

HORIZONTAL MULTI-STAGE CENTRIFUGAL PUMP MANUAL INSTRUCTION

Application

Mainly applicable for conveying of industrial liquid, such as mineral water, soft water, pure water, clean oil and circulation and boosting for other weak chemical - industrial medium.

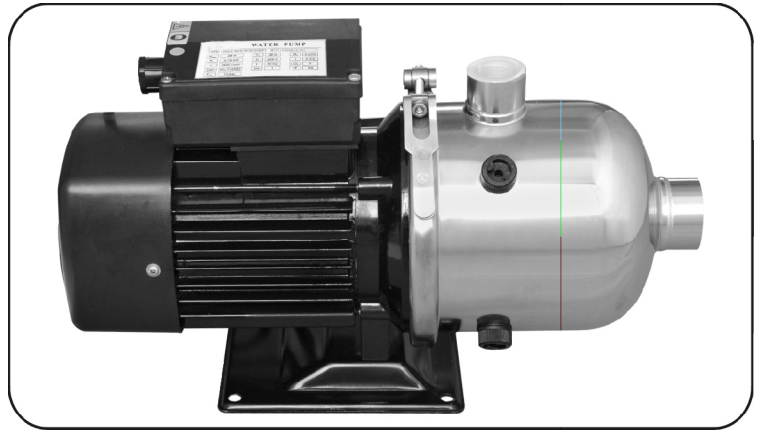
- Water treatment processes
- Industrial cleaner and dishwasher
- Water boosting on process
- Heating and cooling for industrial process
- Air-conditioning system
- Air freshening, heater device(soft water)
- Water supply and boosting(drinking water, light chlorine water)
- Fertilization/metering system

Working conditions

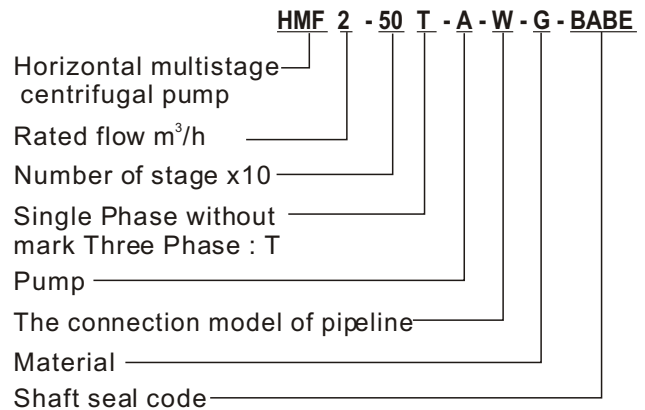
- Diluted, clean, non-flammable, and non-explosive
- liquid without solid grain or fibers ;
- Liquid temperature :
low temperature: -20°C ~ +15°C;
standard model:+15°C~+70°C;
high temperature:+70°C~+104°C;
- Max.environmental temperature: 50°C
- Max. operating pressure: 10 bar
- Max. suction pressure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

Motor

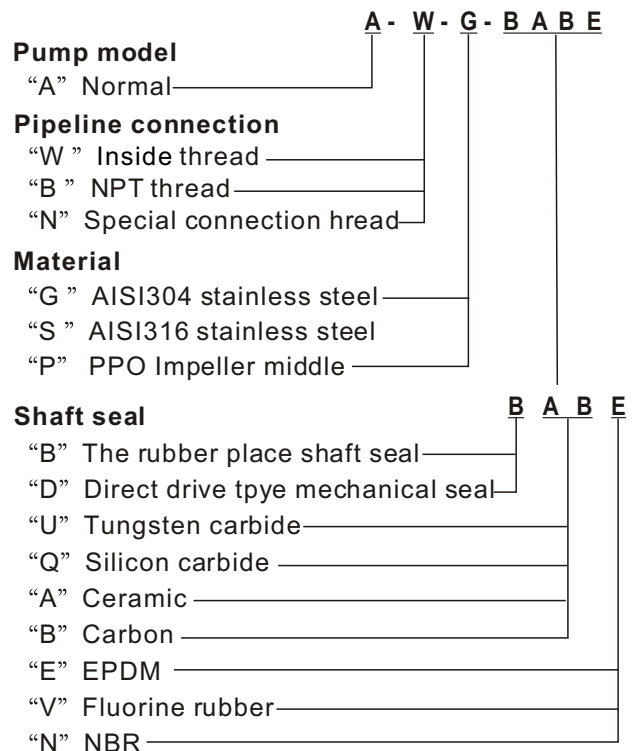
- 2-pole induction motor;
- three-phase: 220/380V/50Hz
- Single-phase: 220~240V/50Hz
- Single-phase with input thermal protector
- Insulation class: F
- Protection: IP55
- Continuous duty



Connotation of the type



Code number explanation



Performance table

Model		Driving motor P ₂ (kW)	Q (m ³ /h)	H (m)				
Single Phase	Three Phase			1.0	1.5	2.0	2.5	3.0
HMF2-20	HMF2-20T	0.37	18	16	14	13	11	10
HMF2-30	HMF2-30T	0.37	27	24	21	20	17	14
HMF2-40	HMF2-40T	0.55	35	32	28	26	23	17
HMF2-50	HMF2-50T	0.55	43	40	35	33	28	22
HMF2-60	HMF2-60T	0.75	50	48	42	38	32	25

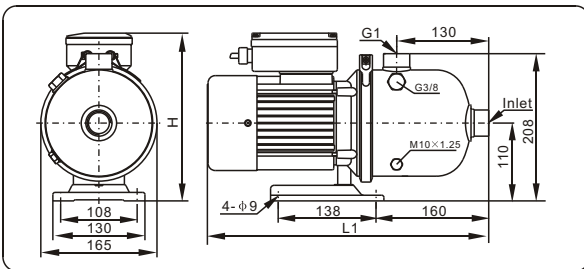
Model		Driving motor P ₂ (kW)	Q (m ³ /h)	H (m)					
Single Phase	Three Phase			2.0	3.0	4.0	5.0	6.0	7.0
HMF4-20	HMF4-20T	0.55	18	16	15	13	10	7	
HMF4-30	HMF4-30T	0.75	27	25	22	19	15	10	
HMF4-40	HMF4-40T	0.75	36	33	30	26	20	13	
HMF4-50	HMF4-50T	1.0	44	41	38	32	26	20	
HMF4-60	HMF4-60T	1.1	53	50	45	40	33	24	

Performance curve resource:

Performance curve are based on the following

1. Performance based on actual speed of standard motor.
2. Carrying on test by 20°C water without air.
3. Curve are suitable for delivering liquid ($\nu = 1\text{mm}^2/\text{s}$, $\rho = 1\text{g}/\text{cm}^3$).
4. The operation of pump shall refer to the performance region described by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.

Contour dimension and weight



Model	Size(mm)				Inlet
	Single Phase		Three Phase		
	L1	H	L1	H	
HMF2-20(T)	405	236	405	214	G1
HMF2-30(T)	405	236	405	214	
HMF2-40(T)	405	236	405	214	
HMF2-50(T)	405	236	405	214	
HMF2-60(T)	405	236	405	214	
HMF4-20(T)	405	236	405	214	G1 ^{1/4}
HMF4-30(T)	405	236	405	214	
HMF4-40(T)	405	236	405	214	
HMF4-50(T)	405	236	405	214	
HMF4-60(T)	405	236	405	214	

Performance curve

