



STAINLESS STEEL CENTRIFUGAL PUMPS
SELF PRIMING PUMPS



APPLICATION

Centrifugal single impeller low head water pumps for flow irrigation systems with high flow rates. Suitable to pump clean water or non-aggressive liquids charged with small solid impurities. To be used in flow irrigation systems, in gardening and agriculture and in industrial fittings.

MATERIAL

- Casing in CI/Impeller in Bronze, Stainless steel (optional)
- Shaft in SS 303 & Mechanical seal in Carbon/Ceramic/NBR

CONDITION OF USAGE

- Maximum Working pressure 3.5 bar
- Liquid temperature up to 60°C, Ambient temperature up to 40°C & Total suction lift up to 8m
- Continuous duty

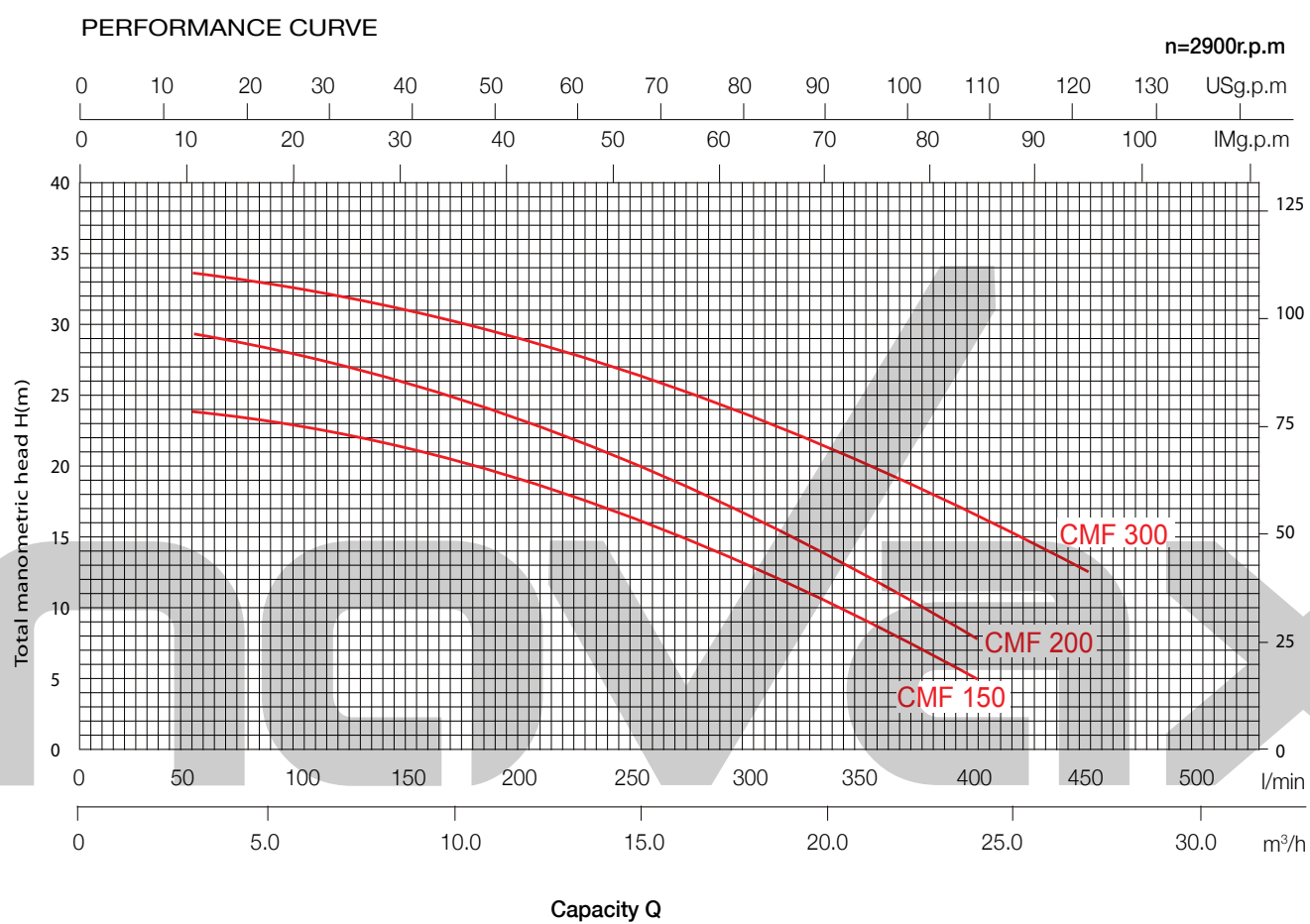
