



STAINLESS STEEL CENTRIFUGAL PUMPS

ALSO AVAILABLE





APPLICATIONS

- Water supplying systems
- Pressure boiler feeding
- Pure water treating systems
- Pharmaceutical industries
- Washing and sprinkling Standard mechanical seal: NBR/ceramic/ carbon (Other mechanical seal materials are available upon request)

MATERIALS

- Casing, back-cover, impeller and pump shaft: in SS 304 for Micro CX models and in SS 316 for Micro CXL model stainless steel.
- Bracket and motor housing: Aluminium-alloy
- Standard mechanical seal: NBR/ceramic/carbon (Other mechanical seal materials are available upon request)

CONDITION OF USAGE

The pumps are suitable for transporting clean media which are non-aggressive to stainless steel SUS304 or SUS316L.

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

MICRO CX/ CXL SERIES

Quiet running single-stage centrifugal pumps, complete with prefilter.



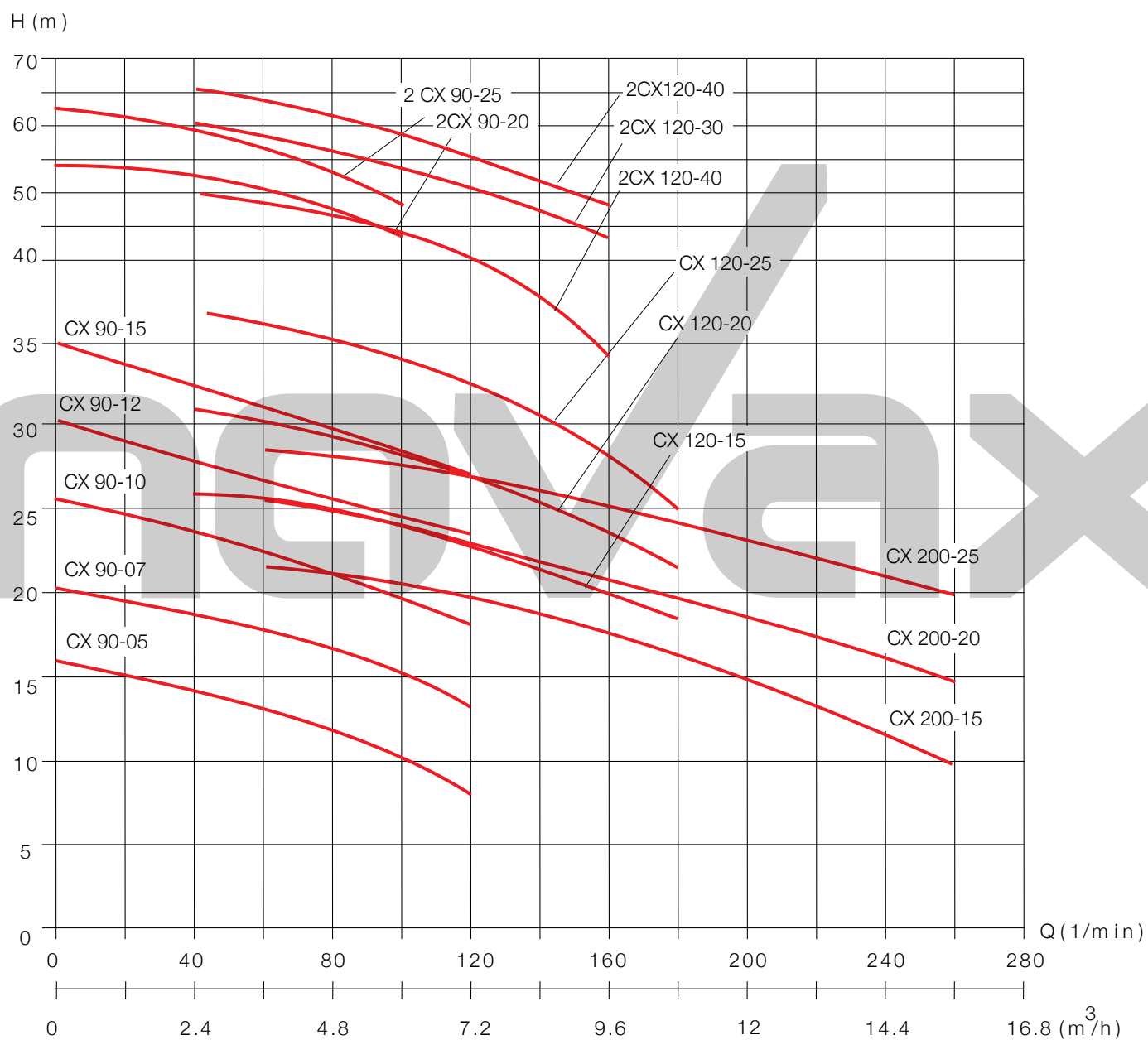
TECHNICAL DATA AT 50HZ

Single phase 220V/50HZ	Three phase 380V/50HZ	POWER		Suction head	Q	L/min m³/h	20	40	60	80	100	120	140	160	180	200	220	240	280
