CHL 50Hz/60Hz

Light Horizontal Multistage Centrifugal Pump

CHLK/CHLF(T)

SOLE UK & IRELAND AGENT



CNP









CNP specialises in the manufacture of Stainless Steel multistage pumps, integrating scientific research, production and marketing, devoting considerable efforts to innovation and management since its establishment nearly 20 years ago.

The company has successfully developed various kinds of pumps, which are applicable to industrial and mining enterprises, municipal water supply, farm irrigation, petrochemical engineering, domestic water, fire fighting, water supply of high buildings, industrial water treatment, water purification, pharmaceutical industry, air-conditioning systems, etc.

The full range of pumps boasts advanced internal hydraulic properties:

CDL/CDLF series of Stainless Steel multistage vertical pumps

SJ series of Stainless Steel multistage deep-well submersible pumps

CDLK, CDLK(F) immersion type multistage centrifugal pumps

CHL/CHLK/CHLF series of Stainless Steel multistage horizontal pumps

JET self priming single stage pumps

ZS series of Stainless Steel horizontal single stage centrifugal pumps

MS series of light Stainless Steel horizontal single stage centrifugal pumps

NISO heavy duty end-suction centrifugal pumps

SP self-priming sewage pumps

SWB Stainless Steel horizontal single stage pumps

Besides designing pumps with superior tools such as three-dimensional CAD and CFD software, the company possess a complete set of precision manufacturing and inspection equipment. With a perfect quality control system, the company has passed ISO9001 Quality System Certification, ISO12001 Environment Management System Certificate and has also obtained CE Mark. The company distribute widely across the world including Europe, America and South Eastern Asia gaining popularity due to their excellent product quality and range.

Please do not hesitate to contact our experience sales team who will only be too happy to assist with your pump requirements.

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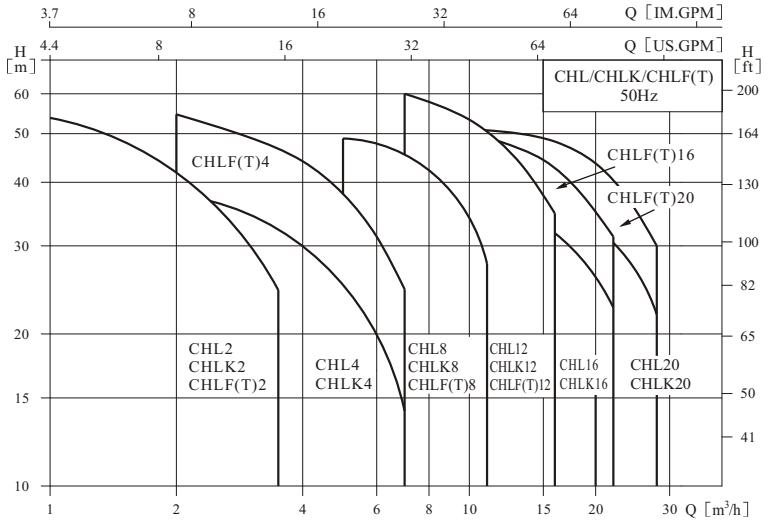
General Data

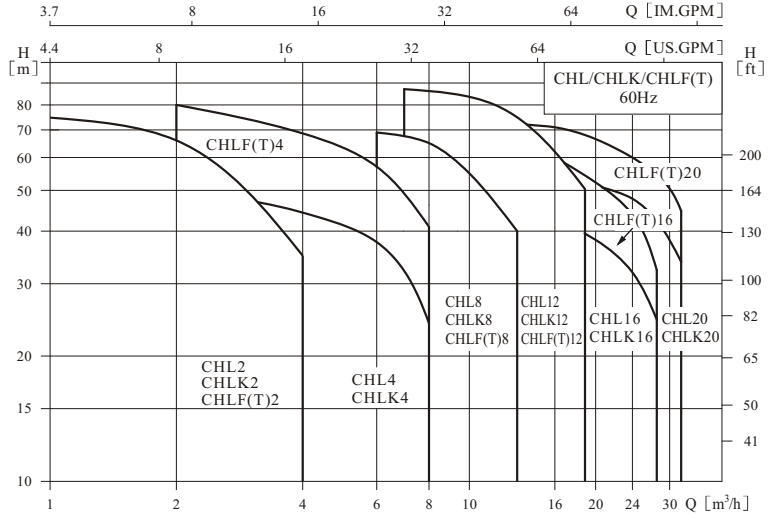
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Performance scope





Application

CHL,CHLK and CHLF(T) type pump are mainly used in industrial field:

- Air-conditioning system
- Cooling system
- Industrial cleaning
- Water treatment (Water purification)
- Aquiculture
- Fertilizing / metering system
- Environmental application
- Other special applications

Applicable medium

- Thin and clean non-flammable and non-explosive liquid without solid granules and fibers.
- Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums.
- When the density or viscosity of to-be-conveyed liquid is larger than that of water, it is necessary to select a driving motor of high-power.
- Whether a specific liquid is suitable for the pump depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.

Pump

- Horizontal multistage non-self-priming centrifugal pump, attached with long shaft electric motor.
- Compact structure renders small size of pump; axial inlet and radial outlet.

Curve conditions

Following conditions are suitable for the performance curves shown above.

- All curves are based on the measured values of 50Hz: constant motor speed 2900r/min,60 Hz: constant motor speed 3500 r/min;
- Curve tolerance in conformity with ISO9906Annex A.
- Measurement is done with 20℃ air-free water, kinematic viscosity of 1mm²/sec.
- 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.

Motor

- TEFC motor 2-pole
- Protection class:IP55
- Insulation class:F
- Standard voltage, 50Hz: 1 × 220-240V
  3 × 220-240V/380-415V
- Standard voltage, 60Hz: 1 × 220-240V
  3 × 220-240V/380-415V
- Single phase motor (max) : 2.4kW

Operation condition

- Liquid temperature:

Normal temperature type:-15℃～+70℃

Hot water type: -15℃～+110℃

- Ambient temperature: up to +40℃
- Max.operation pressure:10 bar
- Max.inlet pressure is limited by max. Operation pressure

Connection port	CHL/CHLK/ CHLF(T)2	CHL/CHLK/ CHLF(T)4	CHL/CHLK8, 12,16,20	CHLF(T)8	CHLF(T)12	CHLF(T)16,20
Inlet	G1	G1 1/4	G2	G1 1/2	G1 1/2	G2
Outlet	G1	G1	G2	G1 1/4	G1 1/2	G2

Definition of Model

CHL Example

CHL 4 – 30
- 30 — Stage × 10
- 4 — Rated flow m^3/h
- CHL — Light horizontal multistage centrifugal pump (Flow passage components stainless steel 304 or 316)

CHLK Example

CHL K 4 – 30
- 30 — Stage × 10
- 4 — Rated flow m^3/h
- K — Stainless steel air-conditioning pump
- CHL — Light horizontal multistage centrifugal pump (Flow passage components stainless steel 304 or 316)

CHLF(T) Example

CHLF(T) 4 – 30
- 30 — Stage × 10
- 4 — Rated flow m^3/h
- CHLF(T) — Light horizontal multistage centrifugal pump (F stands for "section type", T means "Suction and discharge are made of cast iron"; stainless steel, omitted)

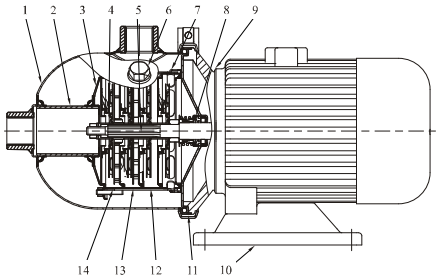
Material CHL/CHLK

No.	Name	Material	AISI / ASTM
1	Inlet and outlet chamber	Stainless steel	AISI304
2	Connection pipe	Stainless steel	AISI304
3	Clamp plate	Stainless steel	AISI304
4	Impeller	Stainless steel	AISI304
5	Shaft	Stainless steel	AISI304
6	Plug	Stainless steel	AISI304
7	Discharge diffuser	Stainless steel	AISI304
8	Mechanical seal		
9	Motor end cover	Aluminum alloy	
10	Base plate	Cast iron	ASTM25B
11	Spannband	Stainless steel	AISI304
12	Diffuser	Stainless steel	AISI304
13	Support diffuser	Stainless steel	AISI304
14	Inducer	Stainless steel	AISI304

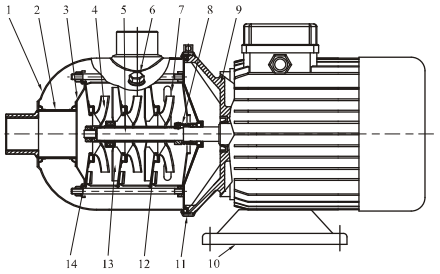
Material CHLF/CHLF(T)

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	Aluminum alloy	
10	Base plate	Cast iron	ASTM25B
11	Staybolt	Stainless steel	AISI304
12	Diffuser	Stainless steel	AISI304
13	Support diffuser	Stainless steel	AISI304
14	Impeller sleeve	Stainless steel	AISI304
CHLF			
1	Suction	Stainless steel	AISI304
7	Discharge	Stainless steel	AISI304
CHLF(T)			
1	Suction	Cast iron	ASTM25B
7	Discharge	Cast iron	ASTM25B

