

novax

PUMPS & MOTORS



Sea water desalting | Petrochemical industry | Waste water
Industrial application | Domestic water supply | Groundwater
Pressure boost | HVAC | Heating | Fire fighting



CORA NORM series end suction centrifugal pumps are designed with technical benefits to meet the needs of users in variety of city water supply, fire fighting, irrigation, and cooling applications.

Design & Material

• Bare Shaft • Direct Coupled with Electric Motor or Engine

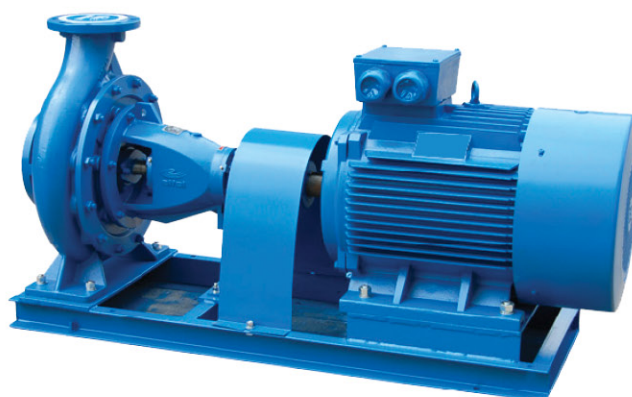
Design	Performance and dimensions referring to the European standard BS EN733 / DIN24255
Structure	Horizontal, Axial End-Suction, Single-Stage, Single-Suction, Volute Casing, Back pull-out
DN (mm)	32-250
Flange	DIN250I standard, ANSI B16.5 CL ass 150lb optional
Casing	Cast Iron standard, Ductile Iron, Stainless Steel 304/316 optional
Impeller	Bronze standard, Cast Iron, Stainless Steel 304/316 optional
Shaft	ASTM420 standard, ASTM304, ASTM316, ASTM1045 optional
Shaft Seal	Mechanical Seal Standard, Gland Packing optional

Operating Data

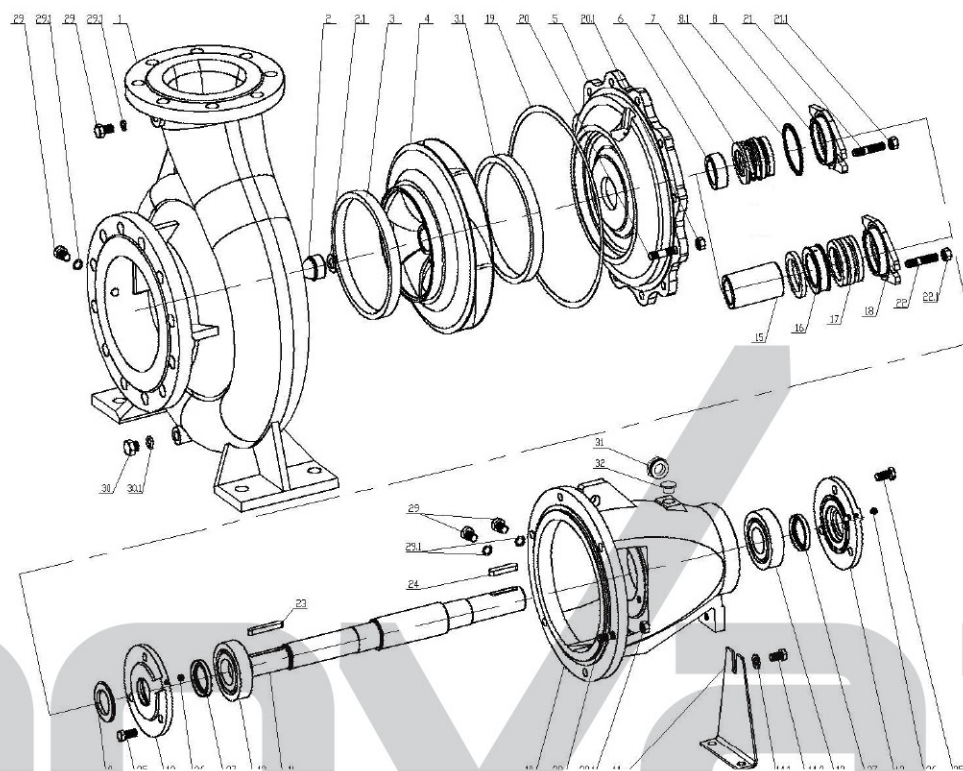
Flow Rate(Q)	2-1100 m ³ /h
Head(H)	2-152m
Speed	1450~2900 rpm (50HZ), 1750~3500 rpm (60HZ)
Temperature	-10 Celsius to 105 Celsius
Working Pressure	1.2 MPa standard, 1.6 MPa on request