TECHNICAL DATA

- TEFC 2 pole motor with Insulation Class F
- Protection degree IP54/IP55
- I-230V+/-10% 50HZ, 3-230/400V+/-10% 50HZ
- Permanent split capacitor and automatic thermal overload for single phase version
- Thermal protection to be provided by the user for three phase version

CMF

Quiet running single-stage centrifugal pumps

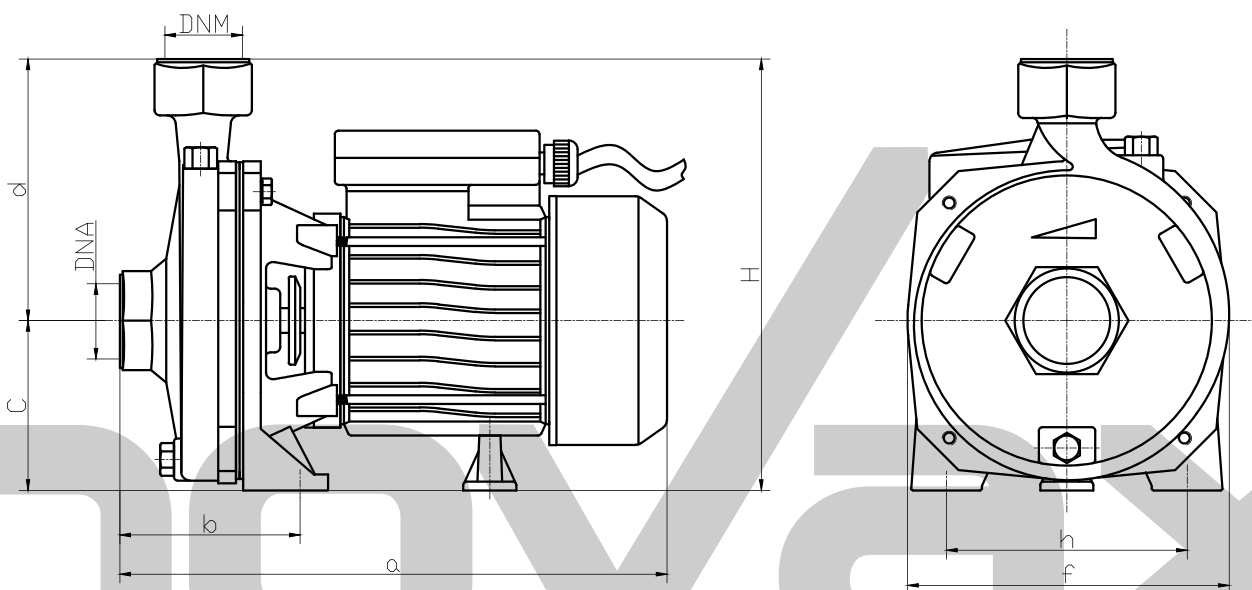




Model	Power (kw)	Power (hp)	Inlet/outlet	Max.flow (l/min)	Max.Head (m)	Max.Suct (m)	Gw (kg)	Packing Dimension (mm)	Quantity (pcs/20' teu)
CMF 150	1.1	1.5	2"x2"	450	25	8	21.2	400x242x295	917
CMF 200	1.5	2.0	2"x2"	450	30	8	23.6	400x242x295	917
CMF 300	2.2	3.0	2"x2"	500	34	8	29.8	400x242x295	714