		KW	HP				1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6
2 CXM 90-25	2 CX 90-25	1.85	2.5	8	H (m)	54	52	50	47	43									
2 CXM 90-30	2 CX 90-30	2.2	3	8		61	58	56	52	48									
CXM 90-05	CX 90-05	0.37	0.5	8		16	15	13.5	13	11.5	10								
CXM 90-07	CX 90-07	0.55	0.75	8		19	18	17	16	15	14								
CXM 90-10	CX 90-10	0.75	1.0	8		25	24	22.5	22	20	29								
CXM 90-12	CX 90-12	0.90	1.2	8		29	28	27	26	24	23								
CXM 90-15	CX 90-15	1.10	1.5	8		33	32	31	30	28.5	27								
CXM 120-15	CX 120-15	1.10	1.5	8			26	25	24	23	22	21	20	18					
CXM 120-20	CX 120-20	1.5	2.0	8			31	30	29	28	27	25	24	21					
CXM 120-25	CX 120-25	1.85	2.5	8			37	35.5	34	33	32	30	28	25					
CXM 200-15	CX 200-15	1.10	1.5	8					21	20.5	20	19	18	17	16	15	13	12	9
CXM 200-20	CX 200-20	1.50	2.0	8					25.5	25	24	23	22	21.5	21	20	18	17	15
CXM 200-25	CX 200-25	1.85	2.5	8					28.5	28	27.5	27	26.5	26	25	24	23	22	21

Water test temperature: 20°C. Performance limits: ISO2548 specifications for standard class C pumps

Note: 230V/50Hz, 110V/60Hz, 127V/60Hz Model are available on request.

