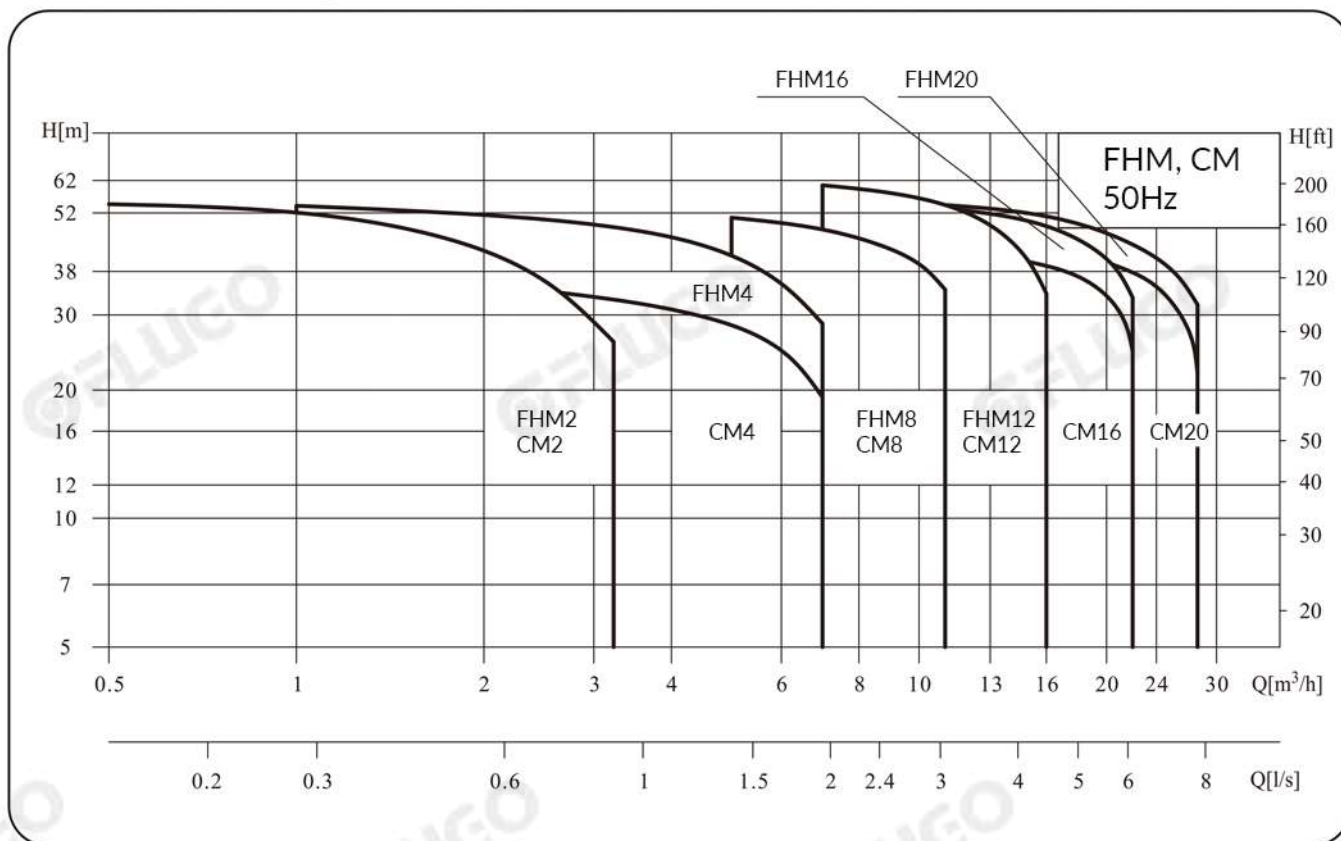




# FHM Series

Horizontal  
Multistage Pump

### Performance Range



### Specification

Key Parameter	FHM2	FHM4	FHM8	FHM12	FHM16	FHM20
Rated Flow [m³/h]	2	4	8	12	16	20
Rated Flow [l/s]	0.56	1.1	2.2	3.3	4.4	5.6
Flow Range [m³/h]	0.6~3.2	1~7	5~11	7~16	8~22	10~28
Flow Range [l/s]	0.17~0.89	0.28~1.9	1.39~3	1.9~4.4	2.2~6.1	2.8~7.8
Max. Pressure [bar]	5.3	5.6	5	6	5.3	5.3
Motor Capacity [kW]	0.37~0.75	0.37~1.1	0.75~2.2	1.2~3	2.2~4	2.2~4.4
Temp. Range [°C]	-15~105					
Max. Efficiency [%]	46	58	62	63	66	69

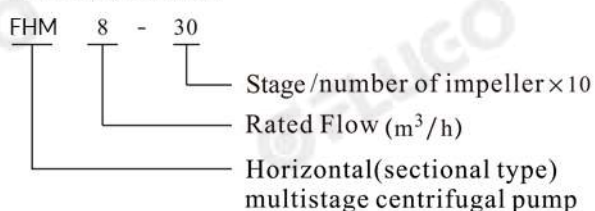
Threaded joint

Water outlet	Rp1	Rp1	Rp1 <sup>1</sup> / <sub>4</sub>	Rp1 <sup>1</sup> / <sub>2</sub>	Rp2	Rp2
Water inlet	Rp1	Rp1 <sup>1</sup> / <sub>4</sub>	Rp1 <sup>1</sup> / <sub>2</sub>	Rp1 <sup>1</sup> / <sub>2</sub>	Rp2	Rp2

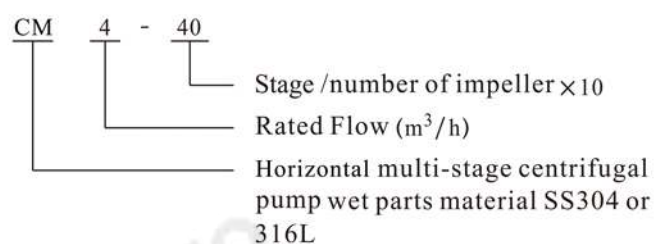
Key Parameter	CM2	CM4	CM8	CM12	CM16	CM20
Rated Flow [m <sup>3</sup> /h]	2	4	8	12	16	20
Rated Flow [l/s]	0.56	1.1	2.2	3.3	4.4	5.6
