

AL-RED[®]

60 Hz

STAINLESS STEEL
CENTRIFUGAL PUMPS



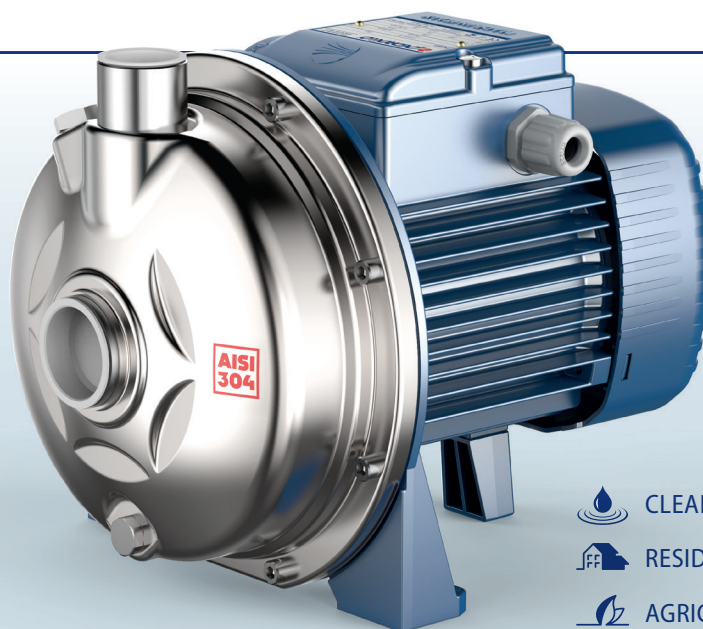
STAINLESS STEEL CENTRIFUGAL PUMPS

AL-RED - 4

Pump body: **Stainless Steel AISI 304**
Rotor: **Stainless Steel AISI 304**
Shaft: **Stainless Steel AISI 431**

AL-RED - 6

Pump body: **Stainless Steel AISI 316L**
Rotor: **Stainless Steel AISI 316L**
Shaft: **Stainless Steel AISI 316L**



■ INSTALLATION AND USE

Suitable for use with clean water and with liquids that are not chemically aggressive towards the materials from which the pump is made. Because of its design features these centrifugal pumps are recommended for use in domestic, agricultural and industrial applications. All the components in contact with the pumped liquid are in stainless steel AISI 304 or AISI 316L thus guaranteeing complete hygiene and maximum resistance against corrosion.

Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

	600, 610, 620	650, 660, 670, 650M, 660M, 670M, 650L, 660L, 670L
PERFORMANCE RANGE		
Max. Flow	73.9 GPM (280 l/min)	
Max. Head	196 ft. (60 m)	
APPLICATION LIMITS		
Max. Suction Lift	22 ft. (7 m)	
Liquid Temp.	14°F - 194°F (-10°C - 90°C)	
Ambient Temp. (up to)	104°F (40°C)	
Max. Working Pressure	87 PSI (6 bar)	116 PSI (8 bar)
Continuous Duty Rating	S1	