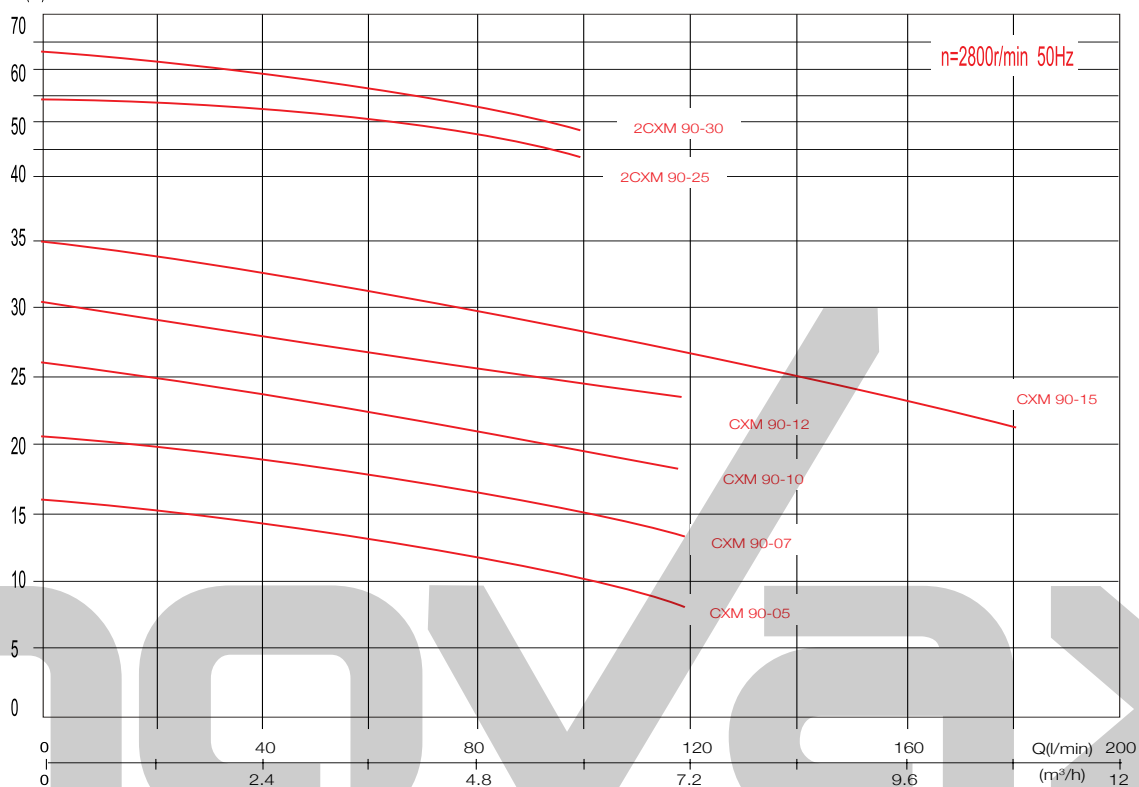
FAMILY CURVE for CX and CXL series





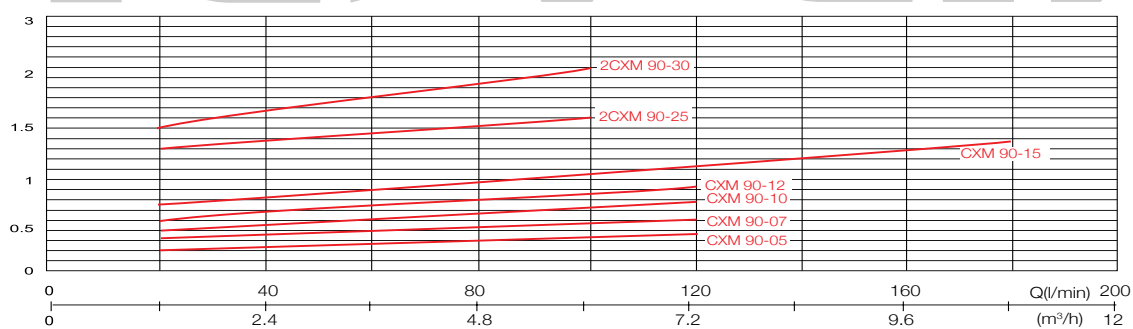
PERFORMANCE CURVE

H(m) Head-flow curve

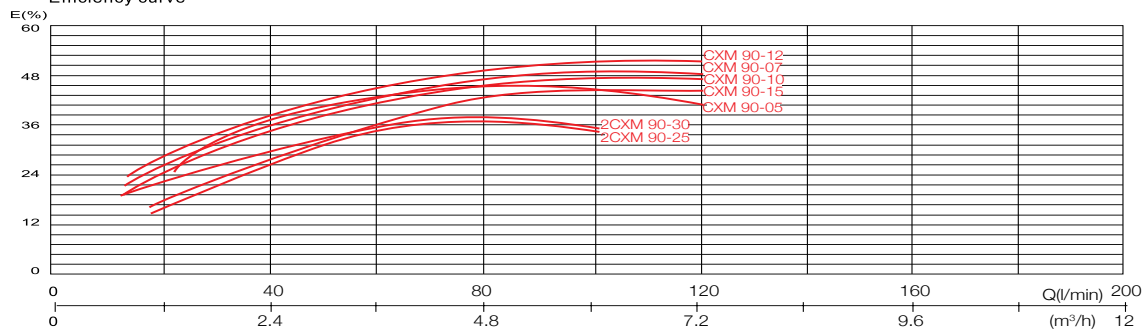


Power curve

KW

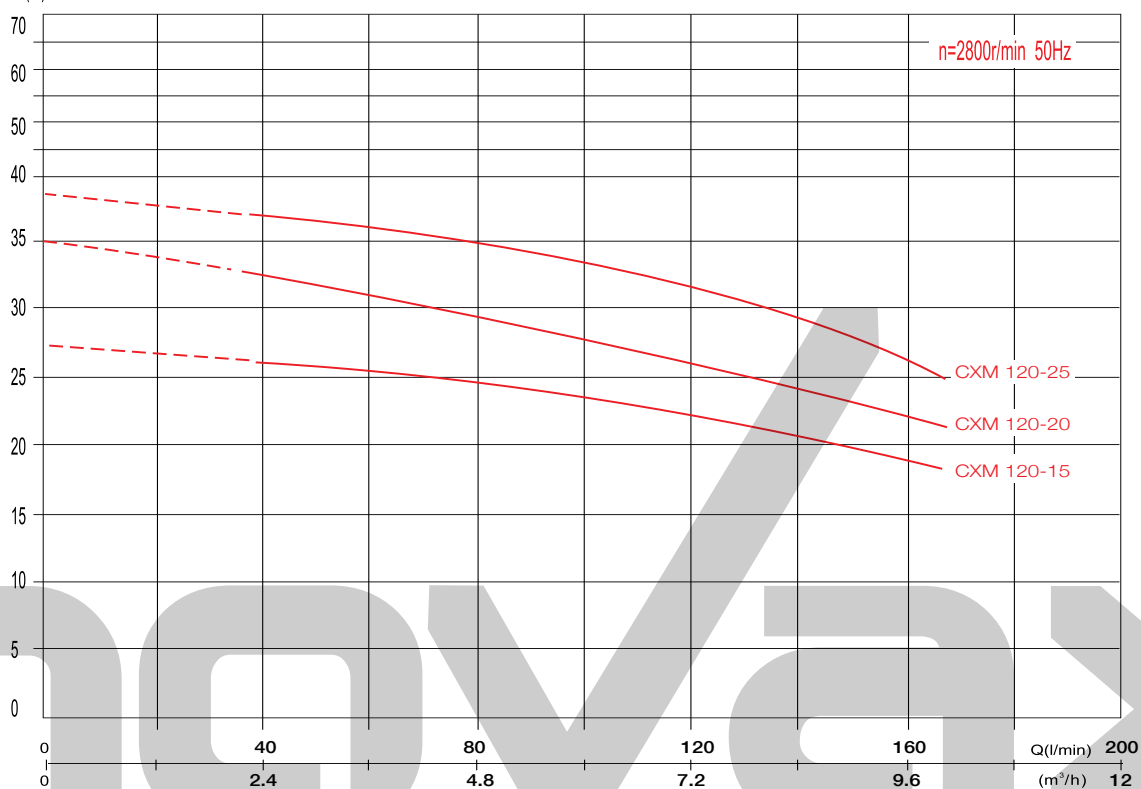


Efficiency curve

