



CHM Horizontal Multistage Centrifugal Pump



Application

- Air conditioning system
- Cooling system
- Industrial cleaning
- Water treatment (purification of water)
- Aquaculture
- Fertilization/metering system
- Environmental applications
- (Other) Many specialized and specific purposes

Operating Condition

- Liquid temperature:
- Room temperature type: -15°C~70°C
- Hot water type: 70°C~110°C
- Maximum ambient temperature: 40°C
- Maximum operating pressure: 10 bar
- The maximum inlet pressure is limited by the maximum operating pressure

Transporting Liquids

A non flammable and explosive liquid that is thin, clean, and does not contain solid particles or fibers.

The pump can transport light chemical media such as mineral water, softened water, pure water, clear oil, and others.

When the density or viscosity of the transported liquid is greater than that of water, a high-power motor must be used if necessary.

The suitability of a pump for a specific liquid is determined by various factors, among which the most important are chlorine content, pH value, temperature, solvent, oil content, etc.

Motor

The motor is a fully enclosed, air-cooled bipolar motor.

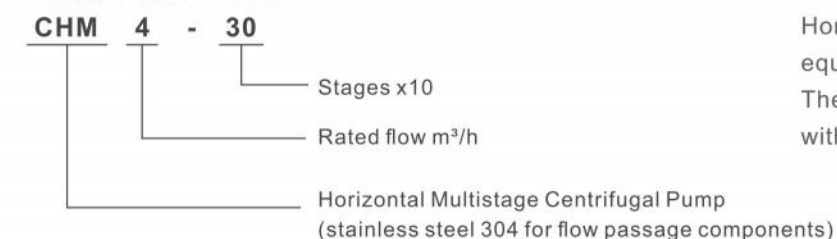
Protection level: IP55

Insulation class: F

Standard voltage: 50Hz: 1x220-240V

The maximum power of a single-phase motor is 2.2kW.

Model Definition



Pump

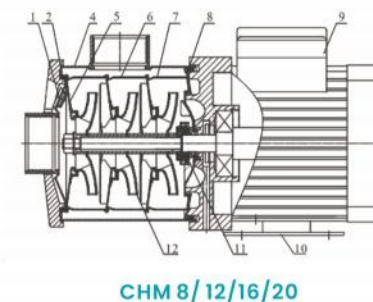
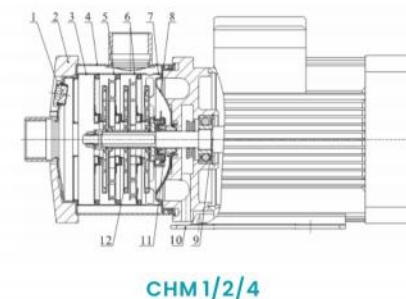
Horizontal multi-stage non self priming centrifugal pump, equipped with a long shaft motor.

The compact structure makes the pump size very small, with axial inlet and radial outlet.

Performance Curve

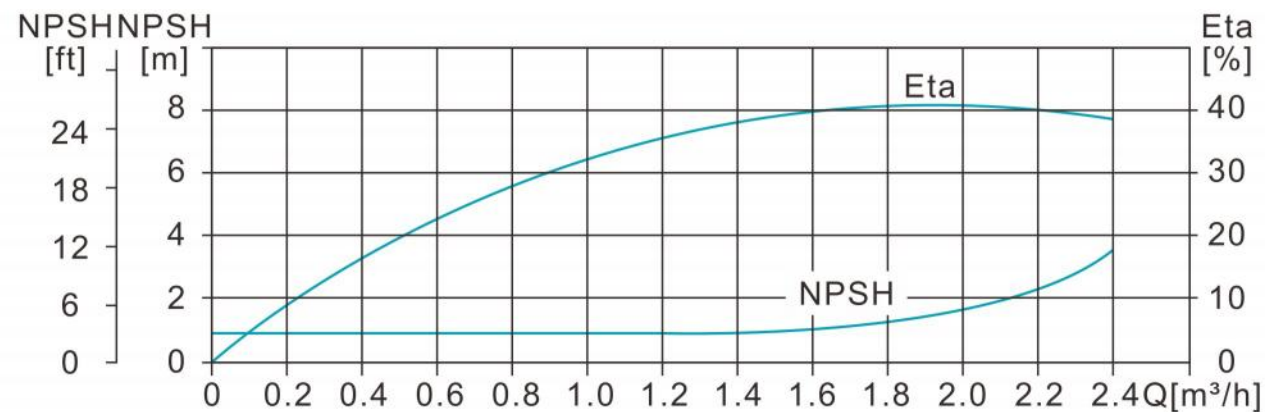
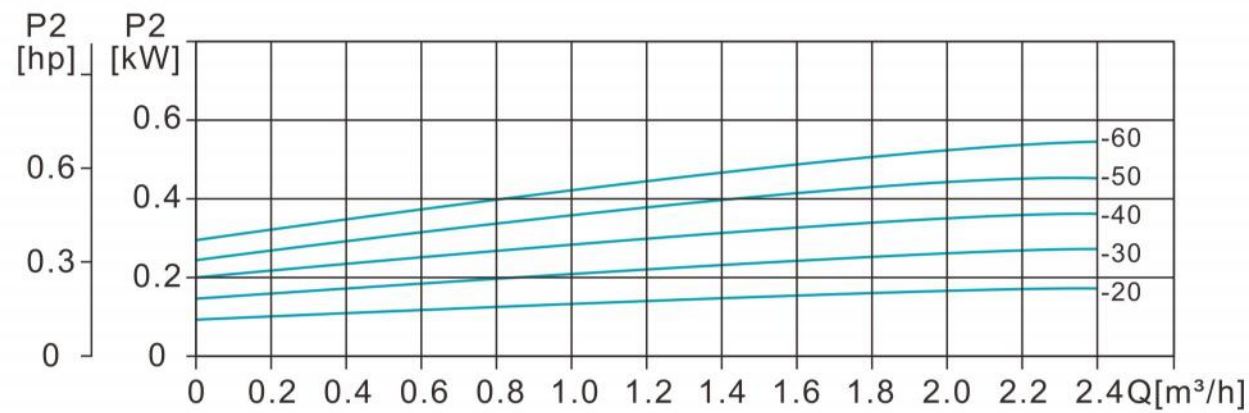
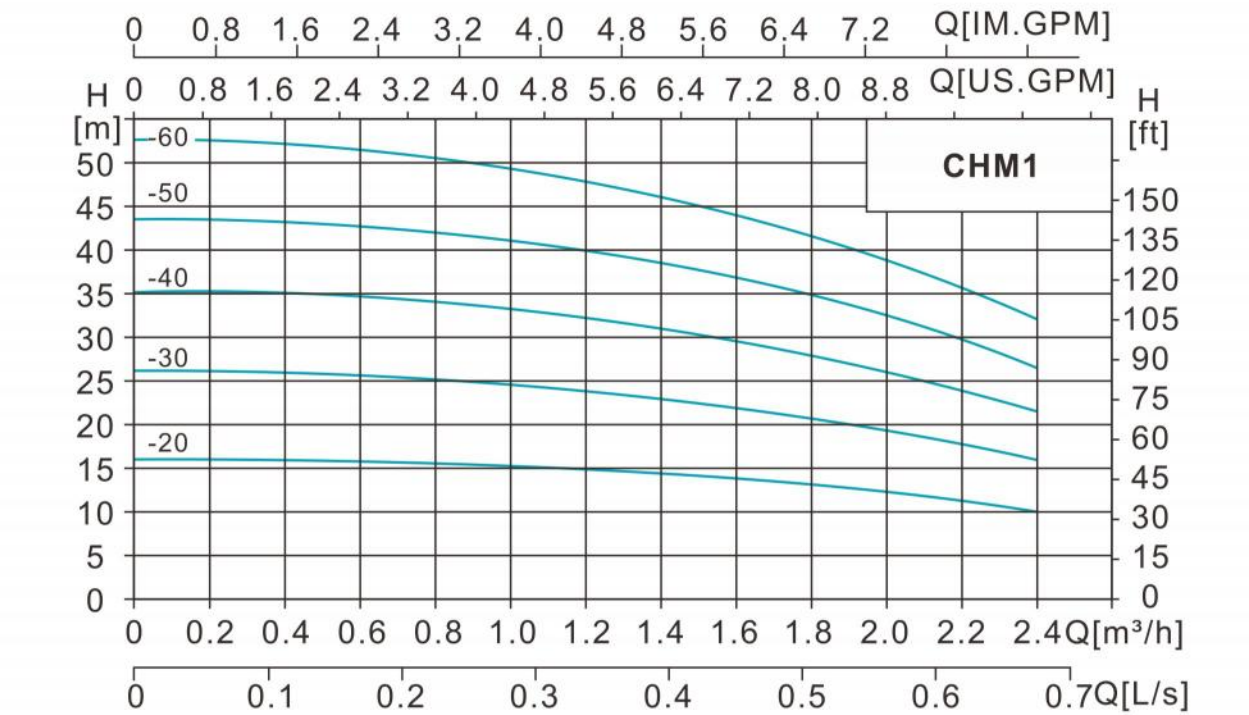
- The following instructions apply to the curves shown later:
- All curves are based on the measured values of the motor at a constant speed of 2900rpm or 2950rpm.
 - The curve tolerance complies with ISO9906, Appendix A.
 - The test uses water without air at 20°C, with a kine-matic viscosity of 1mm²/s
 - The use of pumps should refer to the performance range of the bold curve to prevent overheating caused by low flow and motor overload caused by excessive flow.