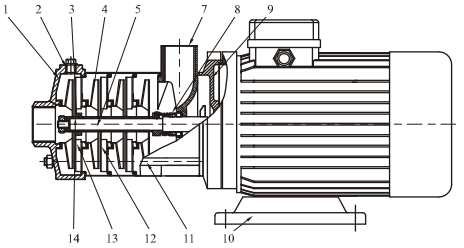
Section drawing CHL,CHLK2,4



Section drawing CHL,CHLK8,12,16,20

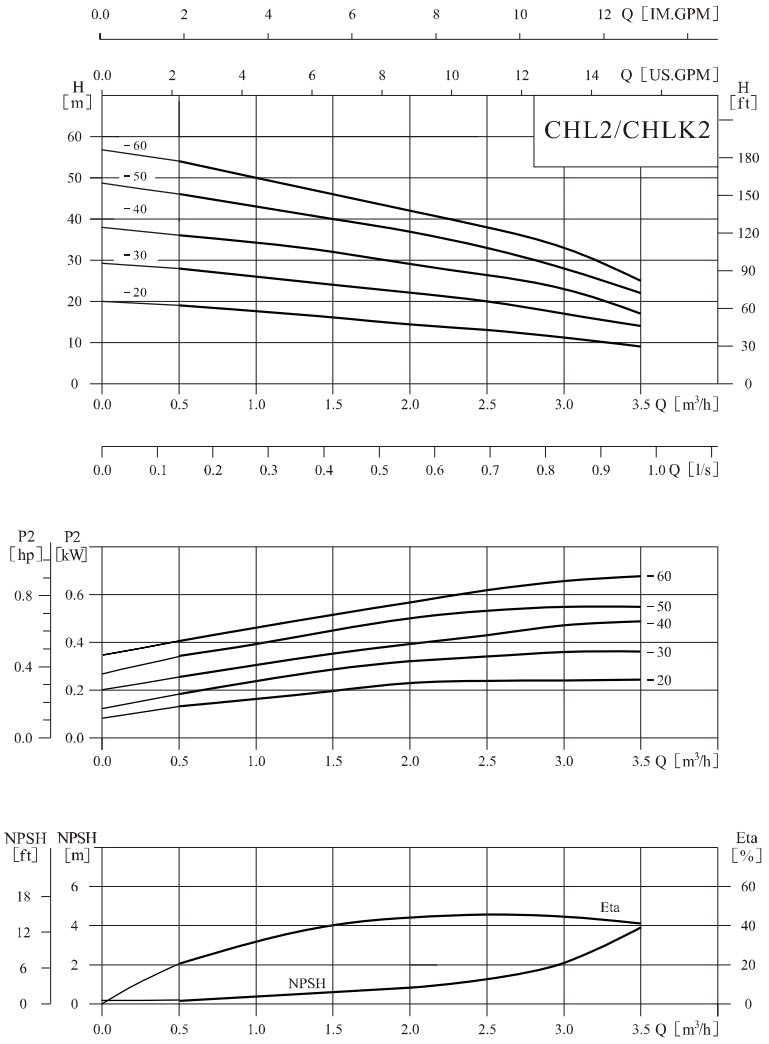


Section drawing CHLF,CHLF(T)



Performance curve

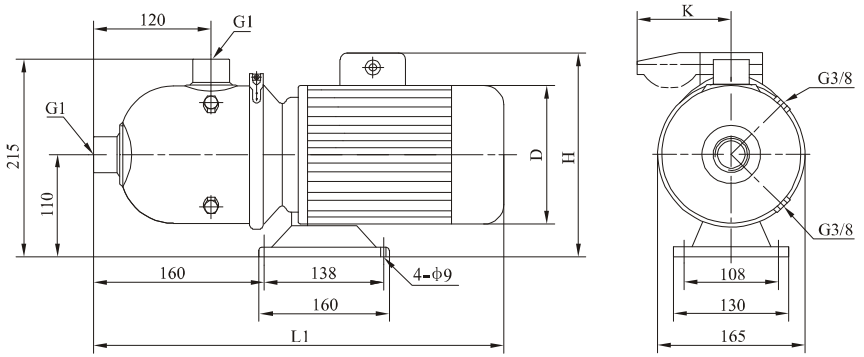
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Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
CHL2-20	0.37	0.5	H (m)	19	18	16	14	13	11	9
CHL2-30	0.55	0.75		28	27	24	21	20	17	14
CHL2-40	0.55	0.75		36	34	32	28	26	23	17
CHL2-50	0.55	0.75		46	43	40	35	33	28	22
CHL2-60	0.75	1		54	50	48	42	38	33	25

Installation sketch

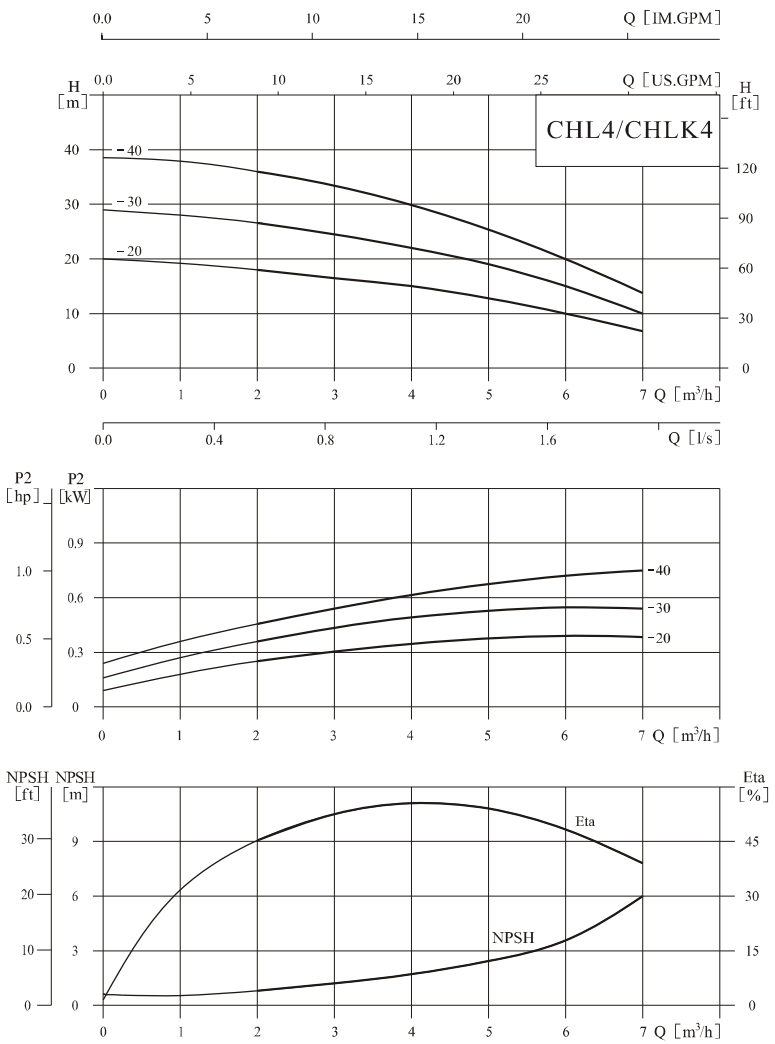


Size and weight

Motor	Model	Size (mm) L1	Size (mm) D	Size (mm) H	Size (mm) K	Weight (kg)
Three-phase/ single-phase	CHL2-20	400	145	215/230	/96	13
	CHL2-30	400	145	215/230	/96	13
	CHL2-40	400	145	215/230	/96	13
	CHL2-50	400	145	215/230	/96	13
	CHL2-60	445	170	225/245	/100	15

Performance curve

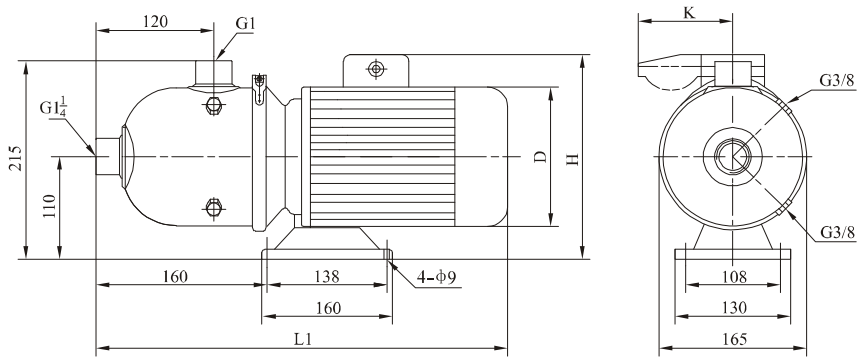
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Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m³/h)	1	2	3	4	5	6	7
CHL4-20	0.55	0.75	H (m)	19	18	16	15	13	10	7
CHL4-30	0.75	1		28	27	24	22	19	15	10
CHL4-40	0.75	1		38	36	32	30	26	20	14

