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VITA PUMPS

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Applications

- The CMF, CM(H) series are primarily for the industry :
01. Water treatment processes
 02. Industrial cleaner and dishwasher
 03. Water boosting on process
 04. Heating and cooling for industrial process
 05. Air-conditioning system
 06. Air freshening heater device(soft water)
 07. Water supply and boosting(drinking water light chlorine water)
 08. Fertilization/metering system
 09. Many other special using

Applicable medium

01. Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers;
02. Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums.
03. When the density or viscosity of to -be conveyed liquid is larger than that of water, it is necessary to select a driving motor of high power.
04. Whether a specific liquid is suitable for the pump depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.

Operation condition

01. Liquid temperature: ambient temperature 15°C – +70°C, hot water less than 105°C;
02. Max. environmental temperature: + 50°C
03. Max. operating pressure: 10 bar
04. Max. suction pressure is limited by max. operating pressure

Electric Motor

01. 2-pole induction motor;
02. Single-phase 220–240V/50Hz, 110V/60Hz, 220V/60Hz
03. Three-phase: 380–415V/50Hz, 380–415V/60Hz
04. Insulation class: B or F
05. Protection: IPX5
03. Continuous duty
04. Single-phase with input thermal protector

Pump

01. Horizontal multistage non self priming centrifugal pump, attached with long shaft electric motor.
02. Compact structure renders small size of pump; axial inlet and radial outlet.

Connection port	CMF2,CM2 CMH 2	CMF4,CM 4 CMH4	CMF8,CM8	CMH 8	CMF12,CM12 CMH12	CMF16,CM16	CMF20,CM20
Inlet	G1	G1 ¹ / ₄	G1 ¹ / ₂	G1 ¹ / ₂	G1 ¹ / ₂	G2	G2
Outlet	G1	G1	G1 ¹ / ₂	G1 ¹ / ₄	G1 ¹ / ₂	G2	G2

Connotation of the type

CMF 2 – 50 (T) – A – W – G – B A B E

Light horizontal multi-stage centrifugal pump
Nominal flow m³/h
Number of steps x 10
Single Phase without mark Three Phase : T
Pump model
The connection model of pipeline
Material model
Mechanical seal model

CM (H) 2 – 50 (T) – A – W – G – B A B E

Light horizontal multistage-section type centrifugal pump
"H" for inlet and outlet section is cast iron
NO "H" for inlet and outlet section is AISI304
Nominal flow m³/h
Number of steps x 10
Single Phase without mark Three Phase : T
Pump model
The connection model of pipeline
Material model
Mechanical seal model

Code number explanation

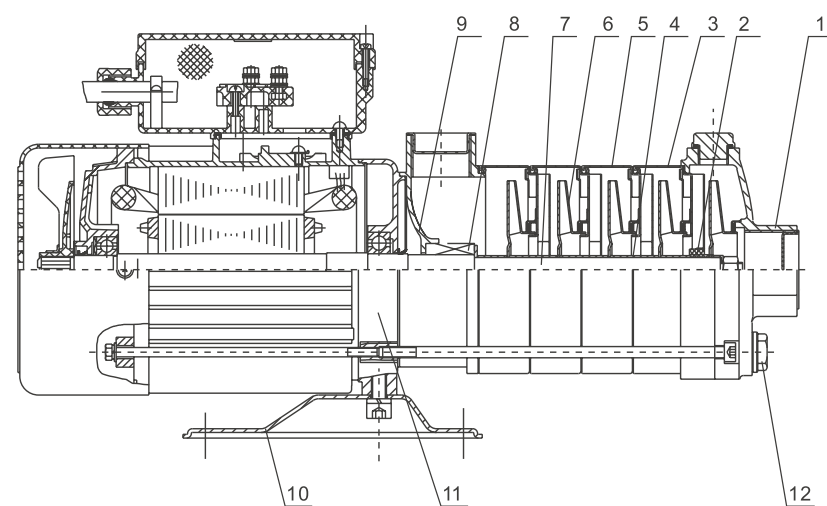
Pump model
"A" normal
Pipeline connection
"W" inside thread
"B" NPT thread
"N" special connection thread
Material
"G" AISI304 stainless steel
"S" AISI316 stainless steel
"X" special material
Shaft seal
"B" the rubber placeshaft seal
"U" tungsten carbide
"Q" silicon carbide
"A" ceramic
"B" carbon
"E" EPDM
"V" fluorine rubber

