



# CHLF(T) 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.

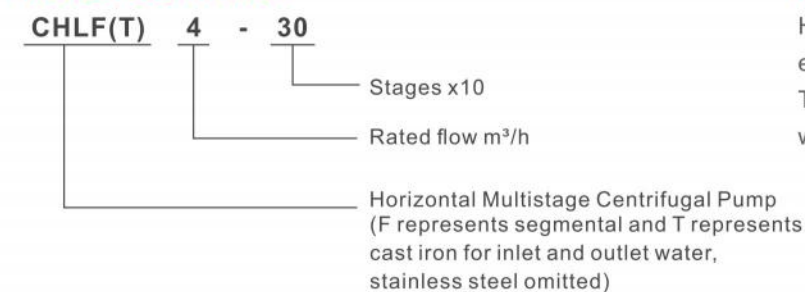
Protection level: IP55

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.

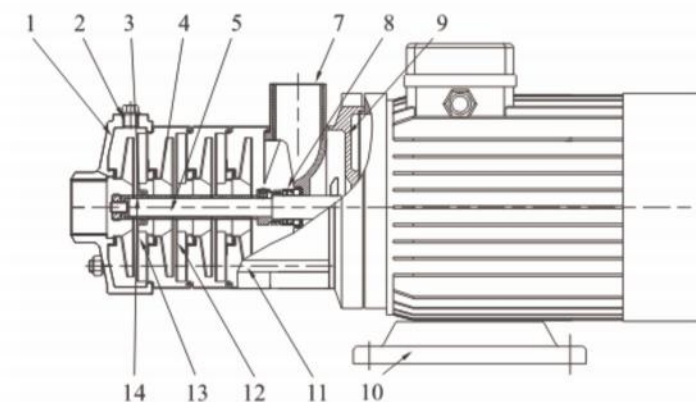
The compact structure makes the pump size very small, with axial inlet and radial outlet.

## 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 1mm<sup>2</sup>/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 CHLF(T)



No.	Name	Material	AISI/ASTM
2	Plug	Stainless steel	AISI304
3	Bearing	Tungsten carbide	
4	Impeller	Stainless steel	AISI304
5	Shaft	Stainless steel	AISI304
8	Mechanical seal		
9	Motor end cover	Aluminium alloy	
10	Baseplate	Steel plate	AISI1015
11	Tie rod	Stainless steel	AISI304
12	Guide vane	Stainless steel	AISI304
13	Supporting guide vanes	Stainless steel	AISI304
14	Impeller spacer	Stainless steel	AISI304

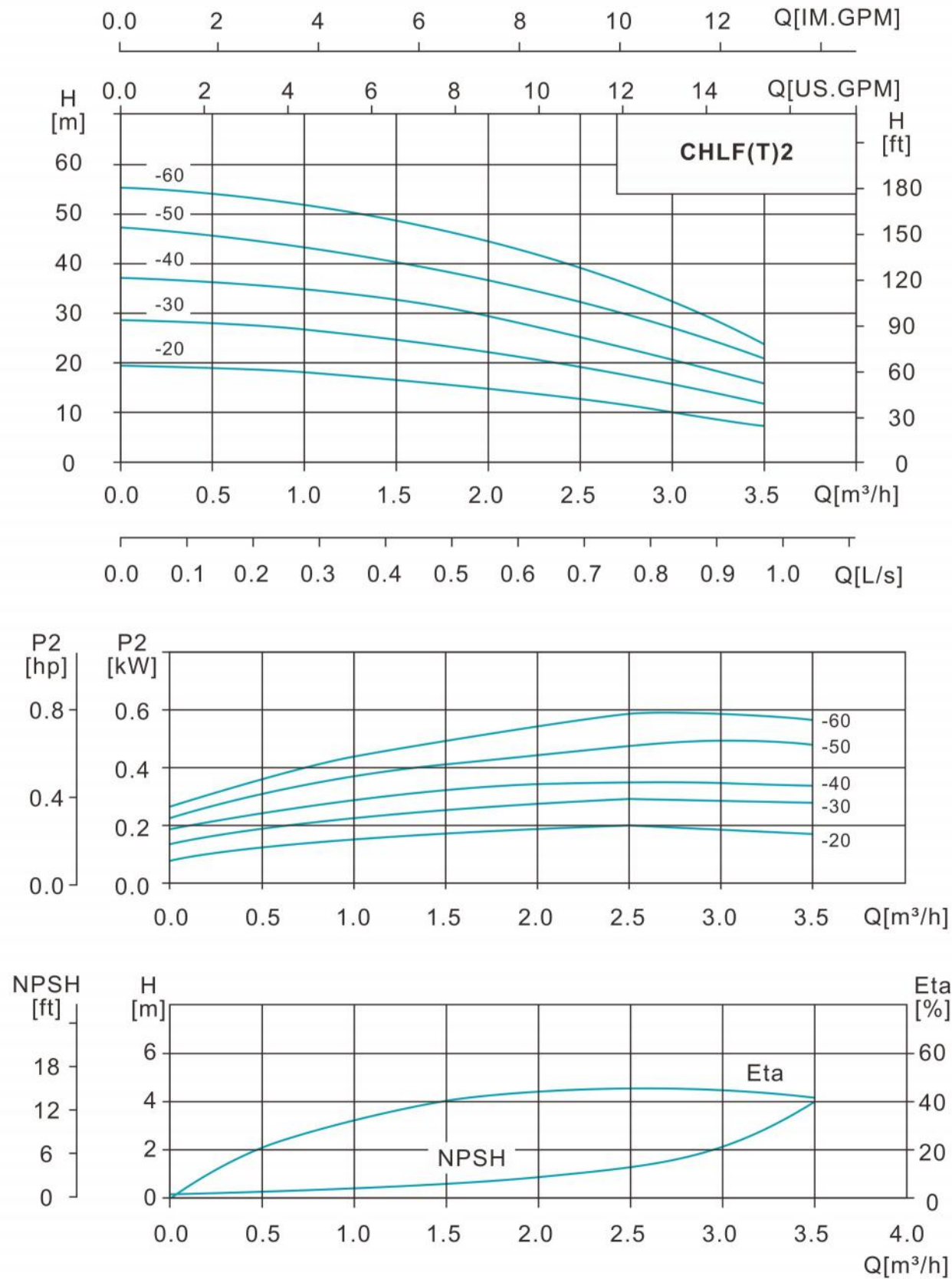
CHLF			
1	Inlet	Stainless steel	AISI304
7	Outlet	Stainless steel	AISI304