Flow Range [m <sup>3</sup> /h]	0.6~3.2	1~7	5~11	7~16	8~22	10~28
Flow Range [l/s]	0.17~0.89	0.28~1.9	1.39~3	1.9~4.4	2.2~6.1	2.8~7.8
Max. Pressure [bar]	5.3	3.7	5	6	3.9	3.9
Motor Capacity [kW]	0.37~0.75	0.37~0.75	0.75~2.2	1.2~3	2.2~3	2.2~4
Temp. Range [°C]	-15~105					
Max. Efficiency [%]	46	58	62	63	66	69
Threaded joint						
Water outlet	Rp1	Rp1	Rp2	Rp2	Rp2	Rp2
Water inlet	Rp1	Rp1 $\frac{1}{4}$	Rp2	Rp2	Rp2	Rp2

## Model Description

FHM 2/4/8/12/16/20



CM2/4/8/12/16/20



## Medium transporting

- Thin, Clean, non - flammable and explosive and not containing solid particles or fibers liquid.
- Pump can transport, such as mineral water, soften water, pure water, oil and other light chemical medium.
- When the density or viscosity of conveying liquid is greater than the water, the pump must be with high power motor.
- If the pump can be used in a particular liquid is determined by many factors, one of the most important is the content of chloride, PH value, temperature and solvent, oil content, etc.

