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MD-CX

REGENERATIVE TURBINE ELECTRIC PUMPS

P513

09/2017



MAGNETIC DRIVEN



Fluid Moving Technology

 **Duzone systems Co., Ltd.**

키워드 : 더존펌프

MD-CX

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SAE
Flange



MAGNETIC DRIVEN REGENERATIVE TURBINE ELECTRIC PUMPS

Stainless steel electric surface pumps with magnetic drive peripheral impeller, ideal for increasing or maintaining circulating pressures in closed circuit systems.

Operation with oils, clear and clean liquids without suspended solids or abrasives.

Thanks to the innovative impeller drive system, the motion is transmitted via magnetic joints without using mechanical seals, thus virtually reducing the risk of leakage to zero with a consequent reduction in maintenance costs.

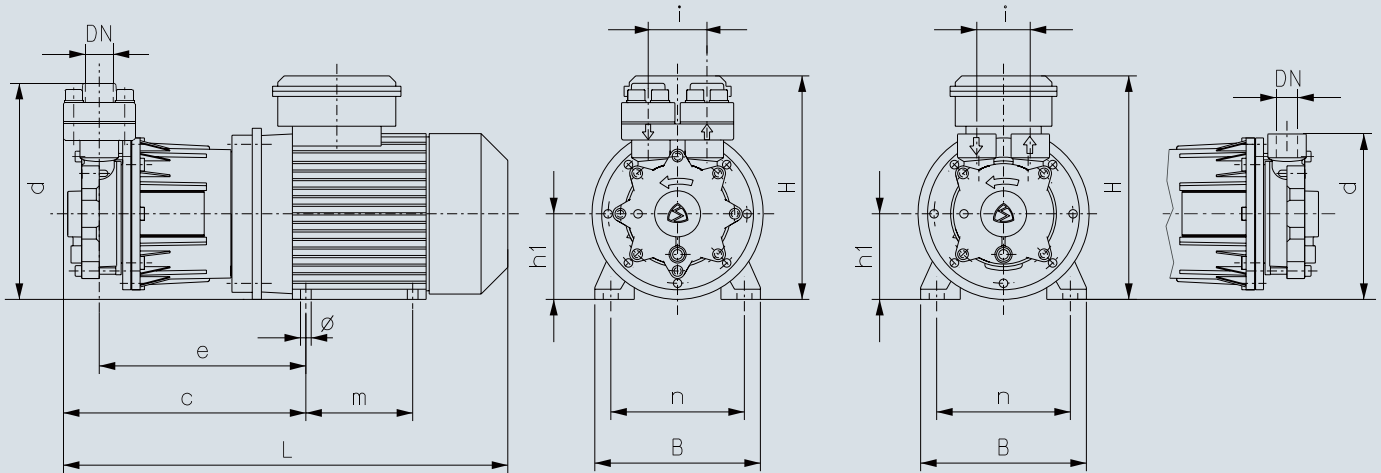
The quality of materials and design choices make it an extremely versatile pump also for heavy-duty application areas and operating conditions.

They are developed for operation with diathermic oil or pressurized water at high temperatures.

They are however equally used in applications with moderately aggressive dilutions and generally where it is required to minimize the risk for man and machinery.

Pumps specially dedicated to industrial sectors/applications.