■ CONSTRUCTION & 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



■ PATENTS

AL-RED® Registered Trade Mark n. 0001575587

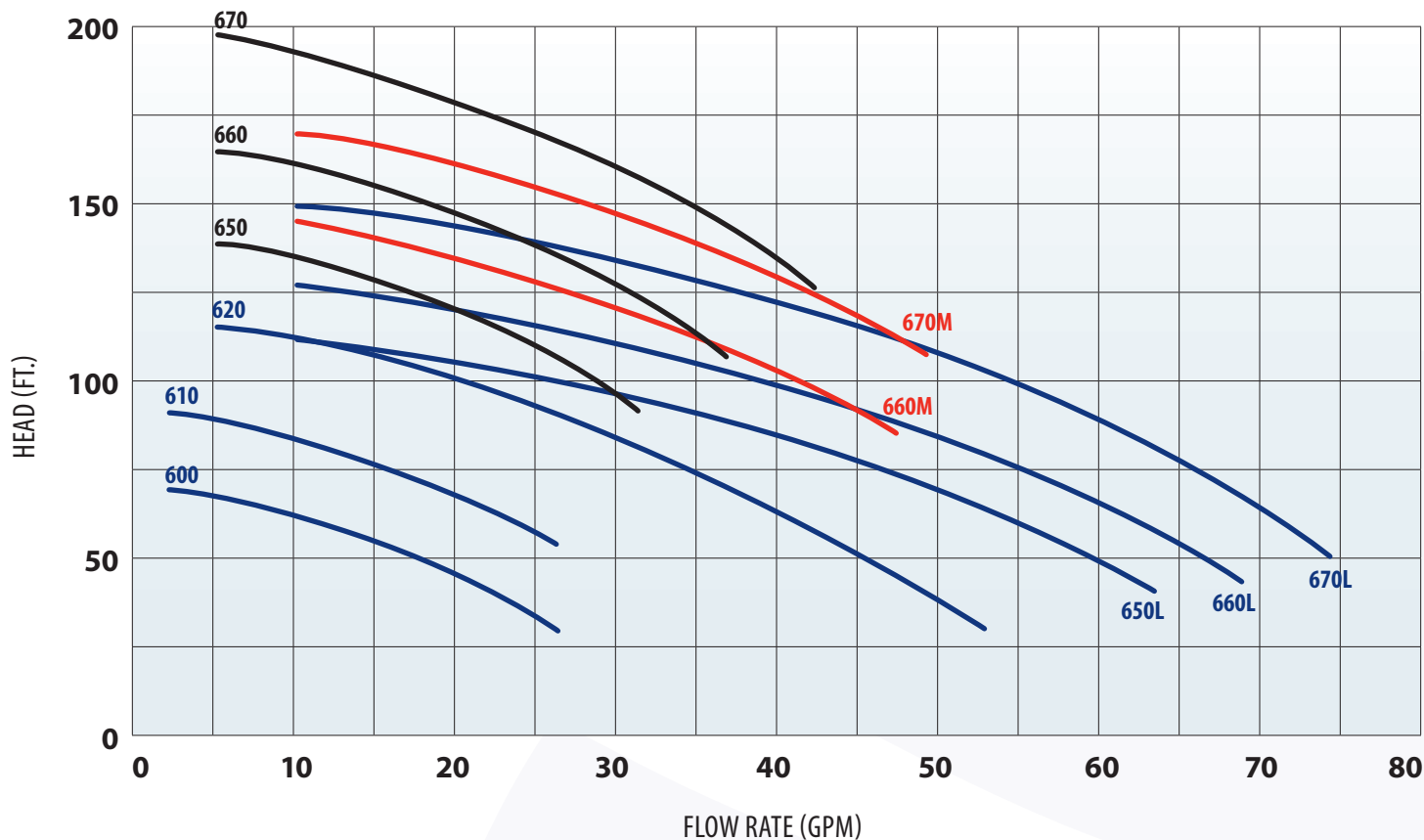
■ OPTIONS AVAILABLE ON REQUEST

- Pump body with NPT ANSI B 1.20.1 threaded ports
- Special mechanical seal
- Other voltages
- IP X5 class protection for
AL-RED 650-660-670-650M-660M-670M
AL-RED 650L-660L-670L

2 YEAR
LIMITED
WARRANTY

■ CURVES AND PERFORMANCE DATA

60 Hz RPM = 3450



MODEL		MOTOR SIZE																																		
SINGLE-PHASE	THREE-PHASE	kW	HP	EFF	GPM	0	2.6	5.3	10.6	15.8	21.1	26.4	31.7	36.9	42.3	47.5	52.8	63.4	68.7	73.9																
AL-REDm 600-4	AL-RED 600-4	0.37	0.50	IE3	HEAD (FT.)																															
AL-REDm 600-6	AL-RED 600-6																																			
AL-REDm 610-4	AL-RED 610-4	0.60	0.85																																	
AL-REDm 610-6	AL-RED 610-6																																			
AL-REDm 620-4	AL-RED 620-4	0.75	1																																	
AL-REDm 620-6	AL-RED 620-6																																			
AL-REDm 650-4	AL-RED 650-4	1.1	1.5																																	
AL-REDm 650-6	AL-RED 650-6																																			
AL-REDm 660-4	AL-RED 660-4	1.5	2																																	
AL-REDm 660-6	AL-RED 660-6																																			
AL-REDm 670-4	AL-RED 670-4	2.2	3																																	
AL-REDm 670-6	AL-RED 670-6																																			
AL-REDm 660M-4	AL-RED 660M-4	1.5	2																																	
AL-REDm 660M-6	AL-RED 660M-6																																			
AL-REDm 670M-4	AL-RED 670M-4	2.2	3																																	
AL-REDm 670M-6	AL-RED 670M-6																																			
AL-REDm 650L-4	AL-RED 650L-4	1.1	1.5																																	
AL-REDm 650L-6	AL-RED 650L-6																																			
AL-REDm 660L-4	AL-RED 660L-4	1.5	2																																	
AL-REDm 660L-6	AL-RED 660L-6																																			
AL-REDm 670L-4	AL-RED 670L-4	2.2	3																																	
AL-REDm 670L-6	AL-RED 670L-6																																			