DIMENSIONAL DETAILS OF CMF SERIES



PUMP MODEL	DNA	DNM	DIMENSIONS mm						
Single phase			a	b	c	d	f	h	H
CMF 150	2"	2"	310	113	103	132	176	136	235
CMF 200	2"	2"	373	134	114	166	214	150	280
CMF 300	2"	2"	373	134	114	166	214	150	280

LOAD LOSSES TABLE

LOAD LOSSES (Pc) in meters (column of water) Flow rate (V m/s)

Capacity	m³/h	Internal diameter in mm																											
		25	32	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	450	500	600	700	800	900	1000		
3	Pc% Vm/s	17 1.70	6 1.03	1.6 0.67	0.54 0.43	0.25 0.29	0.13 0.22	0.06 0.16	0.03 0.13	0.02 0.10																			
6	Pc% Vm/s		24 2.06	6 1.34	2 0.85	0.9 0.58	0.43 0.44	0.21 0.32	0.13 0.26	0.08 0.20	0.026 0.13																		
9	Pc% Vm/s			12.5 2.08	4.3 1.32	1.8 0.89	0.9 0.65	0.46 0.5	0.25 0.39	0.15 0.32	0.06 0.20																		
12	Pc% Vm/s			20 2.76	7 0.76	32 1.19	1.5 0.88	0.75 0.67	0.44 0.53	0.25 0.43	0.09 0.27	0.03 0.18																	
15	Pc% Vm/s				12 2.2	5.2 1.49	2.4 1.1	1.25 0.87	0.7 0.66	0.42 0.54	0.15 0.34	0.06 0.24																	
18	Pc% Vm/s				17 2.64	7 1.78	3.5 1.3	1.7 1	1 0.78	0.6 0.64	0.2 0.4	0.08 0.28																	
21	Pc% Vm/s				22 3.35	8.8 2.08	4.2 1.54	2.2 1.17	1.3 0.93	0.75 0.75	0.26 0.48	0.1 0.32	0.05 0.24																
24	Pc% Vm/s					12 2.38	5.7 1.76	3 1.34	1.7 1.06	1 0.86	0.36 0.54	0.14 0.36	0.07 0.28																
27	Pc% Vm/s					14 2.7	7 1.97	3.5 1.45	2 1.17	1.25 0.96	0.42 0.6	0.17 0.42	0.08 0.31																
30	Pc% Vm/s					17 2.98	8.2 2.2	4.2 1.74	2.5 1.32	1.5 1.08	0.5 0.68	0.2 0.48	0.09 0.34																
36	Pc% Vm/s					25 3.58	12 2.63	6.3 2	3.5 1.58	2 1.28	0.75 0.52	0.3 0.57	0.14 0.42	0.07 0.32															
42	Pc% Vm/s						16 3.07	8.5 2.34	4.5 1.85	2.7 1.5	0.85 0.96	0.33 0.66	0.18 0.48	0.08 0.37															
48	Pc% Vm/s						21 3.51	10 2.68	6 2.12	3.6 1.75	1.2 0.72	0.45 0.56	0.22 0.43	0.12 0.37	0.06 0.37														
54	Pc% Vm/s						25 3.94	13.5 3	7.6 2.34	4.5 1.92	1.5 1.2	0.55 0.84	0.28 0.63	0.14 0.48	0.08 0.38														
60	Pc% Vm/s							16 3.32	9 2.64	5.5 2.16	1.8 1.36	0.7 0.96	0.33 0.68	0.17 0.53	0.1 0.42														
75	Pc% Vm/s							24 4.17	14 3.31	8 2.68	2.76 1.72	1 0.87	0.48 0.67	0.24 0.53	0.08 0.43														
90	Pc% Vm/s								20 3.97	12.5 3.24	3.8 2.04	1.45 1.44	0.74 1.02	0.36 0.8	0.2 0.63	0.14 0.51	0.08 0.42												
105	Pc% Vm/s								26 4.6	16.5 3.74	5.3 2.41	1.95 1.66	0.9 1.22	0.47 0.93	0.27 0.74	0.16 0.59	0.1 0.49												
