CHL 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.

Electrical Machinery

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

CHL 4 - 30

- 30: Stages x10
- 4: Rated flow m³/h
- CHL: Horizontal Multistage Centrifugal Pump (stainless steel 304 or 316 for flow passage components)

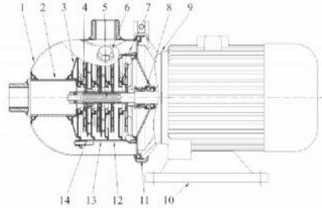
Pump

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.

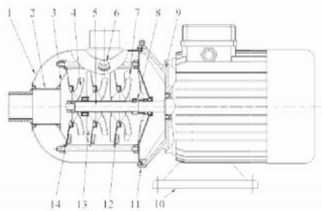
Performance Curve

The following instructions apply to the curves shown later:
1. All curves are based on the measured values of the motor at a constant speed of 2900rpm or 2950rpm.
2. The curve tolerance complies with ISO9906, Appendix A.
3. The test uses water without air at 20°C, with a kine-matic viscosity of 1mm ²/s
4. 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 CHL



CHL 2/4

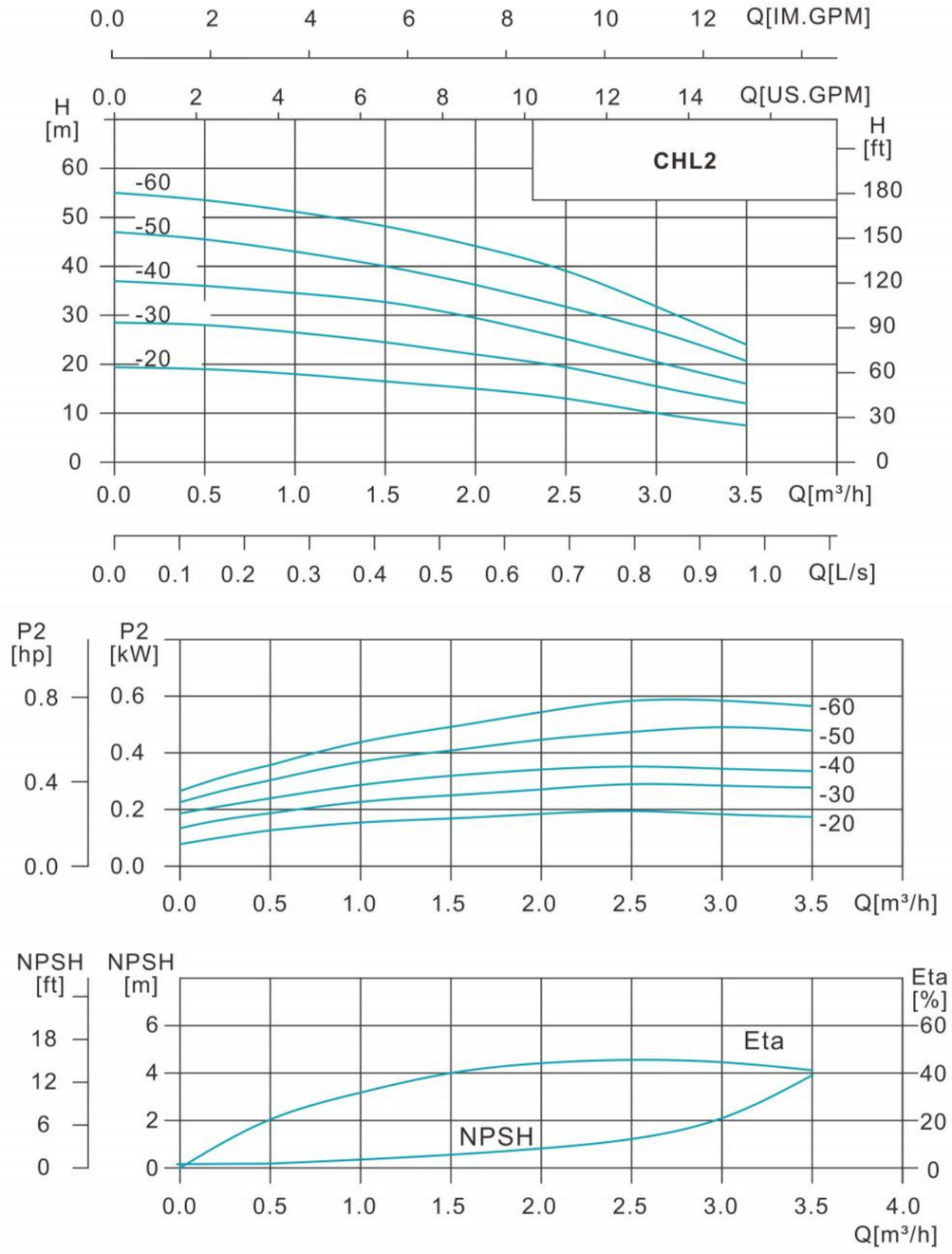