Applications

- Heating, ventilation and air-conditioning
- Fire Protection and Fire Fighting
- Water circulation
- Liquid transfer
- Irrigation
- HVAC
- Booster systems



CORA NORM Series Explode View & List of Parts



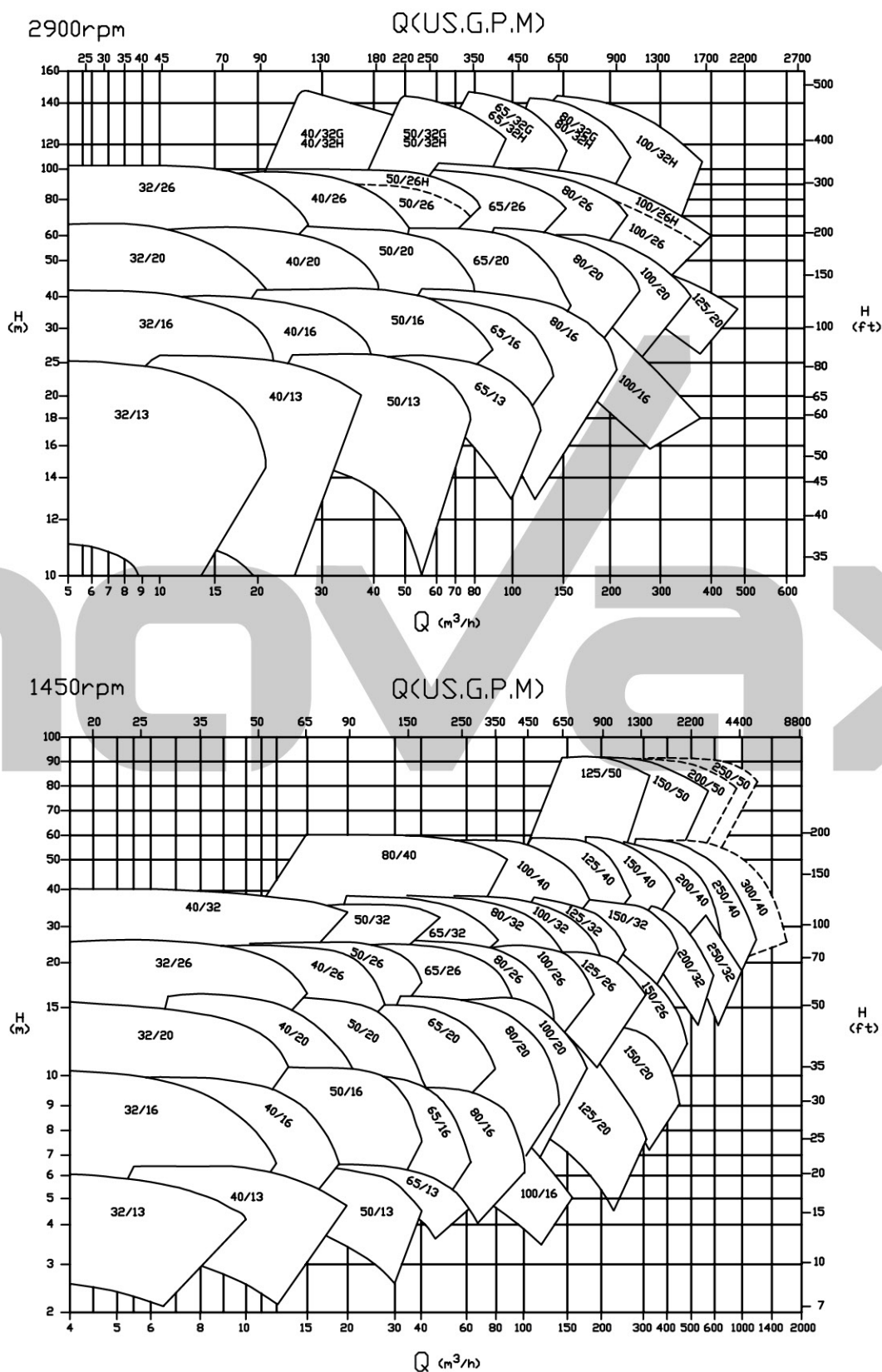
Code	Part Name
1	Casing
2	Impeller Nut
2.1	Lock Washer
3	Wear Ring (Front)
3.1	Wear Ring (Back)
4	Impeller
5	Casing Cover
6	Shaft Spacer
7	Mech. Seal
8	Seal Cover
8.1	O-ring
9	Rubber Slinger
10	Bearing Frame