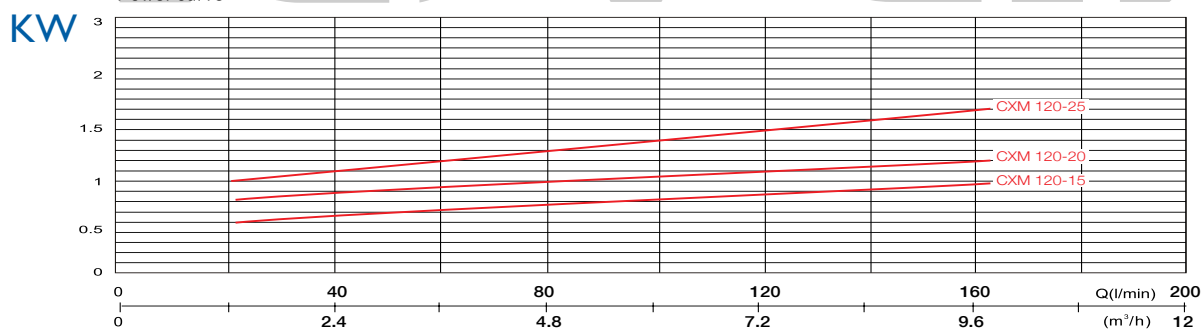


PERFORMANCE CURVE

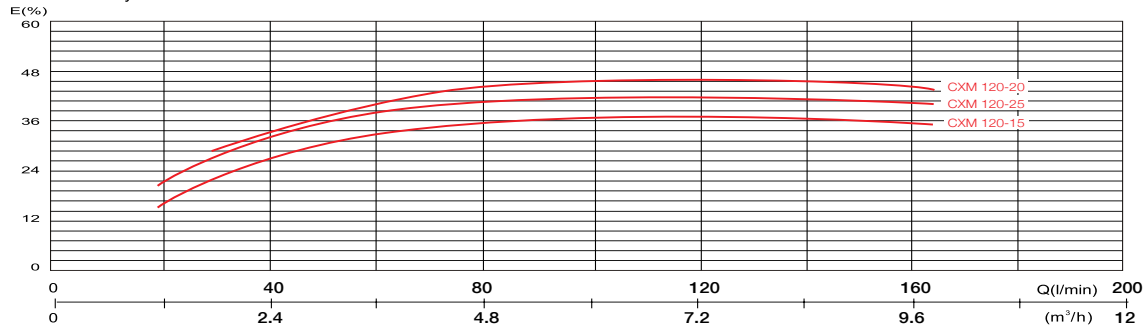
H(m) Head-flow curve



Power curve



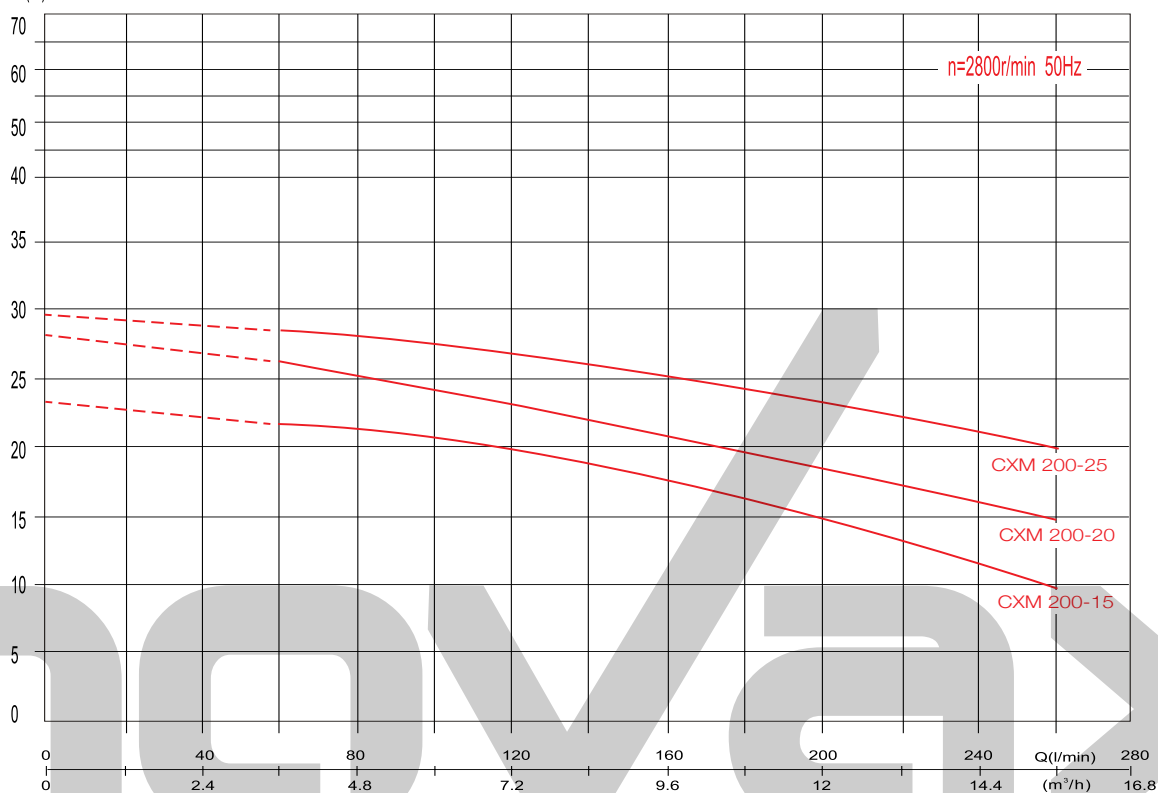
Efficiency curve





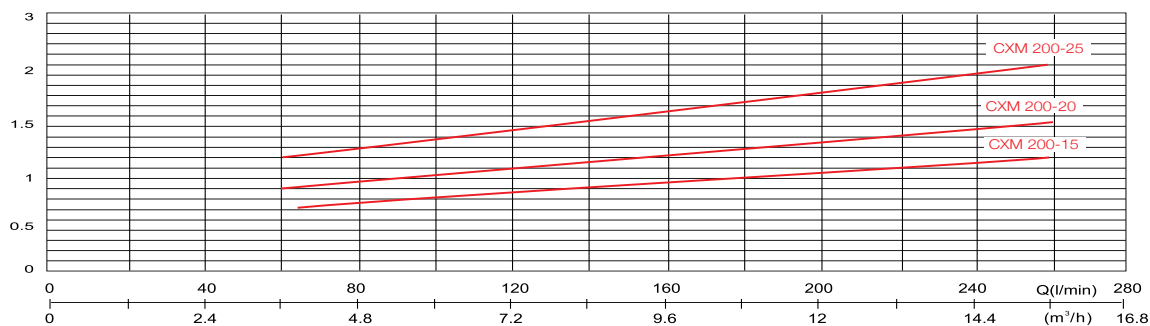
PERFORMANCE CURVE

H(m) Head-flow curve