CHLF(T)			
1	Inlet	Cast iron	ASTM25B
7	Outlet	Cast iron	ASTM23B

### Performance Curve Of CHLF(T)

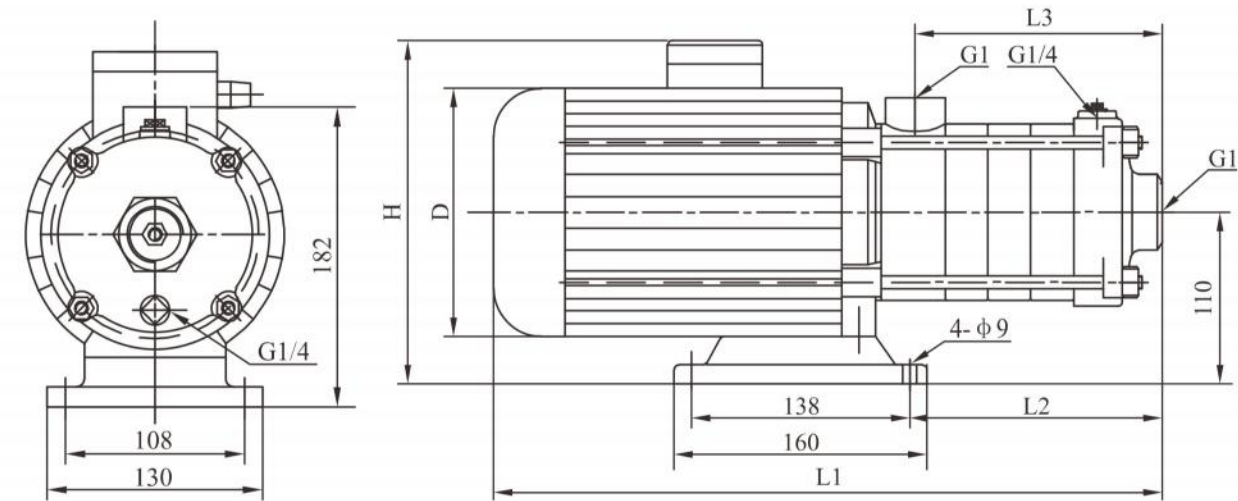
2900rpm



### Performance Table Of CHLF(T)

Model	Power(kW)	Q[m³/h]	0.5	1.0	1.5	2.0	2.5	3.0	3.5
CHLF(T)2-20	0.37	H (m)	19	18	16.5	15	13	10	7.5
CHLF(T)2-30	0.37		28	26.5	24.5	22	19	15.5	12
CHLF(T)2-40	0.55		36	34.5	33	29	25	20.5	16
CHLF(T)2-50	0.55		45.5	43	40	36	31.5	26.5	20.5
CHLF(T)2-60	0.75		53.5	51	48	44	39	32	24