Material Of CHM



No.	Name	Material	AISI/ASTM
1	Plug	Stainless steel	SS-304N2-33
2	Pressing plate	Die cast aluminum	ASTM383.1
3	Guide housing	Stainless steel	AISI304
4	Inlet and outlet section	Stainless steel	AISI304
5	Guide shell	Stainless steel	AISI304
6	Guide vane	Stainless steel	AISI304
7	Outlet guide vane	Stainless steel	AISI304
8	Sealing seat	Stainless steel	AISI304
9	Motor		
10	Baseplate	Steel plate	AISI1015
11	Mechanical seal	Graphite/Silicon Carbide	
12	Impeller	Stainless steel	AISI304

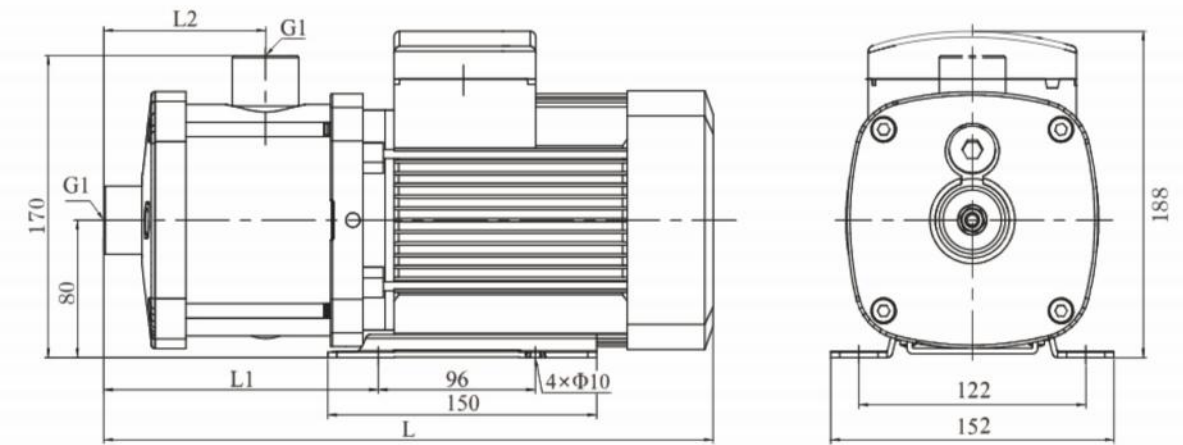
Performance Curve Of CHM



Performance Table Of CHM

Model	Power(kW)	Q[m³/h]	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4
CHM1-20	0.25	H (m)	16	16	15.5	15.5	15	14.5	13.5	13	12	11	10
CHM1-30	0.37		25.5	25.5	25	24.5	24	23	22	20.5	19.5	18	16
CHM1-40	0.37		34.8	34.5	33.8	33	32	31	29.5	28	26	24	21.5
CHM1-50	0.45		43	42.5	42	41	40	38.5	37	35	32.5	30	27
CHM1-60	0.55		52	51.5	50.5	49.5	48	46.5	44	41.5	38.5	35.5	32