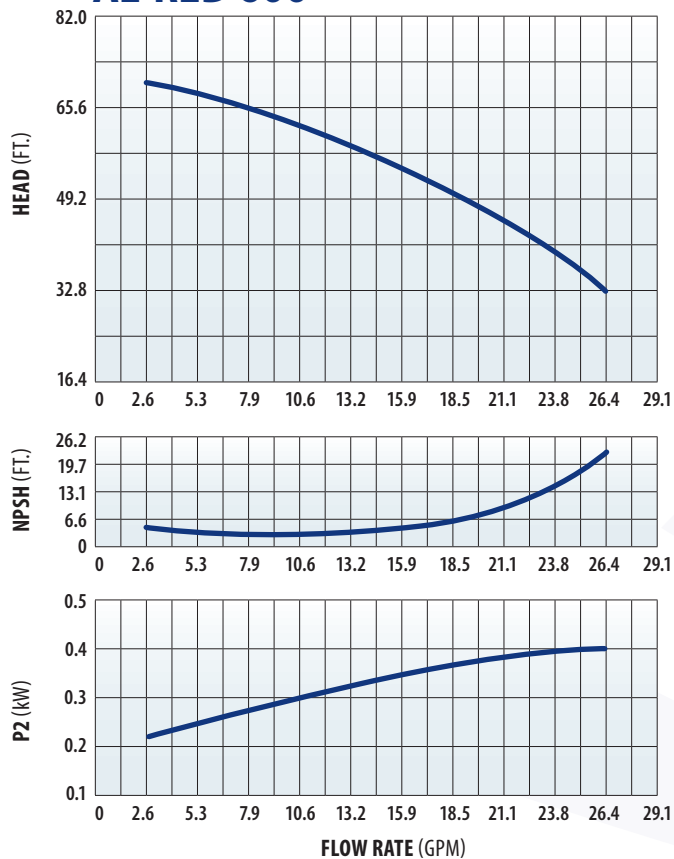
EFF= Three-phase motor efficiency class (IEC 60034-30-1)

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

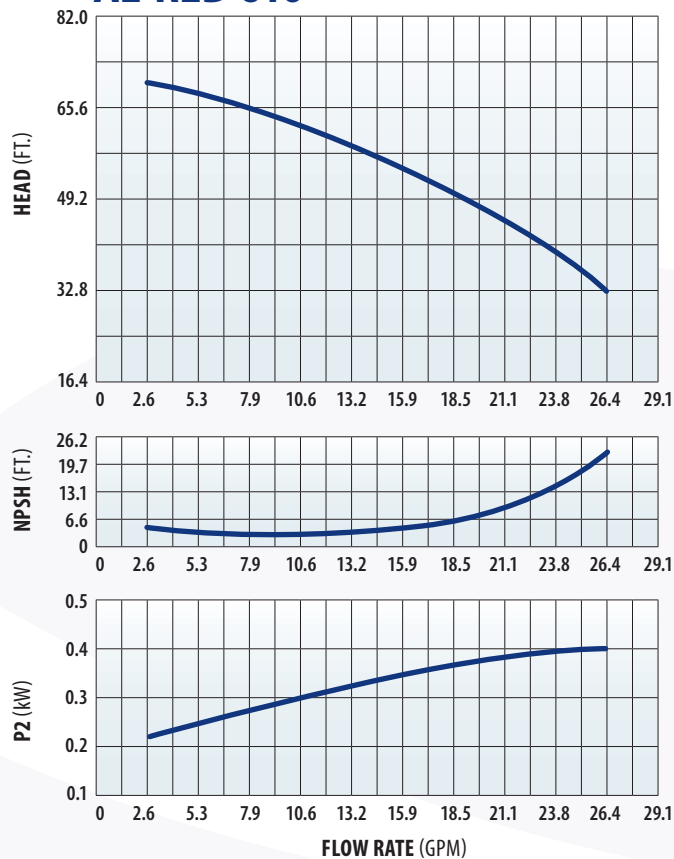
■ PERFORMANCE RANGE

60 Hz RPM = 3450

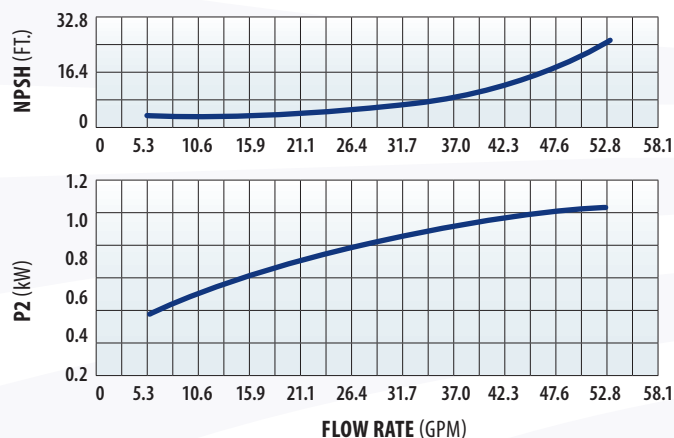
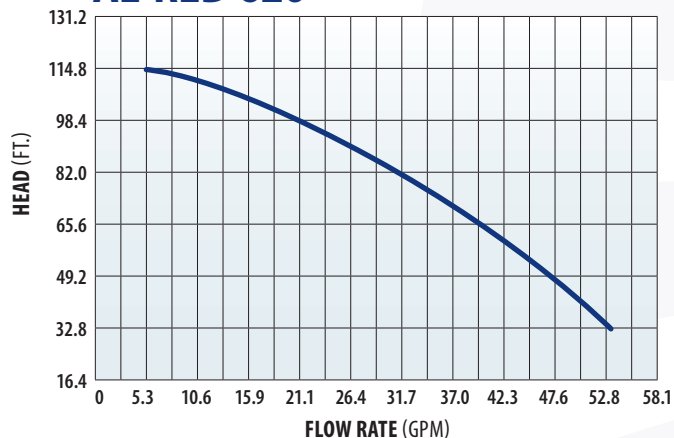
AL-RED 600