120	Pc% Vm/s									21.5 4.31	6.9 4.72	2.6 1.93	1.2 1.35	0.61 1.06	0.36 0.84	0.2 0.68	0.14 0.56	0.08 0.47											
135	Pc% Vm/s									26 4.81	9 1.07	3.3 2.43	1.5 1.56	0.76 1.19	0.45 0.95	0.25 0.76	0.17 0.63	0.1 0.53											
150	Pc% Vm/s										11 3.44	4 2.36	1.9 1.74	0.95 1.34	0.55 0.86	0.3 0.70	0.21 0.59	0.12 0.59	0.06 0.43										
165	Pc% Vm/s										13 3.75	4.7 2.61	2.2 1.94	1.13 1.15	0.65 0.94	0.37 0.94	0.24 0.77	0.15 0.65	0.08 0.48										
180	Pc% Vm/s										15.2 4.09	5.5 2.83	2.6 2.08	1.3 1.59	0.76 1.26	0.43 1.02	0.29 0.84	0.18 0.71	0.09 0.52										
210	Pc% Vm/s										21 4.70	7.4 3.32	3.5 2.43	1.8 1.86	1.1 1.49	0.6 1.19	0.37 0.98	0.24 0.82	0.12 0.61	0.06 0.47									
240	Pc% Vm/s										9.4 3.78	4.3 2.77	2.3 2.12	1.3 1.68	0.75 1.36	0.48 1.12	0.3 0.95	0.15 0.69	0.08 0.53										
270	Pc% Vm/s										12 4.26	5.5 3.13	2.8 2.39	1.62 1.90	0.9 1.53	0.58 1.26	0.35 1.07	0.18 0.59	0.09 0.59										
300	Pc% Vm/s										14 4.75	7.5 3.47	3.4 2.66	2 2.10	1.1 1.71	0.74 1.40	0.46 0.86	0.22 0.67	0.11 0.53	0.07 0.53									
360	Pc% Vm/s										9 4.15	4.7 3.17	2.8 2.53	1.6 2.04	1 1.68	0.65 1.41	0.32 1.04	0.16 0.79	0.09 0.63	0.05 0.51									
420	Pc% Vm/s										11.6 4.86	6.2 3.72	3.5 2.94	2 1.96	1.3 1.64	0.82 1.22	0.41 0.94	0.21 0.76	0.12 0.59	0.07 0.59	0.03 0.41								
480	Pc% Vm/s										8.5 4.24	4.9 3.36	2.9 2.72	1.9 2.24	1.2 1.90	0.6 1.36	0.3 1.06	0.17 0.84	0.09 0.69	0.04 0.47									
540	Pc% Vm/s										14 4.78	6.5 3.80	3.7 3.06	2.35 2.52	1.52 2.13	0.75 1.56	0.38 1.19	0.22 0.94	0.12 0.76	0.05 0.53									
600	Pc% Vm/s										12.2 5.30	7.4 4.20	4.3 3.40	2.7 2.81	1.7 2.36	0.9 1.73	0.45 1.34	0.25 1.06	0.13 0.86	0.055 0.61	0.024 0.44								
660	Pc% Vm/s										9 4.61	5.2 3.76	3.3 3.07	2.1 2.59	1.1 1.89	0.54 1.46	0.3 0.93	0.16 0.65	0.06 0.48	0.03 0.48									
720	Pc% Vm/s										10 5.05	6 4.08	3.8 3.37	2.5 2.84	1.3 2.08	0.62 1.65	0.35 1.26	0.19 1.02	0.075 0.71	0.035 0.52	0.045 0.35								
780	Pc% Vm/s																												
840	Pc% Vm/s																												
900	Pc% Vm/s																												
960	Pc% Vm/s																												
1020	Pc% Vm/s																												
1080	Pc% Vm/s																												
1140	Pc% Vm/s																												
1200	Pc% Vm/s																												

Discharge diameter

Suction diameter

novax



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