Code	Part Name
11	Shaft
12	Bearing
13	Bearing Cover
14	Support Foot
14.1	Bolt & Nut
15	Packing Sleeve
16	Packing Seal Cage
	Locating Sleeve
17	Gland Packing
18	Gland Cover
19	Casing Gasket
20	Stud & Nut
21	Stud & Nut

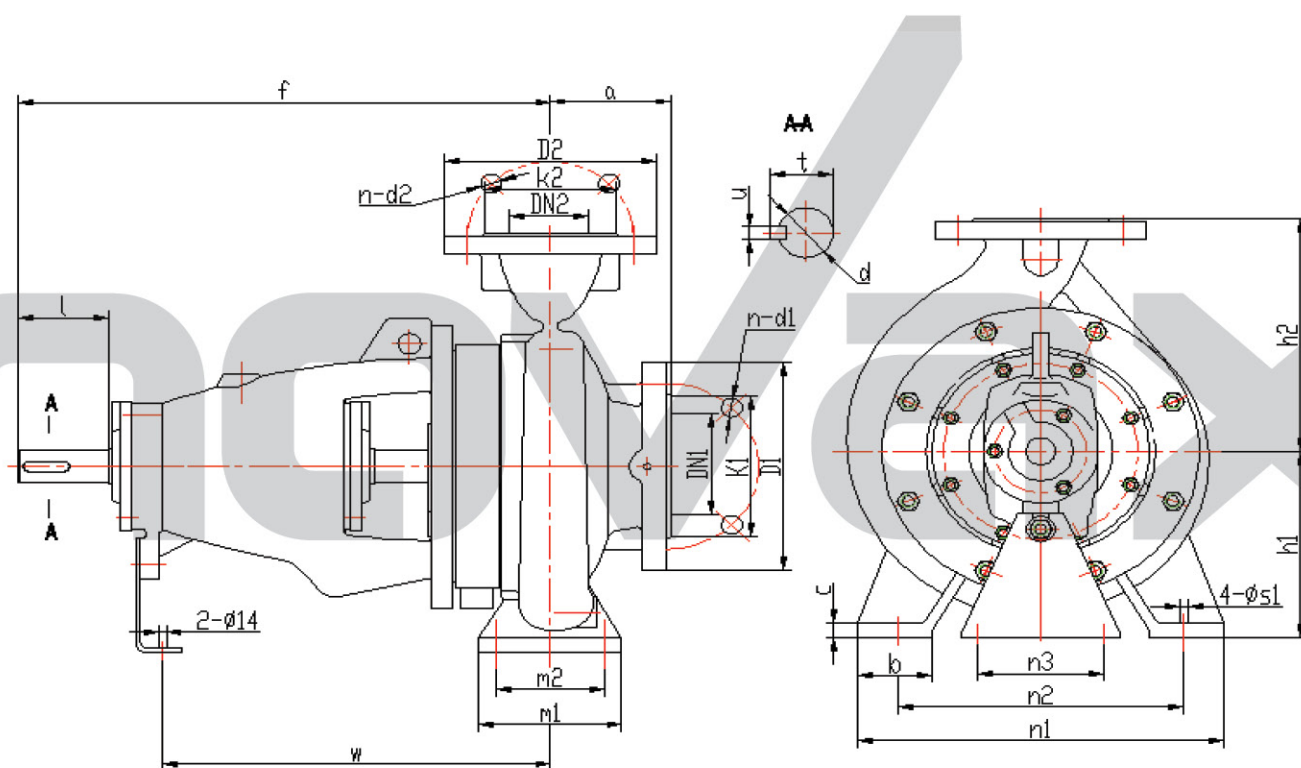
Code	Part Name
22	Stud & Nut
23	Key
24	Key
25	Screw Bolt
26	Oil Nipple
27	Felting
	Oil Seal
28	Stud & Nut
29	Plug & Washer
30	Plug & Washer
31	Oil Scale
32	Oil Cover