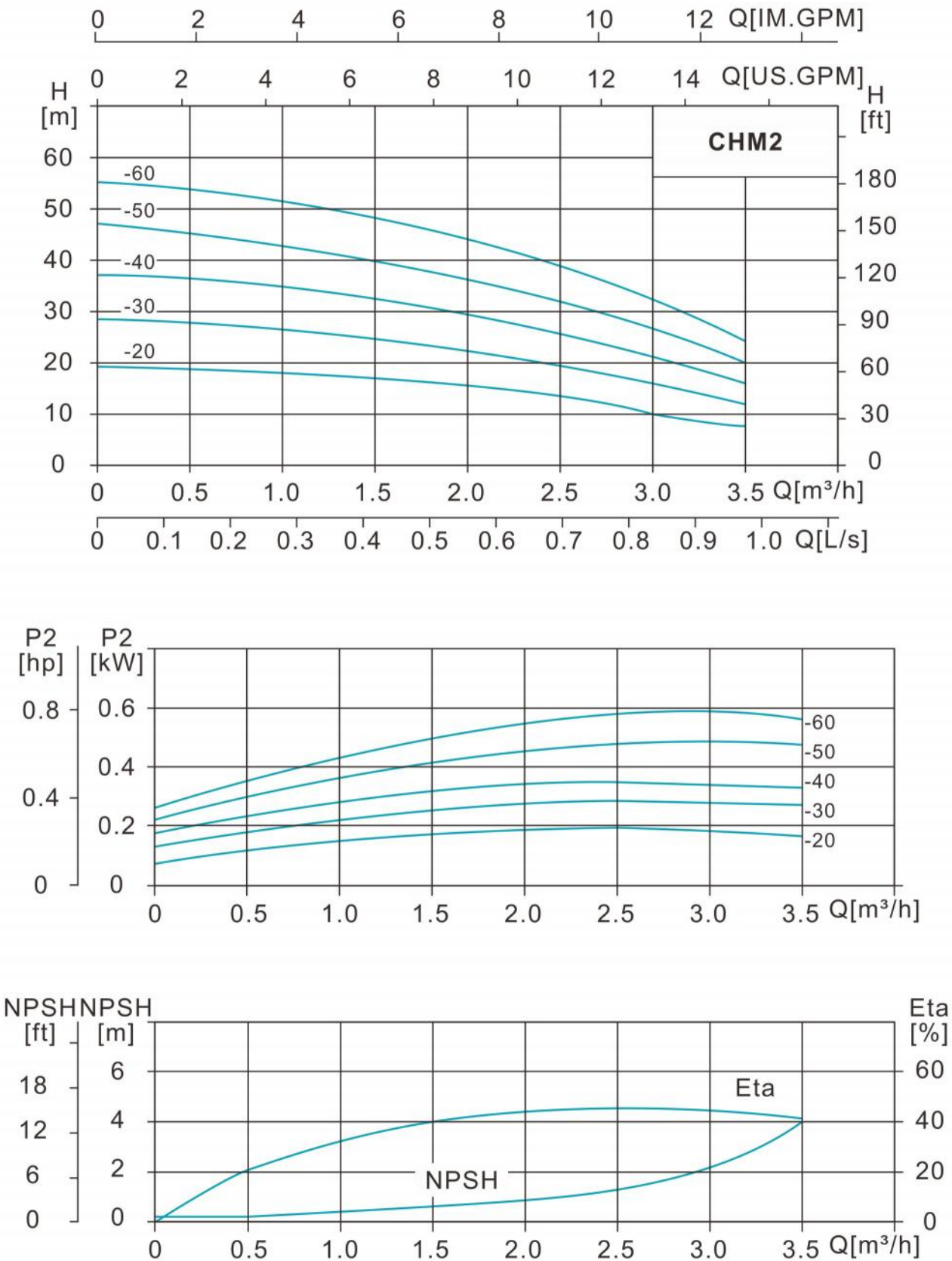
Installation Drawing Of CHM



Dimension And Weight Of CHM

Motor	Model	Dimension(mm)			Weight (kg)
		L	L1	L2	
Three-phase Single-phase	CHM1-20	325	128	70	10
	CHM1-30	325	128	70	10
	CHM1-40	343	149	88	11
	CHM1-50	361	164	106	11
	CHM1-60	379	182	124	12

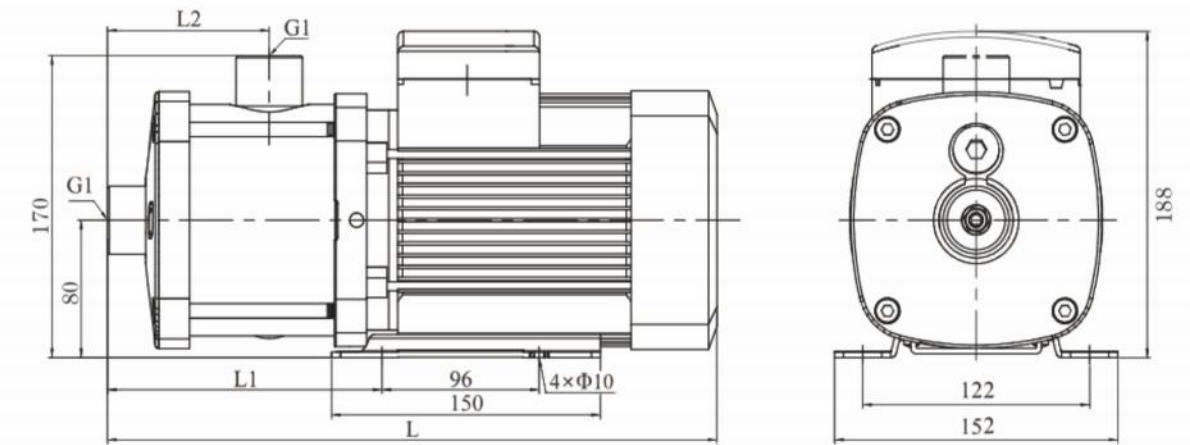
Performance Curve Of CHM



Performance Table Of CHM

Model	Power(kW)	Q[m³/h]	0.5	1.0	1.5	2.0	2.5	3.0	3.5
CHM2-20	0.37	H (m)	19	18	16.5	15	13	10	7.5
CHM2-30	0.37		28	26.5	24.5	22	19	15.5	12
CHM2-40	0.55		36	34.5	33	29	25	20.5	16
CHM2-50	0.55		45.5	43	40	36	31.5	26.5	20.5
CHM2-60	0.75		53.5	51	48	44	39	32	24

