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The advertisement for Hanthing Water pumps features a blue and white color scheme. On the left is the Hanthing logo, a stylized blue 'S' shape above the word 'Hanthing' in blue. To the right of the logo is a collage of images showing various pump models and components. A large yellow diagonal banner across the center reads 'Water pump'. To the right of the banner, four pump types are listed in white text on blue rectangular backgrounds: 'Inline', 'Split case', 'Multi stage', and 'End suction'. At the bottom, the website 'www.hanthing.com' is displayed in white text on a blue background.

Hanthing

Water pump

Inline
Split case
Multi stage
End suction

www.hanthing.com



The advertisement for Exthin Air Compressors features a black and yellow color scheme. On the left is the Exthin logo, which consists of three yellow curved lines above the word 'Exthin' in yellow. To the right of the logo is a collage of images showing various compressor models and components. A large yellow diagonal banner across the center reads 'Air Compressor'. To the right of the banner, three compressor types are listed in white text on black rectangular backgrounds: 'Portable', 'Screw', and 'Piston'. On the far right is a detailed image of a large industrial air compressor unit. At the top, the website 'www.exthin.com' is displayed in white text on a black background.

www.exthin.com

Exthin

Air Compressor

Portable
Screw
Piston

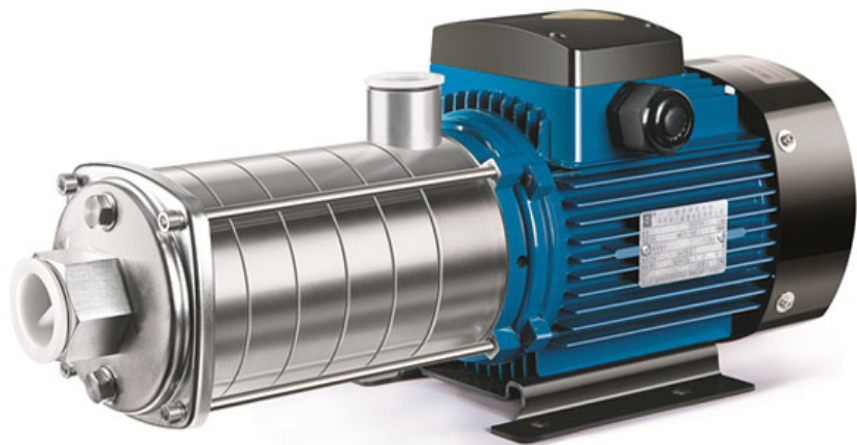
ShangHai HanThing pump Co.,ltd
Website: www.hanthing.com
Address: NO.566, Tongli road, songjiang district, Shanghai, China
Mobile: +86-021-56550238
Email: sales@hanthing.com



国家产品质量免检 | 中国著名品牌

FL2 P 系列 式多级泵

CL/M Series Horizontal Multi-stage Pump



CL

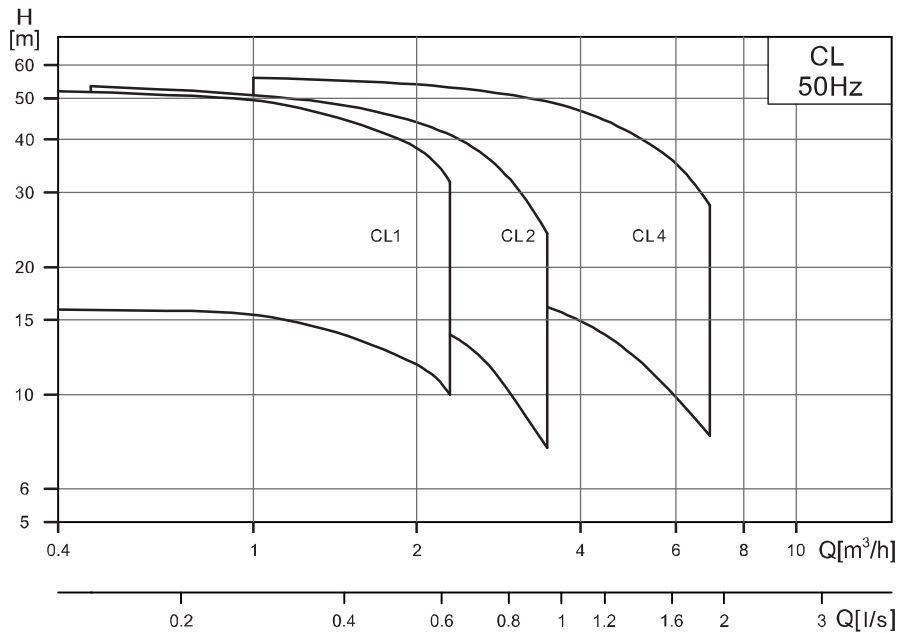
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CM

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Performance range



Performance scope

Description	Model	CL		
Rated flow [m^3/h]		1	2	4
Flow range [l/s]		0.28	0.56	1.1
Flow range [m^3/h]		0.4~2.4	0.5~3.5	1~7
Flow range [l/s]		0.11~0.67	0.14~0.97	0.28~1.9
Max. pressure [bar]		5.2	5.3	5.6
Power [kW]		0.25~0.55	0.37~0.75	0.37~1.1
Temp.[$^{\circ}\text{C}$]		-15~+70		
Max. efficiency [%]		40.5	46	54
Pipeline		G1	G1	Inlet G1 ₁ /Outlet G1

Introduction

CL series chiller pump is non-self-priming light horizontal multistage centrifugal pump with long shaft motor, compact structure, small size, axial inlet and radial outlet. It is mainly designed for insufficient water inflow condition and can effectively solve mechanical seal failures caused by dry grinding. It's energy saving, environmental friendly, with beautiful appearance, light weight, low noise, convenient installation and maintenance, and high reliability.

Motor

TEFC, 2-pole motor

Protection class: IP55

Insulation class: F

Standard power : 50Hz : 1×220V
3×220/380V

Working condition

Thin, clean, non-flammable, non-explosive, solid free, fiber free, physically and chemically water-like liquid.

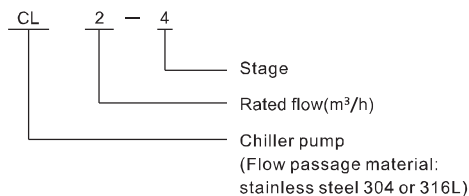
Liquid temperature: -15°C to 70°C

Ambient temperature: up to 40°C

Max. Working pressure: 10 bar

Maximum inlet pressure is limited by maximum working pressure.

Model definition



Application

HVAC system

Cooling system

Industrial cleaning

Water purification

Aquaculture

Fertilization / metering system

Environmental application

Many other specific uses

Curve conditions

Following conditions are suitable for performance curves below.