Material CM,CMH

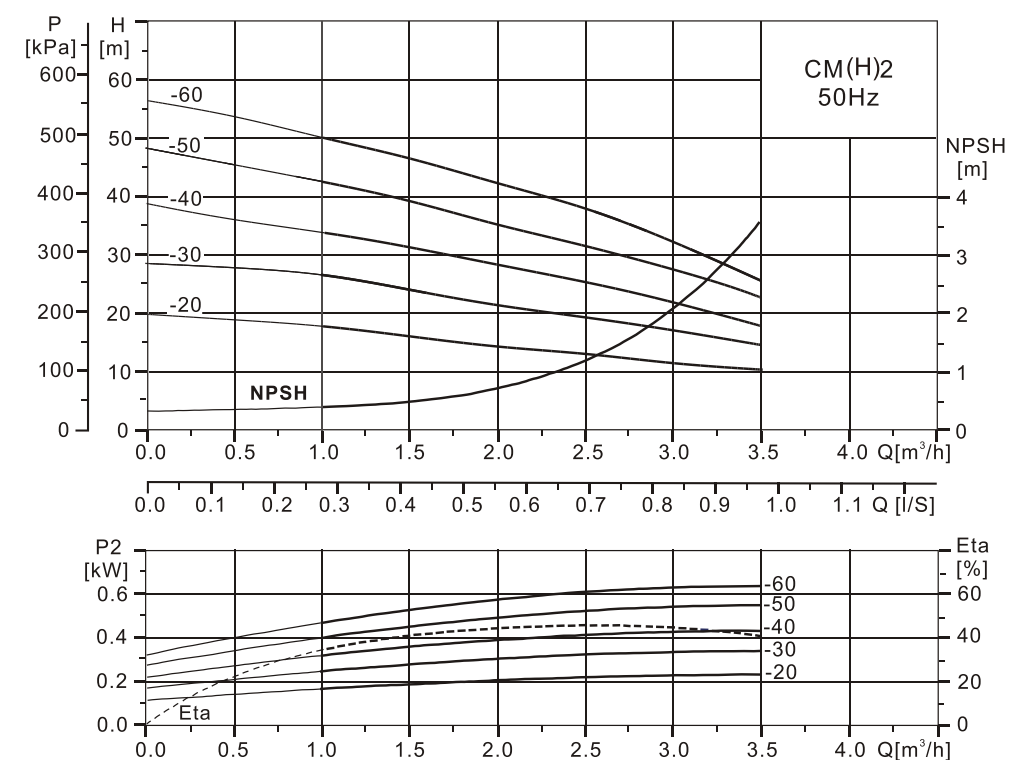
No.	Name	material	AISI/ASTM
2	Bearing sleeve	Hard alloy	
3	Support guide vane	Stainless steel	AISI304 or AISI316
4	Separating sleeve	Stainless steel	AISI304 or AISI316
5	Middle section section	Stainless steel	AISI304 or AISI316
6	Impeller	Stainless steel	AISI304 or AISI316
7	Shaft	Stainless steel	AISI304 or AISI316
8	Mechanical seal	BABE, BABV, BQQE, BQQV	
10	Base frame	Cast iron	
11	Front cover	Aluminum alloy	
12	Plug	Stainless steel	AISI304 or AISI316

CM			
1	Inlet section	Stainless steel	AISI304 or AISI316
9	Outlet section	Stainless steel	AISI304 or AISI316