DIMENSIONS



TYPE	DN	MATERIALS			DIMENSIONS mm														Kg					
		PUMP BODY	BASE	IMPELLER	L*		B	H		d		n	m	i		e	c		h1	Ø	STD	SAE		
					STD	SAE		1PH	3PH	STD	SAE			STD	SAE		STD	SAE						
MD-CX36 DC-24V					See specific brochure P508																			
MD-CX 36	1/4	AISI 316	AISI 316	PEEK	233	/	110	146		100	/	90	60	25	/	120	107	/	56	7	4,1	/		
MD-CX 44	1/2	AISI 316	AISI 316	AISI 316 PEEK	317	322	120	172	161	120	159	100	80	35	35	146	171	176	63	7	8,9	9,4		
MD-CX 54	1/2	AISI 316	AISI 316	AISI 316	370	375	135	178	178	128	159	108	90	35	35	180	204	209	71	7	11,5	11,7		
MD-CX 86	3/4	AISI 316	AISI 316	AISI 316	430		153	227	194	154	202	125	100	50	55	194	231	231	80	9	19,5	20,4		
MD-CX 96	3/4	AISI 316	AISI 316	AISI 316	456 ÷ 492		170	/	228	164	212	140	125	50	55	208	245	245	90	10	28	28,8		
MD-CX 106	3/4	AISI 316	AISI 316	AISI 316	454 ÷ 490		170	/	228	164	212	140	125	50	55	206	243	243	90	10	28	28,8		

* Depending on the motor design

TYPE 3PH	① P2 50 Hz [kW]	① P2 60 Hz [kW]	② 50/60 Hz DUAL	WATER		OIL	
				T max [°C]	T max [°F]	T max [°C]	T max [°F]
MD-CX 36 LT	0,15	0,18	O.D.	120	248	120	248
MD-CX 44 ST	0,55	0,74	O.D.	140	284	180	356
MD-CX 44 WT	0,55	0,74	O.D.	180	356	ON DEMAND	
MD-CX 44 HT	0,55	0,74	O.D.	ON DEMAND		320	608
MD-CX 54 ST	0,8	1,2	O.D.	140	284	180	356
MD-CX 54 WT	0,8	1,2	O.D.	180	356	ON DEMAND	
MD-CX 54 HT	0,8	1,2	O.D.	ON DEMAND		320	608
MD-CX 86 ST	1,6	2	O.D.	140	284	180	356
MD-CX 86 WT	1,6	2	O.D.	180	356	ON DEMAND	
MD-CX 86 HT	1,6	2	O.D.	ON DEMAND		320	608
MD-CX 96 ST	2,1	2,5	R.F.T.	140	284	180	356
MD-CX 96 WT	2,1	2,5	R.F.T.	180	356	ON DEMAND	
MD-CX 96 HT	2,1	2,5	R.F.T.	ON DEMAND		320	608
MD-CX 106 ST	2,5	2,95	R.F.T.	140	284	180	356
MD-CX 106 WT	2,5	2,95	R.F.T.	180	356	ON DEMAND	
MD-CX 106 HT	2,5	2,95	R.F.T.	ON DEMAND		320	608

1ph ~ 230V-50Hz | 3ph ~ 230/400V-50Hz - 265/460V-60Hz

① P2 = Pump absorbed power

② On demand

USES AND APPLICATIONS

- Thermoregulation systems
- Cooling systems
- Glass industry
- Electronic industry
- Chemical industry
- Pharmaceutical industry
- Laser cooling
- Medical applications
- Water treatment
- Paper industry
- Petrochemical industry
- Large frying units
- Semiconductors

CHARACTERISTICS

Continuous duty S1. 2 pole motor. Insulation class F. Protection IP42 (IP 54 on demand).

IE3 efficiency class for 3-phase motors >0,75 kW. Working tolerance: +/-10%.

Liquid temperature (with anti-freeze additive): -20°C / +90°C.

Limit ambient temperature: +40°C.