### Installation Drawing Of CHLF(T)

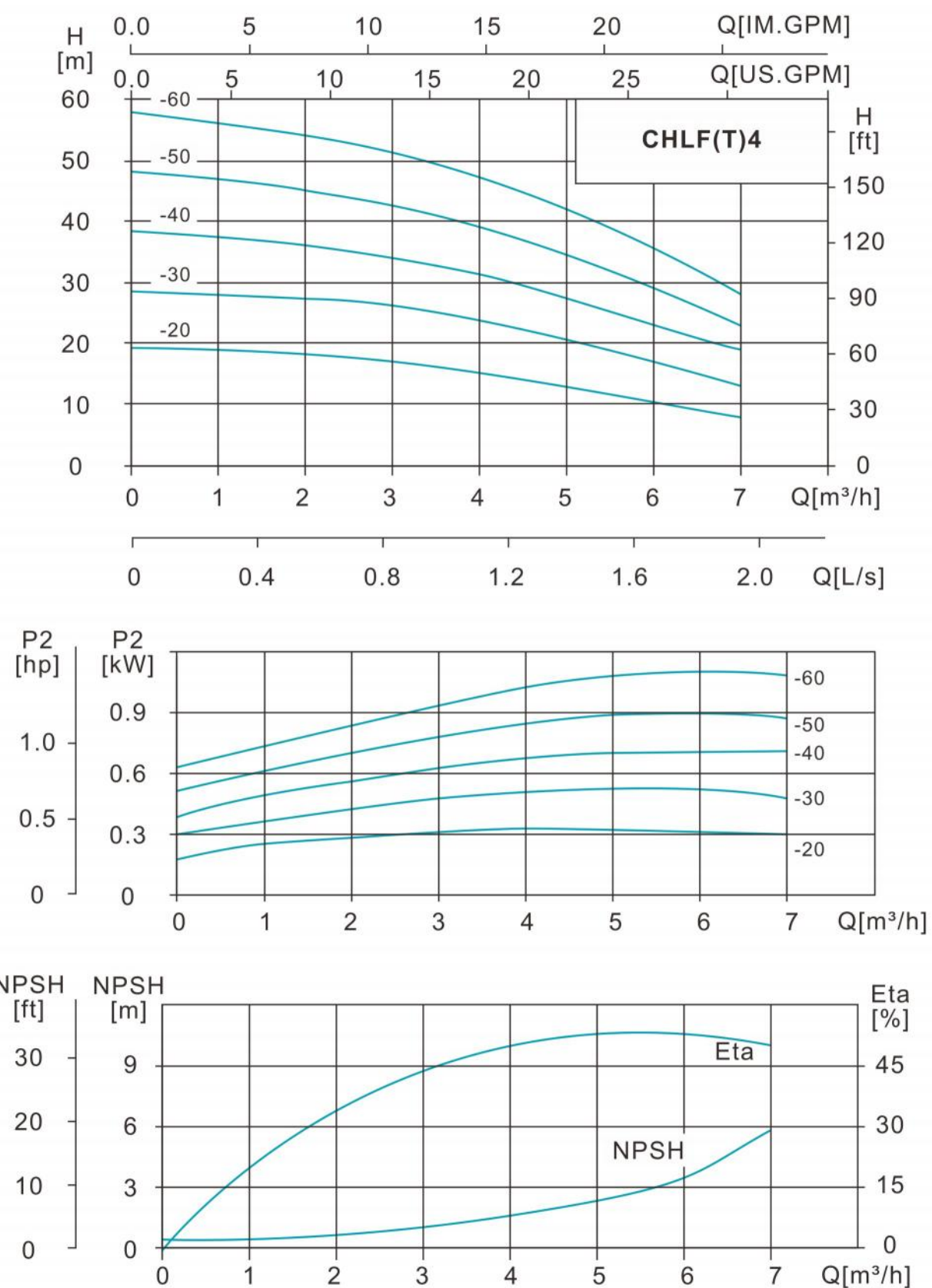


### Dimension And Weight Of CHLF(T)

Motor	Model	Dimension(mm)					Weight (kg)
		L	L1	L2	D	H	
Three-phase Single-phase	CHLF(T)2-20	305	87	84	145	215/230	15
	CHLF(T)2-30	323	105	102	145	215/230	15
	CHLF(T)2-40	341	123	120	145	215/230	15
	CHLF(T)2-50	359	141	138	145	215/230	15
	CHLF(T)2-60	422	159	156	170	225/245	17