Family Chart CORA NORM Series (50Hz)



CORA NORM Series Installation Dimensions





Model	Bearing inside	DN2	DN1	a	F	h1	h2	b	c	n3	m1	m2	n1	n2	Sl	w	d	l	t	u
CN 32/13	25	32	50	80	360	112	140	50	14	100	100	70	190	140	14	267	24	50	27	8
CN 32/16						132	160						240	190						
CN 32/20						160	180						240	190						
CN 32/26						180	225						320	250						
CN 40/13						112	140						210	160						
CN 40/16		40	50	80	360	132	160	50		100	100	70	240	190						
CN 40/20						160	180	265					212							
CN 40/26						180	225	320					250							
CN 40/32						200	250	345					280							
CN 40/32H						200	250	345					280							
CN 40/32G	45	65	50	100	526	200	65	18	110	125	95	240	190							
CN 50/13	132				160	265						212								
CN 50/16	160				180	320						250								
CN 50/20	160				200	345						280								
CN 50/26	180				225	345						280								
CN 50/26G	225				280	360						280								
CN 50/32	225				280	360						280								
CN 50/32H	225				280	360						280								
CN 50/32G	225				280	360						280								
CN 65/13	35				65	80						100	132	160	65	18	110	125	95	240
CN 65/16		160	180	265			212													
CN 65/20		160	200	320			250													
CN 65/20G		180	225	345			280													
CN 65/26		200	250	360			280													
CN 65/32		225	280	360			280													
CN 65/32H		225	280	360			280													
CN 65/32G		225	280	360			280													
CN 80/16		225	280	360			280													
CN 80/20		225	280	360			280													
CN 80/26	45	80	100	125	200	280	80	16	110	125	95	400	315							
CN 80/32					250	315						400	315							
CN 80/32H					250	315						400	315							
CN 80/32G					250	315						400	315							
CN 80/40					250	315						400	315							
CN 100/16					250	315						400	315							
CN 100/20					250	315						400	315							
CN 100/26					250	315						400	315							
CN 100/32					250	315						400	315							
CN 100/40					250	315						400	315							
CN 125/20	35	100	125	140	200	250	80	16	160	120	95	320	250							
CN 125/26					225	280						345	280							
CN 125/32					250	315						400	315							
CN 125/40					280	355						450	350							
CN 125/50					315	400						500	400							
CN 150/20					355	450						550	450							
CN 150/26					400	500						600	500							
CN 150/32					450	550						650	550							
CN 150/40					500	600						700	600							
CN 150/50					550	650						750	650							
CN 200/26	45	150	200	180	200	250	100	18	200	150	100	400	315							
CN 200/32					225	280						400	315							
CN 200/40					250	315						450	350							
CN 200/50					280	355						500	400							
CN 250/32					315	400						550	450							
CN 250/40					355	450						600	500							
CN 250/50					400	500						650	550							
CN 300/40					450	550						700	600							
CN 300/50					500	600						750	650							
CN 300/60					550	650						800	700							
CN 32/13	25	32	50	80	360	112	140	50	14	100	100	70	190	140	14	267	24	50	27	8
CN 32/16						132	160						240	190						
CN 32/20						160	180						240	190						
CN 32/26						180	225						320	250						
CN 40/13						112	140						210	160						
CN 40/16		40	50	80	360	132	160	50		100	100	70	240	190						
CN 40/20						160	180	265					212							
CN 40/26						180	225	320					250							
CN 40/32						200	250	345					280							
CN 40/32H						200	250	345					280							
CN 40/32G	45	65	50	100	526	200	65	18	110	125	95	240	190							
CN 50/13	132				160	265						212								
CN 50/16	160				180	320						250								
CN 50/20	160				200	345						280								
CN 50/26	180				225	345						280								
CN 50/26G	225				280	360						280								
CN 50/32	225				280	360						280								
CN 50/32H	225				280	360						280								
CN 50/32G	225				280	360						280								
CN 65/13	35				65	80						100	132	160	65	18	110	125	95	240
CN 65/16		160	180	265			212													
CN 65/20		160	200	320			250													
CN 65/20G		180	225	345			280													
CN 65/26		200	250	360			280													
CN 65/32		225	280	360			280													
CN 65/32H		225	280	360			280													
CN 65/32G		225	280	360			280													
CN 80/16		225	280	360			280													
CN 80/20		225	280	360			280													
CN 80/26	45	80	100	125	200	280	80	16	110	125	95	400	315							
CN 80/32					250	315						400	315							
CN 80/32H					250	315						400	315							
CN 80/32G					250	315						400	315							
CN 80/40					250	315						400	315							
CN 100/16					250	315						400	315							
CN 100/20					250	315						400	315							
CN 100/26					250	315						400	315							
CN 100/32					250	315						400	315							
