CKR

self-priming liquid ring pumps
(with anti-seize impeller housing)

Guaranteed priming and restarting even after extended periods without use, due to the stainless steel/brass anti-seize impeller housing that prevents the formation of rust.

CE

CKRm 80

PERFORMANCE RANGE
Flow rate up to 50 l/min (3 m³/h)
Dynamic head up to 54 m

OPERATING LIMITS
Suction lift up to 9 m
Fluid temperature up to + 60°C
Maximum ambient temperature + 40°C

CONSTRUCTION AND SAFETY STANDARDS:

EN 60 335-1	EN 60034-1
IEC 335-1	IEC 34-1
CEI 61-150	CEI 2-3

PUMP INSTALLATION AND APPLICATIONS
These pumps are recommended for clean water without abrasive particles and fluids which are not chemically aggressive to the pump components.
THE PARTICULAR OPERATING PRINCIPLE FOR CKR PUMPS MAKES THEM SUITABLE FOR ALL APPLICATIONS WHERE A SELF-PRIMING PUMP IS REQUIRED TO DEAL WITH LOW OR IRREGULAR FLOW RATES. CORRECT OPERATION IS ALSO ENSURED IN PROBLEM CASES:
- **WHEN PUMPING VOLATILE OR FOAMY FLUIDS;**
- **WHEN HANDLING LIQUIDS MIXED WITH GAS;**
- **TO ABSOLUTELY GUARANTEE PRIMING OR PROTECT AGAINST DROPOUT.**

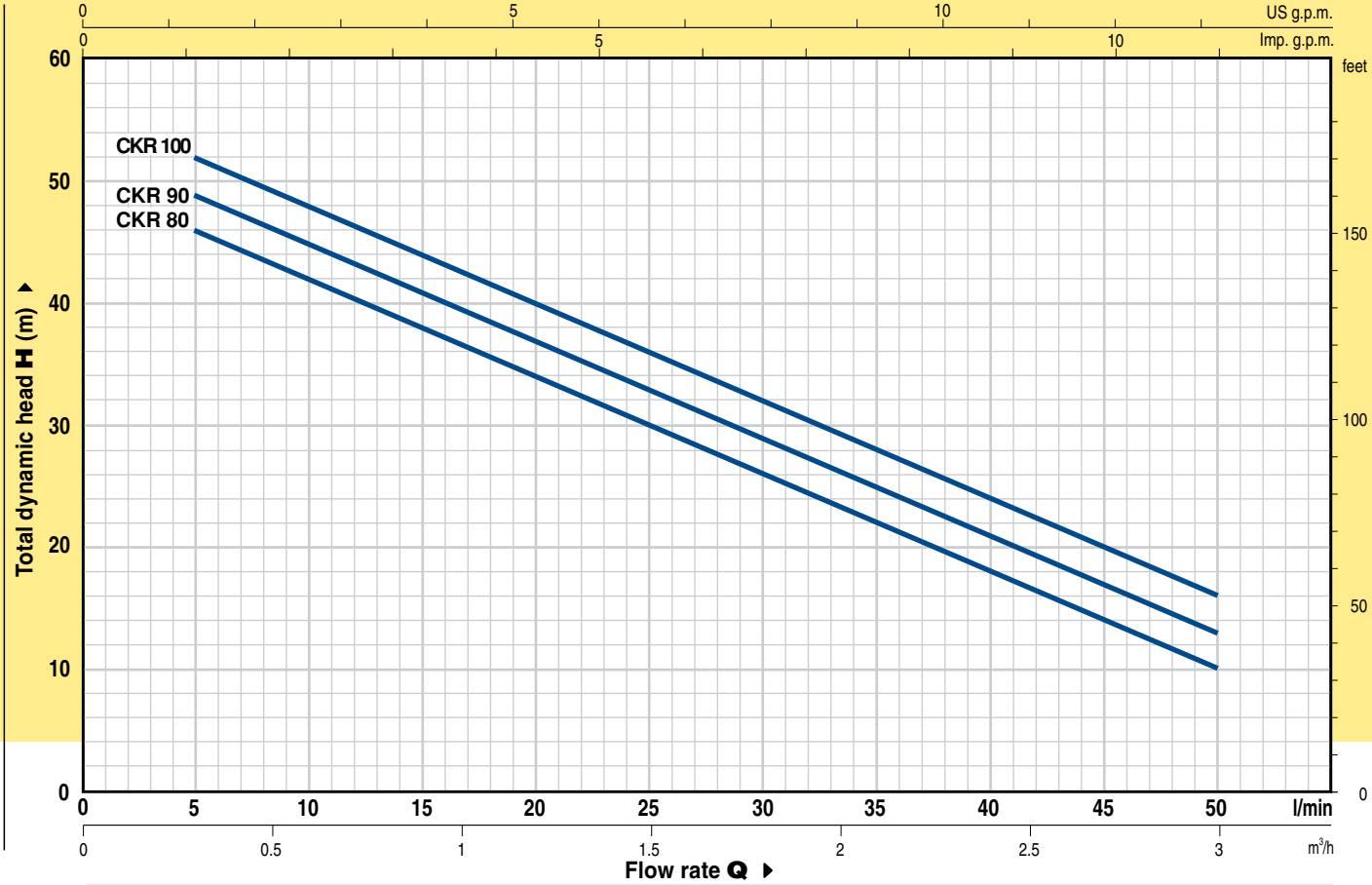
THESE PUMPS ARE COMPACT AND STURDY AND SUITABLE FOR INDUSTRIAL USE IN OPERATING CONDITIONS WHICH ARE OFTEN PROHIBITIVE FOR OTHER TYPES OF PUMP.
The pumps should be installed in a covered area, protected against weather.