CMH			
1	Inlet section	cast iron	
9	Outlet section	cast iron	



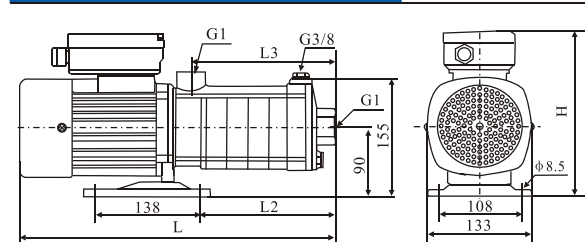
Performance curve



Performance table

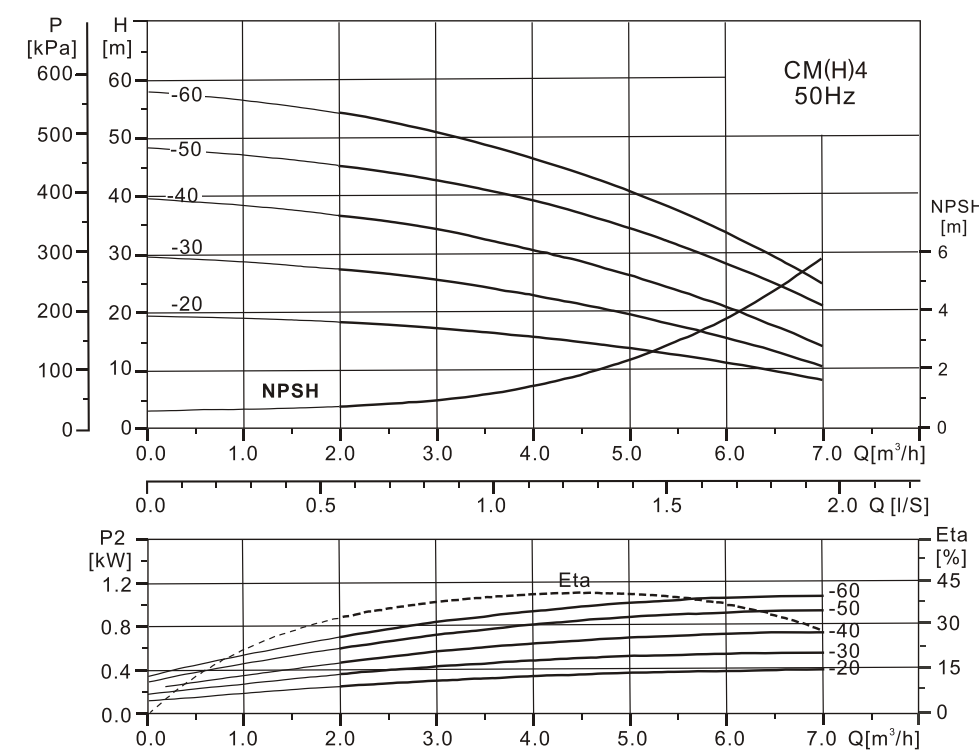
Model		Driving motor P ₂ (KW)	Q (m³/h)	1.0	1.5	2.0	2.5	3.0	3.5
Single Phase	Three Phase			H (m)					
CM(H)2-20	CM(H)2-20T	0.37	H (m)	18	16	14	13	11	10
CM(H)2-30	CM(H)2-30T	0.37		27	24	21	20	17	14
CM(H)2-40	CM(H)2-40T	0.55		35	32	28	26	23	17
CM(H)2-50	CM(H)2-50T	0.55		43	40	35	33	28	22
CM(H)2-60	CM(H)2-60T	0.75		50	48	42	38	32	25

Installation sketch



Model	Size(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
CM(H)2-20(T)	326	90	100	210	326	90	100	190	8.5
CM(H)2-30(T)	344	108	118	210	344	108	118	190	9
CM(H)2-40(T)	362	126	136	210	362	126	136	190	9.5
CM(H)2-50(T)	380	144	154	210	380	144	154	190	10
CM(H)2-60(T)	398	162	172	210	398	162	172	190	10.5

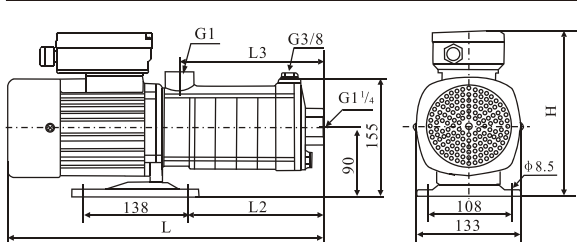
Performance curve



Performance table

Model		Driving motor P ₂ (KW)	Q (m³/h)	2.0	3.0	4.0	5.0	6.0	7.0
Single Phase	Three Phase			H (m)					
CM(H)4-20	CM(H)4-20T	0.55	H (m)	18	16	15	13	10	7
CM(H)4-30	CM(H)4-30T	0.75		27	25	22	19	15	10
CM(H)4-40	CM(H)4-40T	0.75		36	33	30	26	20	14
CM(H)4-50	CM(H)4-50T	1.0		44	41	38	32	26	20
CM(H)4-60	CM(H)4-60T	1.1		53	50	45	40	33	24