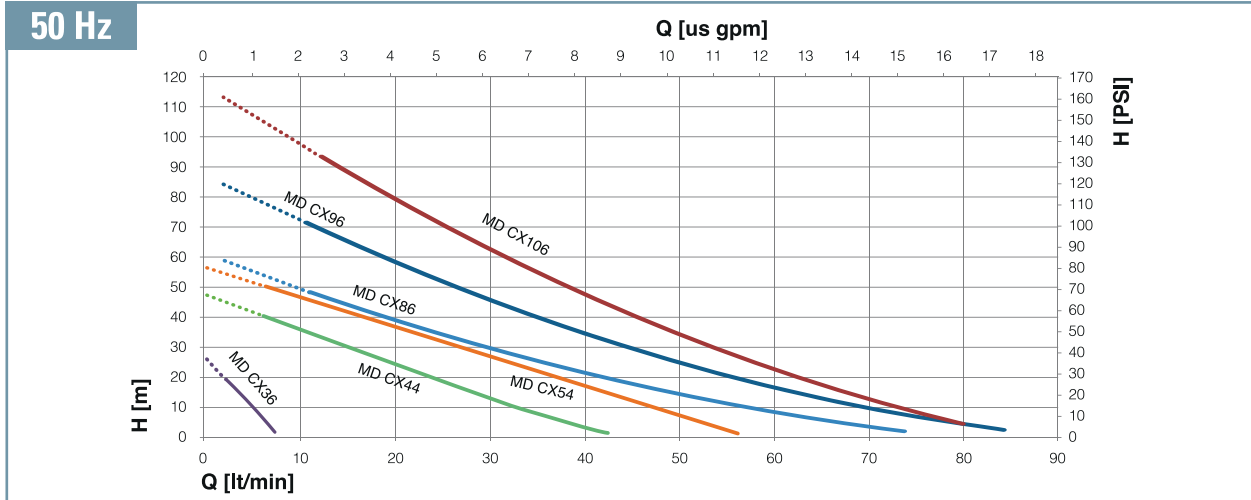
Normal priming, manometer suction up to 5m.

For clear waters/oils and non-aggressive dilutions, without abrasive substances.

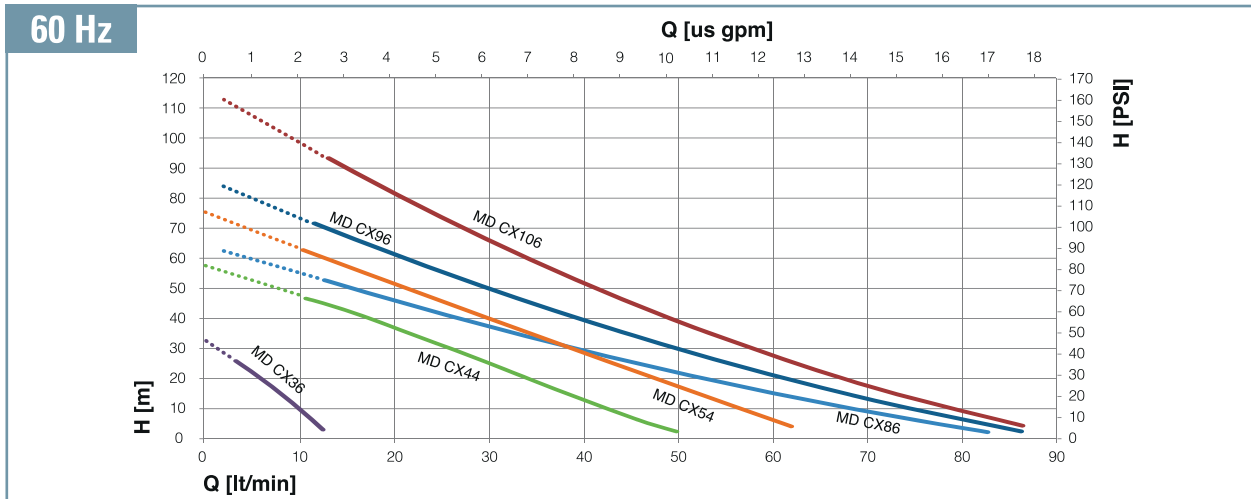
Manufactured in accordance with: EN 60034-1; EN 60034-30; EN 60335-1; EN 60335-2-41.

On demand: Special voltages – 60Hz version – Dual-frequency – UL/CSA.

50 Hz



60 Hz



Tolerance according | ISO 9906-2012

Hydraulic characteristics for water 20°C at nominal pump speed

SIMACO reserves the right to make modifications without prior notice.



Fluid Moving Technology



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