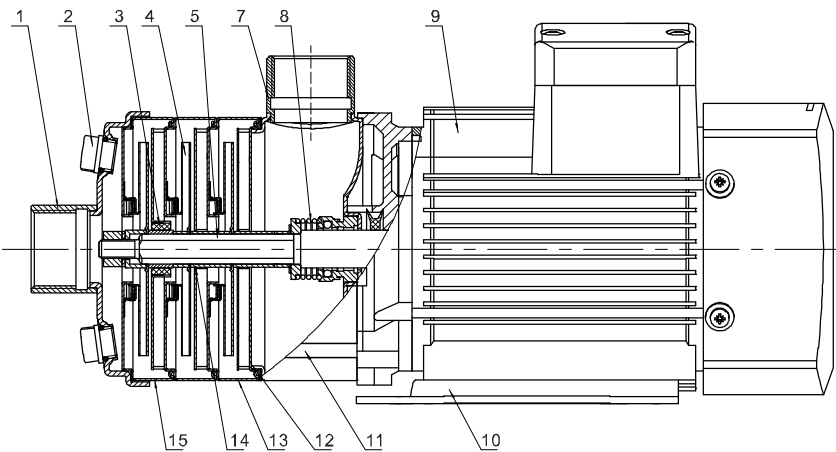
1、 All curves are based on measured values of motor : 0.25kW, constant speed 2850rpm; other power, constant speed 2900rpm.

2、Curve tolerance in conformity with ISO9906:2012,
Grade 3B.

3、 Measurement is done with 20°C air-free water,
kinematic viscosity of 1mm²/s.

4、Pump operation shall refer to the performance range indicated by the thickened curve to prevent overheating by too small flow rate or motor overloading by too large flow rate.

Sectional drawing

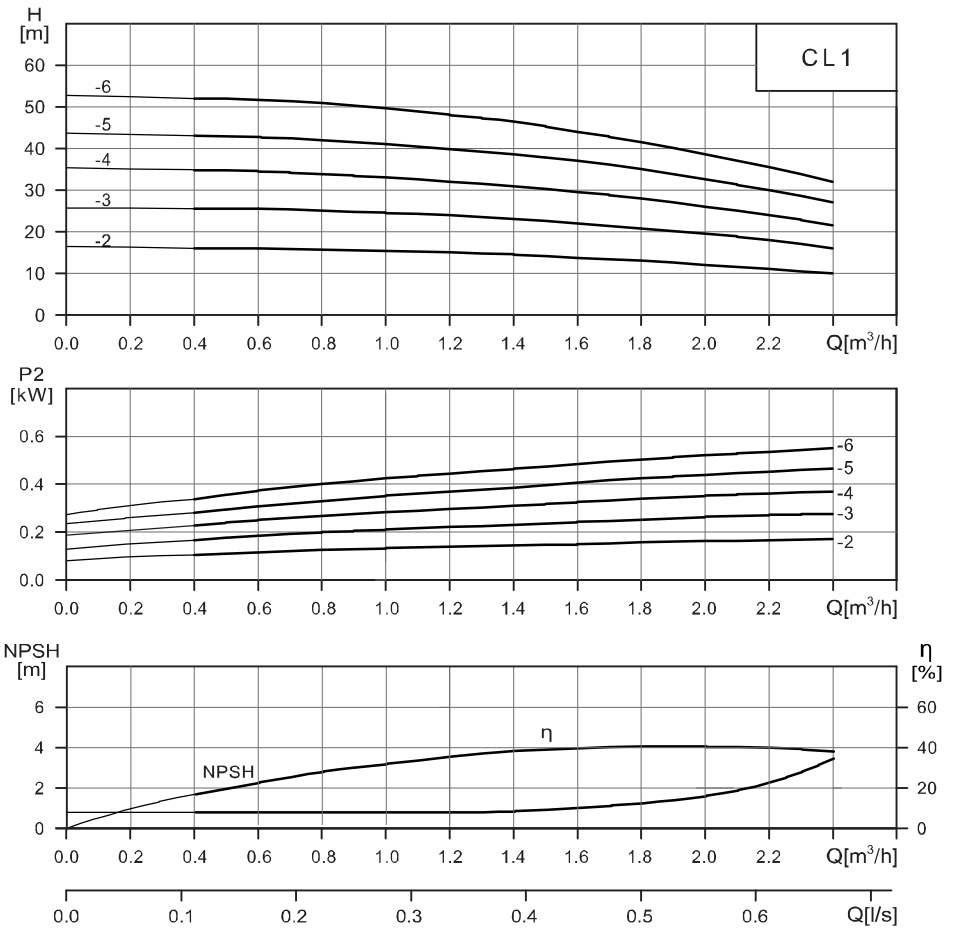


Material

No	Name	Material	AISI/ASTM
1	Inlet chamber	Stainless steel	AISI304
2	Nut	Stainless steel	AISI304
3	Bearing	Silicon carbide	
4	Impeller	Stainless steel	AISI304
5	Shaft	Stainless steel	AISI304
7	Outlet chamber	Stainless steel	AISI304
8	Mechanical seal		
9	Motor		
10	Base plate	Steel plate	AISI1015
11	Stay bolt	45	
12	Last stage diffuser	Stainless steel	AISI304
13	Diffuser	Stainless steel	AISI304
14	Impeller sleeve	Stainless steel	AISI304
15	Supporting diffuser	Stainless steel	AISI304

Note: Other materials can be customized according to clients' needs.

