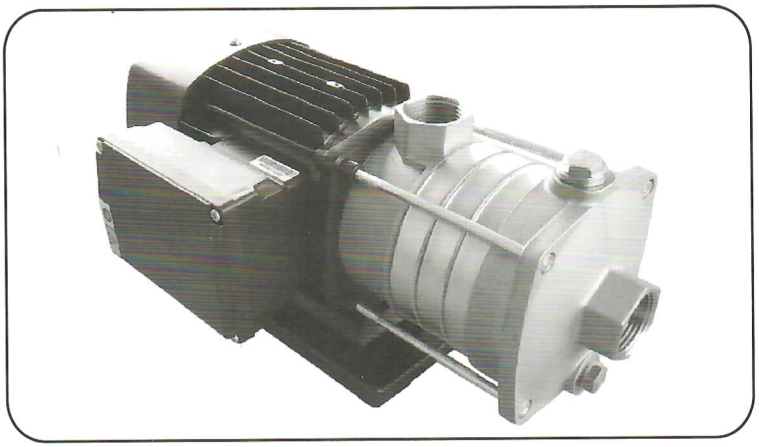
HORIZONTAL MULTI-STAGE CENTRIFUGAL PUMP MANUAL INSTRUCTION



Application

CM series are mini horizontal centrifugal pump ,have a wide application in domestic water supply、industry and constructions. They are used for:

- Air-conditioning system
- Cooling system
- Industrial cleaning、conveyance and circulation of liquid.
- Water treatment (Water purification)
- Domestic water supply
- Boosting、entironment
- Many other special using.

Working conditions

- Diluted, clean, non-flammable , and non -explosive
- liquid without solid grain or fibers ;
- Liquid temperature :
  low temperature: -20℃ ~ +15℃;
  standard model:+15℃~+70℃;
  high temperature:+70℃~+104℃;
- Max.environmental temperature: 50℃
- Max. operating pressure: 10 bar
- Max. suction pressure is limited by max. Operating pressure

Motor

- 2-pole induction motor;
- three-phase: 220/380V/50Hz
- Single-phase: 220~240V/50Hz
- Single-phase with input thermal protector
- Insulation class: F
- Protection: IP55
- Continuous duty

Connotation of the type

CM 2 - 20 (T) - A - W - G - BABE

- CM — Light horizontal multistage section type centrifugal pump
- 2 — Nominal flow m^3/h
- 20 — Number of stepsx10
- (T) — Single Phase without mark Three Phase : T
- A — Pump model
- W — The connection model of pipeline
- G — Material model
- BABE — Mechanical seal model

code number explanation

A - W - G - B A B E

Pump model
- "A" normal

Pipeline connection
- "W " inside thread
- "B " NPT thread
- "N" special connection hread

Material
- "G " sus304 stainless steel or similar rank
- "X" special material

Shaft seal — B A B E
- "B" the rubber place shaft seal
- "U" tungsten carbide
- "Q" silicon carbide
- "A" ceramic
- "B" carbon
- "E" EPDM
- "V" fluorine rubber
- "N" NBR

Performance table

Model		Driving motor P_2(kW)	Q (m^3/h)	1.0	1.5	2.0	2.5	3.0	3.5
Single Phase	Three Phase								
CM2-20	CM2-20T	0.37		18	16	14	13	11	10
CM2-30	CM2-30T	0.37		27	24	21	20	17	14
CM2-40	CM2-40T	0.55	H (m)	35	32	28	26	23	17
CM2-50	CM2-50T	0.55		43	40	35	33	28	22
CM2-60	CM2-60T	0.75		50	48	42	38	32	25

Model		Driving motor P_2(kW)	Q (m^3/h)	2.0	3.0	4.0	5.0	6.0	7.0
Single Phase	Three Phase								
CM4-20	CM4-20T	0.55		18	16	15	13	10	7
CM4-30	CM4-30T	0.75		27	25	22	19	15	10
CM4-40	CM4-40T	0.75	H (m)	36	33	30	26	20	13
CM4-50	CM4-50T	1.0		44	41	38	32	26	20
CM4-60	CM4-60T	1.1		53	50	45	40	33	24

Performance curve resource:

Performance curve are based on the following

1.Performance based on actual speed of standard motor.

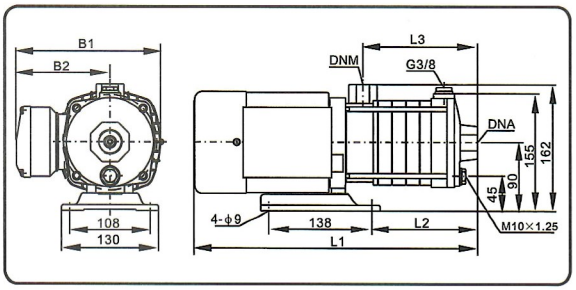
2.Carring on test by 20℃ water without air.

