



Clean water



Domestic use



Industrial use



Agricultural use

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

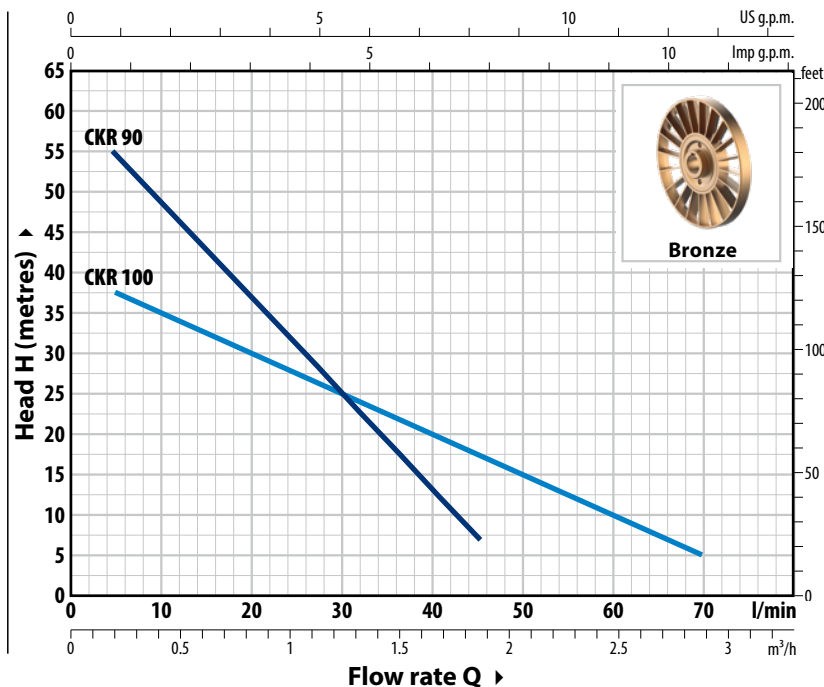
- Motor bracket: Patent No. IT1243605



✘ With anti-lock front scraping

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz



ABSORPTION

MODEL	VOLTAGE
Single-phase	230 V
CKRm 90	5.7 A
CKRm 100	6.0 A

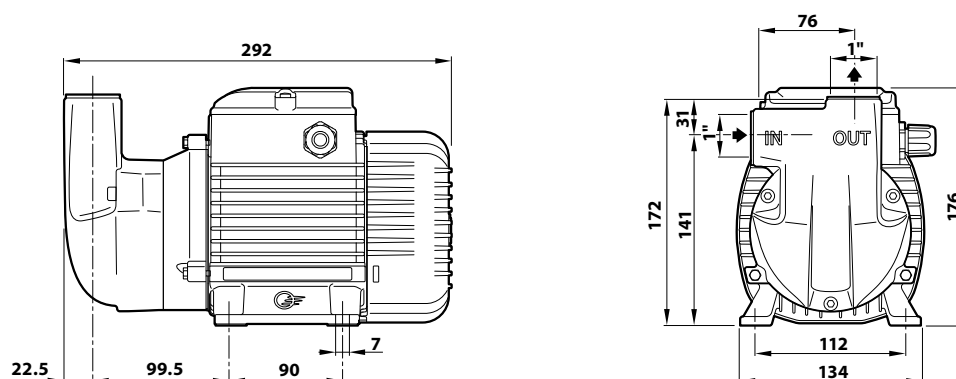
MODEL	VOLTAGE	
Three-phase	230 V - Δ	400 V - Δ
CKR 90	4.0 A	2.3 A
CKR 100	3.8 A	2.2 A

MODEL		POWER (P2)		1~3~	Q	Flow rate								
Single-phase	Three-phase	kW	HP			m³/h	0	0.3	0.6	1.2	1.8	2.4	3.0	3.6
CKRm 90	CKR 90	0.75	1	IE2 IE3	H meters	0	5	10	20	30	40	50	60	70
CKRm 100	CKR 100					60	55	49.7	39	28.3	17.7	7		
						40	37.5	35	30	25	20	15	10	5

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

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

DIMENSIONS (mm)



MODEL		PORTS		WEIGHT (kg)		PALLET CAPACITY
Single-phase	Three-phase	DN1	DN2	1~	3~	n. of pumps
CKRm 90	CKR 90	1"	1"	12.0	12.0	119
CKRm 100	CKR 100					

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 230 V - 50 Hz with winding integrated thermal motor protection
CKR: three-phase 230/400 V - 50 Hz

※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1)
class **IE2** for single-phase models
class **IE3** for three-phase models

 - Continuous running duty **S1**
 - Insulation: class F
 - Protection rating: IP X4