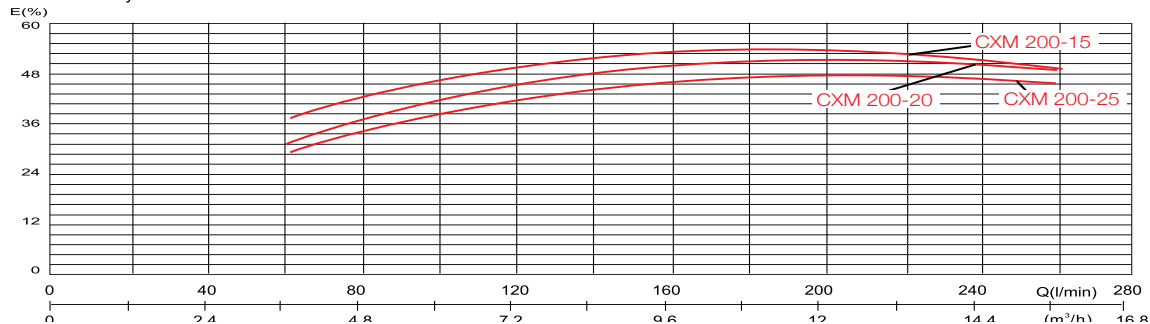


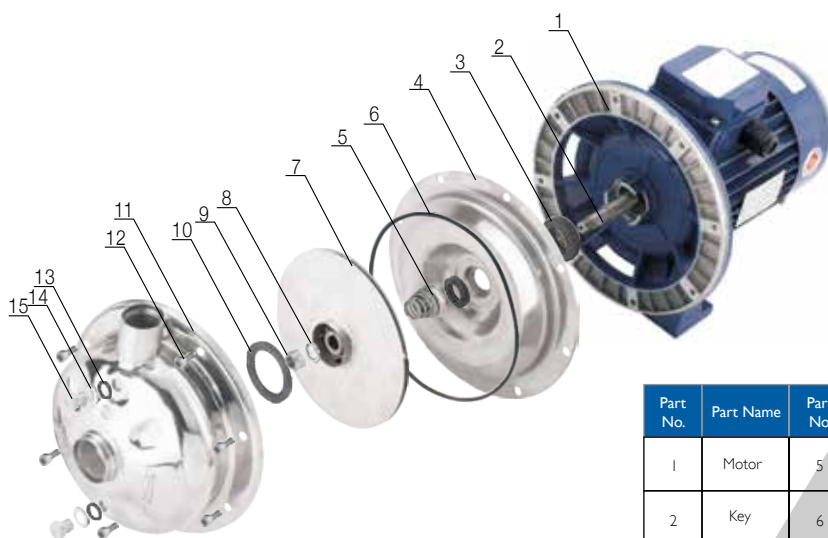
Power curve

KW



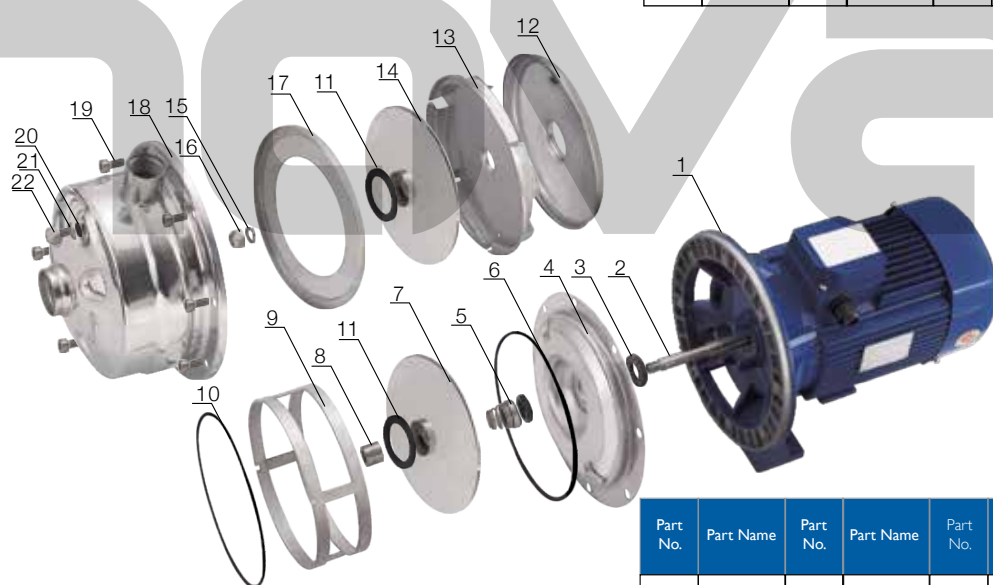
Efficiency curve





Type CX

Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
1	Motor	5	Mechanical seal	9	Impeller nut	13	O ring