CHL 8/ 12/16/20

No.	Name	Material	AISI/ASTM
1	Inlet/outlet	Stainless steel	AISI304
2	Connecting pipe	Stainless steel	AISI304
3	Pressing plate	Stainless steel	AISI304
4	Impeller	Stainless steel	AISI304
5	Shaft	Stainless steel	AISI304
6	Plug	Stainless steel	AISI304
7	Outlet guide vane	Stainless steel	AISI304
8	Mechanical seal		
9	Motor end cover	Aluminium alloy	
10	Baseplate	Steel plate	AISI1015
11	Quick connector	Stainless steel	AISI304
12	Guide vane	Stainless steel	AISI304
13	Supporting guide vanes	Stainless steel	AISI304

Performance Curve Of CHL

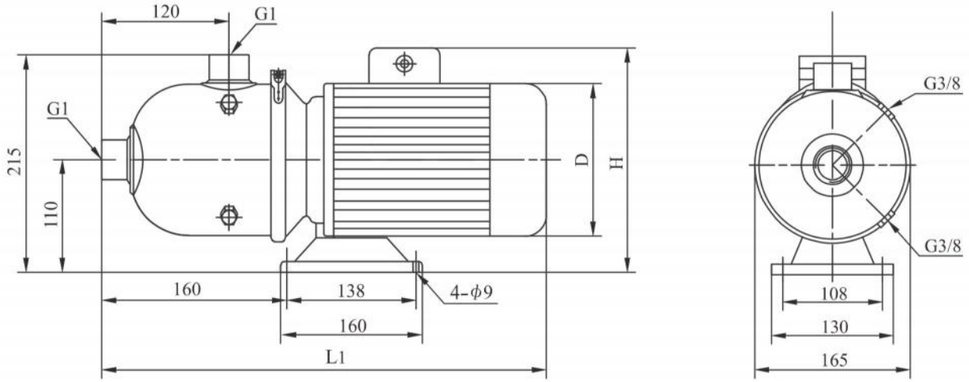
2900rpm



Performance Table Of CHL

Model	Power(kW)	Q[m³/h]	0.5	1.0	1.5	2.0	2.5	3.0	3.5
CHL2-20	0.37	H (m)	19	18	16.5	15	13	10	7.5
CHL2-30	0.37		28	26.5	24.5	22	19	15.5	12
CHL2-40	0.55		36	34.5	33	29	25	20.5	16
CHL2-50	0.55		45.5	43	40	36	31.5	26.5	20.5
CHL2-60	0.75		53.5	51	48	44	39	32	24