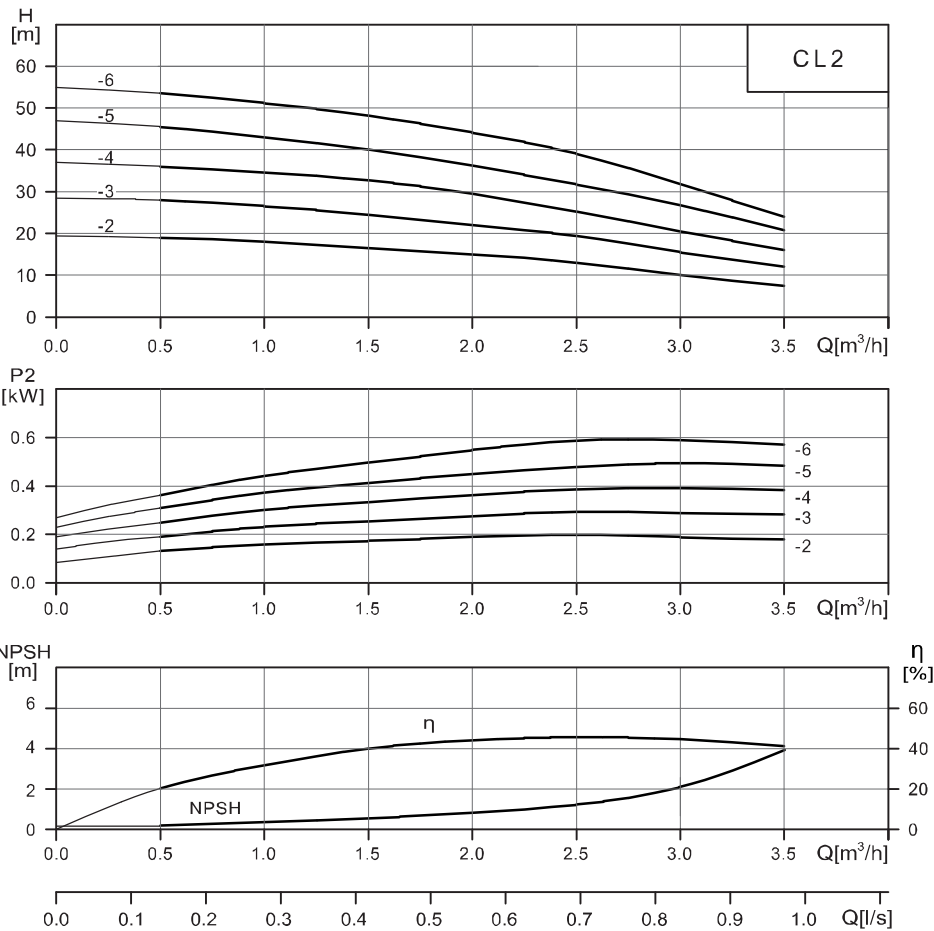
CL1 Performance curves



CL1 Performance table

Model	Motor		Q(m³/h)	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4
	kW	HP												
CL1-2	0.25	0.33	H(m)	16	16	15.5	15.5	15	14.5	13.5	13	12	11	10
CL1-3	0.37	0.5		25.5	25.5	25	24.5	24	23	22	20.5	19.5	18	16
CL1-4	0.37	0.5		34.8	34.5	33.8	33	32	31	29.5	28	26	24	21.5
CL1-5	0.45	0.6		43	42.5	42	41	40	38.5	37	35	32.5	30	27
CL1-6	0.55	0.75		52	51.5	50.5	49.5	48	46.5	44	41.5	38.5	35.5	32

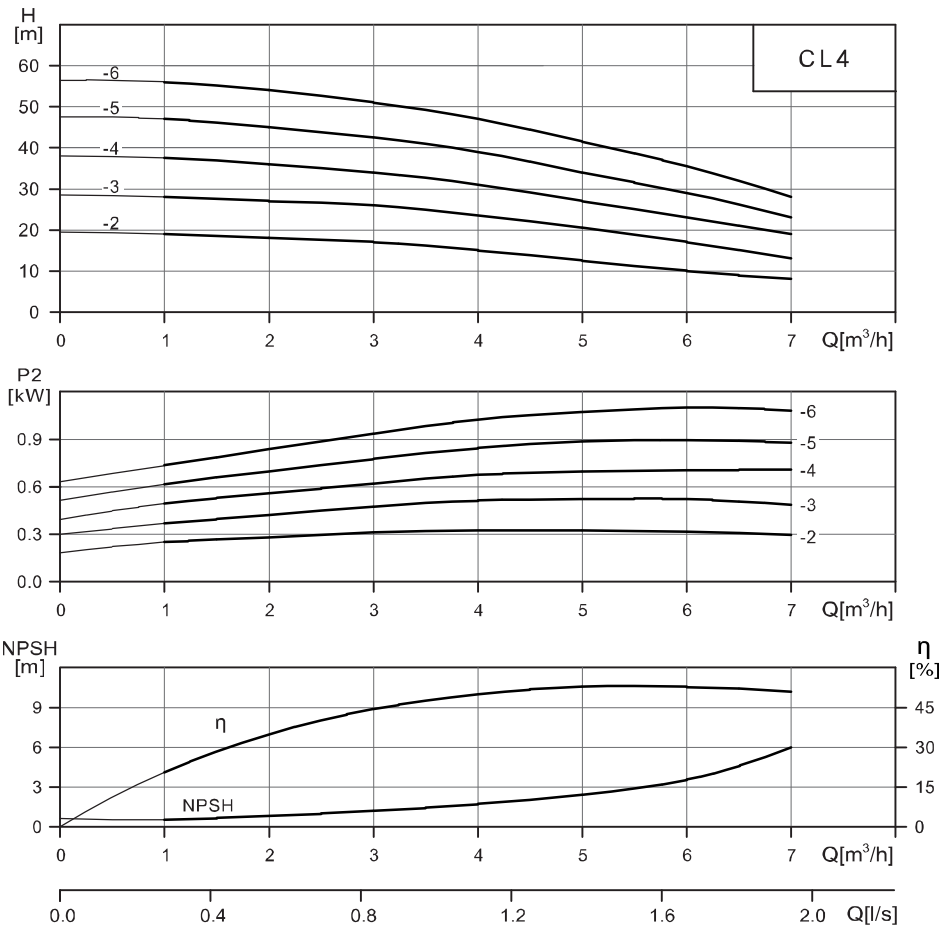
CL2 Performance curves



CL2 Performance table

Model	Motor(kW)		Q(m³/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
	kW	HP								
CL2-2	0.37	0.5	H(m)	19	18	16.5	15	13	10	7.5
CL2-3	0.37	0.5		28	26.5	24.5	22	19	15.5	12
CL2-4	0.55	0.75		36	34.5	33	29	25	20.5	16
CL2-5	0.55	0.75		45.5	43	40	36	31.5	26.5	20.5
CL2-6	0.75	1		53.5	51	48	44	39	32	24

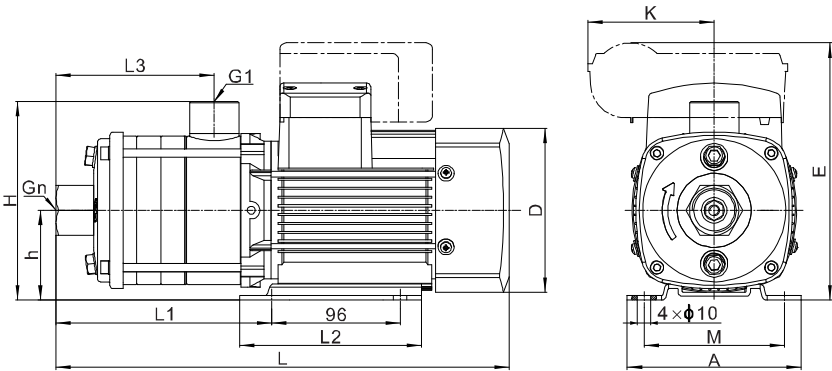
CL4 Performance curves



CL4 Performance table

Model	Motor		Q[m³/h]	1	2	3	4	5	6	7
	kW	HP								
CL4-2	0.37	0.5	H(m)	19	18	17	15	12.5	10	8
CL4-3	0.55	0.75		28	27	26	23.5	20.5	17	13
CL4-4	0.75	1		37.5	36	34	31	27	23	19
CL4-5	1.1	1.5		47	45	42.5	39	34	29	23
CL4-6	1.1	1.5		56	54	51	47	41.5	35.5	28

Installation sketch



CL1 Dimensions and weight

Motor	Model	L	L1	L2	L3	h	H	E	D	M	A	n	K	Weight(kg)
Three-phase/ Single-Phase	CL1-2	327	144	136	101	67	149	162/197	121	105	130	1	/53	7
	CL1-3	346	163	136	120	67	149	162/197	121	105	130	1	/53	7
	CL1-4	364	181	136	138	67	149	162/197	121	105	130	1	/53	8
	CL1-5	383	200	136	157	67	149	162/197	121	105	130	1	/53	9
	CL1-6	405	211	150	175	75	157	180/218	141	125	157	1	/62	10