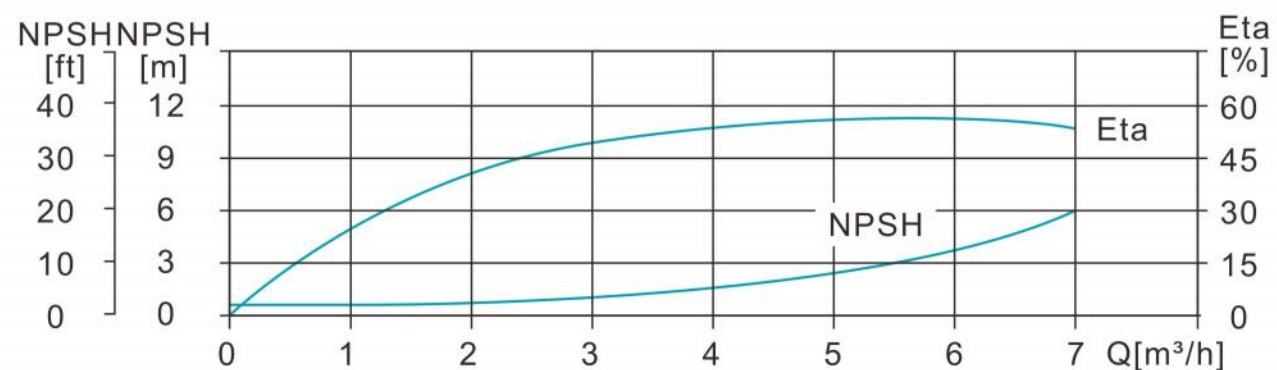
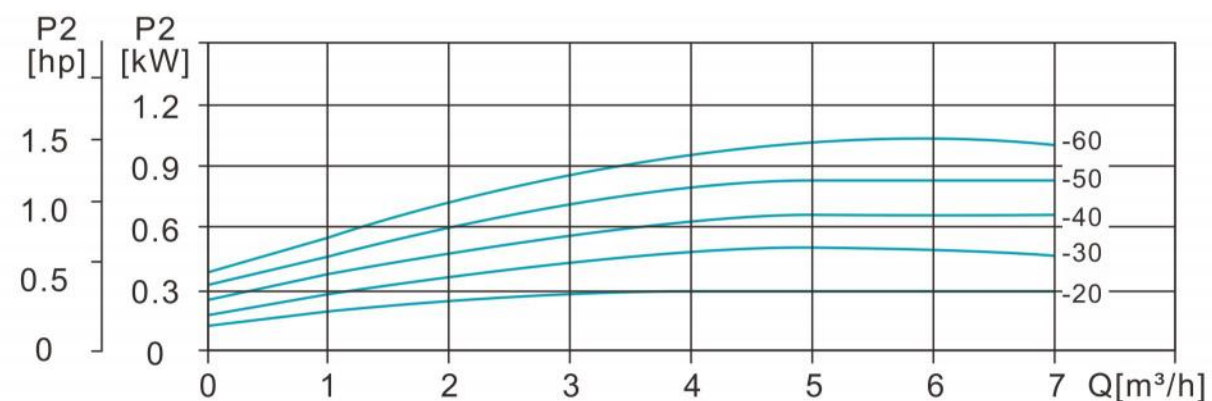
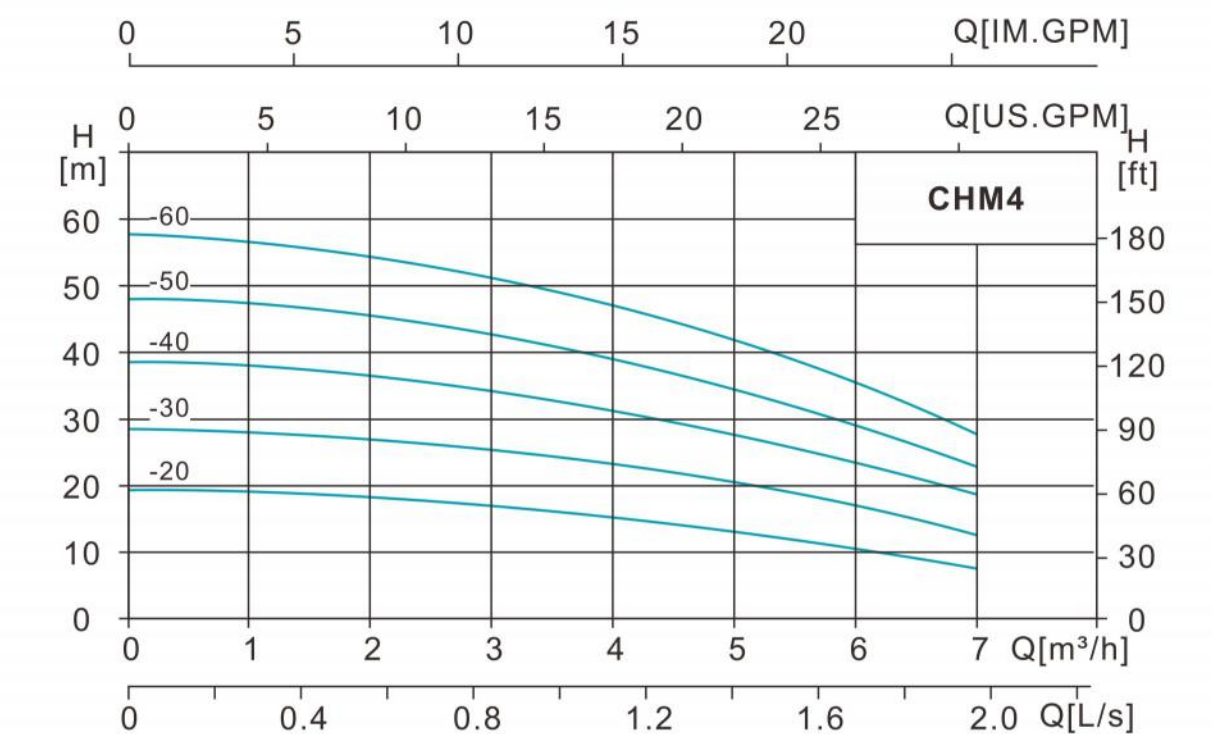
Installation Drawing Of CHM



Dimension And Weight Of CHM

Motor	Model	Dimension(mm)			Weight (kg)
		L	L1	L2	
Three-phase Single-phase	CHM2-20	325	128	70	10
	CHM2-30	325	128	70	10
	CHM2-40	343	149	88	11
	CHM2-50	361	164	106	11
	CHM2-60	379	182	124	14

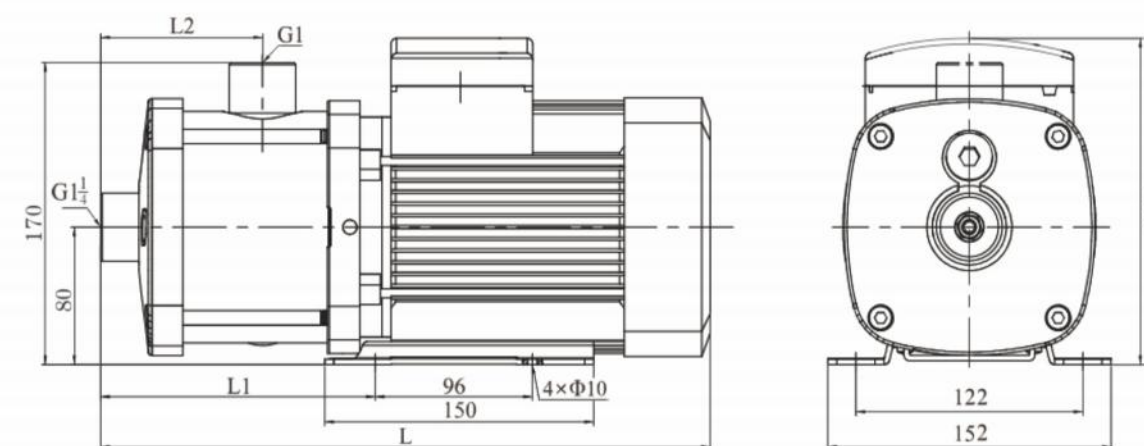
Performance Curve Of CHM



Performance Table Of CHM

Model	Power(kW)	Q[m³/h]	1	2	3	4	5	6	7
CHM4-20	0.37	H (m)	19	18	17	15	12.5	10	8
CHM4-30	0.55		28	27	26	23.5	20.5	17	13
CHM4-40	0.75		37.5	36	34	31	27	23	19
CHM4-50	1.1		47	45	42.5	39	34	29	23
CHM4-60	1.1		56	54	51	47	41.5	35.5	28