Installation sketch

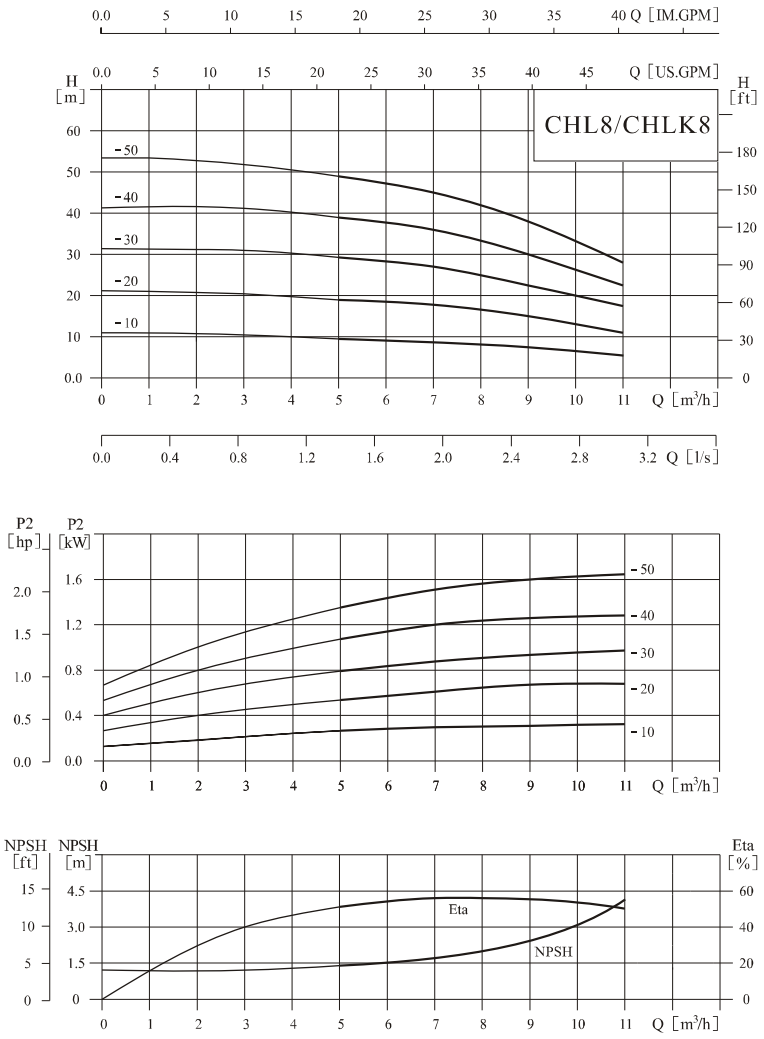


Size and weight

Motor	Model	Size (mm) L1	Size (mm) D	Size (mm) H	Size (mm) K	Weight (kg)
Three-phase/ single-phase	CHL4-20	400	145	215/230	/96	12
	CHL4-30	445	170	225/245	/100	15
	CHL4-40	445	170	225/245	/100	15

Performance curve

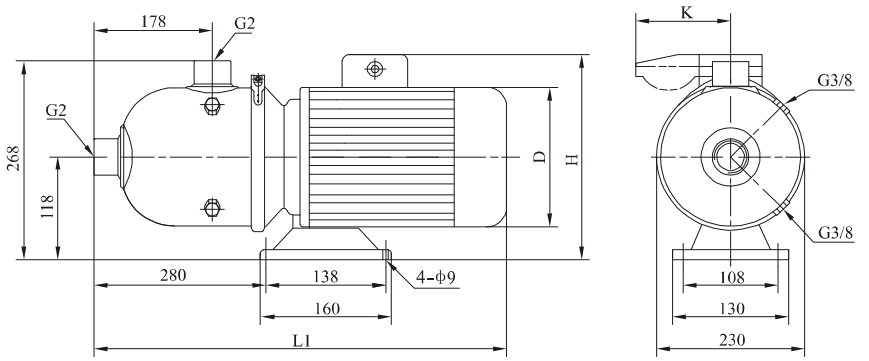
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Performance table

Model	Driving motor		Q (m^3/h)	5	6	7	8	9	10	11
	(kW)	(hp)								
CHL8-10	0.75	1	H (m)	9.5	9.3	9	8.5	7.5	6.5	5.5
CHL8-20	0.75	1		19	18.5	18	17	15	13	11
CHL8-30	1.1	1.5		29	28	27	25.5	22.5	20	17.5
CHL8-40	1.5	2		39	38	36	34	30	26.5	22.5
CHL8-50	2.2	3		49	47	45	42.5	38	33.5	28

Installation sketch

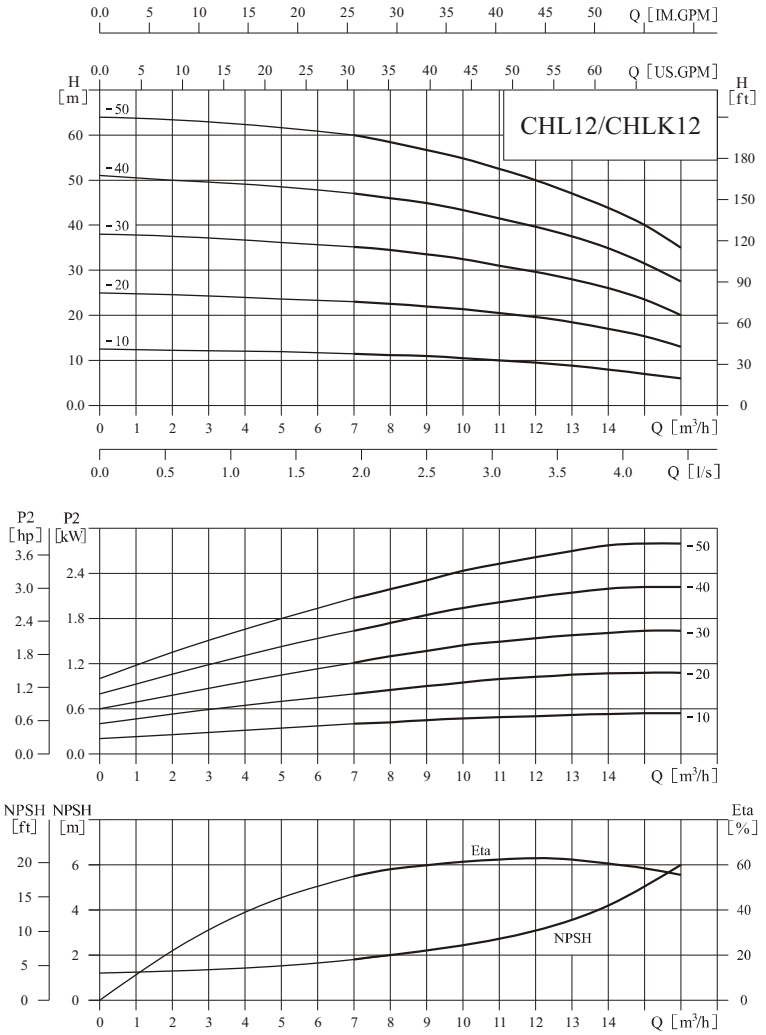


Size and weight

Motor	Model	Size (mm)				Weight (kg)
		L1	D	H	K	
Three-phase/ single-phase	CHL8-10	560	170	230/265	/100	20
	CHL8-20	560	170	230/265	/100	20
	CHL8-30	560	170	230/265	/100	25
	CHL8-40	580	180	240/270	/100	25
	CHL8-50	580	180	240/270	/100	30

Performance curve

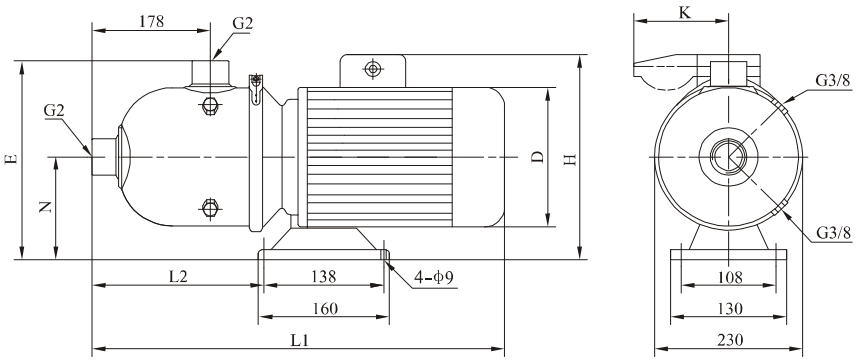
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Performance table

Model	Driving motor		Q (m^3/h)	7	8	9	10	11	12	13	14	15	16
	(kW)	(hp)											
CHL12-10	0.75	1	H (m)	11.5	11.2	11	10.5	10	9.5	9	8	7	6
CHL12-20	1.2	1.6		23	22.5	22	21.5	20.5	19.5	18.5	17	15.5	13
CHL12-30	1.8	2.4		35	34.5	33.5	32.5	31	29.5	28	26	23.5	20
CHL12-40	2.4	3.3		47	46	45	43.5	41.5	39.5	37.5	35	31.5	27.5
CHL12-50	3	4		60	58	56.5	55	52.5	50	47	44	40	35

Installation sketch

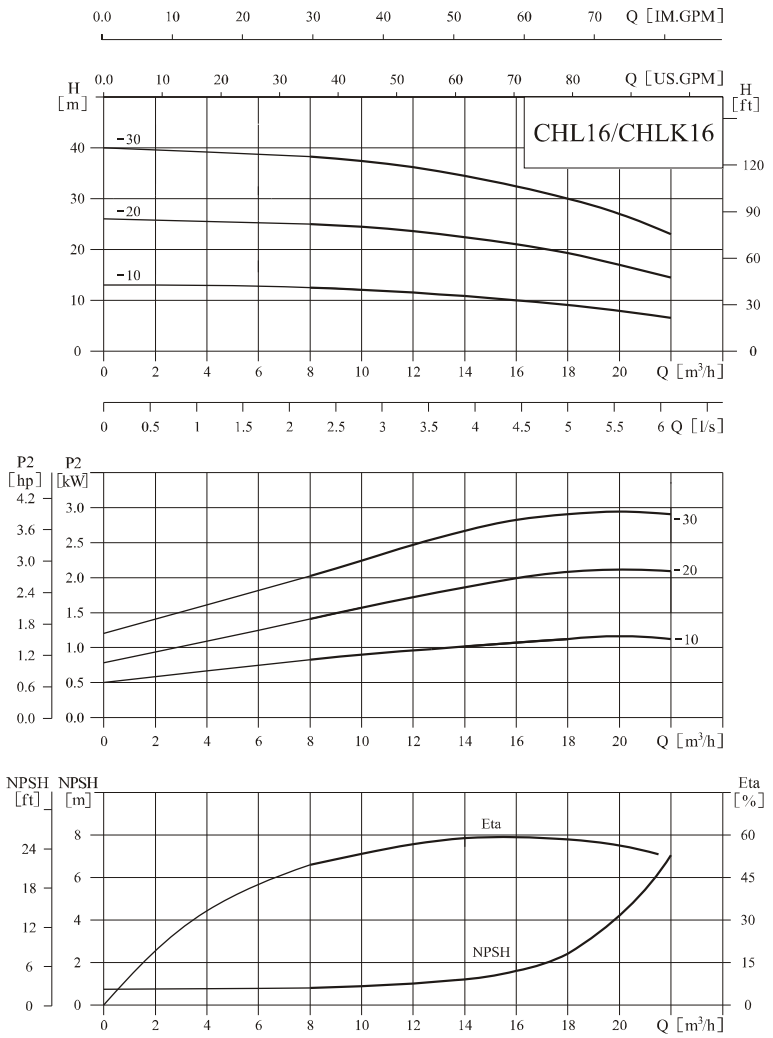


Size and weight

Motor	Model	Size (mm)							Weight (kg)
		L1	L2	H	D	E	N	K	
Three-phase/ single-phase	CHL12-10	560	280	230/265	170	268	118	/100	20
	CHL12-20	560	280	230/265	170	268	118	/100	21
	CHL12-30	580	280	240/270	180	268	118	/100	25
	CHL12-40	580	280	240/270	180	268	118	/100	29
	CHL12-50	610	270	270/	195	276	126		34

