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 ISO 14001: ENVIRONMENT



CE

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.

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



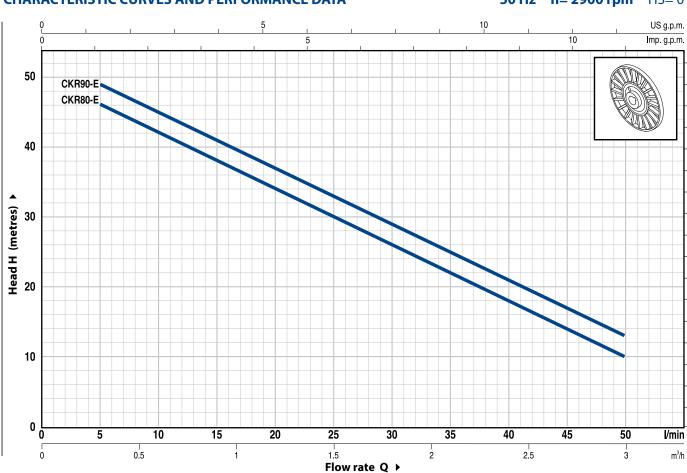
feet

150

100

- 50

- 0



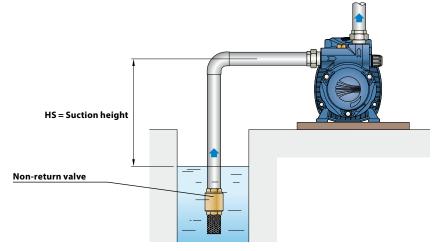
50 Hz n= 2900 rpm HS= 0 m

MODEL		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	l/min	0	5	10	15	20	25	30	35	40	50
CKRm 80-E	CKR 80-E	0.55	0.75	H metres	48	46	42	38	34	30	26	22	18	10
CKRm 90-E	CKR 90-E	0.75	1		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.

STANDARD INSTALLATION

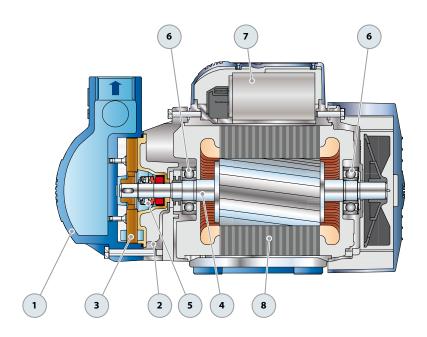


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POS. COMPONENT CONSTRUCTION CHARACTERISTICS

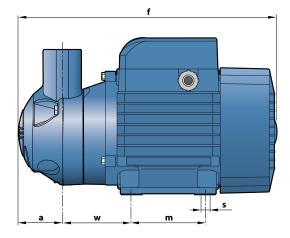
1	PUMP BODY		Cast iron with stainless steel insert to prevent impeller seizure due to the formation of rust . The pump body is complete with threaded ports in compliance with ISO 228/1									
2	MOTOR BRACKET	Aluminium with br	ass insert (patented),	, reduces the ris	k of impeller se	eizure						
3	IMPELLER	Brass star type with	n open radial vanes									
4	MOTOR SHAFT	Stainless steel EN 1	0088-3 - 1.4104									
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-E	16 μF - 450 VL	60 μF -	300 VL							
		CKRm 90-E	20 μF - 450 VL	60 μF -								
8	ELECTRIC MOTOR	CKR: three-phas	e 230/400 V - 50 Hz. e pumps are fitted			corporated into the winding.						

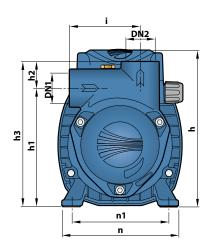
- Protection: IP X4





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 80-E	CKR 80-E	1″		- "			1//	1//							1″	50	201	100							110			10.8	9.9
CKRm 90-E	CKR 90-E		1″	50	296	180	136	31	167	81	90	140	112	77		10.9	10.0												

ABSORPTION

MODEL	VOLTAGE							
Single-phase	230 V	240 V	110 V					
CKRm 80-E	5.0 A	4.8 A	9.8 A					
CKRm 90-E	5.1 A	4.9 A	9.4 A					

MODEL	VOLTAGE									
Three-phase	230 V 400 V		690 V	240 V	415 V	720 V				
CKR 80-E	3.5 A	2.0 A	1.2 A	3.4 A	1.9 A	1.1 A				
CKR 90-E	3.6 A	2.1 A	1.25 A	3.5 A	2.0 A	1.1 A				