Installation Drawing Of CHL

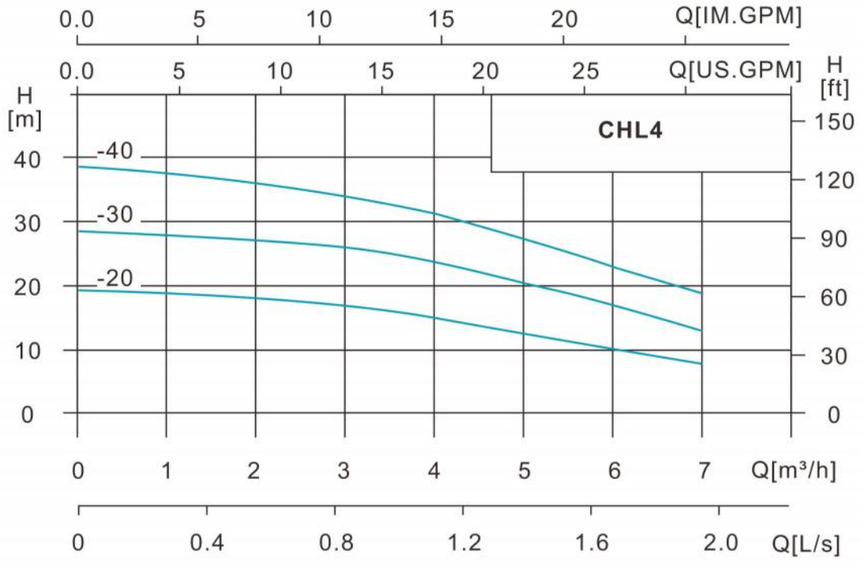


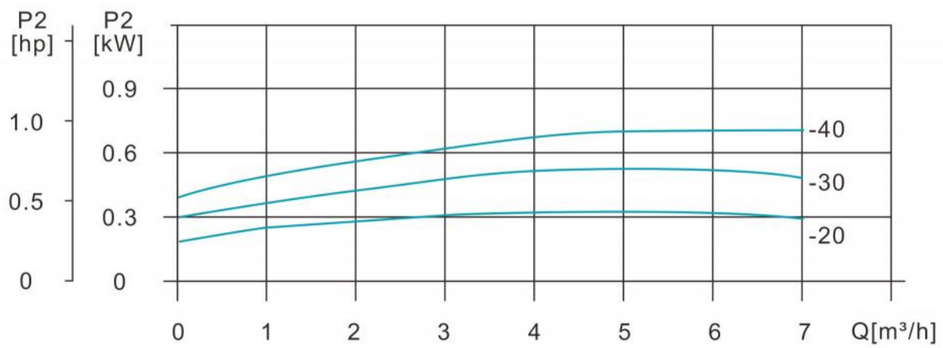
Dimension And Weight Of CHL

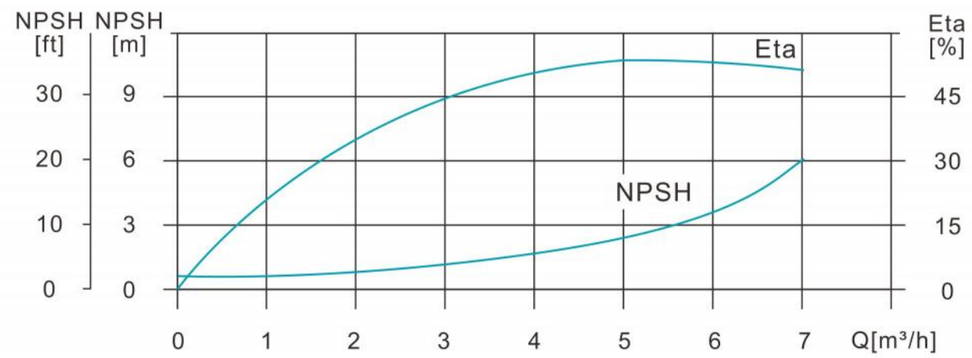
Motor	Model	Dimension(mm)			Weight (kg)
		L1	D	H	
Three-phase Single-phase	CHL2-20	400	145	215/230	13
	CHL2-30	400	145	215/230	13
	CHL2-40	400	145	215/230	13
	CHL2-50	400	145	215/230	13
	CHL2-60	445	170	225/245	15

Performance Curve Of CHL

2900rpm



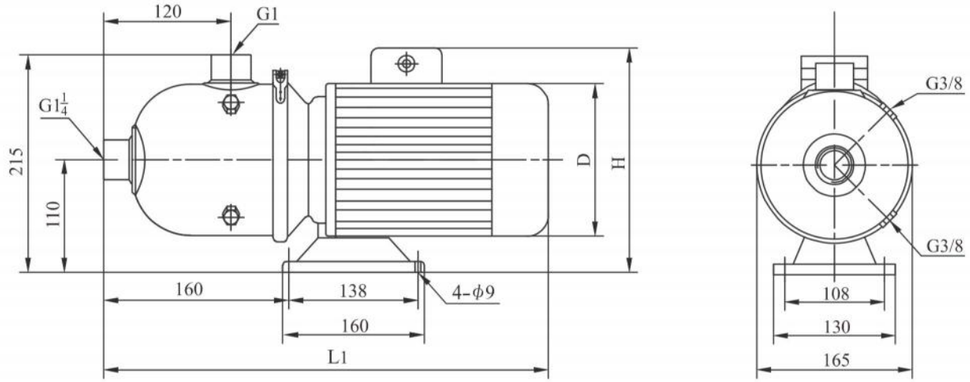




Performance Table Of CHL

Model	Power(kW)	Q[m³/h]	1	2	3	4	5	6	7
CHL4-20	0.37	H (m)	19	18	17	15	12.5	10	8
CHL4-30	0.55		28	27	26	23.5	20.5	17	13
CHL4-40	0.75		37.5	36	34	31	27	23	19