CN 100/40					250	315						400	315							
CN 125/20	35	100	125	140	200	250	80	16	160	120	95	320	250							
CN 125/26					225	280						345	280							
CN 125/32					250	315						400	315							
CN 125/40					280	355						450	350							
CN 125/50					315	400						500	400							
CN 150/20					355	450						550	450							
CN 150/26					400	500						600	500							
CN 150/32					450	550						650	550							
CN 150/40					500	600						700	600							
CN 150/50					550	650						750	650							
CN 200/26	45	150	200	180	200	250	100	18	200	150	100	400	315							
CN 200/32					225	280						400	315							
CN 200/40					250	315						450	350							
CN 200/50					280	355						500	400							
CN 250/32					315	400						550	450							
CN 250/40					355	450						600	500							
CN 250/50					400	500						650	550							
CN 300/40					450	550						700	600							
CN 300/50					500	600						750	650							
CN 300/60					550	650						800	700							
CN 32/13	25	32	50	80	360	112	140	50	14	100	100	70	190	140	14	267	24	50	27	8
CN 32/16						132	160						240	190						
CN 32/20						160	180						240	190						
CN 32/26						180	225						320	250						
CN 40/13						112	140						210	160						
CN 40/16		40	50	80	360	132	160	50		100	100	70	240	190						
CN 40/20						160	180	265					212							
CN 40/26						180	225	320					250							
CN 40/32						200	250	345					280							
CN 40/32H						200	250	345					280							
CN 40/32G	45	65	50	100	526	200	65	18	110	125	95	240	190							
CN 50/13	132				160	265						212								
CN 50/16	160				180	320						250								
CN 50/20	160				200	345						280								
CN 50/26	180				225	345						280								
CN 50/26G	225				280	360						280								
CN 50/32	225				280	360						280								
CN 50/32H	225				280	360						280								
CN 50/32G	225				280	360						280								
CN 65/13	35				65	80						100	132	160	65	18	110	125	95	240
CN 65/16		160	180	265			212													
CN 65/20		160	200	320			250													
CN 65/20G		180	225	345			280													
CN 65/26		200	250	360			280													
CN 65/32		225	280	360			280													
CN 65/32H		225	280	360			280													
CN 65/32G		225	280	360			280													
CN 80/16		225	280	360			280													
CN 80/20		225	280	360			280													
CN 80/26	45	80	100	125	200	280	80	16	110	125	95	400	315							
CN 80/32					250	315						400	315							
CN 80/32H					250	315						400	315							
CN 80/32G					250	315						400	315							
CN 80/40					250	315						400	315							
CN 100/16					250	315						400	315							
CN 100/20					250	315						400	315							
CN 100/26					250	315						400	315							
CN 100/32					250	315						400	315							
CN 100/40					250	315						400	315							
CN 125/20	35	100	125	140	200	250	80	16	160	120	95	320	250							
CN 125/26					225	280						345	280							
CN 125/32					250	315						400	315							
CN 125/40					280	355						450	350							
CN 125/50					315	400						500	400							
CN 150/20					355	450						550	450							
CN 150/26					400	500						600	500							
CN 150/32					450	550						650	550							
CN 150/40					500	600						700	600							
CN 150/50					550	650						750	650							
CN 200/26	45	150	200	180	200	250	100	18	200	150	100	400	315							
CN 200/32					225	280						400	315							
CN 200/40					250	315						450	350							
CN 200/50					280	355						500	400							
CN 250/32					315	400						550	450							
CN 250/40					355	450						600	500							
CN 250/50					400	500						650	550							
CN 300/40					450	550						700	600							
CN 300/50					500	600						750	650							
CN 300/60					550	650						800	700							
CN 32/13	25	32	50	80	360	112	140	50	14	100	100	70	190	140	14	267	24	50	27	8
CN 32/16						132	160						240	190						
CN 32/20						160	180						240	190						
CN 32/26						180	225						320	250						
CN 40/13						112	140						210	160						
CN 40/16		40	50	80	360	132	160	50		100	100	70	240	190						
CN 40/20						160	180	265					212							
CN 40/26						180	225	320					250							
CN 40/32						200	250	345					280							
CN 40/32H						200	250	345					280							
CN 40/32G	45	65	50	100	526	200	65	18	110	125	95	240	190							
CN 50/13	132				160	265						212								
CN 50/16	160				180	320						250								
CN 50/20	160				200	345						280								
CN 50/26	180				225	345						280								
CN 50/26G	225				280	360						280								
CN 50/32	225				280	360						280								
CN 50/32H	225				280	360						280								
CN 50/32G	225				280	360						280								
CN 65/13	35				65	80						100	132	160	65	18</				