AL-RED 610



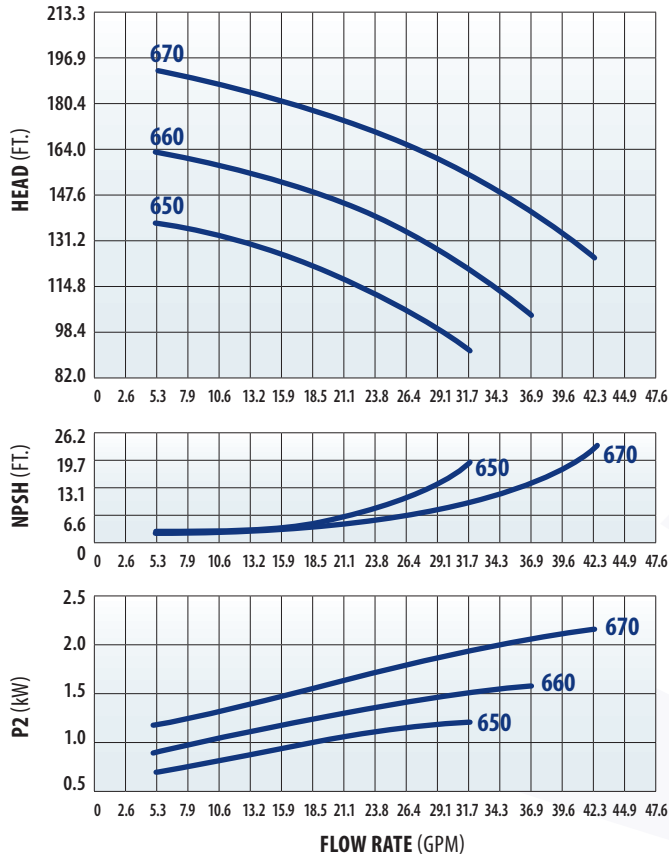
AL-RED 620



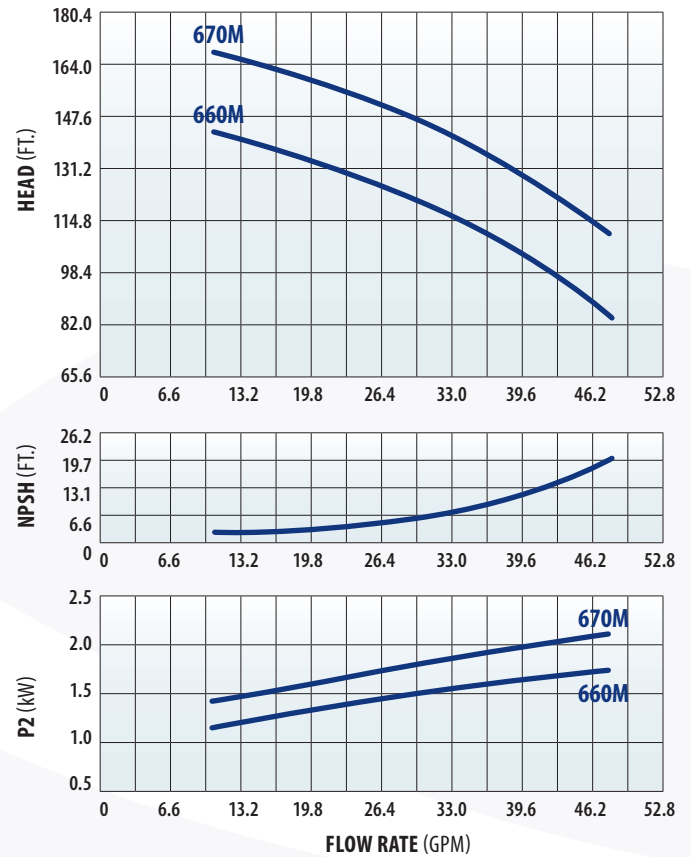
■ PERFORMANCE RANGE

60 Hz RPM = 3450

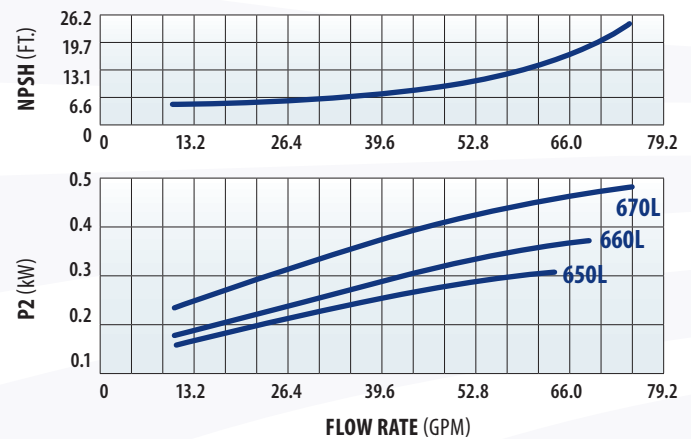
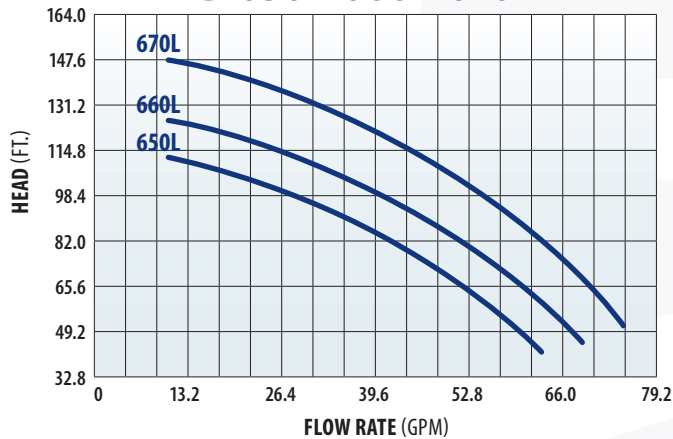
AL-RED 650-660-670