Installation Drawing Of CHL

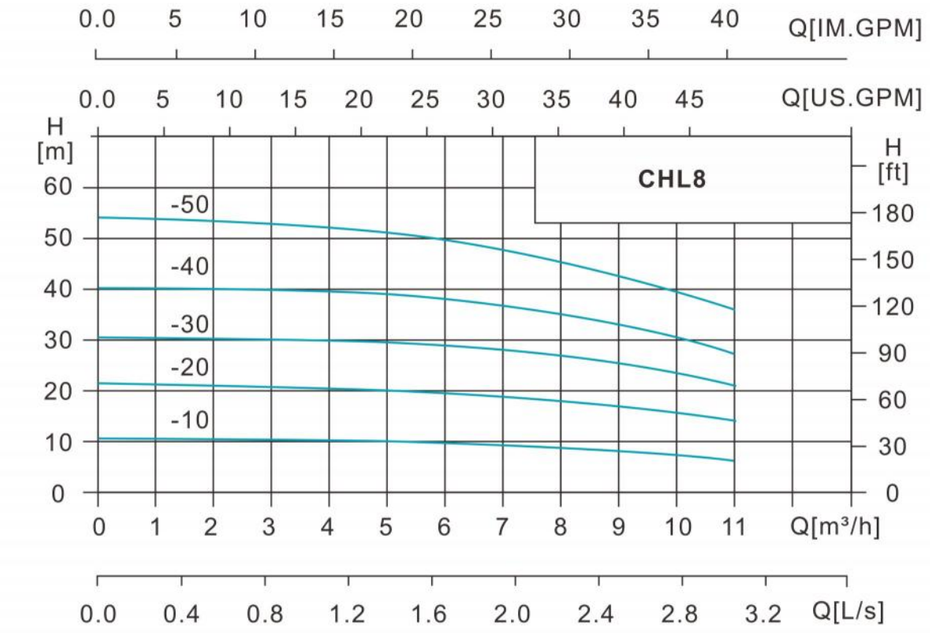


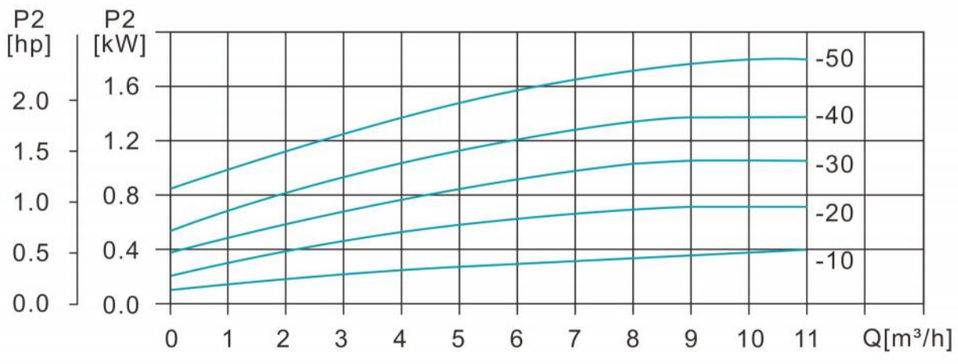
Dimension And Weight Of CHL

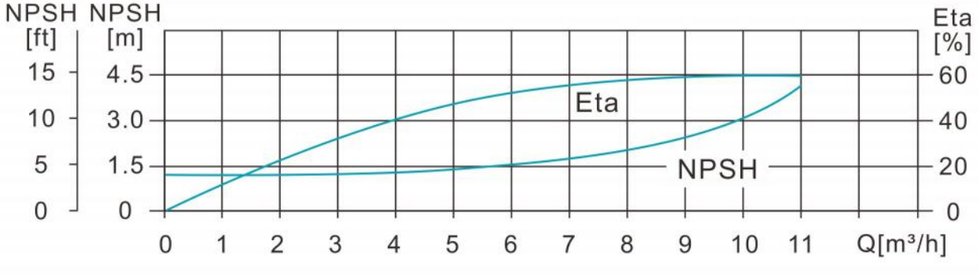
Motor	Model	Dimension(mm)			Weight (kg)
		L1	D	H	
Three-phase Single-phase	CHL4-20	400	145	215/230	12
	CHL4-30	400	145	215/230	12
	CHL4-40	445	170	225/245	15

Performance Curve Of CHL

2900rpm



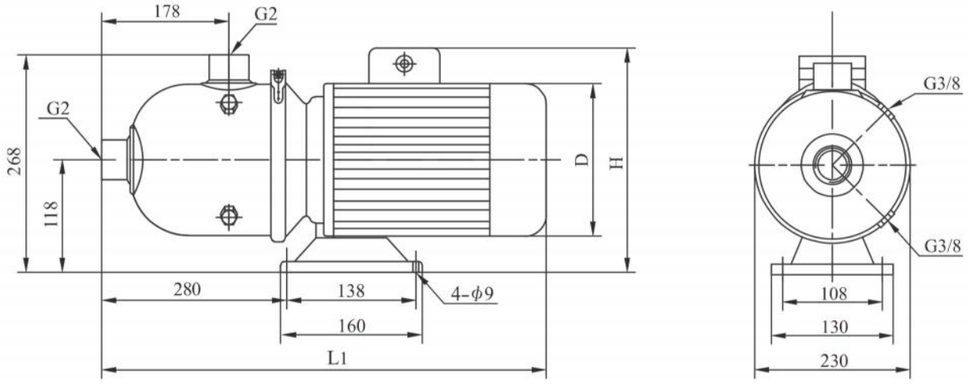




Performance Table Of CHL

Model	Power(kW)	Q[m³/h]	5	6	7	8	9	10	11
CHL8-10	0.75	H (m)	10	9.5	9.3	9	8	7.5	7
CHL8-20	0.75		20	19.5	19	18	17	15.5	14
CHL8-30	1.1		29.5	29	28	27	25	23	21
CHL8-40	1.5		39	38	37	35	33	30.5	27.5
CHL8-50	2.2		51	49.5	47.5	45	42.5	39.5	36