Installation sketch



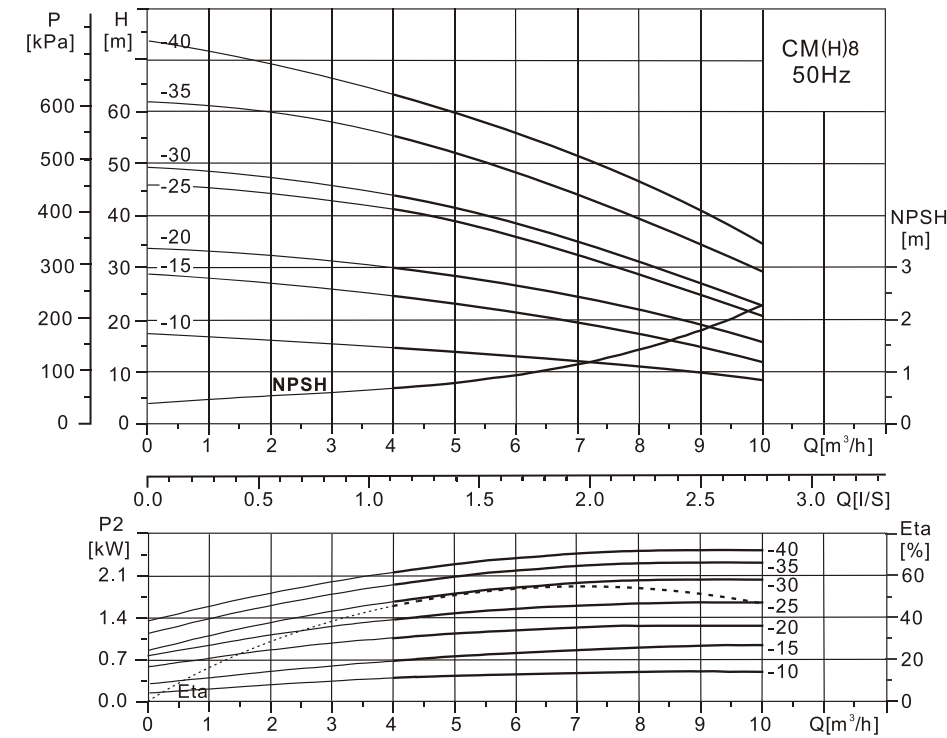
Model	Size(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
CM(H)4-20(T)	335	99	109	210	335	99	109	190	9
CM(H)4-30(T)	362	126	136	210	362	126	136	190	10
CM(H)4-40(T)	389	153	163	210	389	153	163	190	10.5
CM(H)4-50(T)	416	180	190	210	416	180	190	190	11
CM(H)4-60(T)	443	207	217	210	443	207	217	190	12



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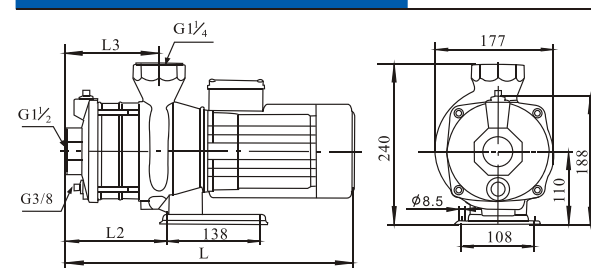
Performance curve



