Stainless steel centrifugal pump

AL-RED





PERFORMANCE RANGE

- Maximum flow rate 160 l/min (9.6 m³/h)
- Maximum head 23 m

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between -10 °C and +90 °C
- Ambient temperature between -10 °C and +40 °C
- Max. working pressure 4 bar
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60034-1 IEC 60034-1 CEI 2-3



REGULATION (EU) N. 547/2012

CERTIFICATIONS









INSTALLATION AND USE

Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made. As a result of their construction characteristics, these centrifugal pumps are suitable for use in the domestic, agricultural and industrial sectors. All of the components in contact with the pumped liquid are constructed from stainless steel AISI 304, thus guaranteeing complete hygiene and maximum resistance against corrosion. The pump should be installed in an enclosed environment, or at least sheltered from inclement weather.

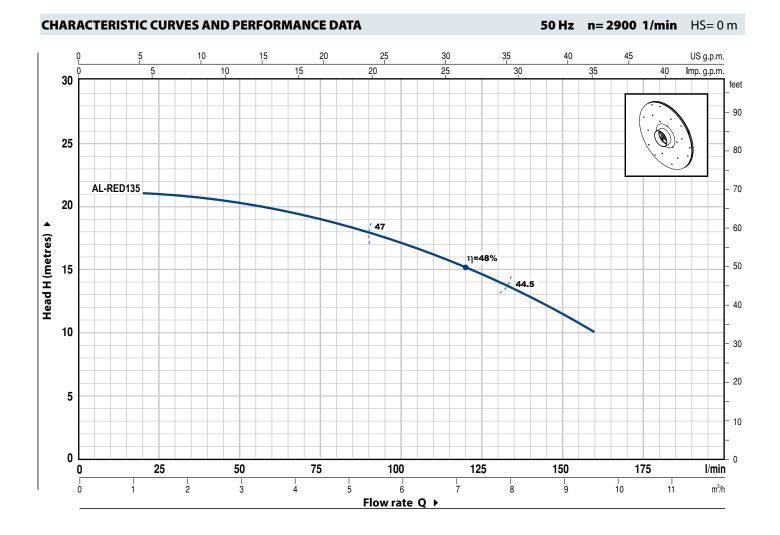
OPTIONALS AVAILABLE ON REQUEST

- Special mechanical seal
- EN 10088-3 1.4401 (AISI 316) stainless steel motor shaft
- Other voltages or 60 Hz frequency

GUARANTEE

1 year subject to terms and conditions





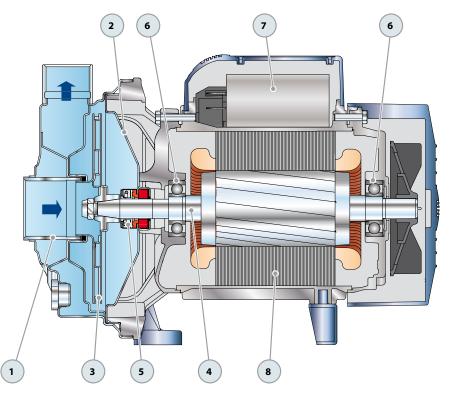
MODEL		POWER		m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6
Single-phase	Three-phase	kW	HP	l/min	0	20	40	60	80	100	120	140	160
AL-RED 135m	AL-RED 135	0.75	1	H metres	23	21	20.5	20	18.5	17	15	13	10

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

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

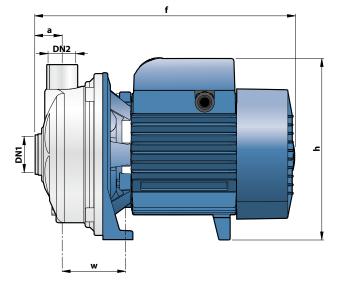
AL-RED

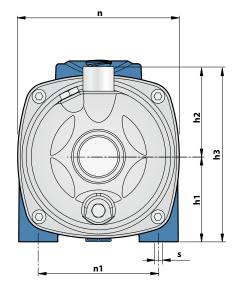
POS	. COMPONENT	CONSTRUCTIO	ON CHARACTERIS	TICS		
1	PUMP BODY	Stainless steel Al	SI 304, complete witl	n threaded po	rts in complian	nce with ISO 228/1
2	BODY BACKPLATE	Stainless steel Al	SI 304			
3	IMPELLER	Stainless steel Al	SI 304			
4	MOTOR SHAFT	Stainless steel EN	l 10088-3 - 1.4104			
5	MECHANICAL SEAL	Seal ^{Model} AR-14	Shaft Diameter Ø 14 mm	Stationary ring Ceramic	Materials ^{Rotational ring} Graphite	Elastomer NBR
6	BEARINGS	6203 ZZ / 6203 Z	22			
7	CAPACITOR	Capacitance (230 V or 240 V) 20 μF 450 VL	(110 V) 60 μF 300 VI	-		
8	ELECTRIC MOTOR	AL-RED 135 : t	hree-phase 230/400 vith the three-phas lass.	V - 50 Hz.		tector built-in to the winding. IEC 60034-30) class high performance





DIMENSIONS AND WEIGHT





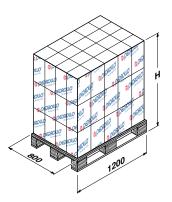
MODEL			RTS	DIMENSIONS mm								kg			
Single-phase	Three-phase	DN1	DN2	а	f	h	h1	h2	h3	n	n1	w	S	1~	3~
AL-RED 135m	AL-RED 135	1¼″	1″	31	296	206	97	103	200	186	135	73.5	10	9.1	9.0

ABSORPTION

MODEL	VOLTAGE (single-phase)			MODEL	VOLTAGE (three-phase)			ase)		
Single-phase	230 V	240 V	110 V	Three-phase	230 V	400 V	690 V	240 V	415 V	720 V
AL-RED 135m	5.0 A	4.8 A	10.0 A	AL-RED 135	3.1 A	1.8 A	1.0 A	3.0 A	1.7 A	1.0 A

PALLETIZATION

мс	DEL		GROUP	AGE		CONTAINER					
	n°	н	k	g	n°	н	kg				
Single-phase	Three-phase	pumps	(mm)	1~	3~	pumps	(mm)	1~	3~		
AL-RED 135m	AL-RED 135	70	1450	661	654	112	2240	1043	1032		





REGULATION (EU) N. 547/2012

- Minimum efficiency index MEI ≥ 0,10 for water pumps according to the (EU) Regulation current from the 1th of January 2013.
- The benchmark for most efficient water pumps is $MEI \ge 0,70$.
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information on benchmark efficiency is available www.europump.org/efficiencycharts.