### Performance Curve Of CHLF(T)

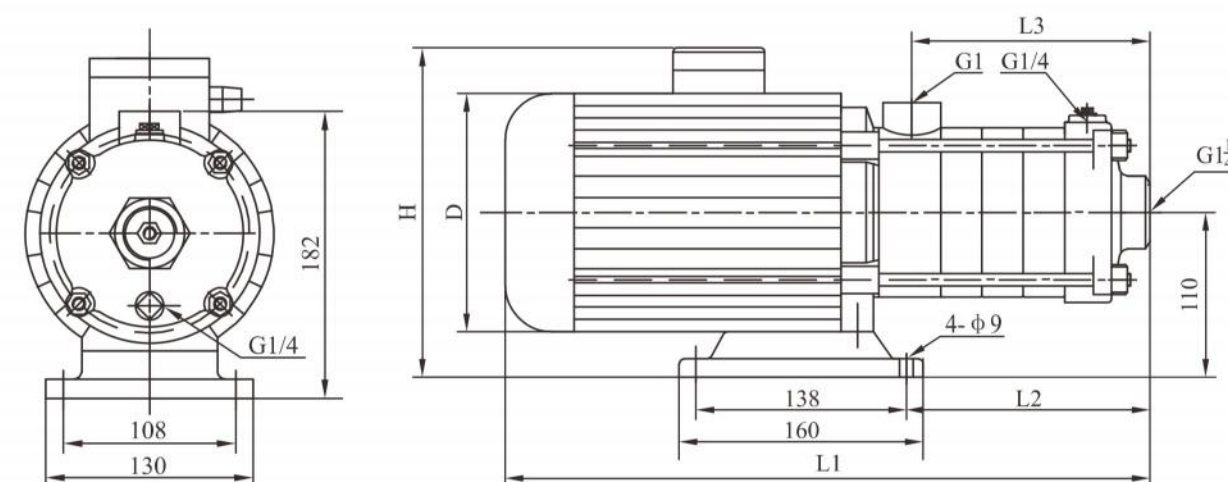
2900rpm



### Performance Table Of CHLF(T)

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

### Installation Drawing Of CHLF(T)

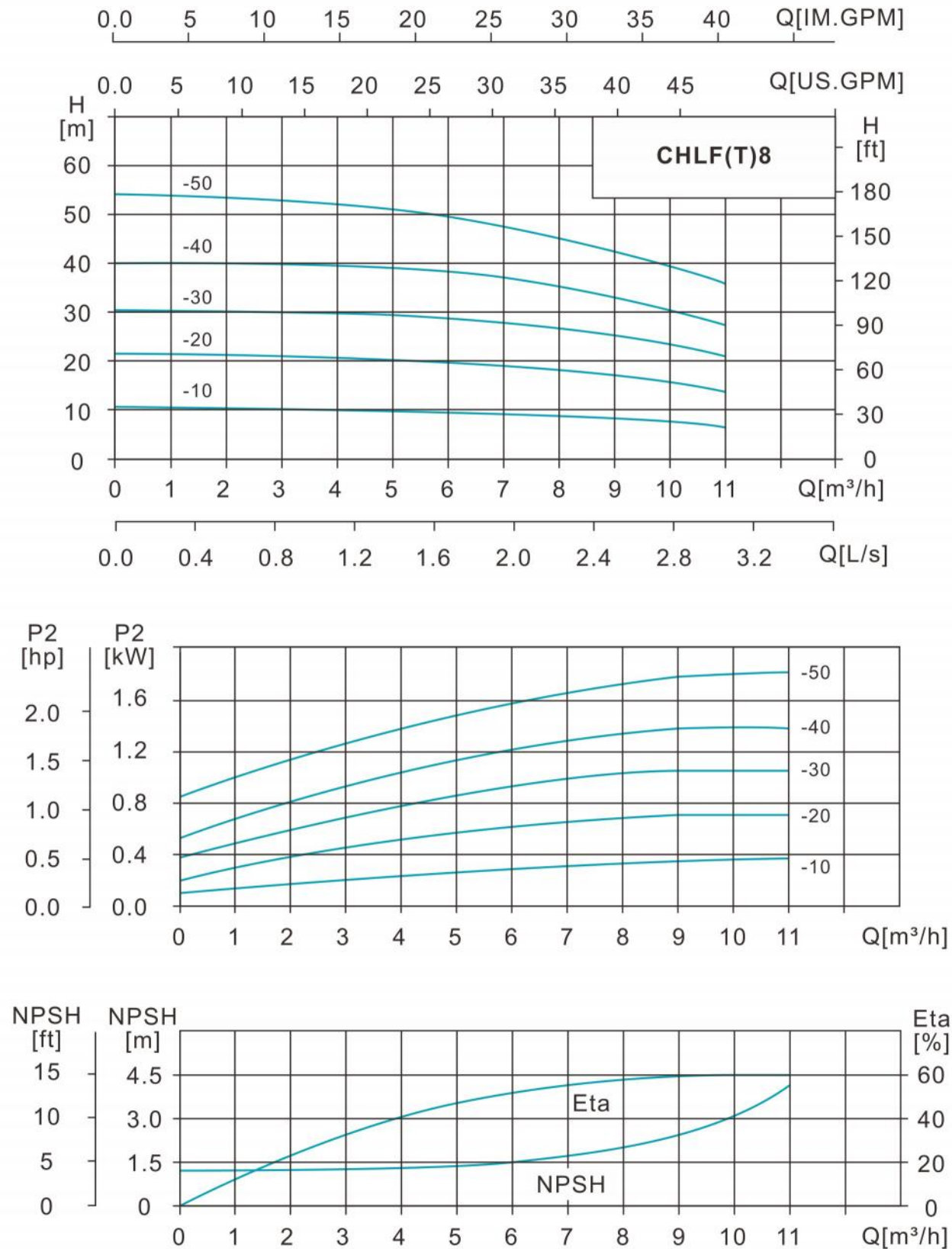


### Dimension And Weight Of CHLF(T)

Motor	Model	Dimension(mm)					Weight (kg)
		L	L1	L2	D	H	
Three-phase Single-phase	CHLF(T)4-20	329	105	102	145	215/230	15
	CHLF(T)4-30	356	132	129	145	215/230	15
	CHLF(T)4-40	416	162	156	170	225/245	17
	CHLF(T)4-50	455	188	183	170	225/245	17
	CHLF(T)4-60	482	213	210	170	225/245	17

