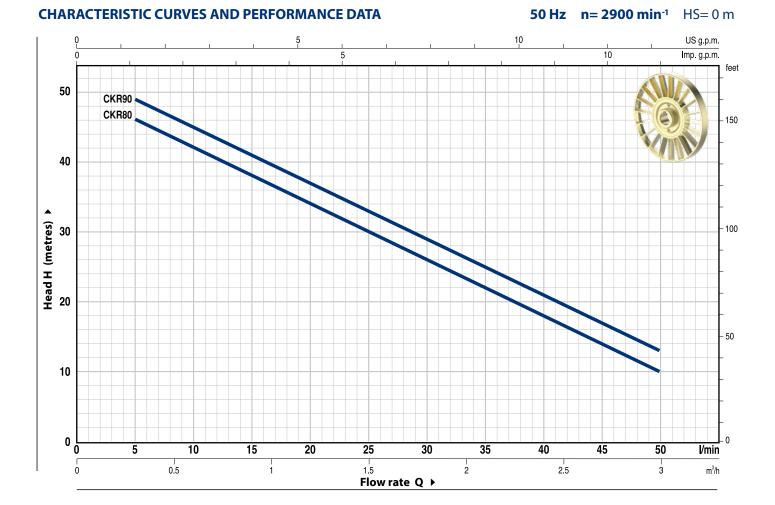
PATENTS - TRADE MARKS - MODELS

- Motor bracket: patent n. IT1243605
- Registered EU Design n. 342159-0008

OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal
- Other voltages
- IP X5 class protection





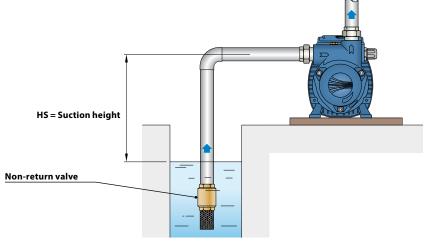
МО	POWER (P2)		m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0		
Single-phase	Three-phase	kW	HP		Q //min	0	5	10	15	20	25	30	35	40	50
CKRm 80	CKR 80	0.55	0.75		H metres	48	46	42	38	34	30	26	22	18	10
CKRm 90	CKR 90	0.75	1	IE3		51	49	45	41	37	33	29	25	21	13

 $\mathbf{Q} = Flow rate \ \mathbf{H} = Total manometric head \ \mathbf{HS} = Suction height$

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

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

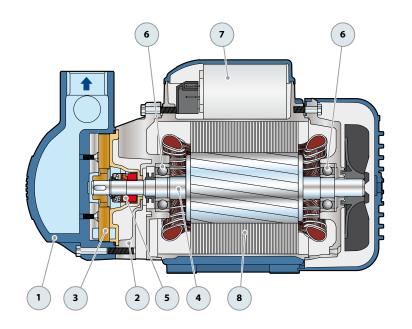
STANDARD INSTALLATION



CKR

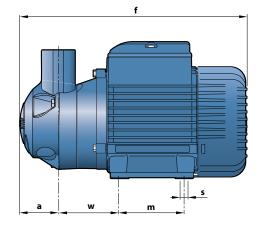
POS. COMPONENT CONSTRUCTION CHARACTERISTICS

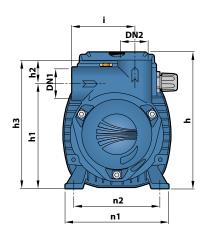
1	PUMP BODY		Cast iron with stainless steel insert to prevent impeller seizure due to the formation of rust . The pump body is complete with threaded ports in compliance with ISO 228/1										
2	MOTOR BRACKET	Aluminium with br	Aluminium with brass insert (patented), reduces the risk of impeller seizure										
3	IMPELLER	Brass star type with	n open radial vanes										
4	MOTOR SHAFT	Stainless steel AISI	431										
5	MECHANICAL SEAL	Seal	Shaft		Materials								
		Model	Diameter	Stationary ring	Rotational ring	Elastomer							
		AR-12V	Ø 12 mm	Ceramic	Graphite	Viton							
6	BEARINGS	6203 ZZ / 6203 ZZ											
7	CAPACITOR	Pump	Capacitance										
		Single-phase	(230 V or 240 V)	(110 V)									
		CKRm 80	16 μF - 450 VL	60 μF -									
		CKRm 90	20 μF - 450 VL	60 μF -	300 VL								
8	ELECTRIC MOTOR		se 230 V - 50 Hz with se 230/400 V - 50 Hz.	thermal overloa	ad protector in	corporated into the winding.							
		🗯 The three-phas	e pumps are fitted	with high perf	ormance mot	ors 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	а	f	h	h1	h2	h3	i	m	n1	n2	w	s	1~	3~	
CKRm 80	CKR 80	1"		11	50	201	100	126	21	167	01		140	112		-	10.9	10.9
CKRm 90	CKR 90		1	50	50 296	180	136	31	167	81	90	140	112	77		10.8	10.8	

ABSORPTION

MODEL	VOLTAGE							
Single-phase	230 V	240 V	110 V					
CKRm 80	5.0 A	4.8 A	10.0 A					
CKRm 90	5.1 A	4.9 A	10.2 A					

MODEL	VOLTAGE									
Three-phase	230 V 400 V		690 V	240 V	415 V	720 V				
CKR 80	3.5 A	2.0 A	1.2 A	3.3 A	1.9 A	1.1 A				
CKR 90	3.6 A	2.1 A	1.2 A	3.5 A	2.0 A	1.2 A				