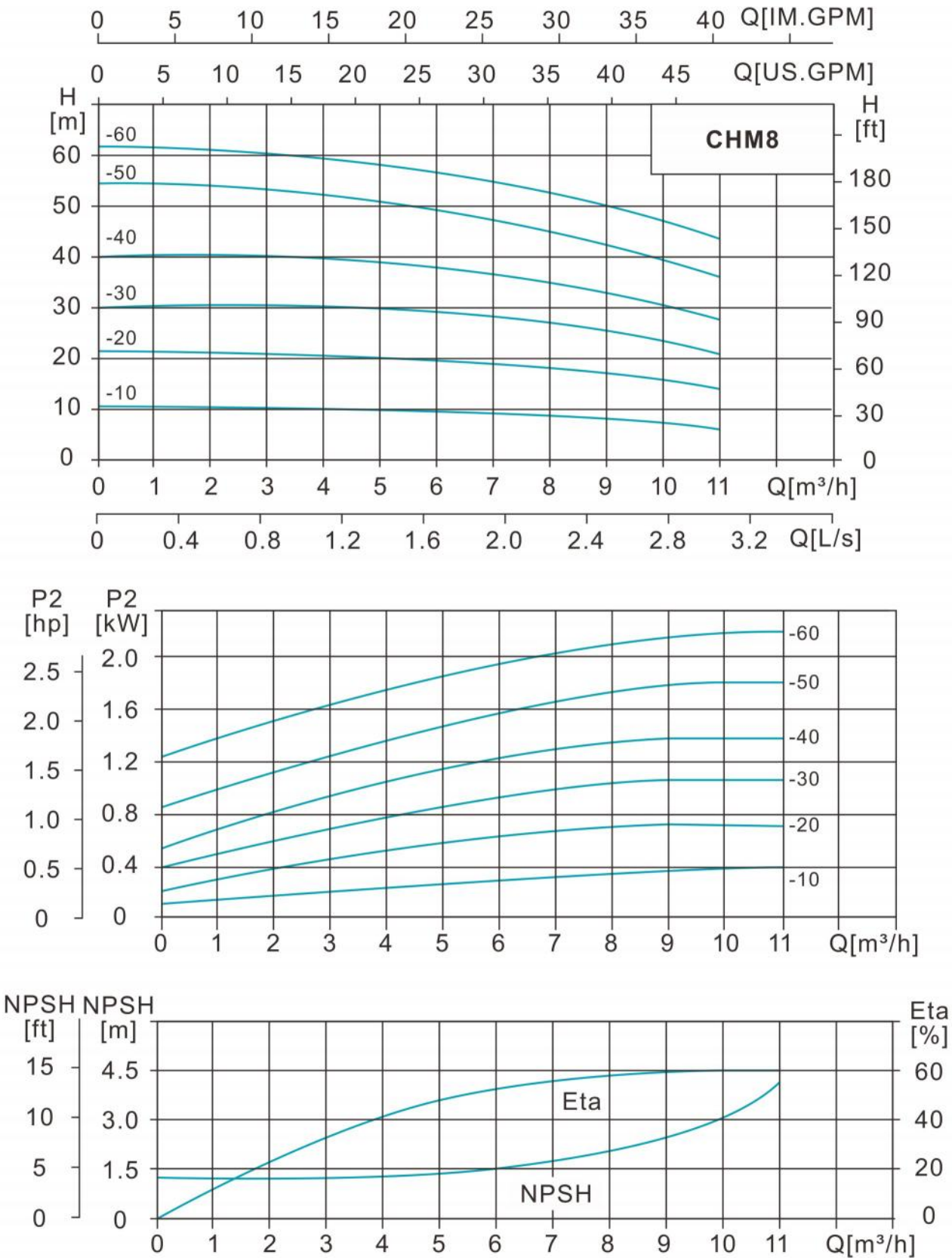
Installation Drawing Of CHM



Dimension And Weight Of CHM

Motor	Model	Dimension(mm)			Weight (kg)
		L	L1	L2	
Three-phase Single-phase	CHM4-20	325	128	70	10
	CHM4-30	325	128	70	11
	CHM4-40	343	146	88	14
	CHM4-50	380	164	106	17
	CHM4-60	399	182	124	18

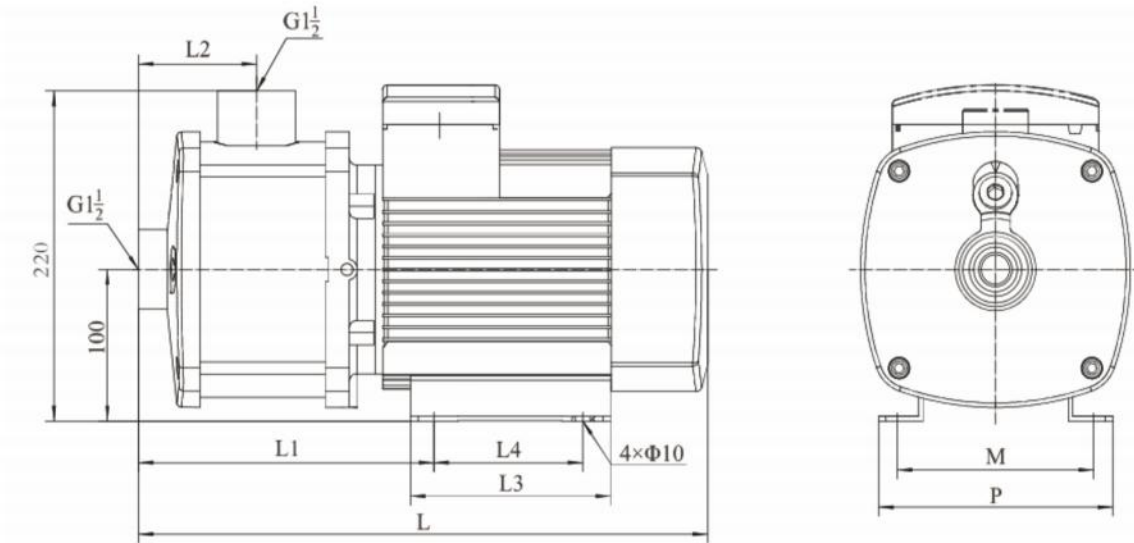
Performance Curve Of CHM



Performance Table Of CHM

Model	Power(kW)	Q[m³/h]	5	6	7	8	9	10	11
CHM8-10	0.75	H (m)	10	9.5	9.3	9	8	7.5	7
CHM8-20	0.75		20	19.5	19	18	17	15.5	14
CHM8-30	1.1		29.5	29	28	27	25	23	21
CHM8-40	1.5		39	38	37	35	33	30.5	27.5
CHM8-50	2.2		51	49.5	47.5	45	42.5	39.5	36
CHM8-60	2.2		61	60	57	54	51	48	43