Installation Drawing Of CHL

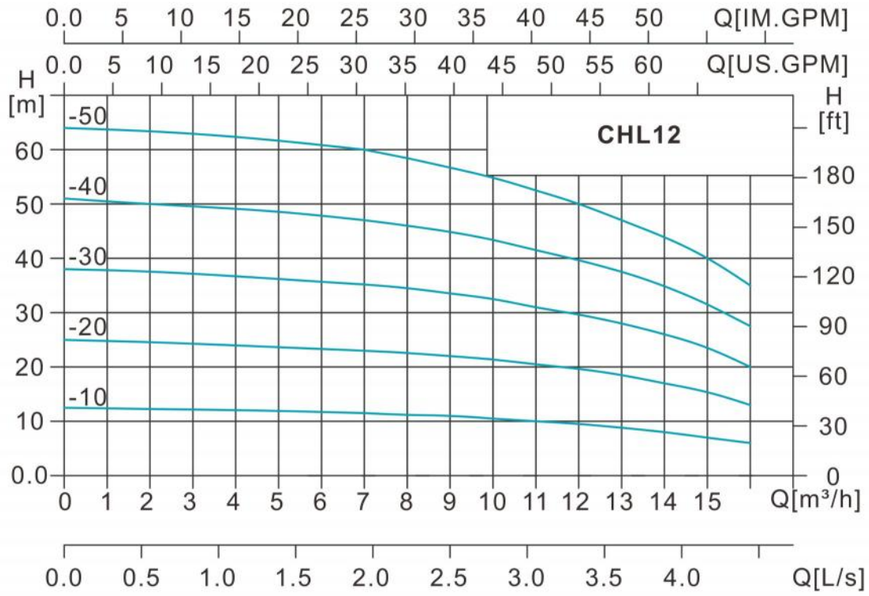


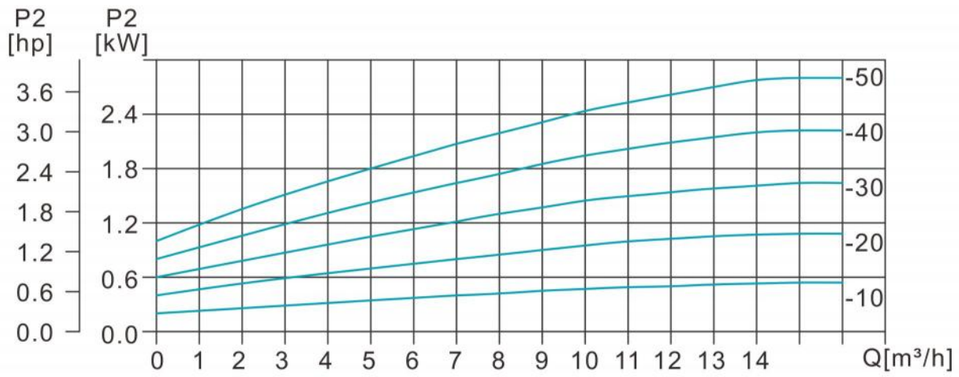
Dimension And Weight Of CHL

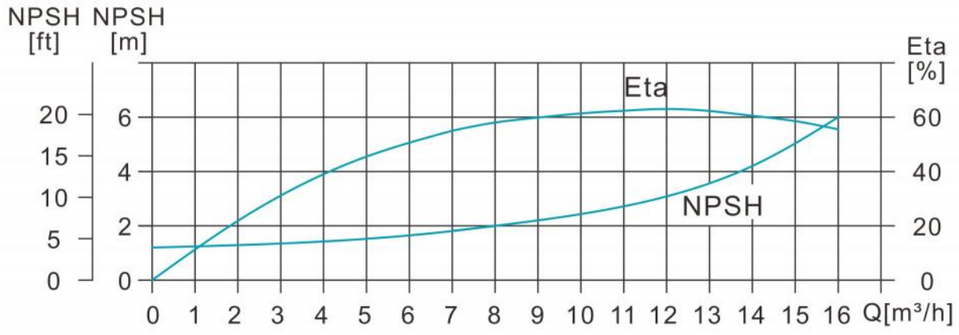
Motor	Model	Dimension(mm)			Weight (kg)
		L1	D	H	
Three-phase Single-phase	CHL8-10	560	170	230/265	20
	CHL8-20	560	170	230/265	20
	CHL8-30	560	170	230/265	25
	CHL8-40	580	180	240/270	25
	CHL8-50	580	180	240/270	30