2	Key	6	O ring	10	Wear ring	14	"L" Washer
3	"V" Slinger	7	Impeller	11	Casing	15	Priming/Drain bolt
4	Back cover	8	Spring washer	12	Bolt		



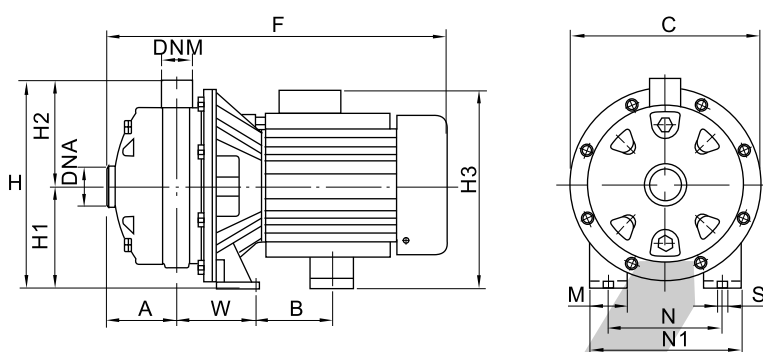
Type 2CX

Part No.	Part Name	Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
1	Motor	7	Impeller	13	Guide plate	19	Bolt
2	Key	8	Shaft sleeve	14	Impeller	20	O ring
3	"V" Slinger	9	Position plate	15	Spring washer	21	"L" Washer
4	Back cover	10	O ring	16	Impeller nut	22	Priming / Drain bolt
5	Mechanical seal	11	Wear ring	17	Guide plate front cover		
6	O ring	12	Guide plate back cover	18	Casing		