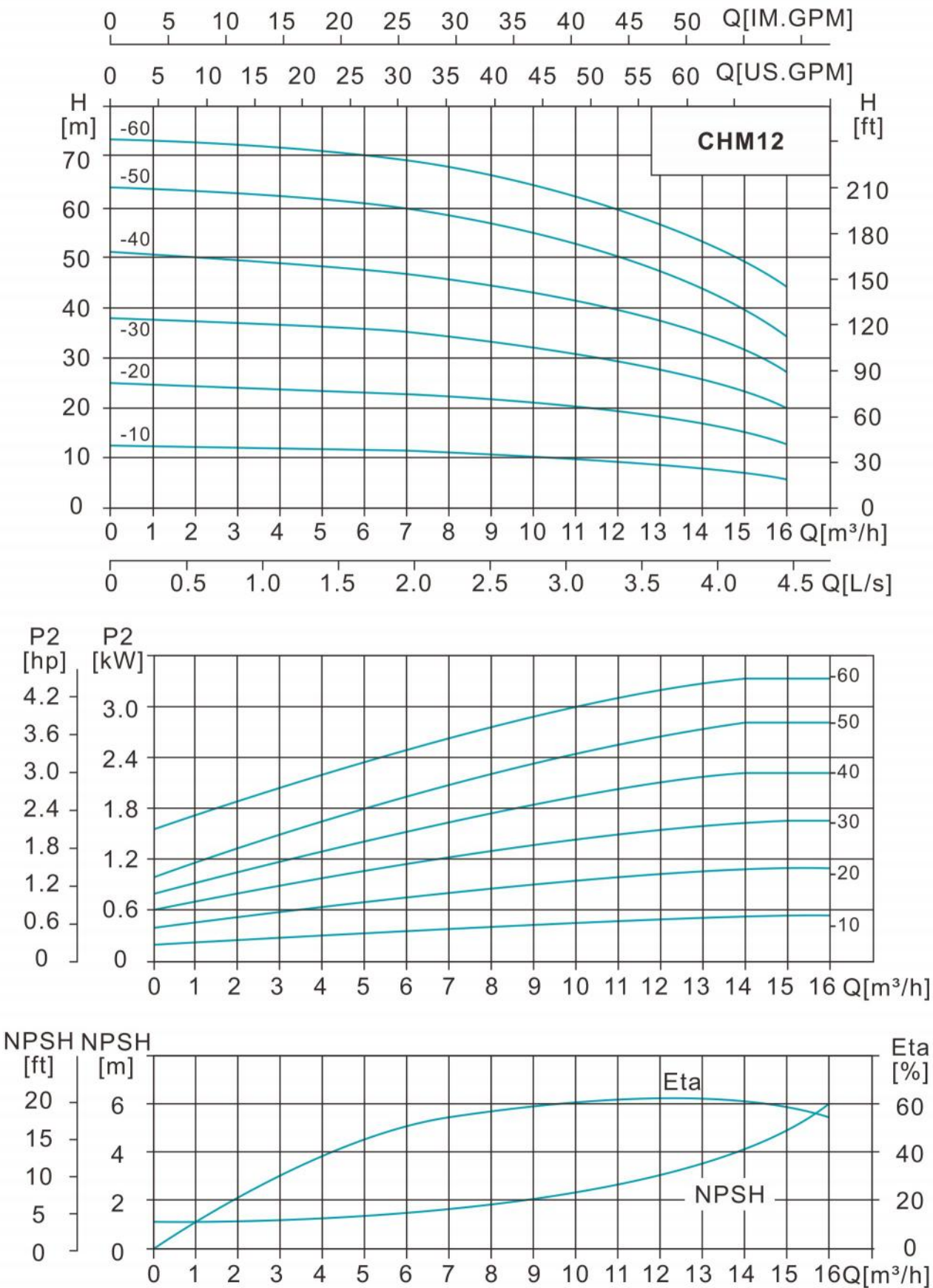
Installation Drawing Of CHM



Dimension And Weight Of CHM

Motor	Model	Dimension(mm)							Weight (kg)
		L	L1	L2	L3	L4	P	M	
Three-phase Single-phase	CHM8-10	425	162	105	136	96	160	126	14
	CHM8-20	425	162	105	136	96	160	126	14
	CHM8-30	425	162	105	136	96	160	126	18
	CHM8-40	475	248	135	170	140	200	160	23
	CHM8-50	545	278	165	170	140	200	160	24
	CHM8-60	575	308	195	170	140	200	160	25

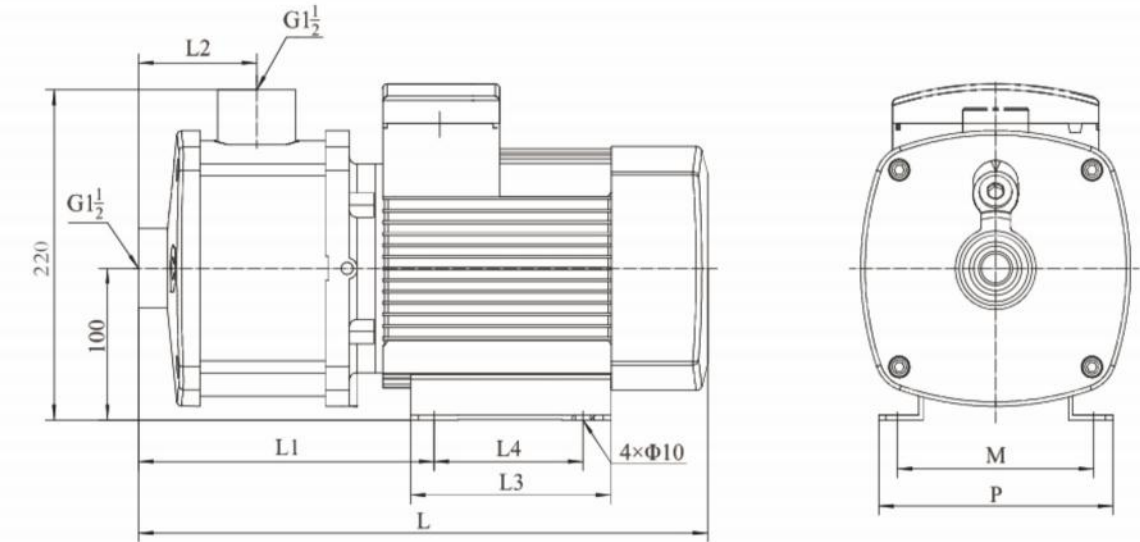
Performance Curve Of CHM



Performance Table Of CHM

Model	Power(kW)	Q[m³/h]	7	8	9	10	11	12	13	14	15	16
CHM12-10	0.75	H (m)	11.5	11.2	11	10.5	10	9.5	9	8	7	6
CHM12-20	1.2		23	22.5	22	21.5	20.5	19.5	18.5	17	15.5	13
CHM12-30	1.8		35	34.5	33.5	32.5	31	29.5	28	26	23.5	20
CHM12-40	2.4		47	46	45	43.5	41.5	39.5	37.5	35	31.5	27.5
CHM12-50	3		60	58	56.5	55	52.5	50	47	44	40	35
CHM12-60	4		70	70	68	66	63	60	56	52	47	42