LOAD LOSSES TABLE

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

Capacity		Internal diameter in mm																														
m³/h		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	3.2 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 0.84	0.55 0.63	0.28 0.48	0.14 0.38	0.08 0.38																	
60	Pc% Vm/s							16 3.32	9 2.64	5.5 2.16	1.8 1.36	0.7 0.68	0.33 0.53	0.17 0.42	0.1 0.42																	
75	Pc% Vm/s							24 4.17	14 3.31	8 2.68	2.7 1.72	1 0.87	0.48 0.67	0.24 0.53	0.14 0.43	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 1.05	0.3 0.86	0.21 0.70	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 1.46	0.65 1.15	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 1.49	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 0.78	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 0.67	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 2.37	1.3 1.96	0.82 1.64	0.41 1.22	0.21 0.94	0.12 0.76	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 2.36	1.7 1.73	0.9 1.34	0.45 1.06	0.25 0.86	0.13 0.61	0.055 0.44	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 0.15	0.16 0.93	0.06 0.65	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									
780	Pc% Vm/s															7.3 4.43	4.5 3.65	3 3.08	1.5 2.26	0.75 1.73	0.42 1.36	0.23 1.11	0.08 0.77	0.04 0.56								
840	Pc% Vm/s																8 4.76	5.4 3.95	3.4 3.31	1.7 2.43	0.85 1.86	0.48 1.47	0.26 1.19	0.1 0.83	0.047 0.61							
900	Pc% Vm/s																	5.8 4.22	3.75 3.54	1.9 2.60	0.96 2.00	0.53 1.57	0.29 1.27	0.11 0.88	0.053 0.65							
960	Pc% Vm/s																		6.5 4.49	4.3 3.78	2.1 2.77	1.1 2.13	0.6 1.68	0.32 1.36	0.12 0.95	0.06 0.70						
1020	Pc% Vm/s																			7.2 4.76	4.6 4.01	2.45 2.94	1.2 2.26	0.67 1.78	0.35 1.44	0.16 1.00	0.075 0.77	0.033 0.54				
1080	Pc% Vm/s																				5.4 4.26	2.8 3.12	1.4 2.38	0.43 1.86	0.16 1.53	0.073 1.06	0.037 0.57					
1140	Pc% Vm/s																					6 4.49	3.2 3.29	1.53 2.53	0.86 1.99	0.45 1.65	0.175 1.12	0.08 0.84	0.043 0.61	0.037 0.52		
1200	Pc% Vm/s																						6.5 4.72	3.4 3.45	1.7 2.68	0.93 2.12	0.5 1.72	0.19 1.23	0.09 0.98	0.046 0.63	0.04 0.54	0.025 0.4

Discharge diameter
Suction diameter



NOVAX PUMPE SRL

Via Giovanni Zaniol,
188, Pieve di Soligo, Italy.
Tel: (+39) 043 881 143
Email: tony@novaxeurope.com

KIM NOVAX INDUSTRIES PVT LTD

No. 27, 7th Cross,
4th Floor, Shastri Nagar,
Adayar, Chennai - 600 020,
Tamilnadu, India.
Tel: +91 9445307474
Email: sales@novaxpumps.com

PLANT

Plot No. 250A,
AMRL Hi Tech City SEZ,
Nanguneri, Tirunelveli Dist.
Tamilnadu, India.
Tel: +91 9789249548
Email: info@novaxpumps.com

www.novaxpumps.com