CL2 Dimensions and weight

Motor	Model	L	L1	L2	L3	h	H	E	D	M	A	n	K	Weight(kg)
Three-phase/ Single-Phase	CL2-2	327	144	136	101	67	149	162/197	121	105	130	1	/53	7
	CL2-3	346	163	136	120	67	149	162/197	121	105	130	1	/53	8
	CL2-4	368	174	150	138	75	157	180/218	141	125	157	1	/62	10
	CL2-5	387	193	150	157	75	157	180/218	141	125	157	1	/62	10
	CL2-6	405	211	150	175	75	157	180/218	141	125	157	1	/62	11

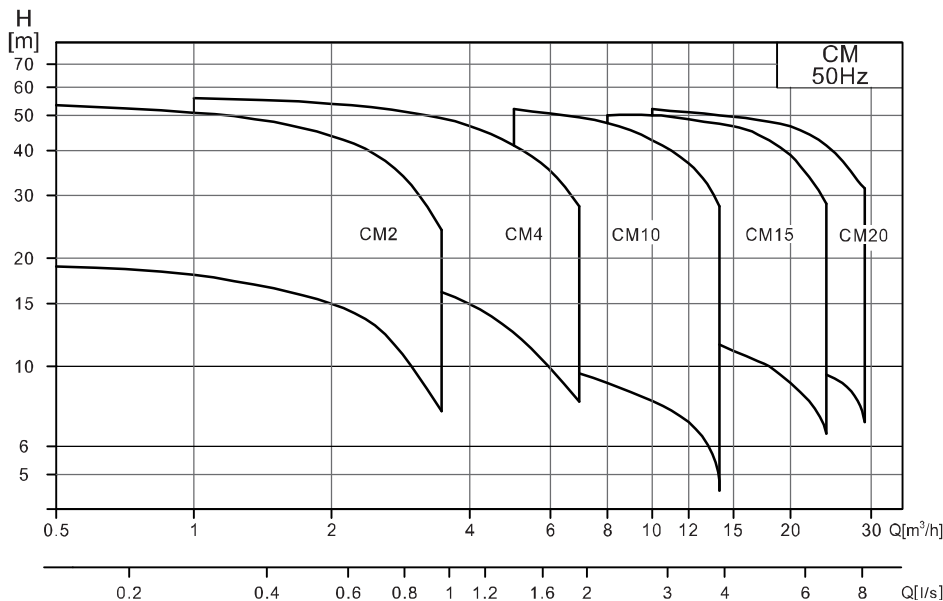
CL4 Dimensions and weight

Motor	Model	L	L1	L2	L3	h	H	E	D	M	A	n	K	Weight(kg)
Three-phase/ Single-Phase	CL4-2	345	162	136	119	67	149	162/197	121	105	130	1 $\frac{1}{4}$	/53	8
	CL4-3	377	183	150	147	75	157	180/218	141	125	158	1 $\frac{1}{4}$	/62	10
	CL4-4	404	210	150	174	75	157	180/218	141	125	158	1 $\frac{1}{4}$	/62	11
	CL4-5	451/473	238	160	202	85	167	195/235	151/161	125	158	1 $\frac{1}{4}$	/92	14
	CL4-6	478/500	265	160	229	85	167	195/235	151/161	125	158	1 $\frac{1}{4}$	/92	14

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Performance range



Performance scope

Description	Model	CM				
Rated flow [m³/h]		2	4	10	15	20
Rated flow [l/s]		0.56	1.1	2.78	4.17	5.56
Flow range [m³/h]		0.5~3.5	1~7	5~14	8~24	10~29
Flow range [l/s]		0.14~0.97	0.28~1.9	1.39~3.89	2.22~6.67	2.78~8.06
Max. pressure [bar]		5.3	5.6	5.6	5.4	5.6
Motor power [kW]		0.37~0.75	0.37~1.1	0.75~2.2	1.1~4	1.1~4
Temp. [°C]		-15~+105				
Max. efficiency [%]		46	54	71	73	74
Pipeline		G1	Inlet G1½ /Outlet G1	G1½	G2	G2

Product introduction

CM series are non-self-priming light horizontal multistage centrifugal pump with long shaft motor, compact structure, smaller size, axial inlet and radial outlet. Most parts adopt stamping technology. It's energy saving, environmental friendly, with beautiful appearance, light weight, low noise, convenient installation and maintenance, and high reliability.

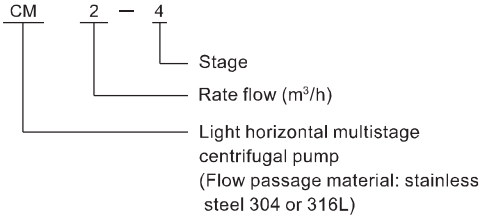
Motor

TEFC , 2-pole motor
Protection class: IP55
Insulation class: F
Standard power: 50Hz:1×220V
3×220/380V

Working condition

Thin, clean, non-flammable, non-explosive, solid free, fiber free, physically and chemically water-like liquid.
Liquid temperature: Normal type: -15°C to 70°C
Hot water type: -15°C to 105°C
Ambient temperature: up to 40°C
Max. Working pressure: 10 bar
Max. inlet pressure is limited by Max. operating pressure

Model definition



Application

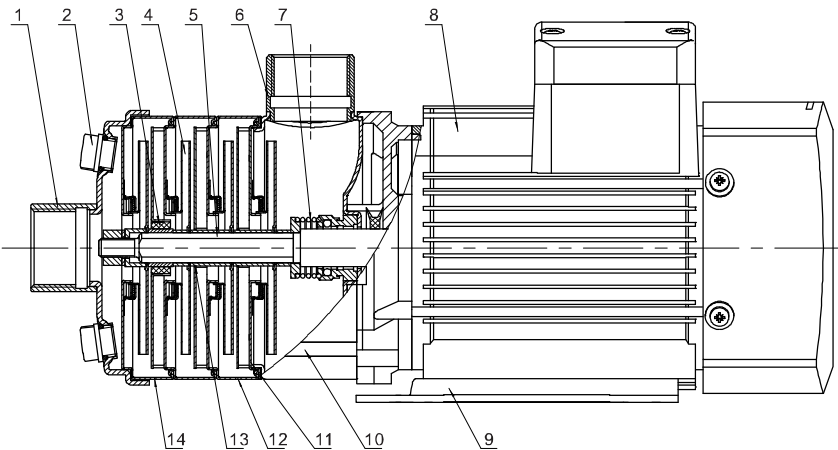
HVAC system
Cooling system
Industrial cleaning
Water purification
Aquaculture
Fertilization / metering system
Environmental application
Many other specific uses

Curve conditions

Following conditions are suitable for performance curve below.