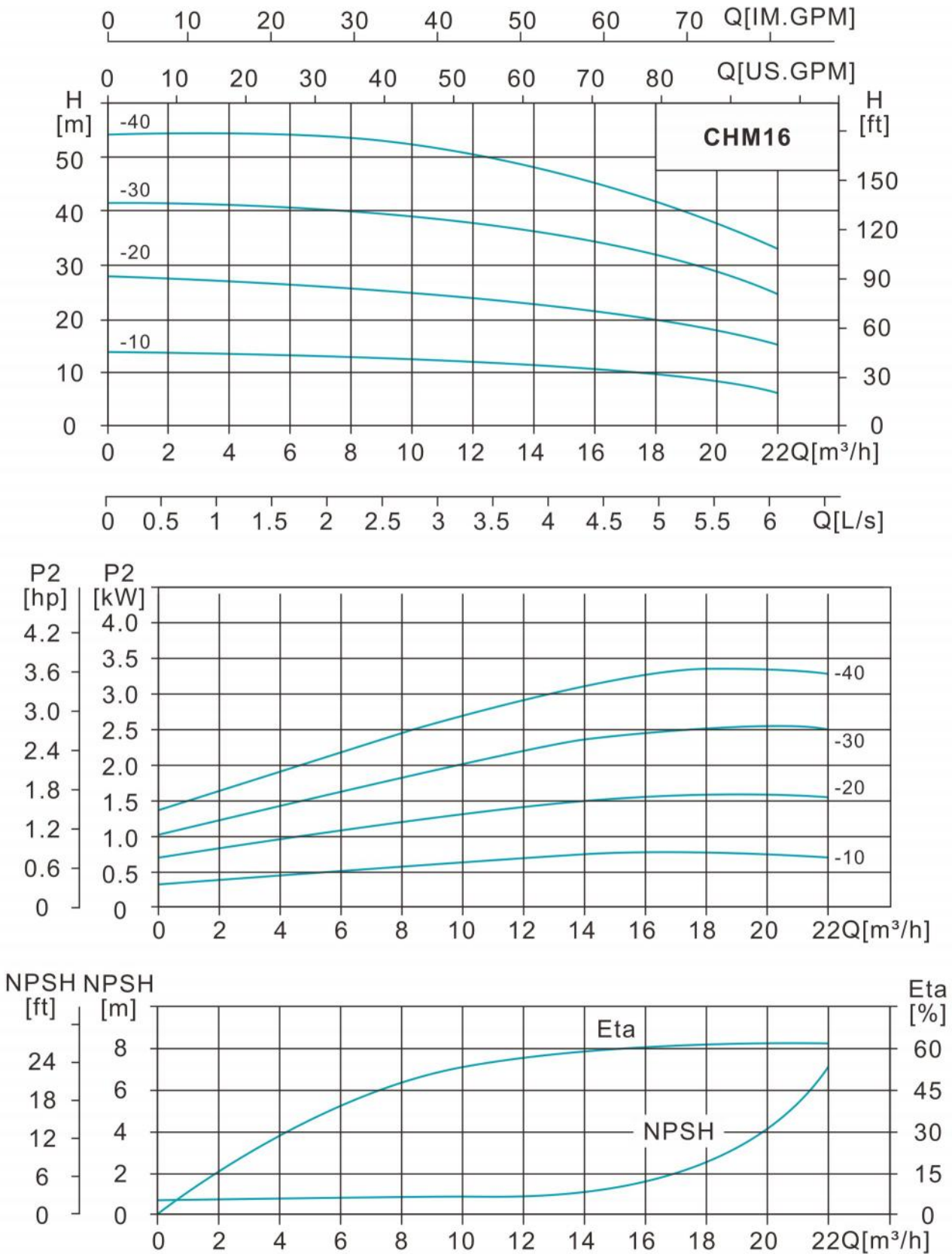
Installation Drawing Of CHM



Dimension And Weight Of CHM

Motor	Model	Dimension(mm)							Weight (kg)
		L	L1	L2	L3	L4	P	M	
Three-phase Single-phase	CHM12-10	425	162	105	136	96	160	126	14
	CHM12-20	442	217	105	170	140	200	160	18
	CHM12-30	482	217	105	170	140	200	160	23
	CHM12-40	512	248	135	170	140	200	160	24
	CHM12-50	548	250	165	170	140	200	160	31
	CHM12-60	578	280	195	170	140	200	160	35

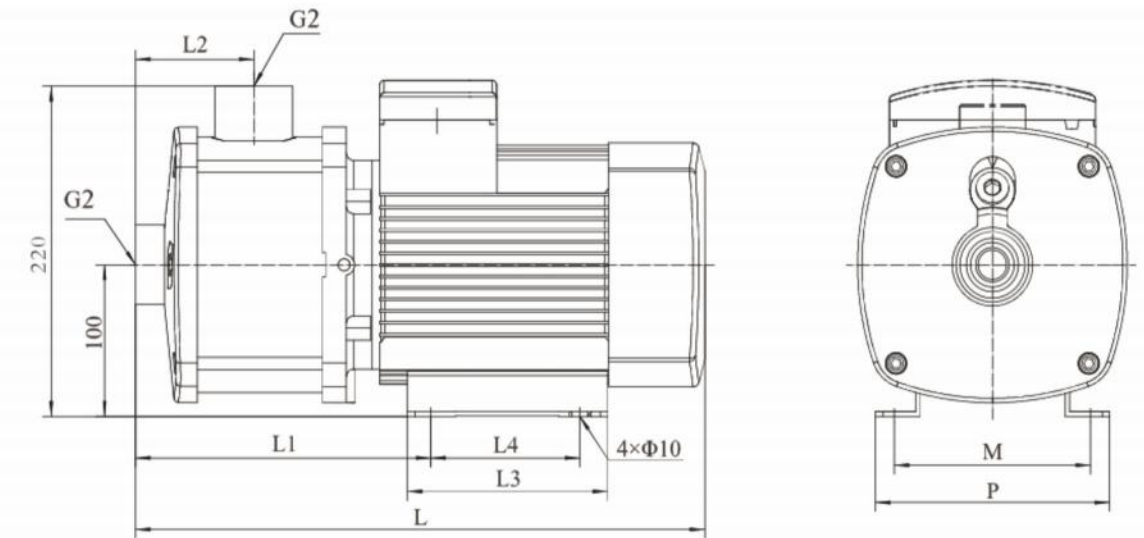
Performance Curve Of CHM



Performance Table Of CHM

Model	Power(kW)	Q[m³/h]	8	10	12	14	16	18	20	22
CHM16-10	1.1	H (m)	12.8	12.5	12	11.5	10.5	9.5	8	7
CHM16-20	2.2		26	25	24	23	21.7	20	18	15.5
CHM16-30	3		40	39	38	36	34	31.5	29	25
CHM16-40	4		53.5	52	50	48	45	42	38	33.5