Performance curve

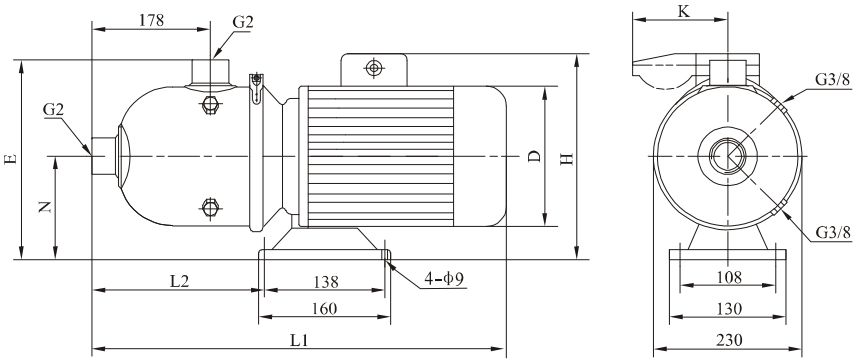
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Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m³/h)	8	10	12	14	16	18	20	22
CHL16-10	1.1	1.5	H (m)	12.5	12	11.5	10.5	10	9	7.5	6.5
CHL16-20	2.2	3		25.5	24	23	22	21	19	17	14.5
CHL16-30	3	4		38.5	37	36	34	32	30	27	23

Installation sketch

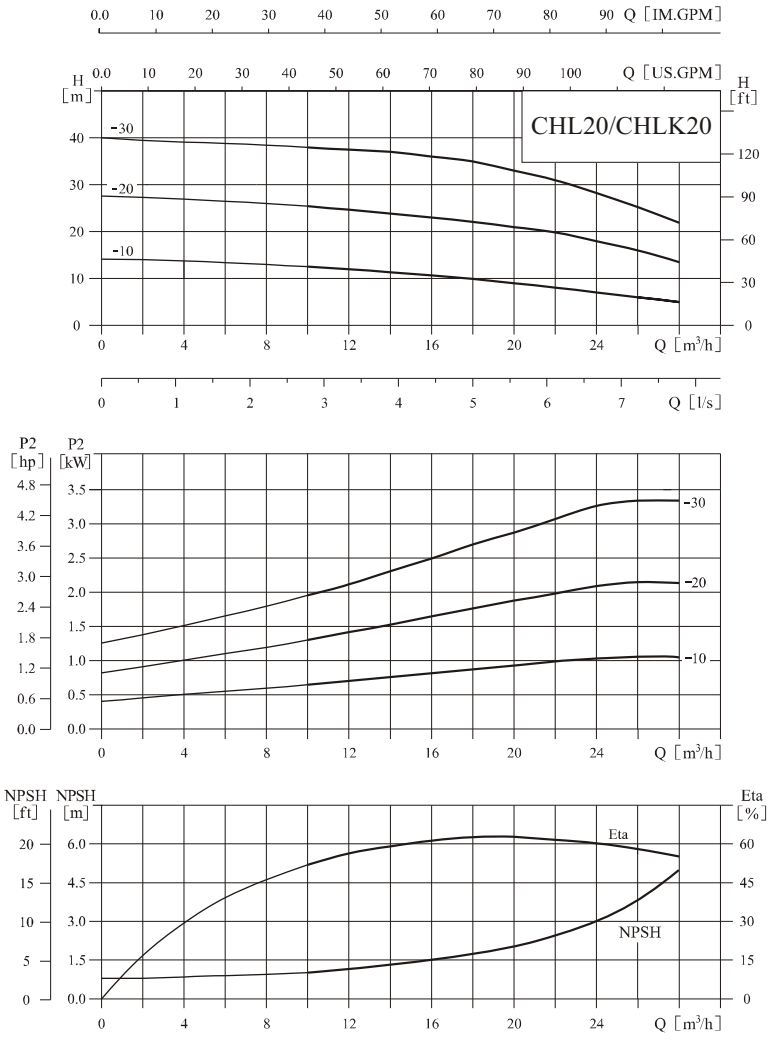


Size and weight

Motor	Model	Size (mm) L1	L2	E	N	D	H	K	Weight (kg)
Three-phase/ single-phase	CHL16-10	560	280	268	118	170	230/265	/100	20
	CHL16-20	580	280	268	118	180	240/270	/100	27
	CHL16-30	610	270	276	126	195	270/		34

Performance curve

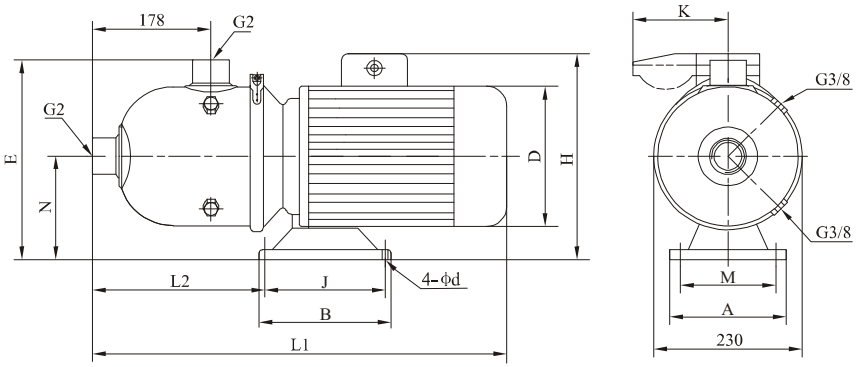
ISO9906 Annex A



Performance table

Model	Driving motor		Q (m^3/h)	10	12	14	16	18	20	22	24	26	28
	(kW)	(hp)											
CHL20-10	1.1	1.5	H (m)	12.5	12	11.5	11	10.5	9.5	8.5	7.5	6.5	5.5
CHL20-20	2.2	3		25.5	24.5	24	23	22	21	20	18	16	13.5
CHL20-30	4	5.5		38	37.5	37	36	35	33	31	28	25	22

Installation sketch

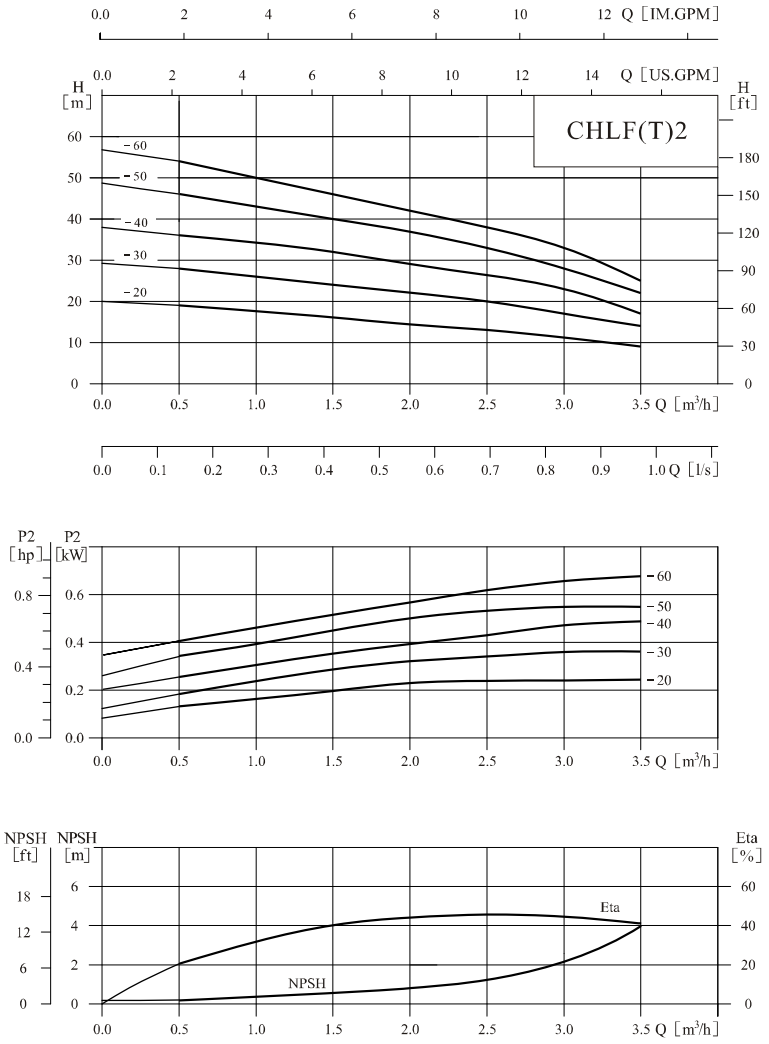


Size and weight

Motor	Model	Size (mm)												Weight (kg)
		L1	L2	H	D	E	N	A	M	B	J	d	K	
Three-phase/ single-phase	CHL20-10	560	280	230/265	170	268	118	130	108	160	138	9	/100	21
	CHL20-20	580	280	240/270	180	268	118	130	108	160	138	9	/100	28
	CHL20-30	650	360	270/	220	270	120	230	190	170	140	12		42