- 1、 All curves are based on measured values under motor speed 2900rpm.
- 2、 Curve tolerance in conformity with ISO9906:2012, Grade 3B.
- 3、 Measurement is done with 20°C air-free water, kinematic viscosity of 1mm²/sec.
- 4、 The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.

CM 2 , 4 Sectional drawing

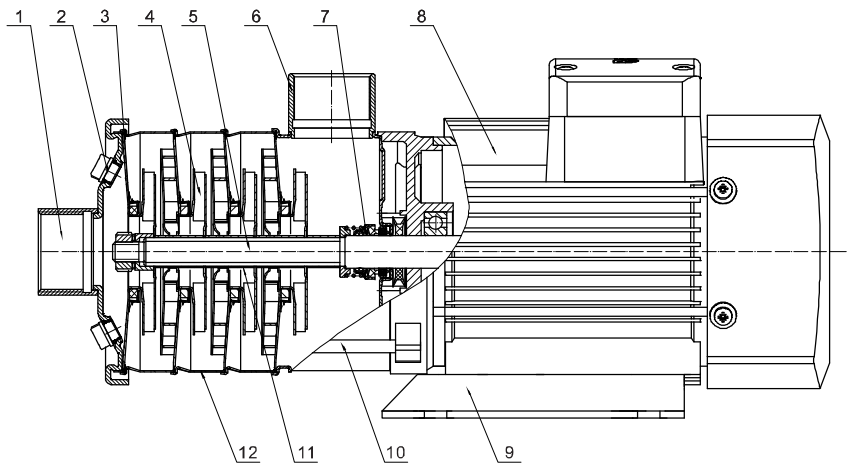


Material list

No.	Name	Material	AISI/ASTM
1	Inlet chamber	Stainless steel	AISI304
2	Nut	Stainless steel	AISI304
3	Bearing	Tungsten carbide	
4	Impeller	Stainless steel	AISI304
5	Shaft	Stainless steel	AISI304
6	Outlet chamber	Stainless steel	AISI304
7	Mechanical seal		
8	Motor		
9	Base plate	Steel plate	AISI1015
10	Stay bolt		
11	Last stage diffuser	Stainless steel	AISI304
12	Diffuser	Stainless steel	AISI304
13	Impeller sleeve	Stainless steel	AISI304
14	Supporting diffuser	Stainless steel	AISI304

Note: Other materials can be customized according to clients' needs.

CM 10 Sectional drawing

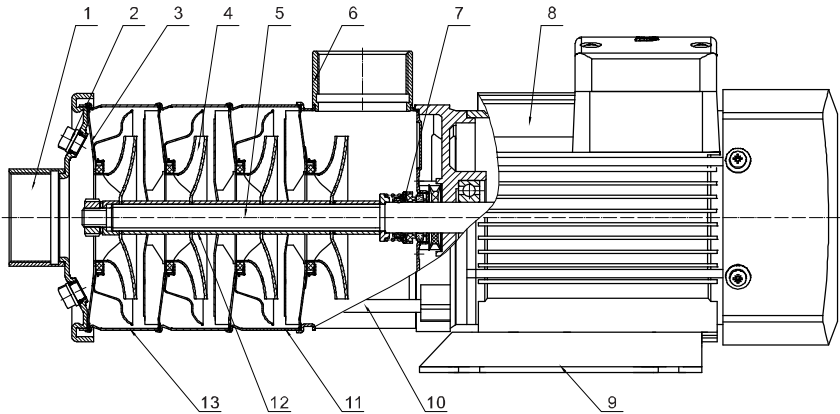


Material list

No.	Name	Material	AISI/ASTM
1	Inlet chamber	Stainless steel	AISI304
2	Nut	Stainless steel	AISI304
3	Inducer	Stainless steel	AISI304
4	Impeller	Stainless steel	AISI304
5	Shaft	Stainless steel	AISI304
6	Outlet chamber	Stainless steel	AISI304
7	Mechanical seal		
8	Motor		
9	Base plate	Steel plate	AISI1015
10	Stay bolt		
11	Impeller sleeve	Stainless steel	AISI304
12	Diffuser	Stainless steel	AISI304

Note: Other materials can be customized according to clients` needs.

CM 15 , 20 Sectional drawing

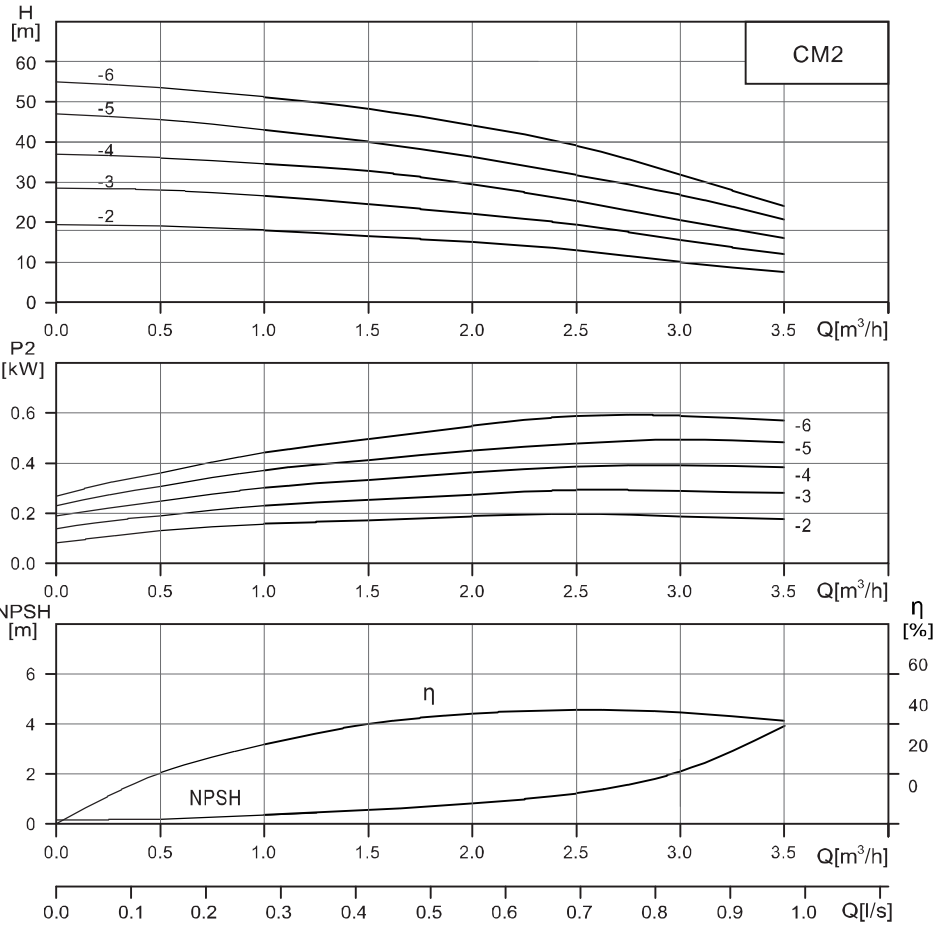


Material list

No.	Name	Material	AISI/ASTM
1	Inlet chamber	Stainless steel	AISI304
2	Nut	Stainless steel	AISI304
3	Inducer	Stainless steel	AISI304
4	Impeller	Stainless steel	AISI304
5	Shaft	Stainless steel	AISI304
6	Outlet chamber	Stainless steel	AISI304
7	Mechanical seal		
8	Motor		
9	Base plate	Steel plate	AISI1015
10	Stay bolt		
11	Last stage diffuser	Stainless steel	AISI304
12	Impeller sleeve	Stainless steel	AISI304
13	Diffuser	Stainless steel	AISI304

Note: Other materials can be customized according to clients' needs.