Performance Curve Of CHL

2900rpm



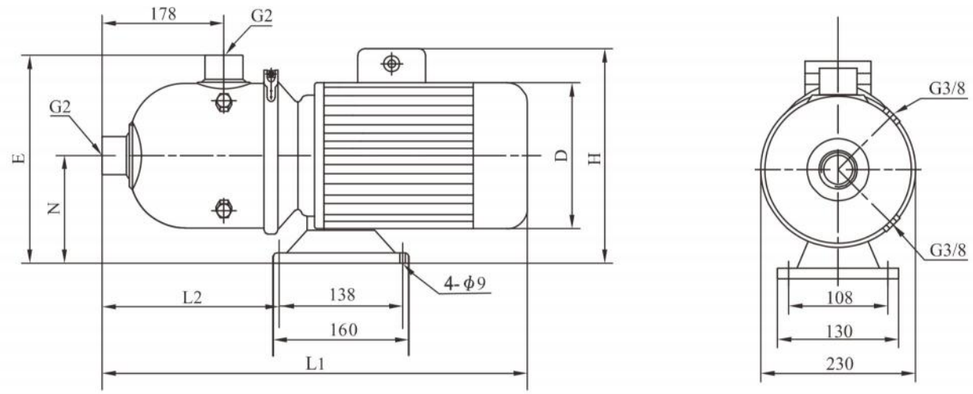




Performance Table Of CHL

Model	Power(kW)	Q[m³/h]	7	8	9	10	11	12	13	14	15	16
CHL12-10	0.75	H (m)	11.5	11.2	11	10.5	10	9.5	9	8	7	6
CHL12-20	1.2		23	22.5	22	21.5	20.5	19.5	18.5	17	15.5	13
CHL12-30	1.8		35	34.5	33.5	32.5	31	29.5	28	26	23.5	20
CHL12-40	2.4		47	46	45	43.5	41.5	39.5	37.5	35	31.5	27.5
CHL12-50	3		60	58	56.5	55	52.5	50	47	44	40	35