### Performance Curve Of CHLF(T)

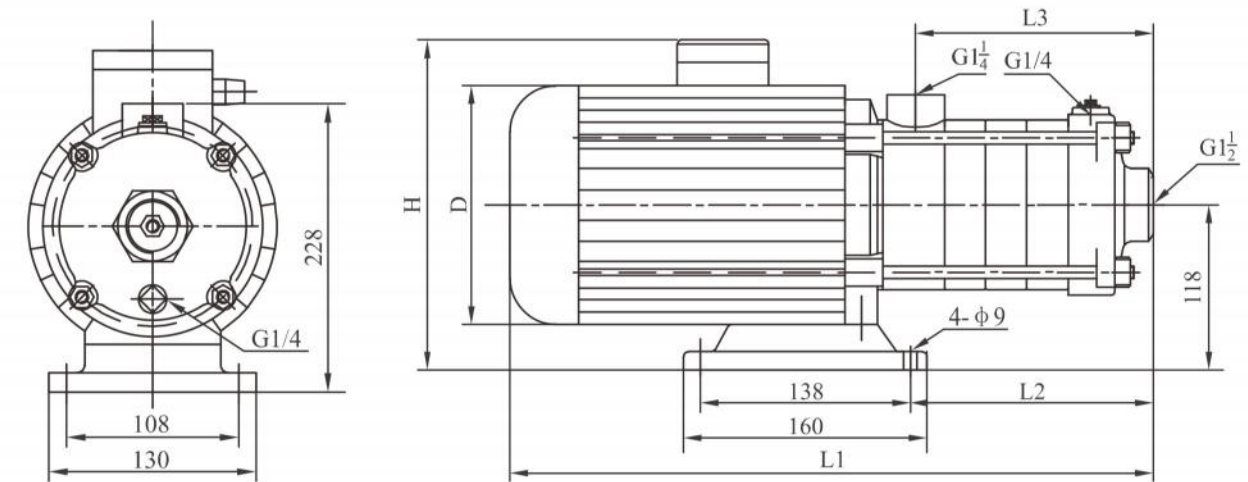
2900rpm



### Performance Table Of CHLF(T)

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

### Installation Drawing Of CHLF(T)

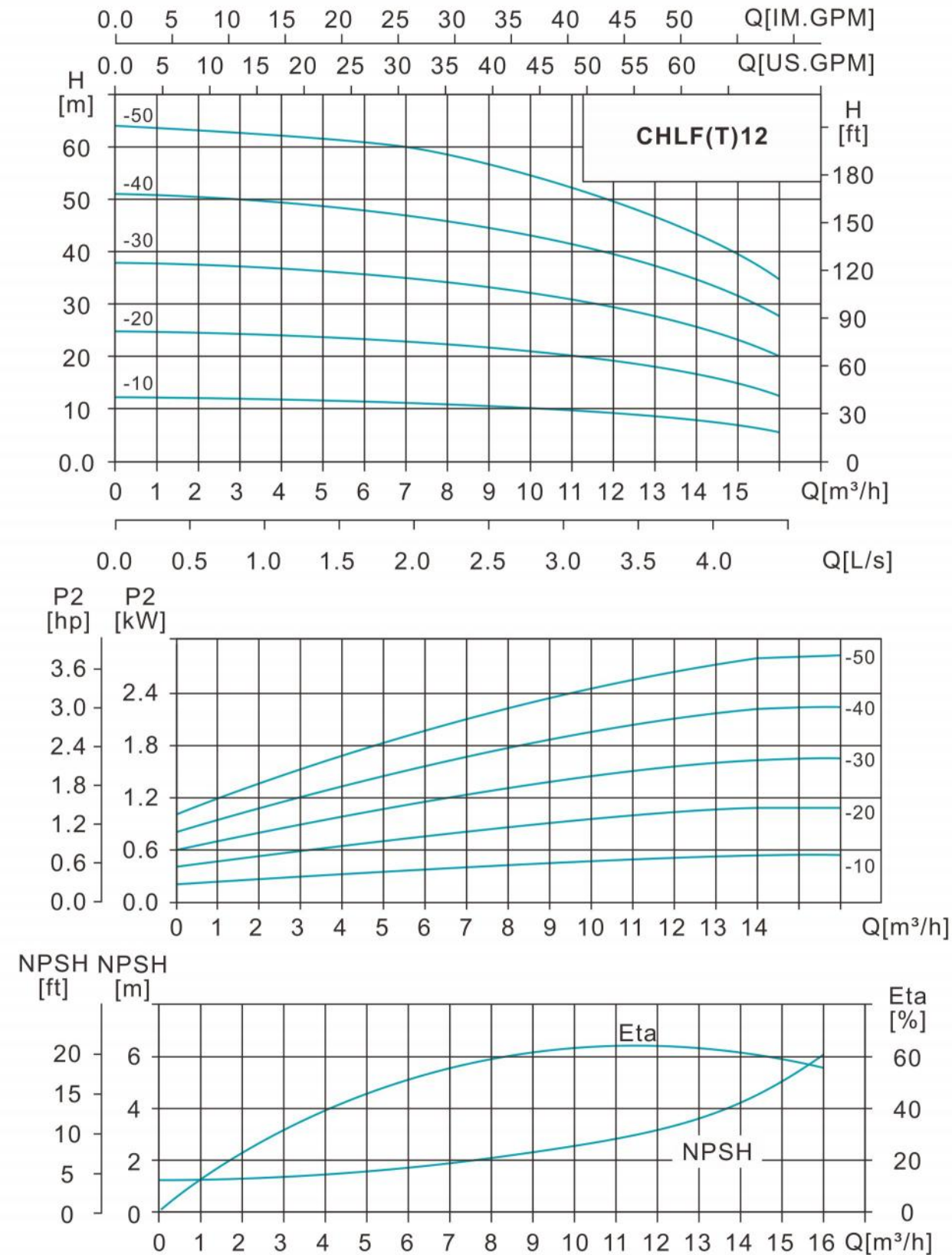


### Dimension And Weight Of CHLF(T)

Motor	Model	Dimension(mm)					Weight (kg)
		L	L1	L2	D	H	
Three-phase Single-phase	CHLF(T)8-10	395	126	108	170	230/265	20
	CHLF(T)8-20	395	126	108	170	230/265	20
	CHLF(T)8-30	425	156	138	170	230/265	25
	CHLF(T)8-40	490	186	168	180	240/270	28
	CHLF(T)8-50	520	216	198	180	240/270	30