Performance curve

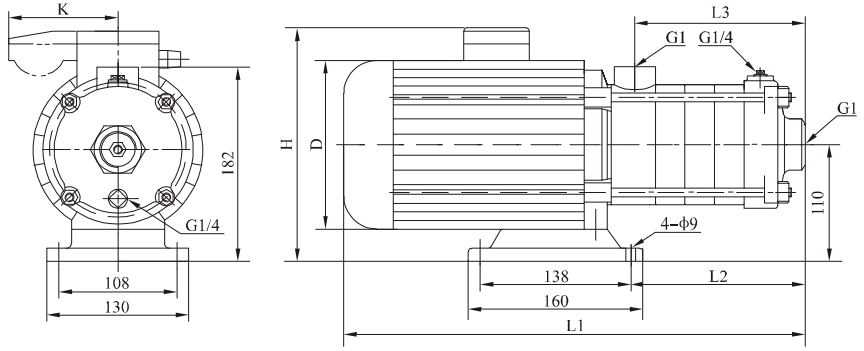
ISO9906 Annex A



Performance table

Model	Driving motor		Q (m^3/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
	(kW)	(hp)								
CHLF(T)2-20	0.37	0.5	H (m)	19	18	16	14	13	11	9
CHLF(T)2-30	0.55	0.75		28	27	24	21	20	17	14
CHLF(T)2-40	0.55	0.75		36	34	32	28	26	23	17
CHLF(T)2-50	0.55	0.75		46	43	40	35	33	28	22
CHLF(T)2-60	0.75	1		54	50	48	42	38	33	25

Installation sketch

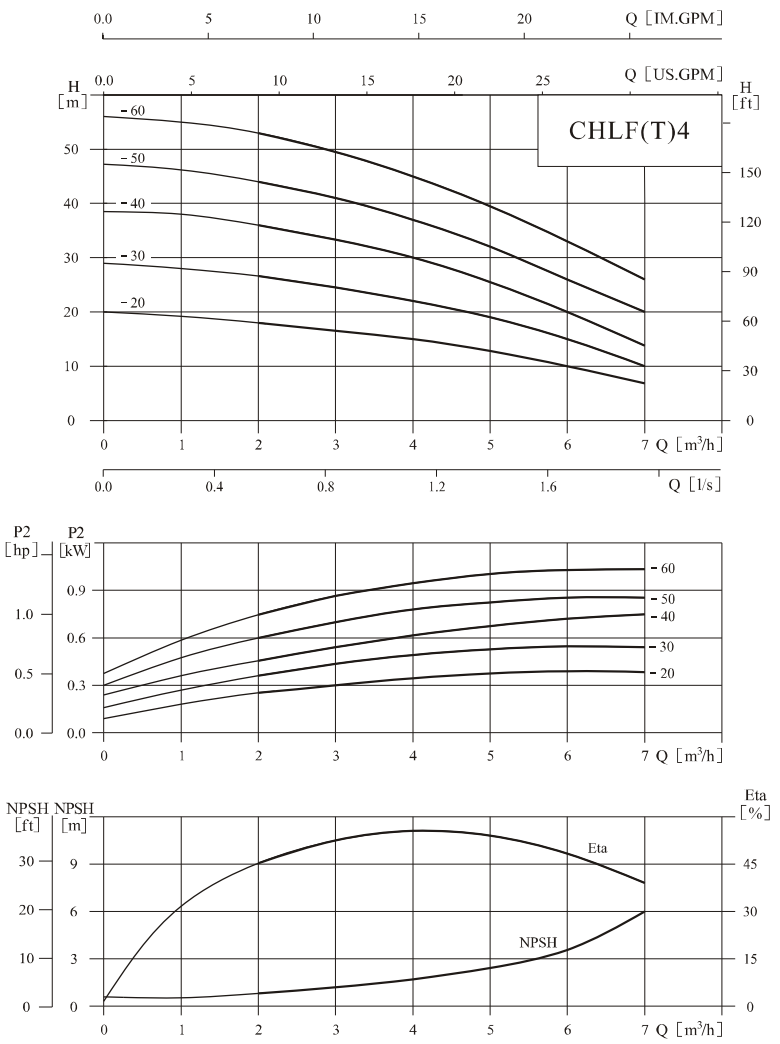


Size and weight

Motor	Model	Size (mm)						Weight (kg)
		L1	L2	L3	D	H	K	
Three-phase/ single-phase	CHLF(T)2-20	305	87	84	145	215/230	/96	15
	CHLF(T)2-30	323	105	102	145	215/230	/96	15
	CHLF(T)2-40	341	123	120	145	215/230	/96	15
	CHLF(T)2-50	359	141	138	145	215/230	/96	15
	CHLF(T)2-60	422	159	156	170	225/245	/100	17

Performance curve

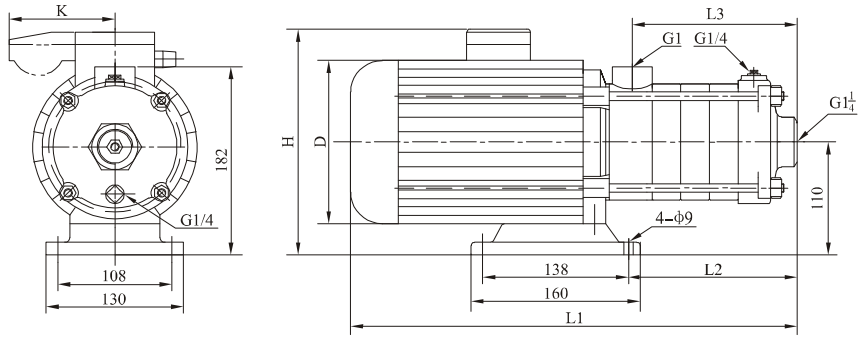
ISO9906 Annex A



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	1	2	3	4	5	6	7
CHLF(T)4-20	0.55	0.75	H (m)	19	18	16	15	13	10	7
CHLF(T)4-30	0.55	0.75		28	27	24	22	19	15	10
CHLF(T)4-40	0.75	1		38	36	32	30	26	20	14
CHLF(T)4-50	1.1	1.5		46	44	41	38	32	26	20
CHLF(T)4-60	1.1	1.5		55	53	50	45	37	31	26

Installation sketch

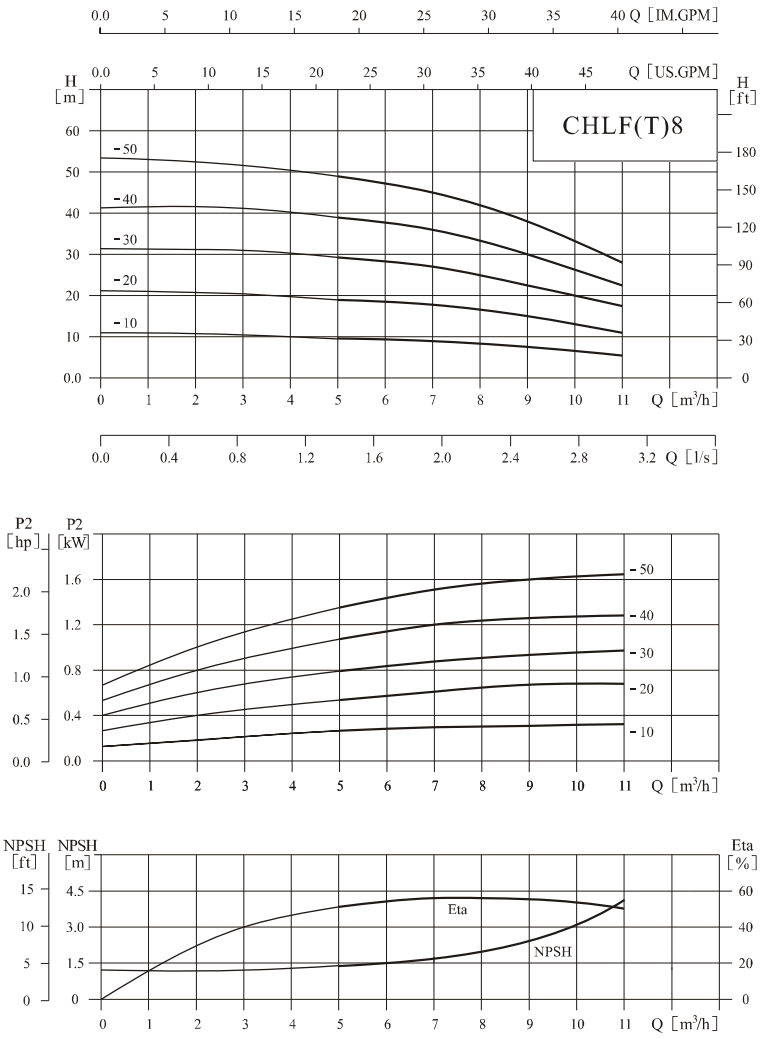


Size and weight

Motor	Model	Size (mm) L1	L2	L3	D	H	K	Weight (kg)
Three-phase/ single-phase	CHLF(T)4-20	329	105	102	145	215/230	/96	15
	CHLF(T)4-30	356	132	129	145	215/230	/96	15
	CHLF(T)4-40	416	162	156	170	225/245	/100	17
	CHLF(T)4-50	455	188	183	170	225/245	/100	17
	CHLF(T)4-60	482	213	210	170	225/245	/100	17