AL-RED 660M-670M

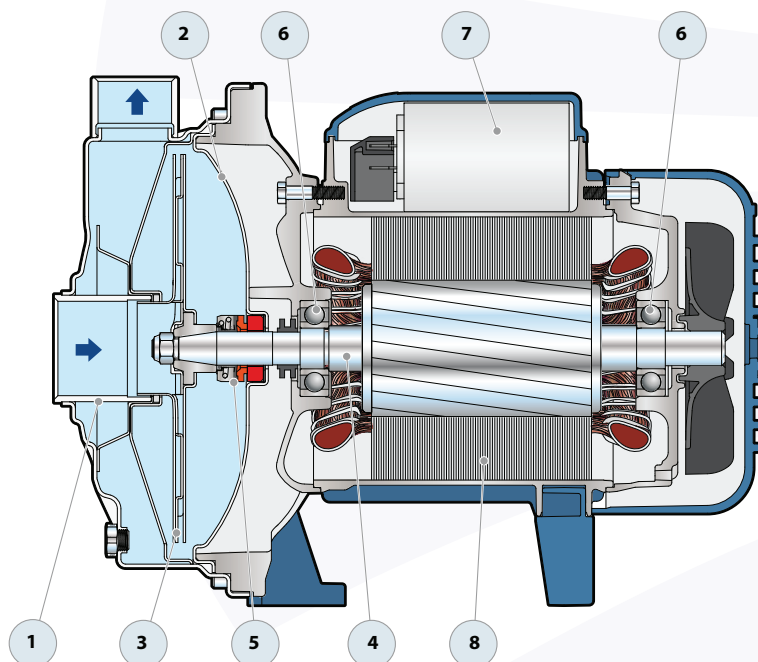


AL-RED 650L-660L-670L



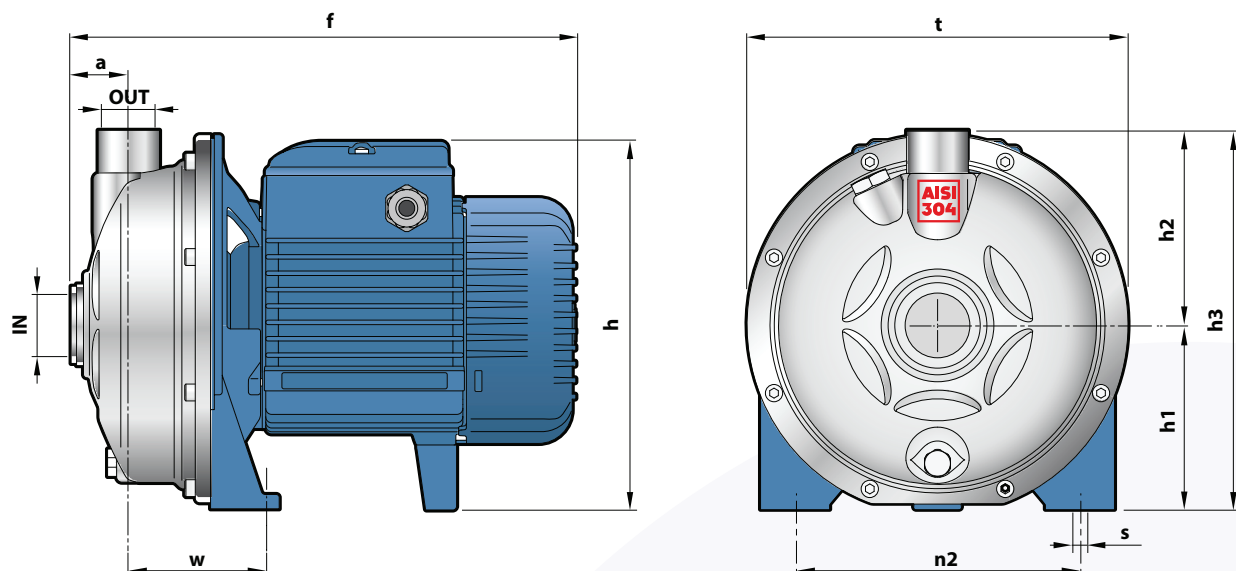
■ CONSTRUCTION FEATURES

#	COMPONENT	CHARACTERISTICS						
1	PUMP BODY	Stainless steel AISI 304 complete with threaded ports in compliance with ISO 228/1						
2	BODY BACKPLATE	Stainless steel AISI 304						
3	IMPELLER	Stainless steel AISI 304						
4	MOTOR SHAFT	Stainless steel AISI 431						
5	MECHANICAL SEAL	PUMP	SEAL	SHAFT	MATERIALS			
		Model	Model	Diameter	Stationary Ring	Rotational Ring	Elastomer	Spring
		AL-RED 600	AR-12	0.4 in.	Ceramic	Graphite	NBR	AISI 304
		AL-RED 610						
		AL-RED 620	AR-14	0.5 in.	Ceramic	Graphite	NBR	AISI 304
		AL-RED 650						
		AL-RED 660	FN-18	0.7 in.	Graphite	Ceramic	NBR	AISI 316
		AL-RED 670						
6	BEARINGS	PUMP	MODEL					
		AL-RED 600	6201 ZZ / 6201 ZZ					
		AL-RED 610						
		AL-RED 620	6203 ZZ / 6203 ZZ					
		AL-RED 650						
		AL-RED 660	6204 ZZ / 6204 ZZ					
		AL-RED 670						
7	CAPACITOR	PUMP	CAPACITANCE					
		Single-phase	(220 V)		(110 V or 127 V)			
		AL-REDm 600	10 µF - 450 VL		25 µF - 250 VL			
		AL-REDm 610	14 µF - 450 VL		25 µF - 250 VL			
		AL-REDm 620	25 µF - 450 VL		60 µF - 300 VL			
		AL-REDm 650	25 µF - 450 VL		60 µF - 250 VL			
		AL-REDm 650L						
		AL-REDm 660	31.5 µF - 450 VL		60 µF - 250 VL			
		AL-REDm 660M/L						
		AL-REDm 670	50 µF - 450 VL		80 µF - 250 VL			