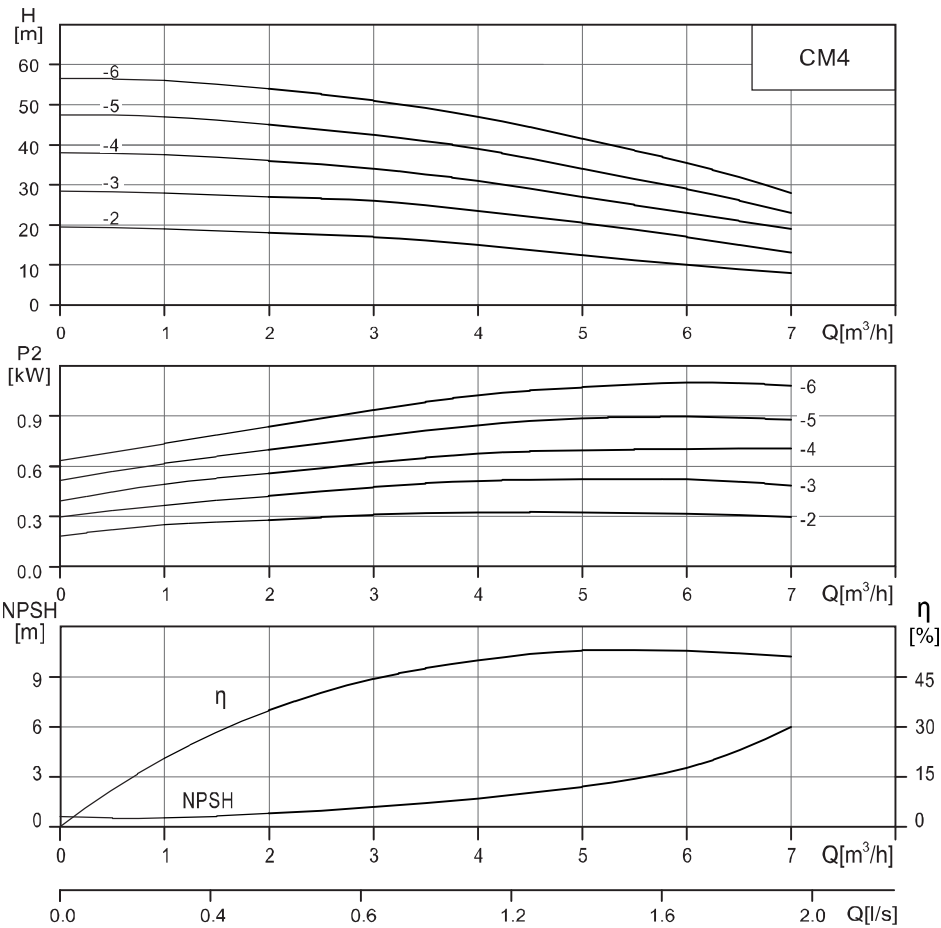
CM 2 Performance curves



CM2 Performance table

Model	Motor(kW)	Q(m³/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
CM2-2	0.37	H(m)	19	18	16.5	15	13	10	7.5
CM2-3	0.37		28	26.5	24.5	22	19	15.5	12
CM2-4	0.55		36	34.5	33	29	25	20.5	16
CM2-5	0.55		45.5	43	40	36	31.5	26.5	20.5
CM2-6	0.75		53.5	51	48	44	39	32	24

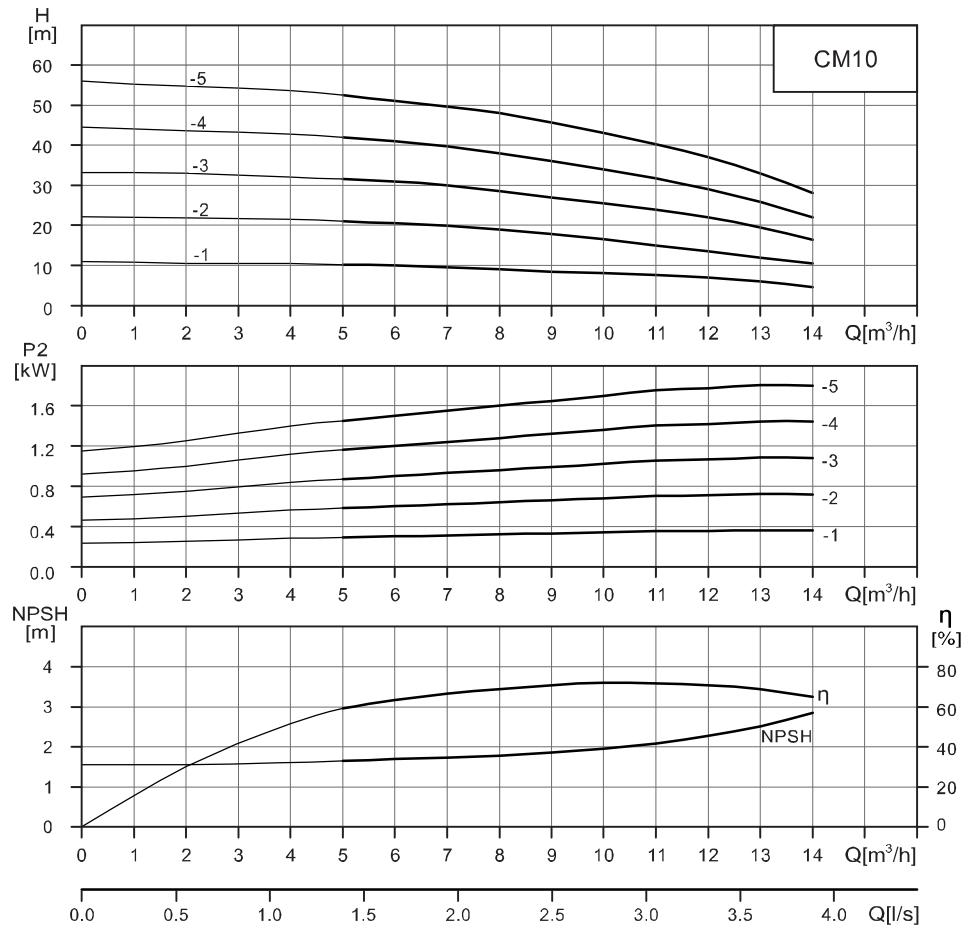
CM 4 Performance curves



CM4 Performance table

Model	Motor(kW)	Q(m³/h)	1	2	3	4	5	6	7
CM4-2	0.37	H(m)	19	18	17	15	12.5	10	8
CM4-3	0.55		28	27	26	23.5	20.5	17	13
CM4-4	0.75		37.5	36	34	31	27	23	19
CM4-5	1.1		47	45	42.5	39	34	29	23
CM4-6	1.1		56	54	51	47	41.5	35.5	28