Performance curve

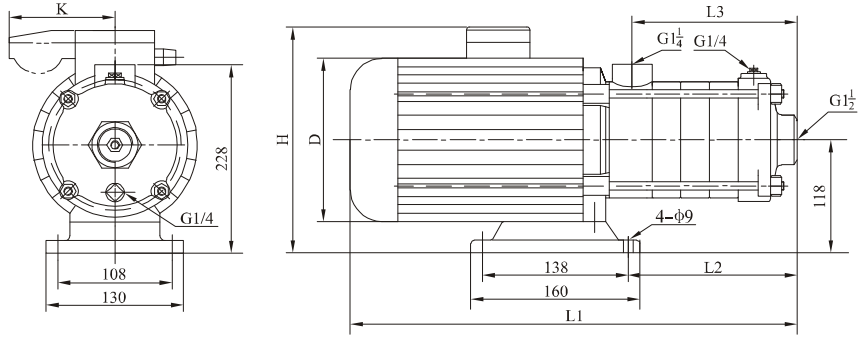
ISO9906 Annex A



Performance table

Model	Driving motor		Q (m^3/h)	5	6	7	8	9	10	11
	(kW)	(hp)								
CHLF(T)8-10	0.75	1	H (m)	9.5	9.3	9	8.5	7.5	6.5	5.5
CHLF(T)8-20	0.75	1		19	18.5	18	17	15	13	11
CHLF(T)8-30	1.1	1.5		29	28	27	25.5	22.5	20	17.5
CHLF(T)8-40	1.5	2		39	38	36	34	30	26.5	22.5
CHLF(T)8-50	2.2	3		49	47	45	42.5	38	33.5	28

Installation sketch

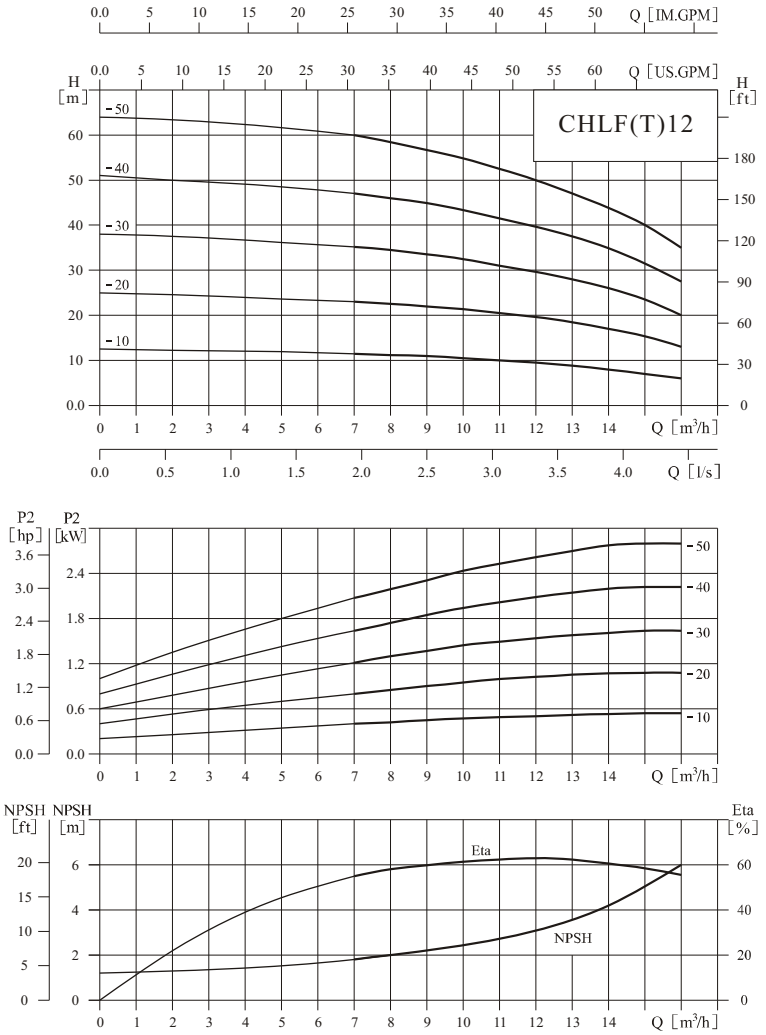


Size and weight

Motor	Model	Size (mm)						Weight (kg)
		L1	L2	L3	D	H	K	
Three-phase/ single-phase	CHLF(T)8-10	395	126	108	170	230/265	/100	20
	CHLF(T)8-20	395	126	108	170	230/265	/100	20
	CHLF(T)8-30	425	156	138	170	230/265	/100	25
	CHLF(T)8-40	490	186	168	180	240/270	/100	28
	CHLF(T)8-50	520	216	198	180	240/270	/100	30

Performance curve

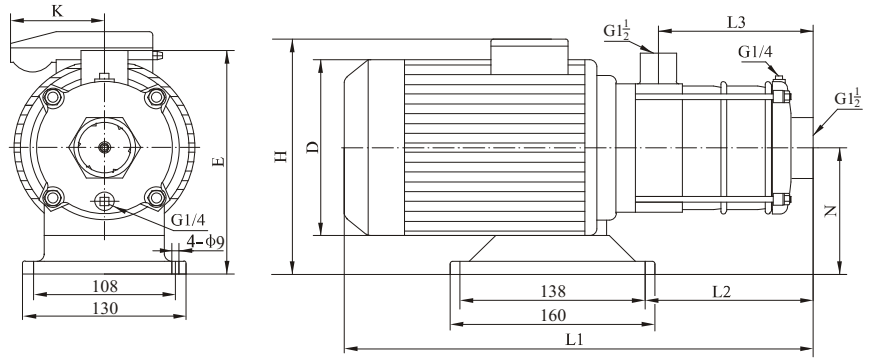
ISO9906 Annex A



Performance table

Model	Driving motor		Q (m³/h)	7	8	9	10	11	12	13	14	15	16
	(kW)	(hp)											
CHLF(T)12-10	0.75	1	H (m)	11.5	11.2	11	10.5	10	9.5	9	8	7	6
CHLF(T)12-20	1.2	1.6		23	22.5	22	21.5	20.5	19.5	18.5	17	15.5	13
CHLF(T)12-30	1.8	2.4		35	34.5	33.5	32.5	31	29.5	28	26	23.5	20
CHLF(T)12-40	2.4	3.3		47	46	45	43.5	41.5	39.5	37.5	35	31.5	27.5
CHLF(T)12-50	3	4		60	58	56.5	55	52.5	50	47	44	40	35

Installation sketch

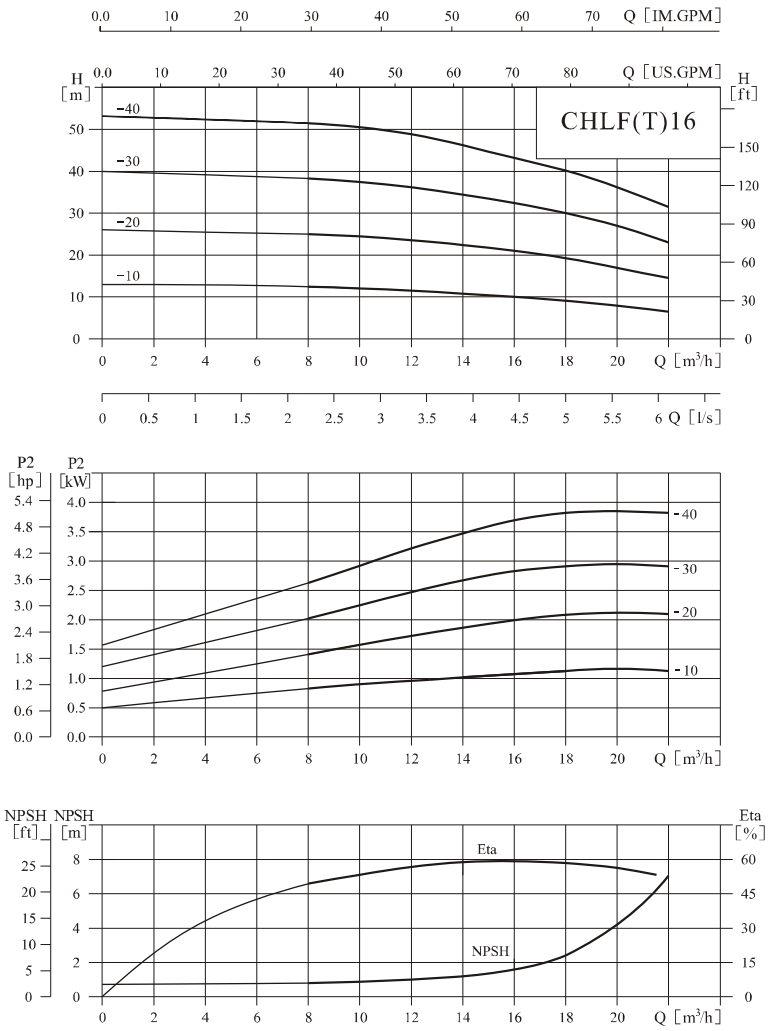


Size and weight

Motor	Model	Size (mm)								Weight (kg)
		L1	L2	L3	H	D	E	N	K	
Three-phase/ single-phase	CHLF(T)12-10	395	126	108	230/265	170	228	118	/100	20
	CHLF(T)12-20	395	126	108	230/265	170	228	118	/100	21
	CHLF(T)12-30	460	156	138	240/270	180	228	118	/100	25
	CHLF(T)12-40	490	186	168	240/270	180	228	118	/100	29
	CHLF(T)12-50	555	216	198	270/	195	240	126		34