		AL-REDm 670M/L						
		8	ELECTRIC MOTOR	AL-REDm - 4	Single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding.			
AL-RED - 4	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: IP X5								



AL-RED® - 4

DIMENSIONS AND WEIGHT



MODEL NUMBER		PORTS		DIMENSIONS (IN.)													LBS.												
Single-phase	Three-phase	IN	OUT	a	f	h				h1	h2	h3	n2	t	w	s	Single-phase	Three-phase											
						115V	230V	115/230V	3~																				
AL-REDm 600 - 4	AL-RED 600 - 4	1¼ in.	1 in.	1.24	10.5	7.13	7.13	8.26	7.13	3.62	3.68	7.30	4.72	7.13	2.69	0.35	12.5	14.5											
AL-REDm 610 - 4	AL-RED 610 - 4																			15.8	15.8								
AL-REDm 620 - 4	AL-RED 620 - 4				11.6	9.17	8.62	9.56	8.62	4.21	4.41	8.62	6.49	8.70	3.17	0.37		25.3	25.3										
AL-REDm 650 - 4	AL-RED 650 - 4				14.6	—	9.88	—	9.88	4.72	4.63	9.35	7.08	9.61	3.41	0.43		32.2	32.2										
AL-REDm 660 - 4	AL-RED 660 - 4																											34.8	34.8
AL-REDm 670 - 4	AL-RED 670 - 4				14.6/15.3																							38.8	43.2
AL-REDm 660M - 4	AL-RED 660M - 4																											34.6	34.6
AL-REDm 670M - 4	AL-RED 670M - 4				14.6/15.3																							38.6	42.7
AL-REDm 650L - 4	AL-RED 650L - 4																											34.6	34.6
AL-REDm 660L - 4	AL-RED 660L - 4				14.6																							34.6	34.6
AL-REDm 670L - 4	AL-RED 670L - 4				14.6/15.3																							38.6	42.9