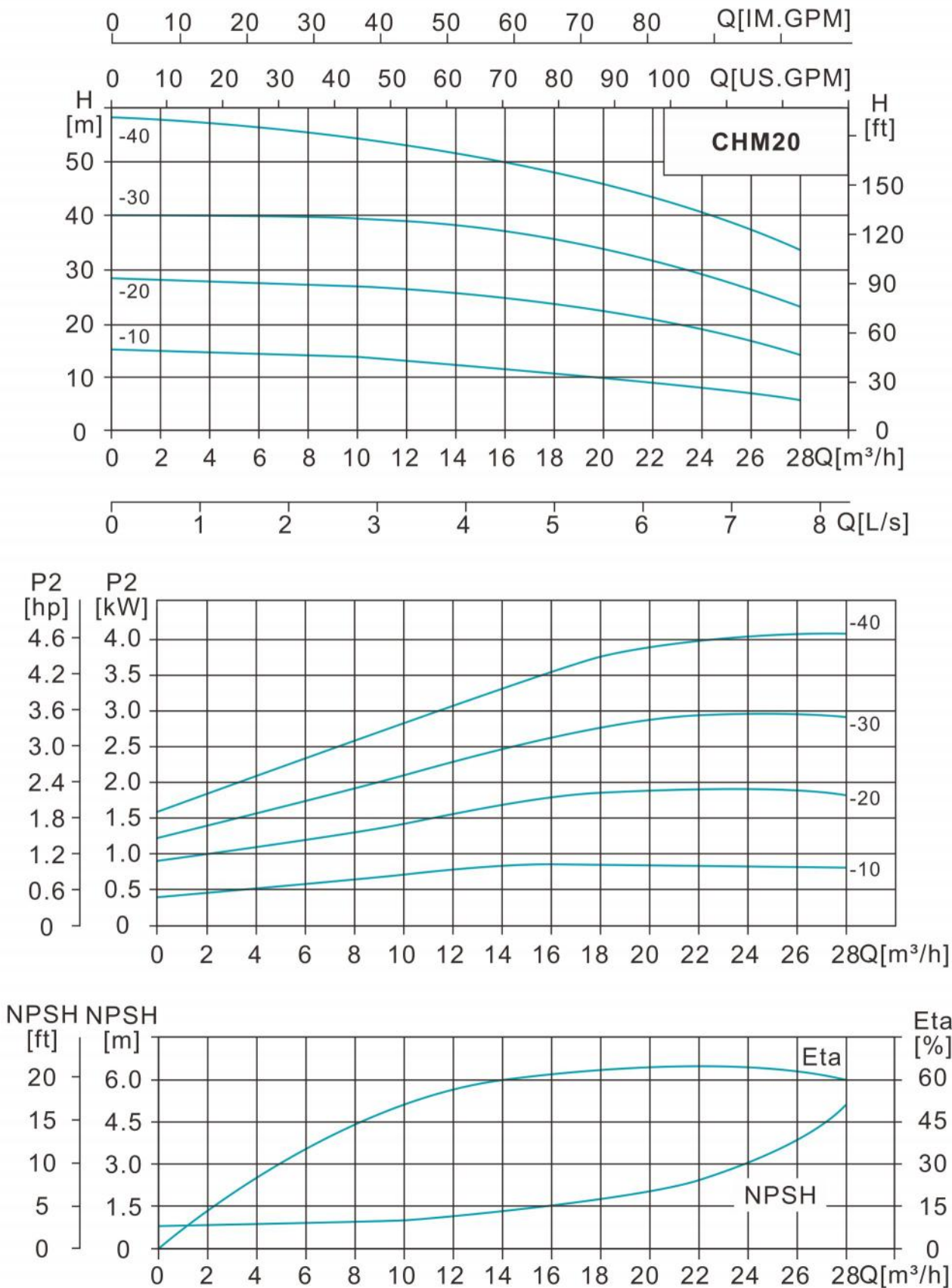
Installation Drawing Of CHM



Dimension And Weight Of CHM

Motor	Model	Dimension(mm)							Weight (kg)
		L	L1	L2	L3	L4	P	M	
Three-phase Single-phase	CHM16-10	425	162	105	136	96	160	126	17
	CHM16-20	485	218	105	170	140	200	160	22
	CHM16-30	516	220	135	170	140	200	160	30
	CHM16-40	578	280	195	170	140	200	160	35

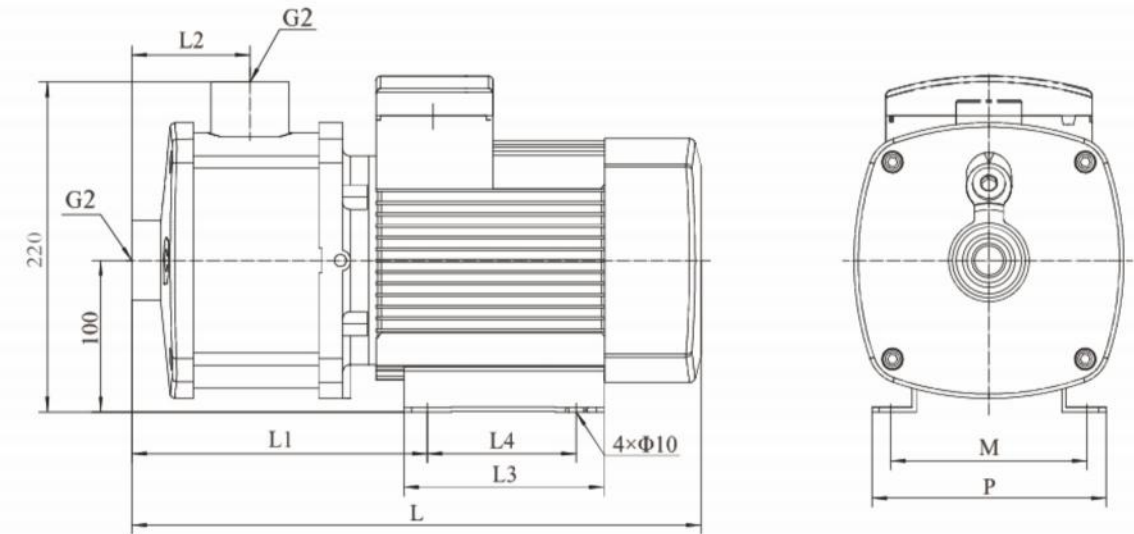
Performance Curve Of CHM



Performance Table Of CHM

Model	Power(kW)	Q[m³/h]	10	12	14	16	18	20	22	24	26	28
CHM20-10	1.1	H (m)	13.5	13	12.5	12	11	10	9	8	7	6
CHM20-20	2.2		27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5
CHM20-30	4		39.5	39	38	37.5	35.5	34	31.5	29	26	23
CHM20-40	4.4		53	52	51	50	48.5	46.5	43	40	36	32.5

Installation Drawing Of CHM



Dimension And Weight Of CHM

Motor	Model	Dimension(mm)							Weight (kg)
		L	L1	L2	L3	L4	P	M	
Three-phase Single-phase	CHM20-10	425	162	105	136	96	160	126	17
	CHM20-20	485	218	105	170	140	200	160	22
Three-phase	CHM20-30	516	220	135	170	140	200	160	35
	CHM20-40	578	280	195	170	140	200	160	38