Performance curve

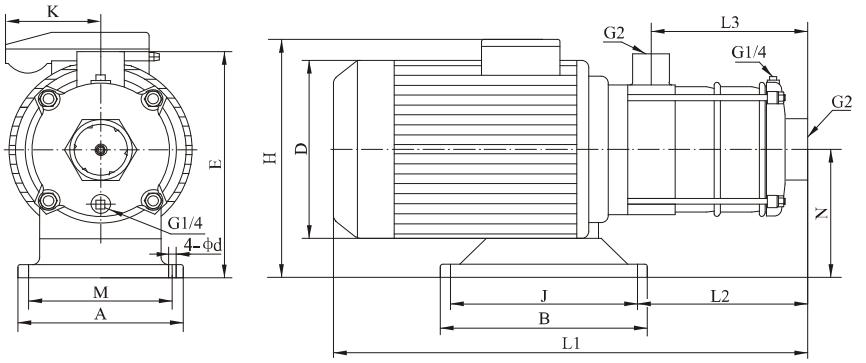
ISO9906 Annex A



Performance table

Model	Driving motor		Q (m³/h)	8	10	12	14	16	18	20	22
	(kW)	(hp)									
CHLF(T)16-10	1.1	1.5	H (m)	12.5	12	11.5	10.5	10	9	7.5	6.5
CHLF(T)16-20	2.2	3		25.5	24	23	22	21	19	17	14.5
CHLF(T)16-30	3	4		38.5	37	36	34	32	30	27	23
CHLF(T)16-40	4	5.5		51.5	50.5	49	46	43	40.5	36	31.5

Installation sketch

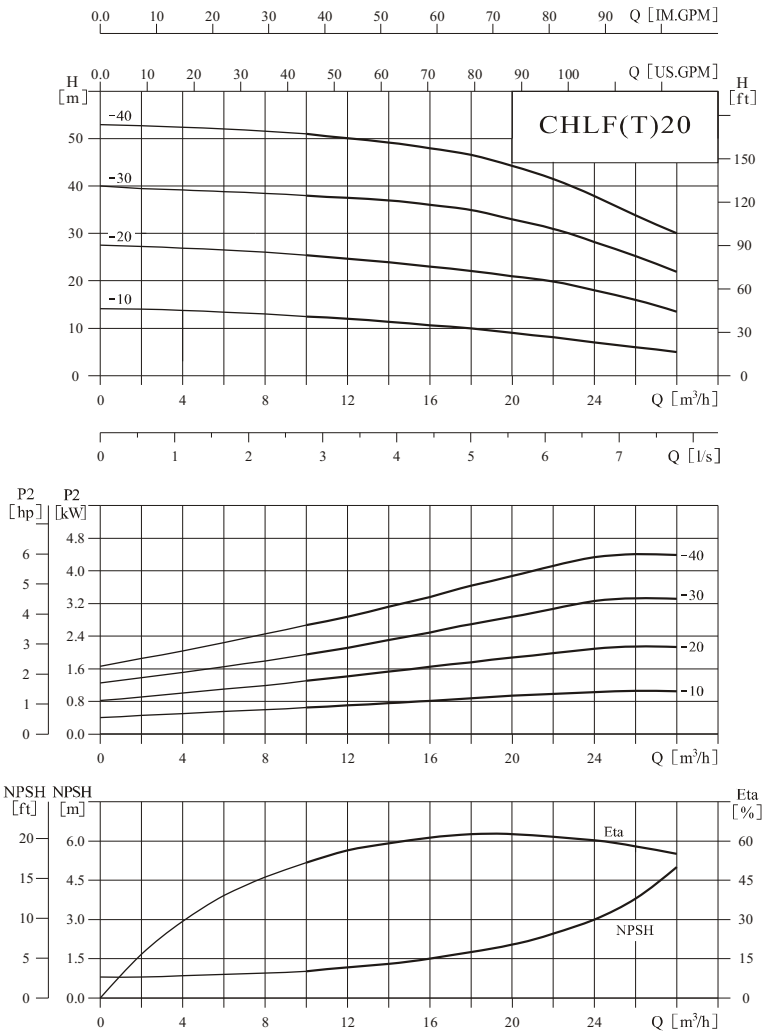


Size and weight

Motor	Model	Size (mm)													Weight (kg)
		L1	L2	L3	H	D	E	N	A	M	B	J	d	K	
Three-phase/ single-phase	CHLF(T)16-10	423	151	126	230/265	180	227	117	130	108	160	138	9	/100	17.5
	CHLF(T)16-20	455	151	126	240/270	180	228	118	130	108	160	138	9	/100	27
	CHLF(T)16-30	561	196	171	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

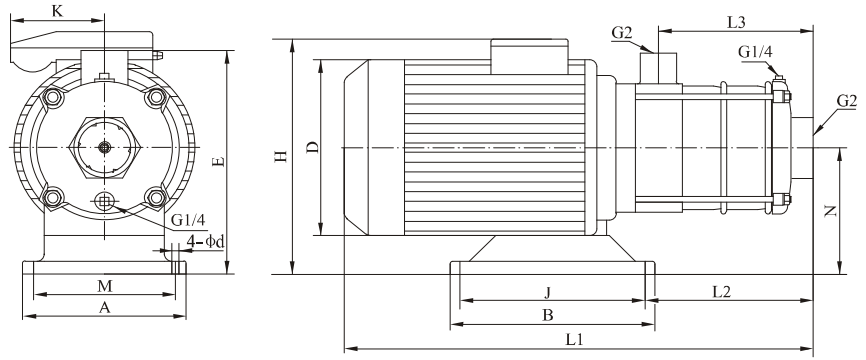
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Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	10	12	14	16	18	20	22	24	26	28
CHLF(T)20-10	1.1	1.5	H (m)	12.5	12	11.5	11	10.5	9.5	8.5	7.5	6.5	5.5
CHLF(T)20-20	2.2	3		25.5	24.5	24	23	22	21	20	18	16	13.5
CHLF(T)20-30	4	5.5		38	37.5	37	36	35	33	31	28	25	22
CHLF(T)20-40	4.4	6		51	50	49	48	47	44.5	41.5	37.5	33.5	30

Installation sketch

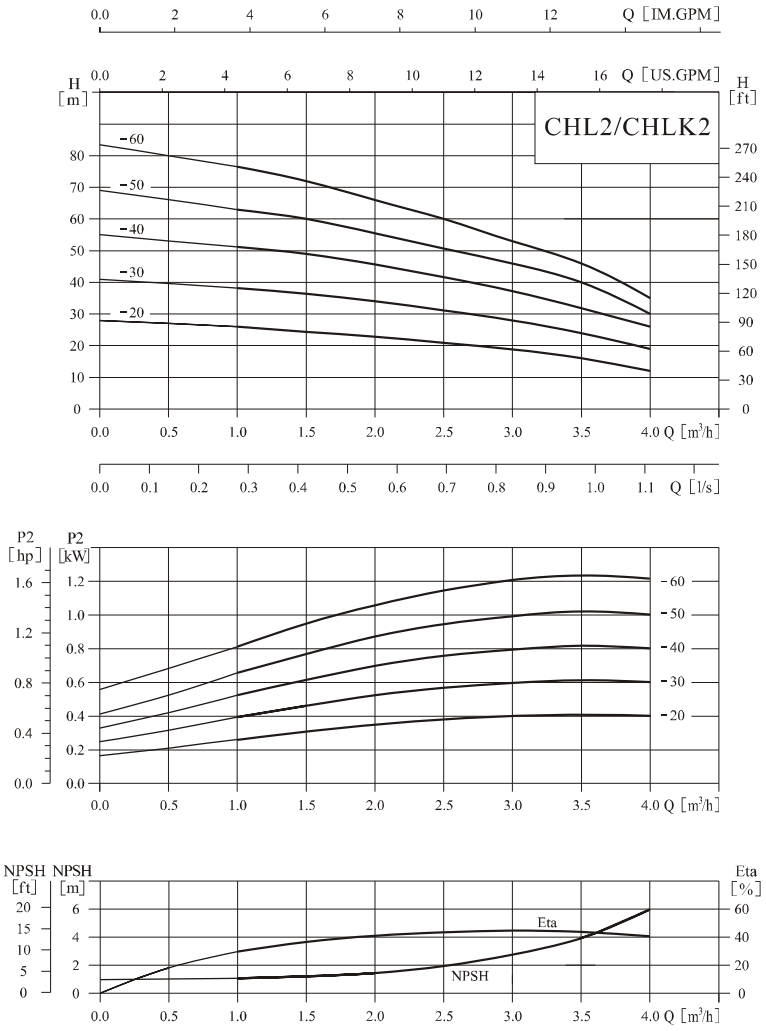


Size and weight

Motor	Model	Size (mm) L1	L2	L3	H	D	E	N	A	M	B	J	d	K	Weight (kg)
Three-phase/ single-phase	CHLF(T)20-10	423	151	126	230/265	180	227	117	130	108	160	138	9	/100	17.5
	CHLF(T)20-20	455	151	126	240/270	180	228	118	130	108	160	138	9	/100	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