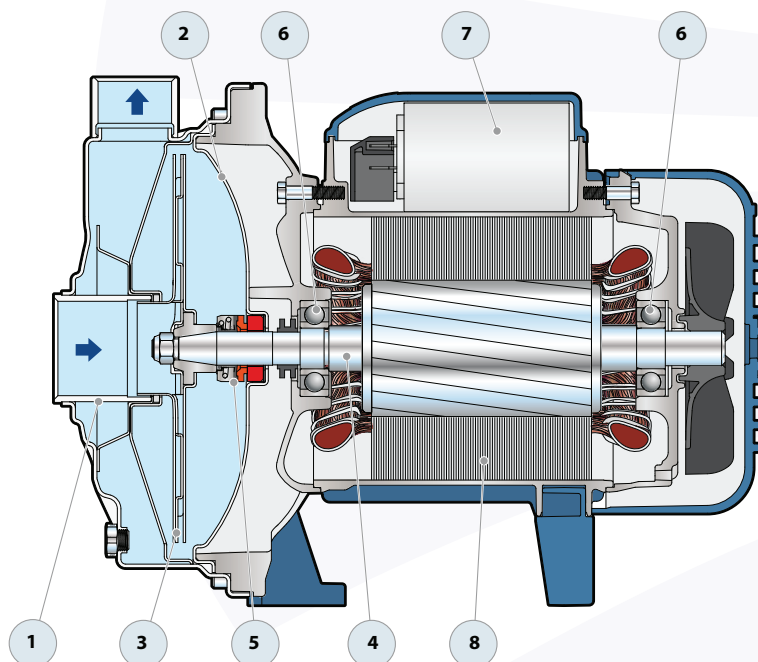
ABSORPTION

MODEL	VOLTAGE	
Single-phase	115 V	230 V
AL-REDm 600 - 4	6.2 A	3.1 A
AL-REDm 610 - 4	10.0 A	5.0 A
AL-REDm 620 - 4	12.0 A	6.0 A
AL-REDm 650 - 4	-	9.5 A
AL-REDm 660 - 4	-	11.0 A
AL-REDm 670 - 4	-	13.5 A
AL-REDm 660M - 4	-	11.0 A
AL-REDm 670M - 4	-	13.5 A
AL-REDm 650L - 4	-	9.5 A
AL-REDm 660L - 4	-	11.0 A
AL-REDm 670L - 4	-	13.5 A

MODEL	VOLTAGE	
Three-phase	230 V - Δ	460 V - Y
AL-RED 600-4	1.9 A	.11 A
AL-RED 610 - 4	2.4 A	1.3 A
AL-RED 620-4	3.6 A	2.2 A
AL-RED 650-4	5.3 A	3.2 A
AL-RED 660-4	6.2 A	3.7 A
AL-RED 670 - 4	7.0 A	4.2 A
AL-RED 660M-4	6.2 A	3.7 A
AL-RED 670M - 4	7.0 A	4.2 A
AL-RED 650L-4	5.3 A	3.2 A
AL-RED 660L-4	6.2 A	3.7 A
AL-RED 670L-4	7.0 A	4.2 A