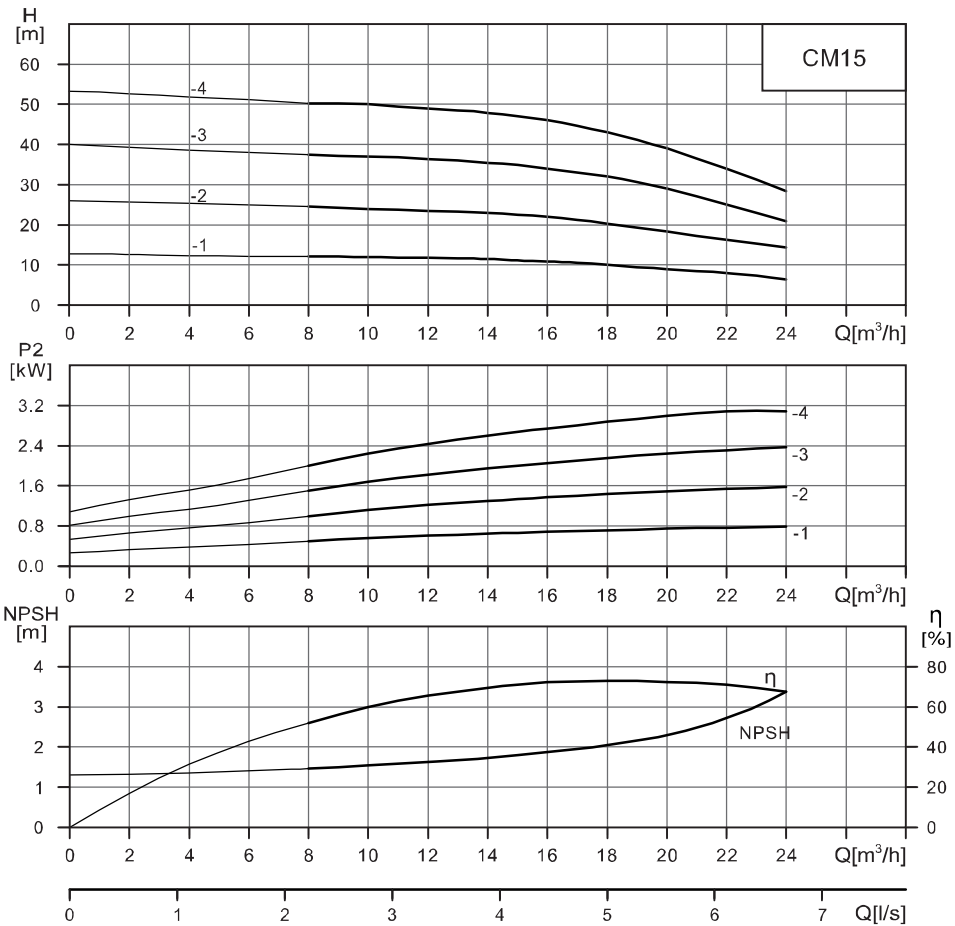
CM 10 Performance curves



CM10 Performance table

Model	Motor(kW)	Q(m³/h)	0	5	6	8	10	12	14
CM10-1	0.75	H(m)	11	10.2	10	9	8	7	4.5
CM10-2	0.75		22.2	21	20.5	19	16.5	13.5	9.5
CM10-3	1.1		33.3	31.5	31	28.5	25.5	22	16.5
CM10-4	1.5		44.5	42	41	38	34	29	22
CM10-5	2.2		56	52.5	51	48	43	37	28

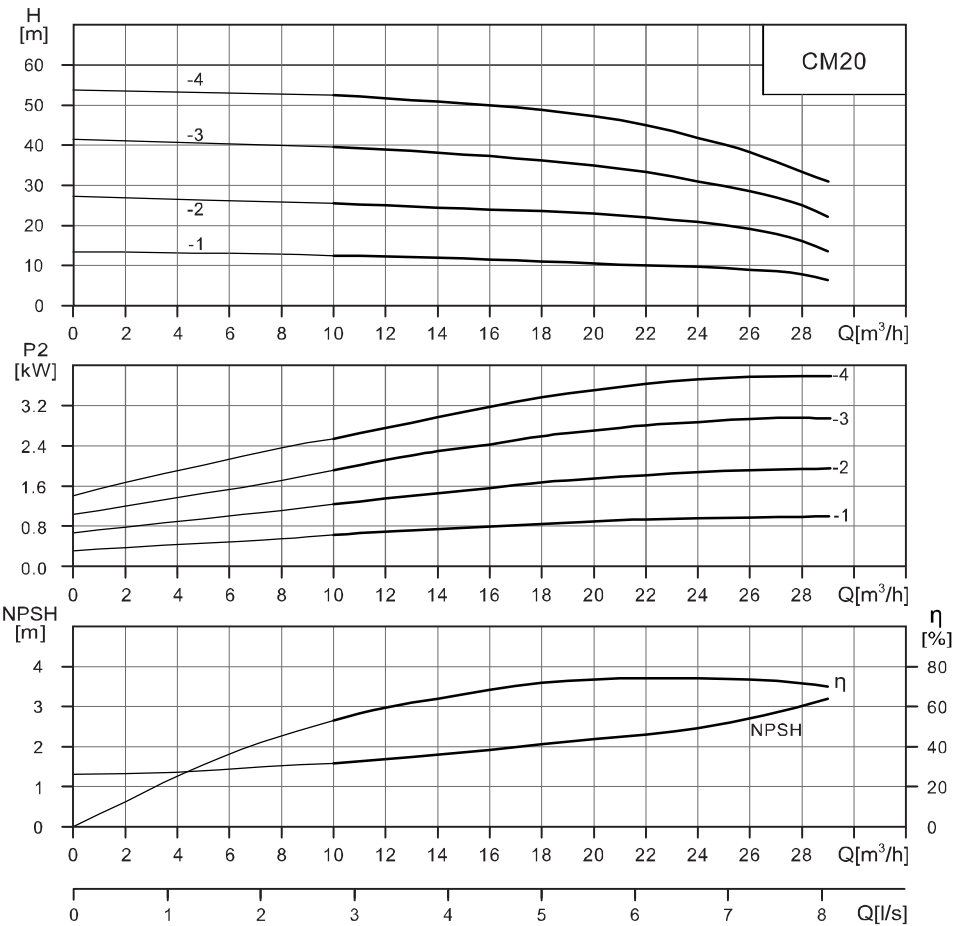
CM 15 Performance curves



CM15 Performance table

Model	Motor(kW)	Q(m³/h)	0	8	10	12	14	15	16	18	20	22	24
CM15-1	1.1	H(m)	12.6	12.2	12	11.8	11.5	11	10.5	10	9	8	6.5
CM15-2	2.2		26	24.5	24	23.5	23	22.5	21.5	20	18	16	13.5
CM15-3	3		40	37.5	37	36.5	35.5	34.5	34	32	29	25	21
CM15-4	4		54	50.5	50	49	47.5	47	46	43	39	34	28.5

