



Clean water



Domestic use



Industrial use



Agricultural use

PERFORMANCE RANGE

- Flow rate up to **50 l/min** (3 m³/h)
- Head up to **63 m**

INSTALLATION AND USE

Designed for pumping diesel/naphtha and clean water free from abrasive particles and non-corrosive liquids that do not harm the pump's components.

Their specific operating mechanism makes them an excellent solution when a compact self-priming pump is required or when the flow of the liquid is irregular or mixed with air.

APPLICATION LIMITS

- Suction head up to **9 m** (HS)
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature up to **+40 °C**
- Maximum working pressure **6 bar**

AVAILABLE UPON REQUEST

- Mechanical seal options available
- Specific voltages
- Protection rating: IP 55

PATENTS - TRADE MARKS - MODELS

- Motor bracket: Patent No. IT1243605

ABSORPTION

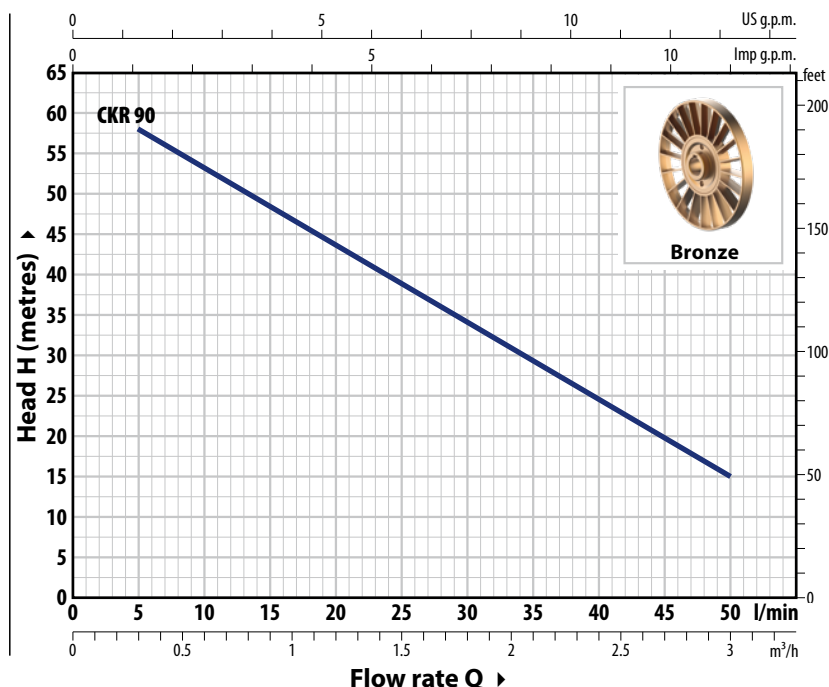
TYPE	VOLTAGE	
Single-ph.	220 V	
CKRm 90	5.8 A	
TYPE	VOLTAGE	
Three-ph.	220 V - Δ	380 V - Y
CKR 90	4.0 A	2.3 A



※ With double anti-lock front scraping

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz

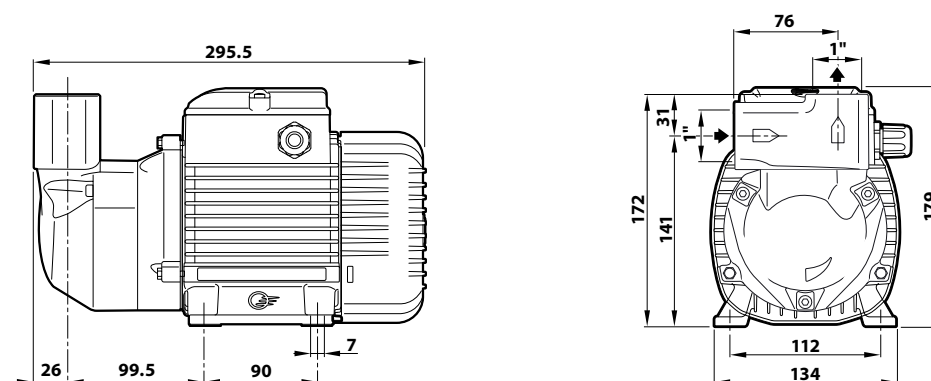


TYPE		POWER (P ₂)		3~	Q	m ³ /h												
Single-ph.	Three-ph.	kW	HP			0	0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4	2,7	3		
						0	5	10	15	20	25	30	35	40	45	50		
CKRm 90	CKR 90	0.75	1	IE3	H m	63	58	53.2	48.4	43.7	38.9	34.1	29.3	24.6	19.8	15		

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

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

DIMENSIONS (mm)



TYPE		PORTS		WEIGHT (kg)		PALLET CAPACITY	
Single-phase	Three-phase	DN1	DN2	1~	3~	GROUPAGE	CONTAINER
CKRm 90	CKR 90	1"	1"	12.0	12.0	102	136

CONSTRUCTION FEATURES

1 Pump body	Cast iron, with stainless-steel front shaving surface to prevent the impeller from locking due to oxidation. The pump body is equipped with ISO 228/1 threaded ports	
2 Motor bracket	Aluminium with brass cover with front anti-locking shim function (patented)	
3 Impeller	Bronze, star-type with open radial vanes	
4 Mechanical seal	Type	Materials
	AR-12V	Ceramic / Graphite / Viton
5 Shaft	Stainless steel AISI 431	
6 Electric motor	CKRm : single-phase 220 V - 60 Hz with winding integrated thermal motor protection	
	CKR : 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)	
	– Continuous running duty S1	
	– Insulation: class F	
	– Protection rating: IPX4	