WARRANTY: 2 YEARS
(according to our general sales conditions).

STRUCTURAL CHARACTERISTICS
- **PUMP BODY:**
  cast iron with **stainless steel/brass** insert, to prevent the impeller blocking due to rust, and UNI ISO 228/1 gas threaded suction and delivery openings.
- **MOTOR BRACKET patented nº 1289150:**
  aluminium with **brass** front insert**;** reducing difficulties when starting the pump after long periods without use, due to the impeller blocking
- **IMPELLER:**
  brass with open radial blades.
- **MOTOR SHAFT:**
  AISI 430F stainless steel.
- **MECHANICAL SEAL:**
  ceramic, graphite and Viton.
- **MOTOR:**
  the pumps are coupled to an asynchronous, high efficiency PEDROLLO induction motor of suitable size, which is quiet, closed and externally ventilated, suitable for continuous duty. INSULATION class B.
  The thermal cutout relay (motor protector) is incorporated in all single phase motors.
  Three phase motors require an adequate external motor protector, with connections according to current standards.
- **PROTECTION:** IP 44.

PEDROLLO®

PERFORMANCE CHART AT n= 2900 1/min

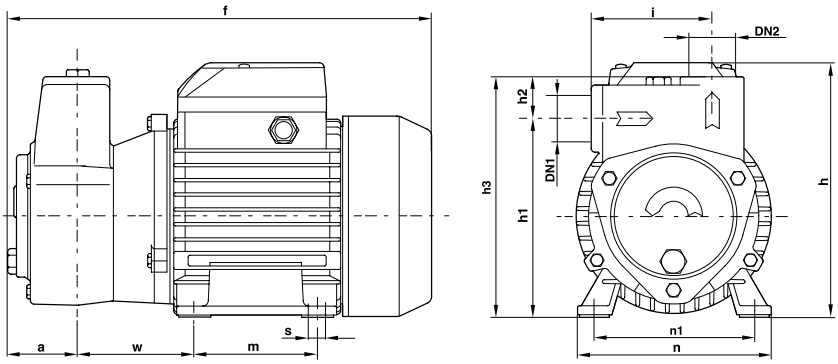


PERFORMANCE DATA AT n= 2900 1/min

PUMP MODEL		POWER		Q 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	CKR 80	0.60	0.85	H (m)	48	46	42	38	34	30	26	22	18	10
CKRm 90	CKR 90	0.75	1		51	49	45	41	37	33	29	25	21	13
CKRm 100	CKR 100	0.90	1.25		54	52	48	44	40	36	32	28	24	16

Q = FLOW RATE **H** = TOTAL DYNAMIC HEAD IN METERS

Curve tolerance according to ISO 2548.



DIMENSIONS

PUMP MODEL		DN1	DN2	DIMENSIONS mm											
Single phase	Three phase			a	f	h	h1	h2	h3	i	m	n	n1	w	s
CKRm 80	CKR 80	1"	1"	45	291	179	136	31	167	85	90	134	112	77	7
CKRm 90	CKR 90	1"	1"	45	291	179	136	31	167	85	90	134	112	77	7
CKRm 100	CKR 100	1"	1"	45	291	179	136	31	167	85	90	134	112	77	7