### Performance Curve Of CHLF(T)

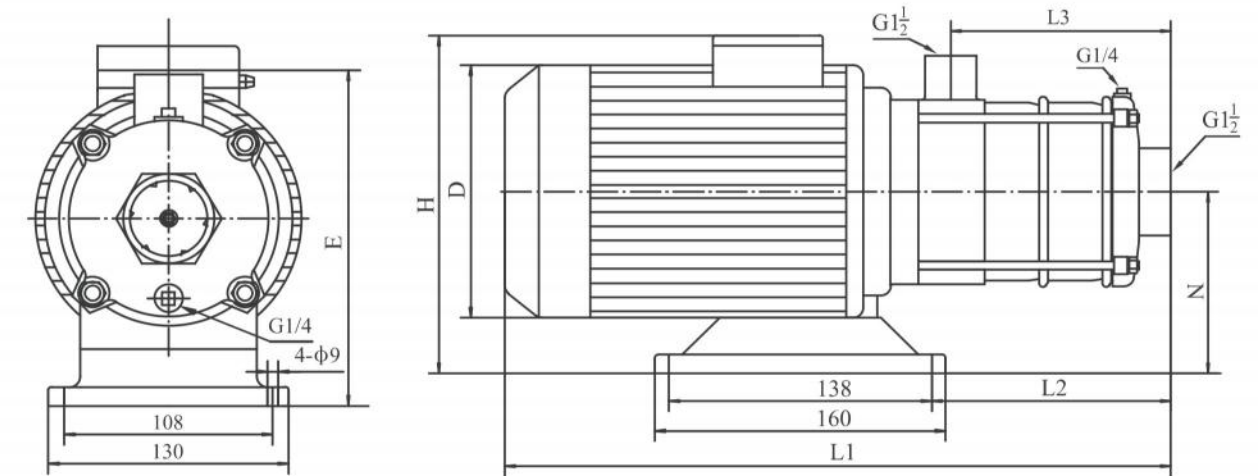
2900rpm



### Performance Table Of CHLF(T)

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

### Installation Drawing Of CHLF(T)

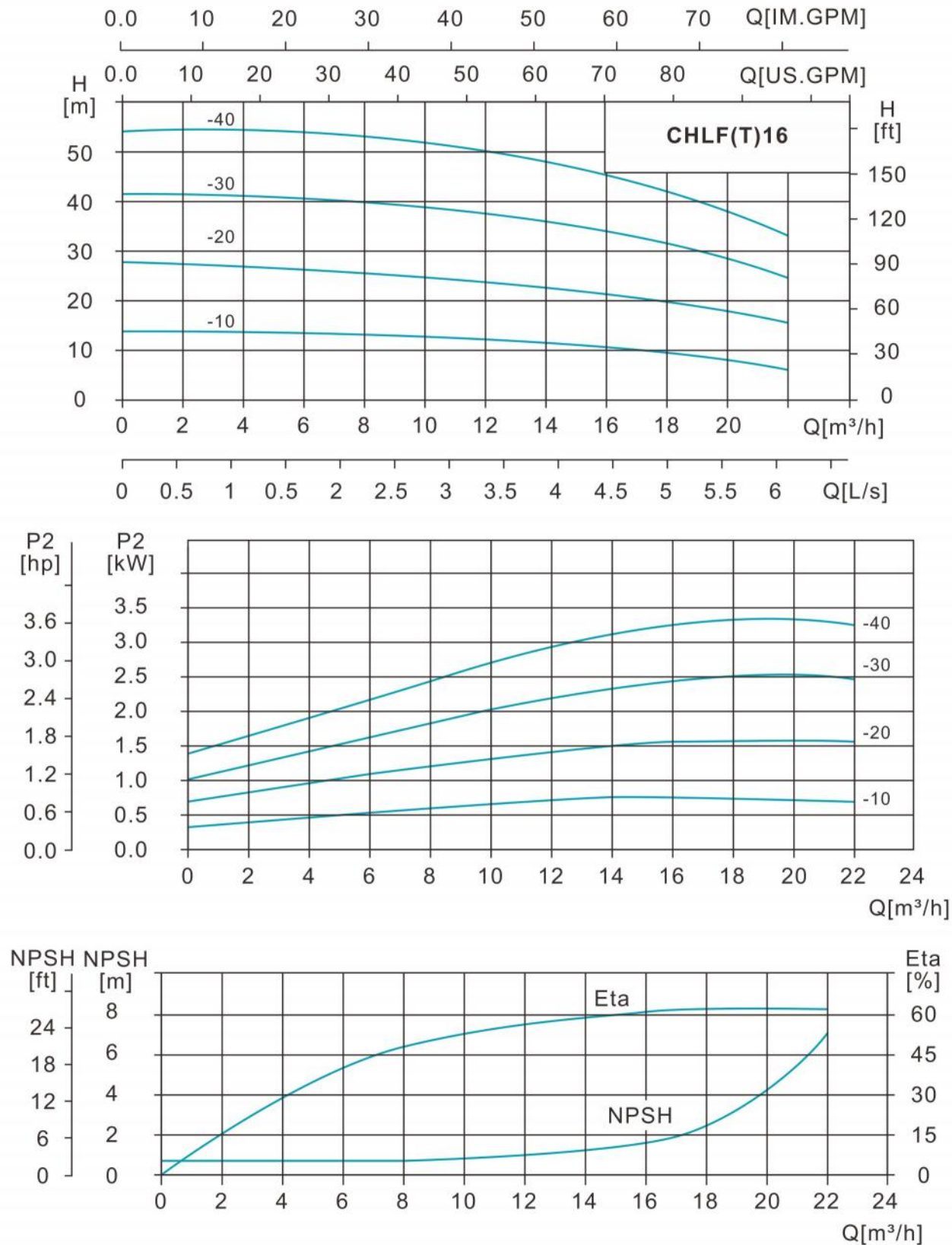


### Dimension And Weight Of CHLF(T)

Motor	Model	Dimension(mm)							Weight (kg)
		L1	L2	L3	H	D	E	N	
Three-phase Single-phase	CHLF(T)12-10	395	126	108	230/265	170	228	118	20
	CHLF(T)12-20	395	126	108	230/265	170	228	118	21
	CHLF(T)12-30	460	156	138	240/270	180	228	118	25
	CHLF(T)12-40	490	186	168	240/270	180	228	118	29
	CHLF(T)12-50	555	216	198	270/	195	240	126	34