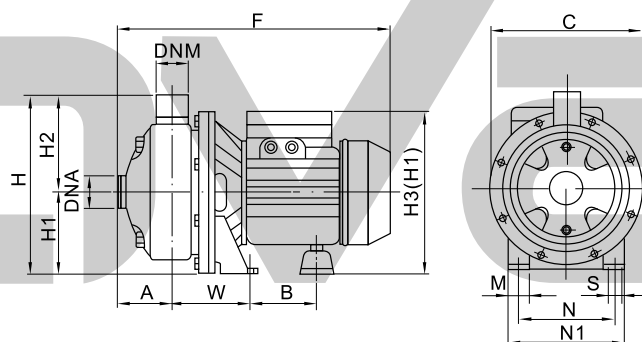


DIMENSION

Type 2CX



Type CX



DIMENSIONS

Model		Dimensions (mm)																Weight (kg)
Single phase 220V/50HZ	Three phase 380V/50HZ	A	C	F	H	H1	H2	*H3	*H4	M	N	NI	S	W	B	DNA	DNM	
2 CXM 90-25	2 CX 90-25	87	235	416	252	120	132	234	234	39	140	190	9	94	82	GI 1/4*	GI *	17.8
2 CXM 90-30	2 CX 90-30	87	235	416	252	120	132	234	234	39	140	190	9	94	82	GI 1/4*	GI *	19.6
CXM 90-05	CX 90-05	52	213	315	232	108	124	241	213	39	119	158	9	92	82	GI 1/4*	GI *	8.1
CXM 90-07	CX 90-07	52	213	315	232	108	124	241	213	39	119	158	9	92	82	GI 1/4*	GI *	8.8
CXM 90-10	CX 90-10	52	213	315	232	108	124	241	213	39	119	158	9	92	82	GI 1/4*	GI *	10
CXM 90-12	CX 90-12	52	213	315	232	108	124	241	213	39	119	158	9	92	82	GI 1/4*	GI *	11
CXM 90-15	CX 90-15	52	235	386	252	120	132	234	234	39	140	190	9	94	82	GI 1/4*	GI *	14.6
CXM 120-15	CX 120-15	52	213	370	232	108	124	224	224	39	140	190	9	92	82	GI 1/4*	GI *	11.6
CXM 120-20	CX 120-20	52	235	386	252	120	132	234	234	39	140	190	9	94	82	GI 1/4*	GI *	15.8
CXM 120-25	CX 120-25	52	235	386	252	120	132	234	234	39	140	190	9	94	82	GI 1/4*	GI *	17
CXM 200-15	CX 200-15	52	213	370	232	108	124	224	224	39	120	158	9	92	82	GI 1/4*	GI *	11.6
CXM 200-20	CX 200-20	52	213	370	232	108	124	224	224	39	120	158	9	92	82	GI 1/4*	GI *	15
CXM 200-25	CX 200-25	52	213	370	232	108	124	224	224	39	120	158	9	92	82	GI 1/4*	GI *	16

LOAD LOSSES TABLE

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

Capacity m ³ /h		Internal diameter in mm																	
		25	32	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350
3	Pc% Vm/s	17 1.70	6 1.03	1.6 0.67	0.54 0.43	0.25 0.22	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 0.88	0.45 0.72	0.22 0.56	0.12 0.43	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	0.14 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			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 3.72	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 3.3	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 1.49	0.6 1.19	0.37 0.98	0.24 0.82	0.12 0.61							
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 0.53							
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							
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							
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							
540	Pc% Vm/s			14 3.80	6.5 3.06	3.7 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 2.36	0.9 1.73	0.45 1.34	0.25 1.06	0.13 0.86	0.055 0.61						
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							
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 0.71	0.075 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	0.11 0.77	0.08 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			9 5.1	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	1.2 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	0.14 1.00	0.065 0.77	0.033 0.54							
1080	Pc% Vm/s			5.4 4.26	2.8 3.12	1.4 2.38	0.78 1.86	0.43 1.53	0.16 1.06	0.073 0.78	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	0.05 0.4							

Discharge diameter

Suction diameter

novax



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