Installation Drawing Of CHL

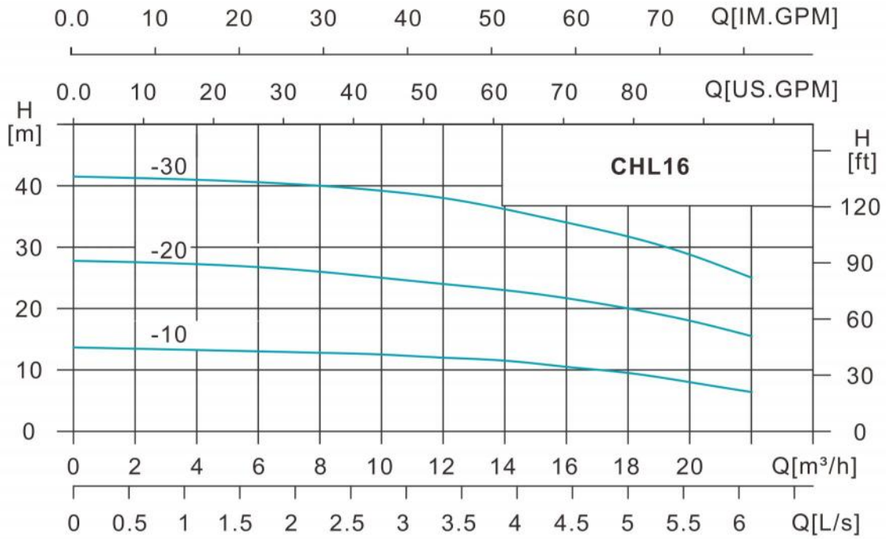


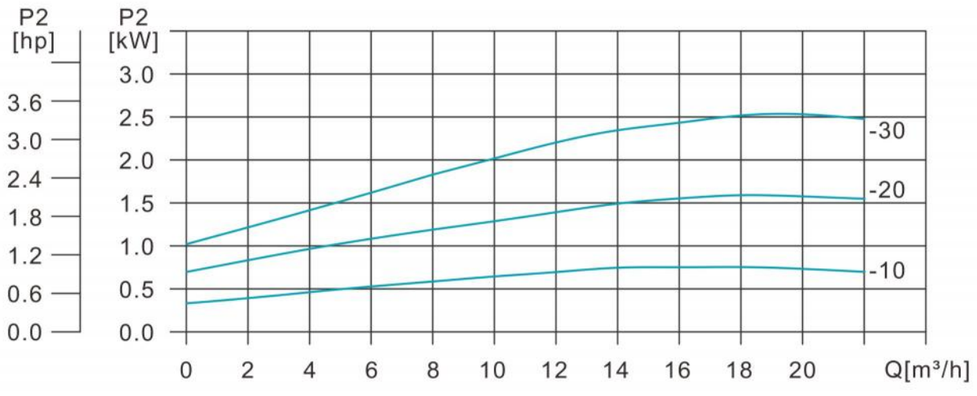
Dimension And Weight Of CHL

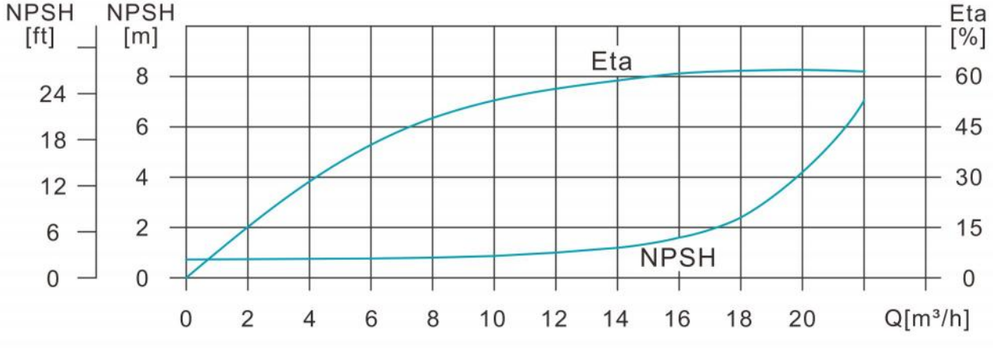
Motor	Model	Dimension(mm)						Weight (kg)
		L1	L2	H	D	E	N	
Three-phase Single-phase	CHL12-10	560	280	230/265	170	268	118	20
	CHL12-20	560	280	230/265	170	268	118	21
	CHL12-30	580	280	240/270	180	268	118	25
	CHL12-40	580	280	240/270	180	268	118	29
	CHL12-50	610	270	270/	195	276	126	34

Performance Curve Of CHL

2900rpm



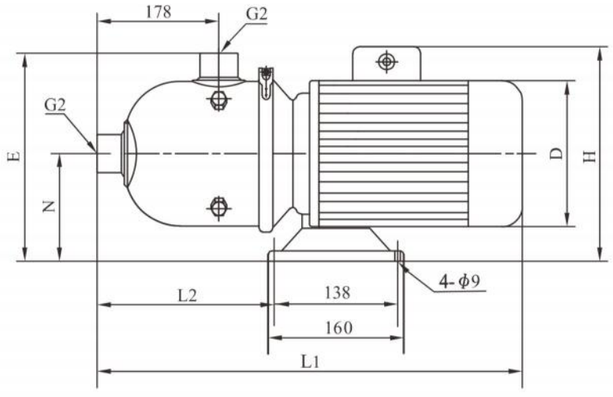


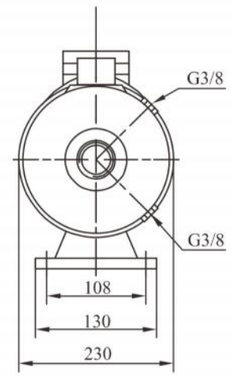


Performance Table Of CHL

Model	Power(kW)	Q[m³/h]	8	10	12	14	16	18	20	22
CHL16-10	1.1	H (m)	12.8	12.5	12	11.5	10.5	9.5	8	7
CHL16-20	2.2		26	25	24	23	21.7	20	18	15.5
CHL16-30	3		40	39	38	36	34	31.5	29	25