### Performance Curve Of CHLF(T)

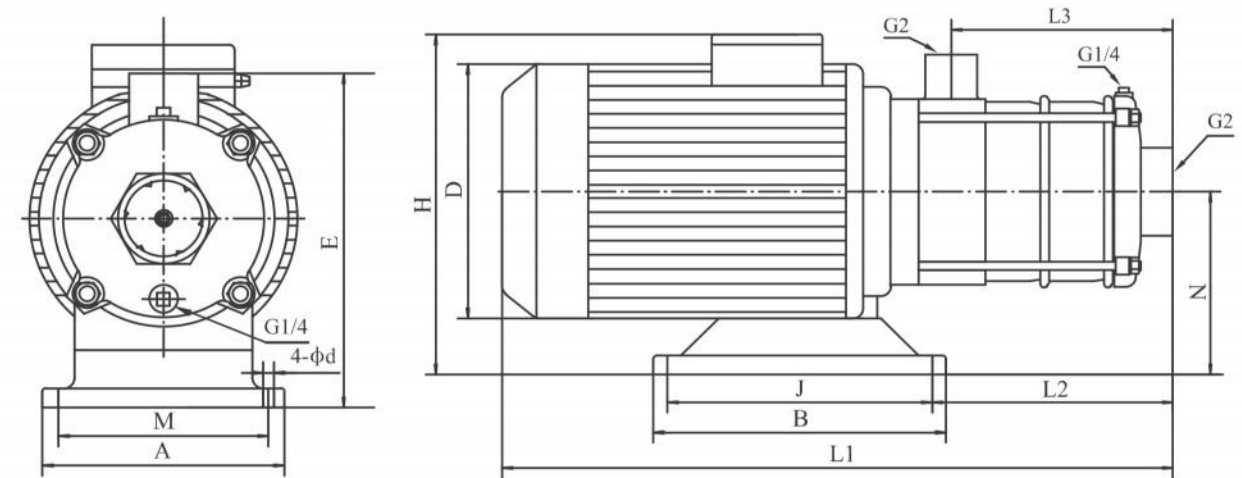
2900rpm



### Performance Table Of CHLF(T)

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

### Installation Drawing Of CHLF(T)

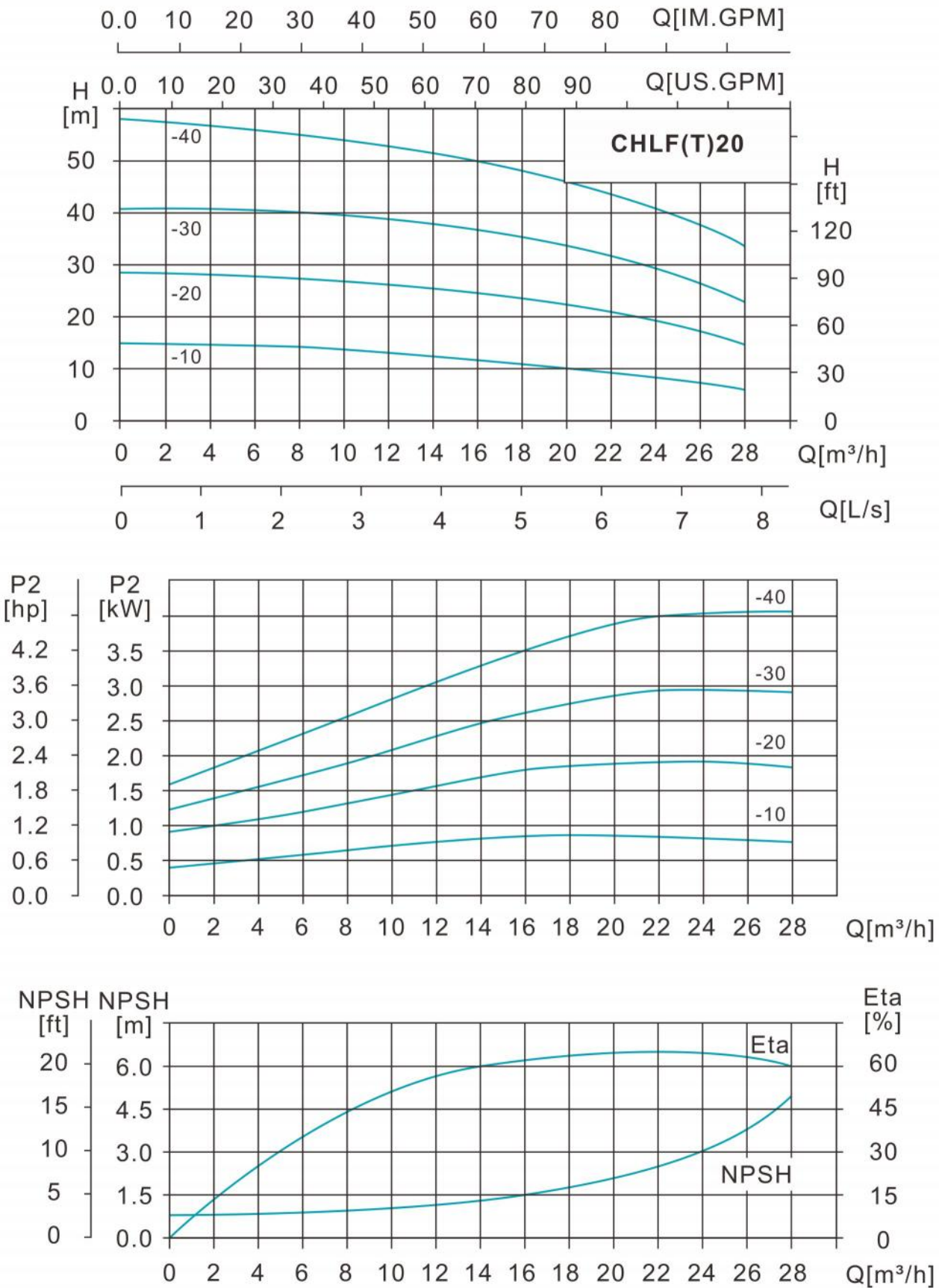


### Dimension And Weight Of CHLF(T)

Motor	Model	Dimension(mm)											Weight (kg)	
		L1	L2	L3	H	D	E	N	A	M	B	J		d
Three-phase Single-phase	CHLF(T)16-10	423	151	126	230/265	170	227	117	130	108	160	138	9	17.5
	CHLF(T)16-20	455	151	126	240/270	180	228	118	130	108	160	138	9	27
	CHLF(T)16-30	561	196	170	270/	195	240	130	130	108	160	138	9	33
	CHLF(T)16-40	621	340	216	270/	220	230	120	230	190	170	140	12	41