3.Curve are suitable for deliverying liquid (ν =1mm^2/s, ρ = 1g/cm^3).

4.The black curve are recommended performance, the small ones are only for reference.

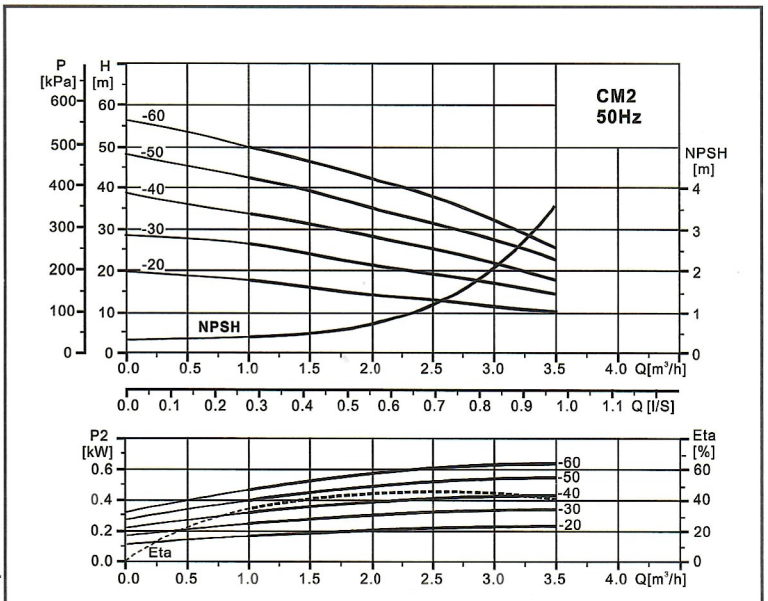
5.Make sure pumps runing not less than min-flow, to protect from burning due to growing heating.

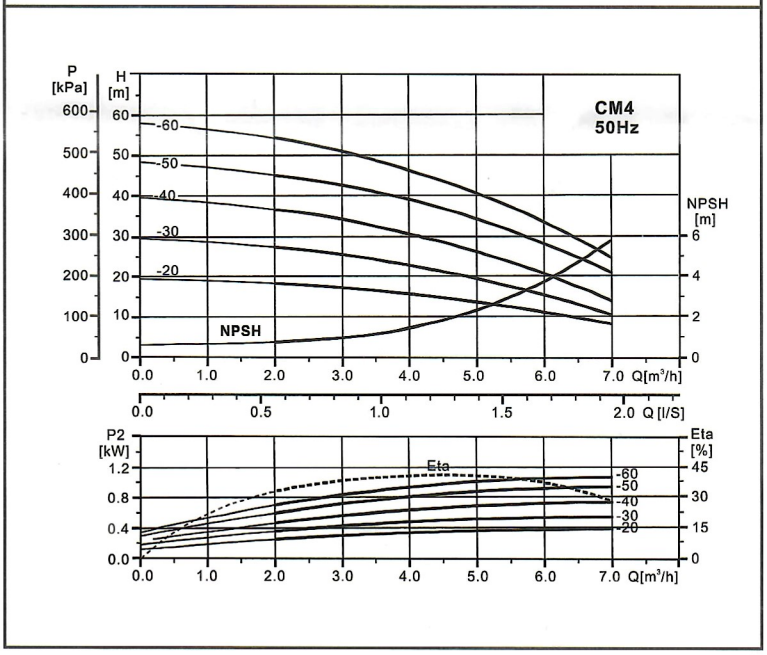
Contour dimension



Model	Size(mm)							DNA	DNM
	L1	L2	L3	B1		B2			
				Single Phase	Three Phase	Single Phase	Three Phase		
CM2-20(T)	326	90	100	195	123	173	101	G1	G1
CM2-30(T)	344	108	118						
CM2-40(T)	362	126	136						
CM2-50(T)	380	144	154						
CM2-60(T)	398	162	172						
CM4-20(T)	335	99	109	195	123	173	101	G1 1/4	G1
CM4-30(T)	362	126	136						
CM4-40(T)	389	153	163						
CM4-50(T)	416	180	190						
CM4-60(T)	443	207	217						

Performance curve





⚠ This appliance is not intended for use by persons (including children)with reduced physical, sensory or mental capabilities, orlack of experience and knowledge, unlessthey have been given supervision or instruction concerning use of the app liance by a person responsible for their safety. children should be supervised to ensure that they do not play with the appliance.

Type Y attachment - Damaged supply cords to be replaced by the manufacturer,service agent or similarly qualified person to avoid hazard.

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