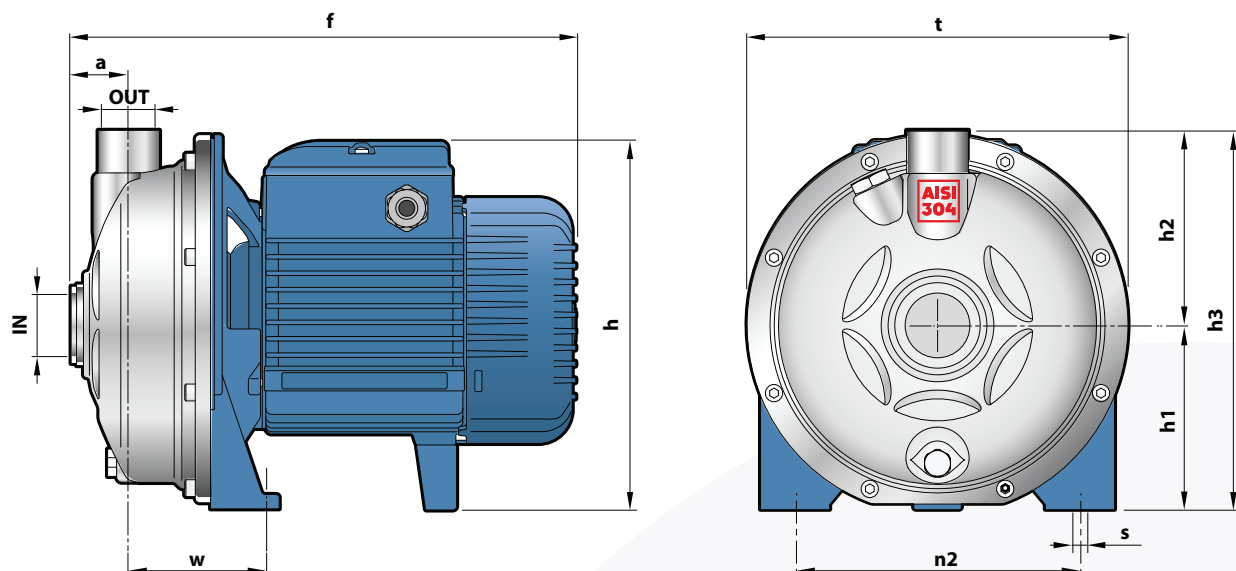
■ CONSTRUCTION FEATURES

#	COMPONENT	CHARACTERISTICS						
1	PUMP BODY	Stainless steel AISI 316L complete with threaded ports in compliance with ISO 228/1						
2	BODY BACKPLATE	Stainless steel AISI 316L						
3	IMPELLER	Stainless steel AISI 316L						
4	MOTOR SHAFT	Stainless steel AISI 316L						
5	MECHANICAL SEAL	PUMP	SEAL	SHAFT	MATERIALS			
		Model	Model	Diameter	Stationary Ring	Rotational Ring	Elastomer	Spring
		AL-RED 600	AR-12ST6	0.4 in.	Ceramic	Graphite	NBR	AISI 316
		AL-RED 610						
		AL-RED 620	AR-14ST6	0.5 in.	Ceramic	Graphite	NBR	AISI 316
		AL-RED 650						
		AL-RED 660	FN-18ST6	0.7 in.	Graphite	Ceramic	NBR	AISI 316
		AL-RED 670						
6	BEARINGS	PUMP	MODEL					
		AL-RED 600	6201 ZZ / 6201 ZZ					
		AL-RED 610						
		AL-RED 620	6203 ZZ / 6203 ZZ					
		AL-RED 650						
		AL-RED 660	6204 ZZ / 6204 ZZ					
		AL-RED 670						
7	CAPACITOR	PUMP	CAPACITANCE					
		Single-phase	(220 V)		(110 V or 127 V)			
		AL-REDm 600	10 µF - 450 VL		25 µF - 250 VL			
		AL-REDm 610	14 µF - 450 VL		25 µF - 250 VL			
		AL-REDm 620	25 µF - 450 VL		60 µF - 300 VL			
		AL-REDm 650	25 µF - 450 VL		60 µF - 250 VL			
		AL-REDm 650L						
		AL-REDm 660	31.5 µF - 450 VL		60 µF - 250 VL			
		AL-REDm 660M/L						
		AL-REDm 670						
		AL-REDm 670M/L	50 µF - 450 VL		80 µF - 250 VL			
		8	ELECTRIC MOTOR	AL-REDm - 6	Single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding.			
AL-RED - 6	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: IP X5								



AL-RED® - 6

DIMENSIONS AND WEIGHT



MODEL NUMBER		PORTS		DIMENSIONS (IN.)												LBS.		
Single-phase	Three-phase	IN	OUT	a	f	h				h1	h2	h3	n2	t	w	s	Single-phase	Three-phase
						115V	230V	115/230V	3~									
AL-REDm 600 - 6	AL-RED 600 - 6	1¼ in.	1 in.	1.24	10.5	7.13	7.13	8.26	7.13	3.62	3.68	7.30	4.72	7.13	2.69	0.35	12.5	14.5
AL-REDm 610 - 6	AL-RED 610 - 6					9.17	8.62	9.56	8.62	4.21	4.41	8.62	6.49	8.70	3.17	0.37	15.8	15.8
AL-REDm 620 - 6	AL-RED 620 - 6				11.6					4.21	4.41	8.62	6.49	8.70	3.17	0.37	25.3	25.3
AL-REDm 650 - 6	AL-RED 650 - 6				14.6												32.2	32.2
AL-REDm 660 - 6	AL-RED 660 - 6				14.6/15.3												34.8	34.8
AL-REDm 670 - 6	AL-RED 670 - 6				14.6/15.3												38.8	43.2
AL-REDm 660M - 6	AL-RED 660M - 6				14.6/15.3												34.6	34.6
AL-REDm 670M - 6	AL-RED 670M - 6				14.6												38.6	42.7
AL-REDm 650L - 6	AL-RED 650L - 6				14.6												34.6	34.6
AL-REDm 660L - 6	AL-RED 660L - 6				14.6/15.3												34.6	34.6
AL-REDm 670L - 6	AL-RED 670L - 6																38.6	42.9

ABSORPTION

MODEL	VOLTAGE	
Single-phase	115 V	230 V
AL-REDm 600 - 6	6.2 A	3.1 A
AL-REDm 610 - 6	10.0 A	5.0 A
AL-REDm 620 - 6	12.0 A	6.0 A
AL-REDm 650 - 6	—	9.5 A
AL-REDm 660 - 6	—	11.0 A
AL-REDm 670 - 6	—	13.5 A
AL-REDm 660M - 6	—	11.0 A
AL-REDm 670M - 6	—	13.5 A
AL-REDm 650L - 6	—	9.5 A
AL-REDm 660L - 6	—	11.0 A
AL-REDm 670L - 6	—	13.5 A

MODEL	VOLTAGE	
Three-phase	230 V - Δ	460 V - 人
AL-RED 600 - 6	1.9 A	1.1 A
AL-RED 610 - 6	2.4 A	1.3 A
AL-RED 620 - 6	3.6 A	2.2 A
AL-RED 650 - 6	5.3 A	3.2 A
AL-RED 660 - 6	6.2 A	3.7 A
AL-RED 670 - 6	7.0 A	4.2 A
AL-RED 660M - 6	6.2 A	3.7 A
AL-RED 670M - 6	7.0 A	4.2 A
AL-RED 650L - 6	5.3 A	3.2 A
AL-RED 660L - 6	6.2 A	3.7 A
AL-RED 670L - 6	7.0 A	4.2 A

Three-phase	220 V - Δ	380 V - 人	208 V - Δ	360 V - 人
AL-RED 600 - 6	2.3 A	1.3 A	2.4 A	1.4 A



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