Installation Drawing Of CHL



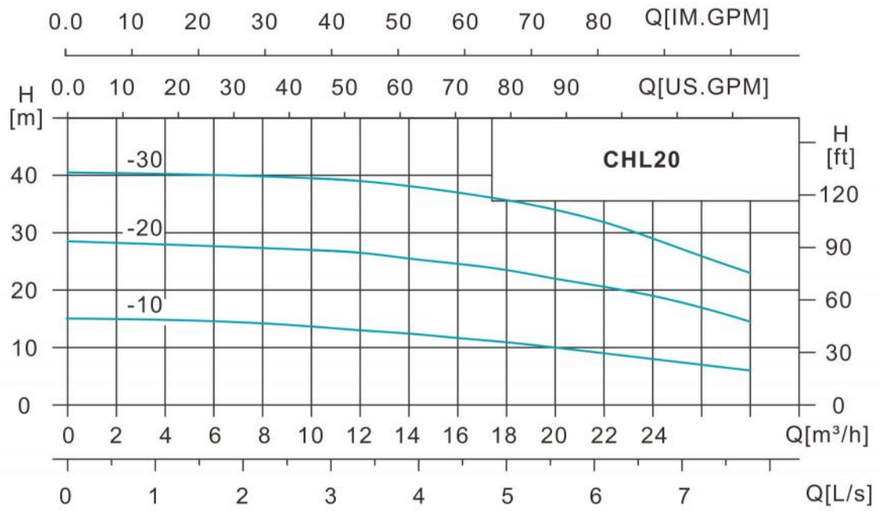


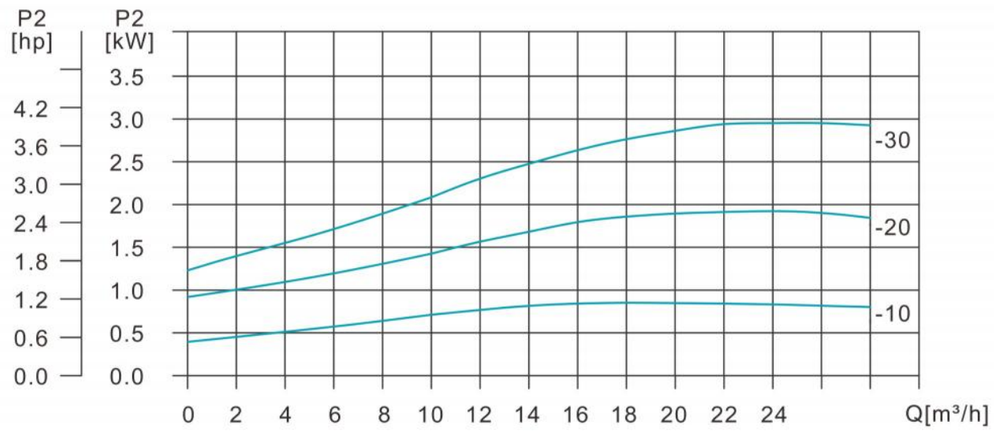
Dimension And Weight Of CHL

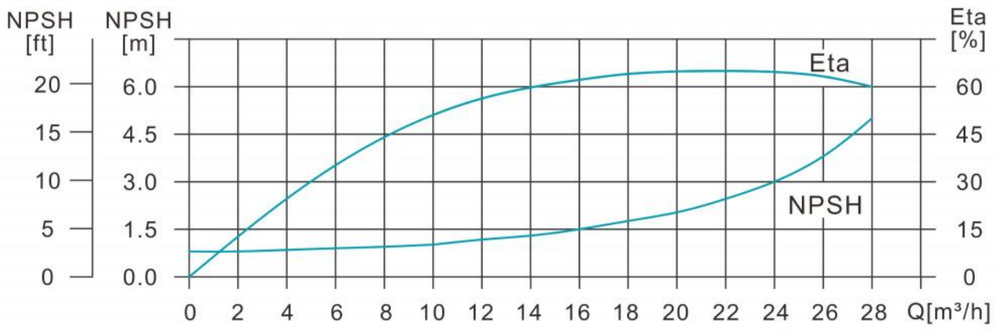
Motor	Model	Dimension(mm)						Weight (kg)
		L1	L2	E	N	D	H	
Three-phase Single-phase	CHL16-10	560	280	268	118	170	230/265	20
	CHL16-20	580	280	268	118	180	240/270	27
	CHL16-30	610	270	276	126	195	270/	34

Performance Curve Of CHL

2900rpm



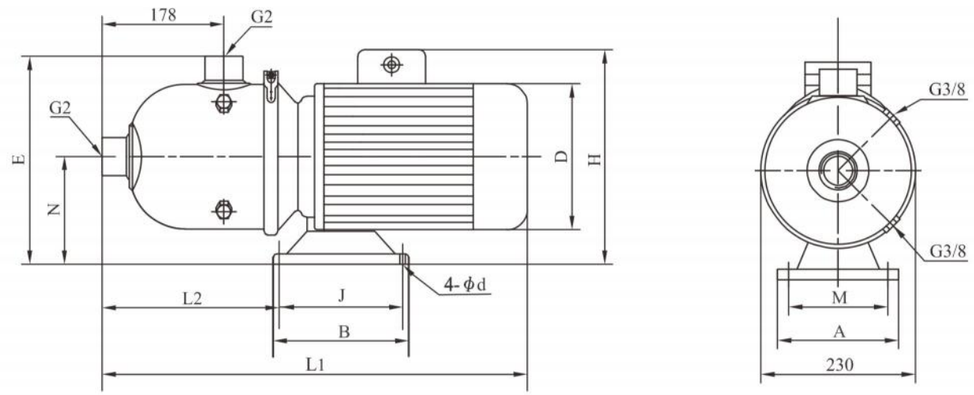




Performance Table Of CHL

Model	Power(kW)	Q[m³/h]	10	12	14	16	18	20	22	24	26	28
CHL20-10	1.1	H (m)	13.5	13	12.5	12	11	10	9	8	7	6
CHL20-20	2.2		27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5
CHL20-30	4		39.5	39	38	37.5	35.5	34	31.5	29	26	23

Installation Drawing Of CHL



Dimension And Weight Of CHL

Motor	Model	Dimension(mm)											Weight (kg)
		L1	L2	H	D	E	N	A	M	B	J	d	
Three-phase Single-phase	CHL20-10	560	280	230/265	170	268	118	130	108	160	138	9	21
	CHL20-20	580	280	240/270	180	268	118	130	108	160	138	9	28
	CHL20-30	650	360	270/	220	270	120	230	190	170	140	12	42