## Working condition

- Liquid temperature:
  - Normal temperature -15°C ~ +70°C
  - Hot water type -15°C ~ +105°C
- Max. environment temperature +40°C
- Max. running pressure: 10 bar
- Maximum inlet pressure being limited by the maximum operating pressure

## Typical applications

- Air conditioning system
- Cooling system
- Industrial cleaning
- Water treatment(Purification of water)
- Aquaculture
- Fertilization /measurement system
- Environmental applications
- Others

## Motor

- The motor is totally enclosed, air-cooled with two pole machine prote
- Protection grade: IP55
- Insulation class: F
- Standard voltage: 50Hz: 1 × 220~240V  
3 × 220-240V/380-415V
- Max. Power of single motor 2.4kW.

### Curve Condition

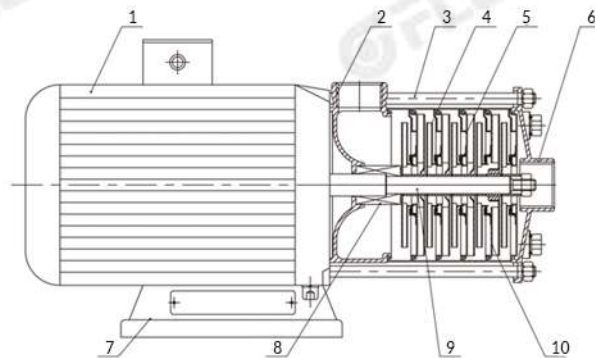
The following conditions apply to performance curve which will be show in this catalogue.

- All measure value of curves are based on the motor in a constant speed of 2900 RPM.
- Curve tolerance meets ISO9906, appendix A.
- Test with 20°C pure water (without air), kinematic viscosity 1mm<sup>2</sup>/s.
- Pump using referring to the performance range of thick lines, to prevent the motor from too small flow to produce overheat and too big flow to produce overload.

### Pump

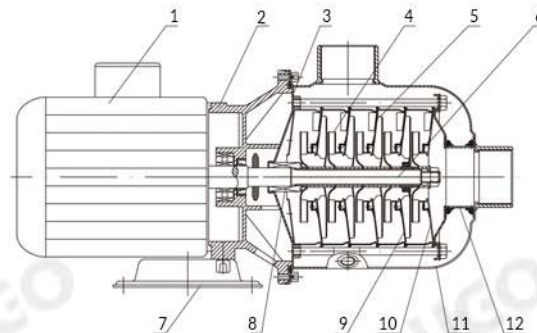
- Horizontal multistage non self-priming centrifugal pump, with extended shaft motor
- Compact structure makes size of pump very small, axial inlet and radial outlet.

### Cross-Section Drawing FHM



No	Description	Material	AISI/ASTM	No	Description	Material	AISI/ASTM
1	Motor	Assembling unit		6	Inlet seat	Stainless	AISI304
2	Outlet seat	Stainless steel	AISI304	7	Base plate	Steel	AISI11015
3	Tie rod	Stainless steel	AISI304	8	Mechanical seal	Assembling unit	
4	Impeller	Stainless steel	AISI304	9	Shaft	Stainless	AISI304
5	Diffuser	Stainless steel	AISI304	10	Support diffuser.	Stainless	AISI304

### Cross-Section Drawing CM



No	Description	Material	AISI/ASTM	No	Description	Material	AISI/ASTM
1	Motor	Assembling unit		7	Seat	Steel	AISI11015
2	Motor front housing	Aluminium alloy		8	Mechanical seal	Assembling unit	
3	Seal seat	Stainless steel	AISI304	9	Support diffuser	Stainless steel	AISI304
4	Impeller	Stainless steel	AISI304	10	Inlet diffuser	Stainless steel	AISI304
5	Diffuser	Stainless steel	AISI304	11	Casing	Stainless steel	AISI304
6	Shaft	Stainless steel	AISI304	12	Inlet pipeline	Stainless steel	AISI304