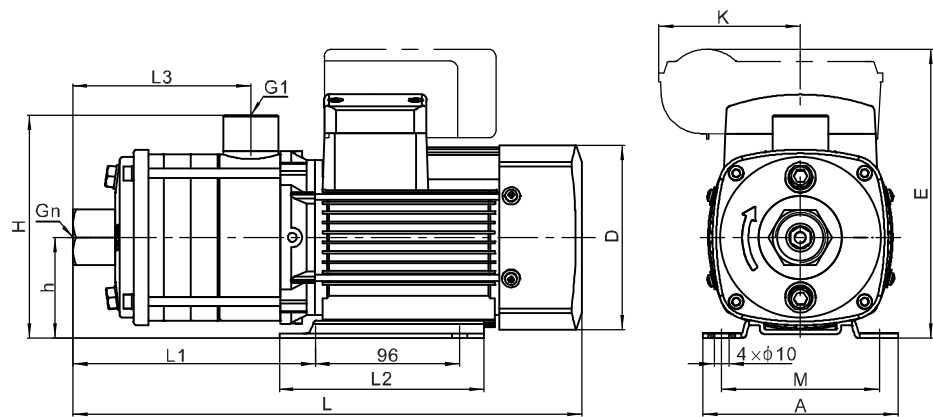
CM 20 Performance curves



CM20 Performance table

Model	Motor(kW)	Q(m³/h)	0	10	12	14	16	18	20	22	24	26	28	29
CM20-1	1.1	H(m)	13.3	12.5	12.3	12	11.5	11	10.5	10	9.5	9	8	7
CM20-2	2.2		27.2	25.5	25	24.5	24	23.7	23	22	20.5	18	16	14.5
CM20-3	3		41.5	39.5	39	38	37	36	35	33	31	28	25	23.5
CM20-4	4		55.5	52.5	51	50	49	48.5	47	45	41.5	37	33	31.5

CM2 , 4 Installation sketch



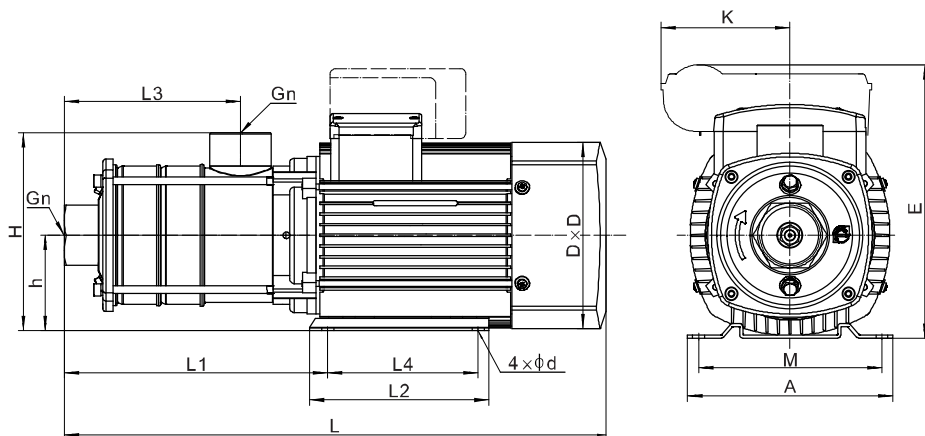
CM2 Dimensions and weight

Motor	Model	L	L1	L2	L3	h	H	E	D	M	A	n	K	Model (kg)
Three-phase/ single-phase	CM2-2	309	126	136	83	67	149	162/197	121	105	130	1	/53	7
	CM2-3	327	144	136	101	67	149	162/197	121	105	130	1	/53	7
	CM2-4	350	156	150	120	75	157	180/218	141	125	157	1	/62	9
	CM2-5	368	174	150	138	75	157	180/218	141	125	157	1	/62	9.5
	CM2-6	386	192	150	156	75	157	180/218	141	125	157	1	/62	10

CM4 Dimensions and weight

Motor	Model	L	L1	L2	L3	h	H	E	D	M	A	n	K	Model (kg)
Three-phase/ single-phase	CM4-2	318	135	136	92	67	149	162/197	121	105	130	1 1/4	/53	7
	CM4-3	349	155	150	119	75	157	180/218	141	125	158	1 1/4	/62	9
	CM4-4	376	182	150	146	75	157	180/218	141	125	158	1 1/4	/62	10
	CM4-5	424/445	210	160	174	85	167	195/235	151/161	125	158	1 1/4	/92	13
	CM4-6	451/472	237	160	201	85	167	195/235	151/161	125	158	1 1/4	/92	13

CM 10 , 15 , 20 Installation sketch



CM 10 Dimensions and weight

Motor	Model	L	L1	L2	L3	L4	h	H	D	E	M	A	n	d	K	Model (kg)
Three-phase/single-phase	CM10-1	362	171	150	116.5	96	85	193	141	190/228	125	157	1½	10	/62	11.5
	CM10-2	362	171	150	116.5	96	85	193	141	190/228	125	157	1½	10	/62	11.5
	CM10-3	410/434	218/239	136/140	146.5	96	100	208	151/161	210/253	125	158	1½	10	/92	14
	CM10-4	464/474	269/265	140/200	176.5	96	100	208	161/175	214/268	125/160	158/200	1½	10	/92	18
	CM10-5	504	287/295	200	206.5	140	100	208	171/175	221/268	160	200	1½	10	/92	21

CM 15 Dimensions and weight

Motor	Model	L	L1	L2	L3	L4	h	H	D	E	M	A	n	d	K	Model (kg)
Three-phase/ single-phase	CM15-1	408/432	216/237	136/140	138	96	100	208	151/161	210/253	125	158	2	10	/92	13.5
	CM15-2	442	225/233	200	138	140	100	208	171/175	221/268	160	200	2	10	/92	19.5
	CM15-3	551/	282/	180/	183	140	100	208	196/	232/	160	200	2	10	/	27
	CM15-4	607/	346/	180/	228	140	112	220	214/	262/	190	230	2	12	/	35.5

CM20 Dimensions and weight

Motor	Model	L	L1	L2	L3	L4	h	H	D	E	M	A	n	d	K	Model (kg)
Three-phase/ single-phase	CM20-1	408/432	216/237	136/140	138	96	100	208	151/161	210/253	125	158	2	10	/92	13.5
	CM20-2	442	225/233	200	138	140	100	208	171/175	221/268	160	200	2	10	/92	19.5
	CM20-3	551/	282/	180/	183	140	100	208	196/	232/	160	200	2	10	/	28.5
	CM20-4	607/	346/	180/	228	140	112	220	214/	262/	190	230	2	12	/	37