### Performance Curve Of CHLF(T)

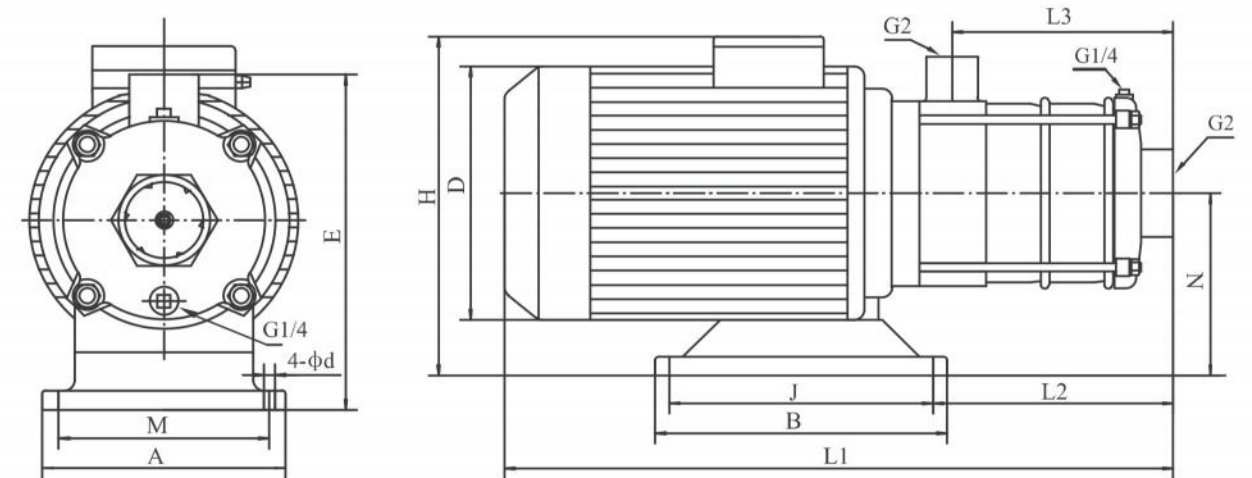
2900rpm



### Performance Table Of CHLF(T)

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

### Installation Drawing Of CHLF(T)



### Dimension And Weight Of CHLF(T)

Motor	Model	Dimension(mm)											Weight (kg)	
		L1	L2	L3	H	D	E	N	A	M	B	J		d
Three-phase Single-phase	CHLF(T)20-10	423	151	126	230/265	170	227	117	130	108	160	138	9	17.5
	CHLF(T)20-20	455	151	126	240/270	180	228	118	130	108	160	138	9	27
	CHLF(T)20-30	576	294	171	270/	220	230	120	230	190	170	140	12	41
	CHLF(T)20-40	621	340	216	270/	220	230	120	230	190	170	140	12	44