Performance table

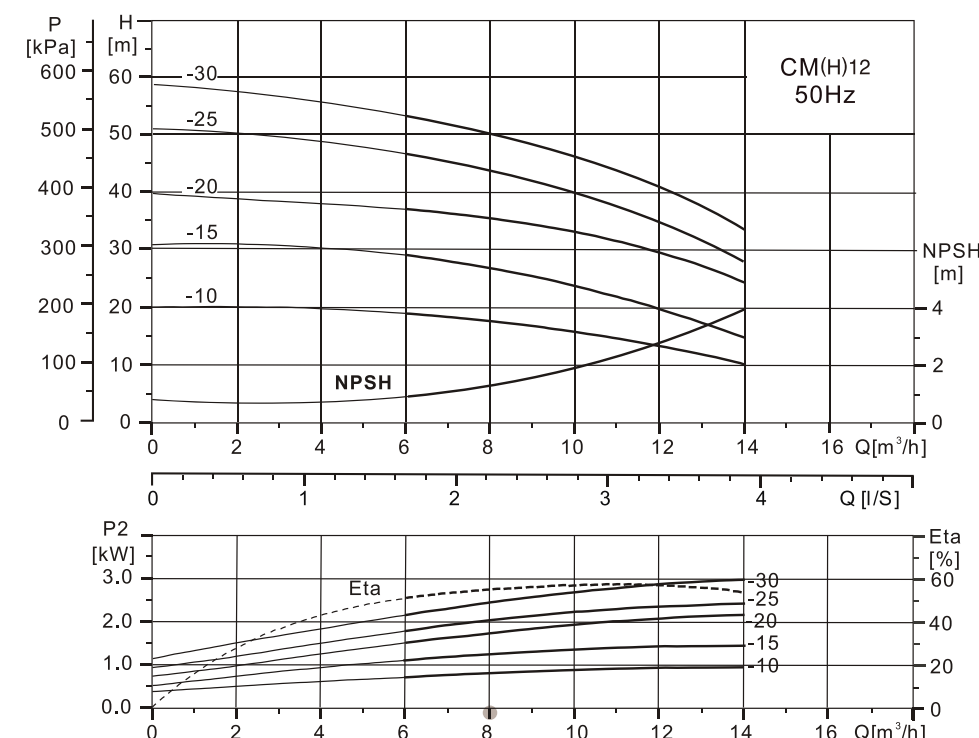
Model		Driving motor P ₂ (KW)	Q (m³/h)	H (m)						
Single Phase	Three Phase			4.0	5.0	6.0	7.0	8.0	9.0	10
CM(H)8-10	CM(H)8-10T	0.55	H (m)	15	14	13	12	10	9	8
CM(H)8-15	CM(H)8-15T	0.75		25	23	22	20	17	14	12
CM(H)8-20	CM(H)8-20T	1.0		30	28	26	24	20	18	16
CM(H)8-25	CM(H)8-25T	1.5		43	37	34	30	27	24	20
CM(H)8-30	CM(H)8-30T	1.85		44	42	38	36	30	27	24
CM(H)8-35	CM(H)8-35T	2.2		56	51	48	44	37	32	28
CM(H)8-40	CM(H)8-40T	2.2		65	57.5	57	50	45	40	34

Installation sketch



Model	Size(mm)						Weight (kg)
	Single Phase			Three Phase			
L1	L2	L3	L1	L2	L3		
CMH8-10(T)	325	69	78	325	69	78	13
CMH8-15(T)	355	99	108	355	99	108	15
CMH8-20(T)	355	99	108	355	99	108	18
CMH8-25(T)	420	129	138	420	129	138	20
CMH8-30(T)	420	129	138	420	129	138	25
CMH8-35(T)	510	159	168	450	159	168	30
CMH8-40(T)	510	159	168	450	159	168	31

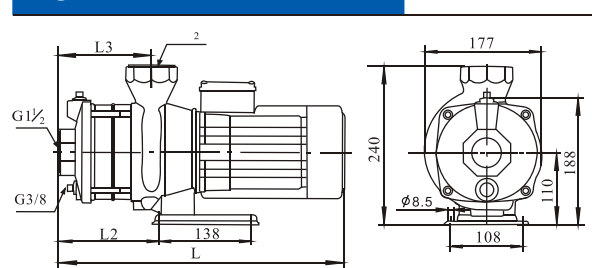
Performance curve



Performance table

Model		Driving motor P ₂ (KW)	Q (m³/h)	6.0	7.0	8.0	9.0	10	11	12	13	14
Single Phase	Three Phase											
CM(H)12-10	CM(H)12-10T	1.0	H (m)	19	18	17.5	16	15.5	14	13.5	12	10.5
CM(H)12-15	CM(H)12-15T	1.5		28	27	26	25	24	22	20	18	15
CM(H)12-20	CM(H)12-20T	1.85		38	36	35	32	31	29	28	24	20
CM(H)12-25	CM(H)12-25T	2.2		47	45	43	41.5	39	36	33.5	30.5	27
	CM(H)12-30T	3.0		53.5	52	50	47.5	45	42	39	35	30

Installation sketch



Model	Size(mm)						Weight (kg)
	Single Phase			Three Phase			
	L1	L2	L3	L1	L2	L3	
CMH12-10(T)	325	69	78	325	69	78	15
CMH12-15(T)	390	99	108	390	99	108	18
CMH12-20(T)	450	99	108	390	99	108	20
CMH12-25(T)	480	129	138	420	129	138	24
CMH12-30(T)	—	—	—	510	129	138	27



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CM,CMH
50Hz Horizontal multistage centrifugal pump



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subject to amendments