Performance curve

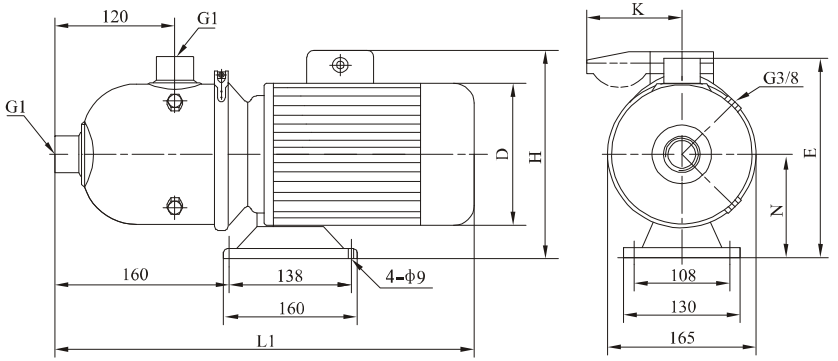
ISO9906 Annex A



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m³/h)	1	1.5	2	2.5	3	3.5	4
CHL2-20	0.55	0.75	H (m)	26	24	21	19	18	16	12
CHL2-30	0.75	1		38	36	33	29	27	24	19
CHL2-40	1.1	1.5		51	48	44	40	36	32	26
CHL2-50	1.1	1.5		63	60	55	50	46	40	30
CHL2-60	1.5	2		75	72	66	60	53	46	35

Installation sketch

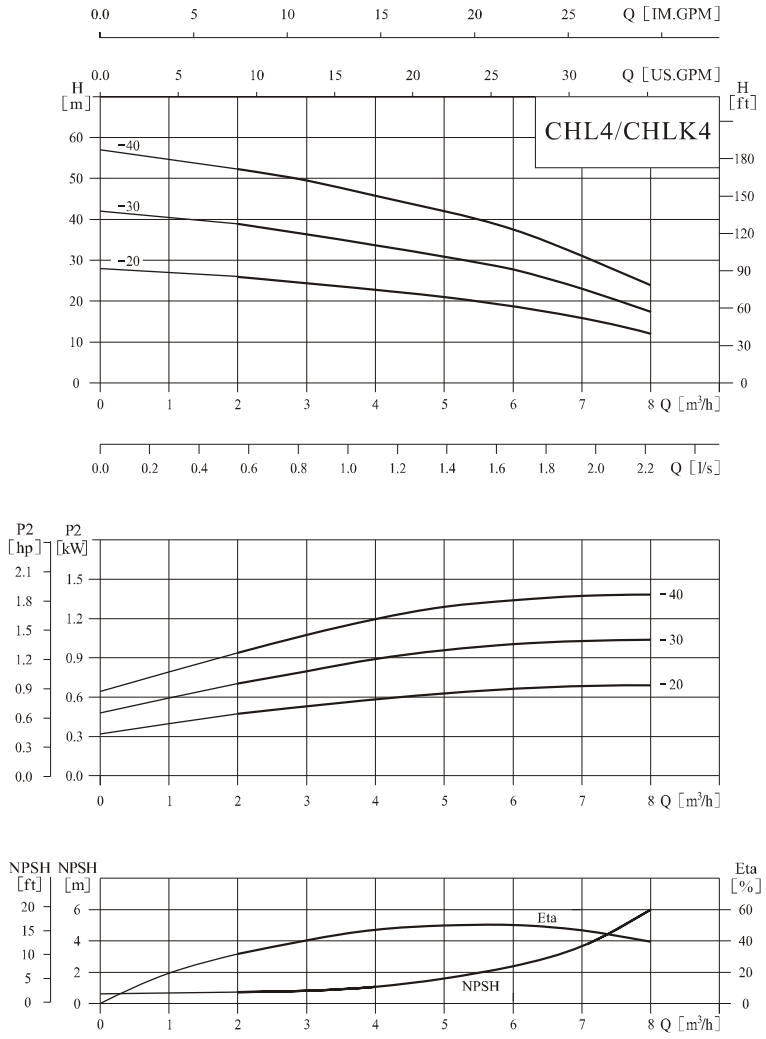


Size and weight

Motor	Model	Size (mm) L1	H	N	D	E	K	Weight (kg)
Three-phase/ single-phase	CHL2-20	400	215/230	110	145	210	/96	13
	CHL2-30	420	220/245	110	160	210	/100	13
	CHL2-40	420	230/245	110	170	210	/100	15
	CHL2-50	420	230/245	110	170	210	/100	15
	CHL2-60	470	240/260	118	170	218	/100	20

Performance curve

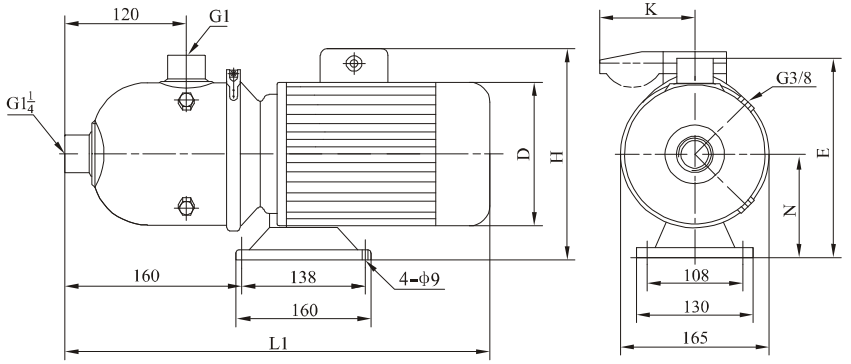
ISO9906 Annex A



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m³/h)	2	3	4	5	6	7	8
CHL4-20	0.75	1	H (m)	26	24	22	21	19	16	12
CHL4-30	1.1	1.5		39	36	33	31	28	23	18
CHL4-40	1.5	2		53	49	44	42	38	31	24

Installation sketch

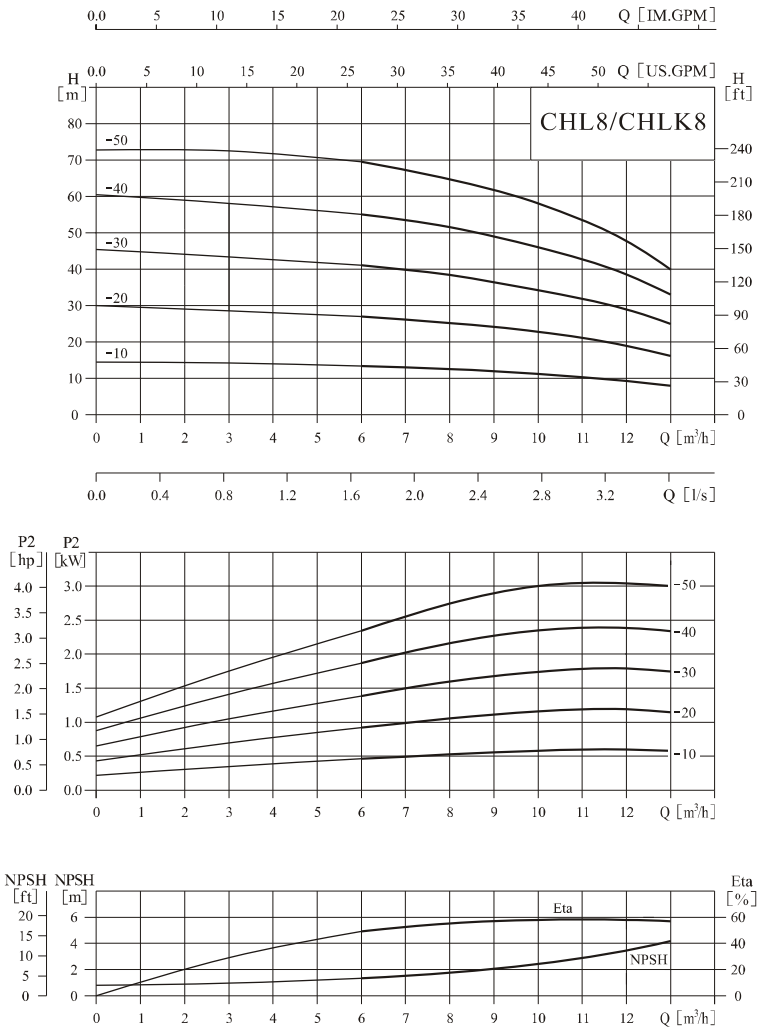


Size and weight

Motor	Model	Size (mm) L1	H	N	D	E	K	Weight (kg)
Three-phase/ single-phase	CHL4-20	420	230/245	110	160	210	/100	12
	CHL4-30	420	230/245	110	170	210	/100	15
	CHL4-40	470	240/260	118	170	228	/100	20

Performance curve

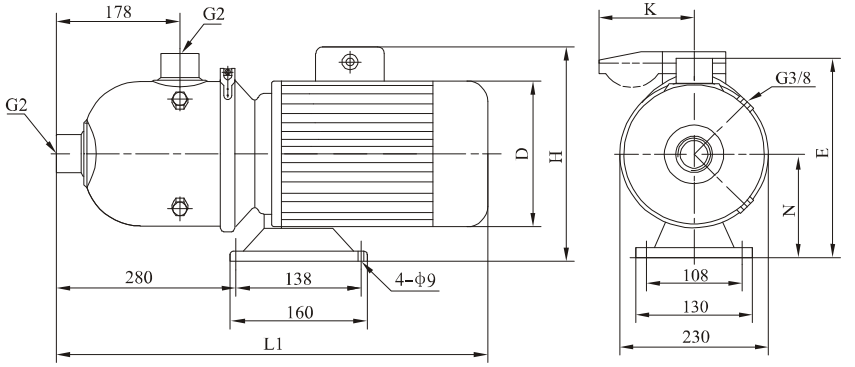
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Performance table

Model	Driving motor		Q (m^3/h)	6	7	8	9	10	11	12	13
	(kW)	(hp)									
CHL8-10	0.75	1	H (m)	14	13	12	11.5	11	10	9	8
CHL8-20	1.5	2		27	26	25	24	23	21	19	16
CHL8-30	2.2	3		41	40	39	37	34	33	29	25
CHL8-40	3	4		55	54	52	50	45	43	39	33
CHL8-50	3	4		69	67	65	62	55	53	49	40

Installation sketch

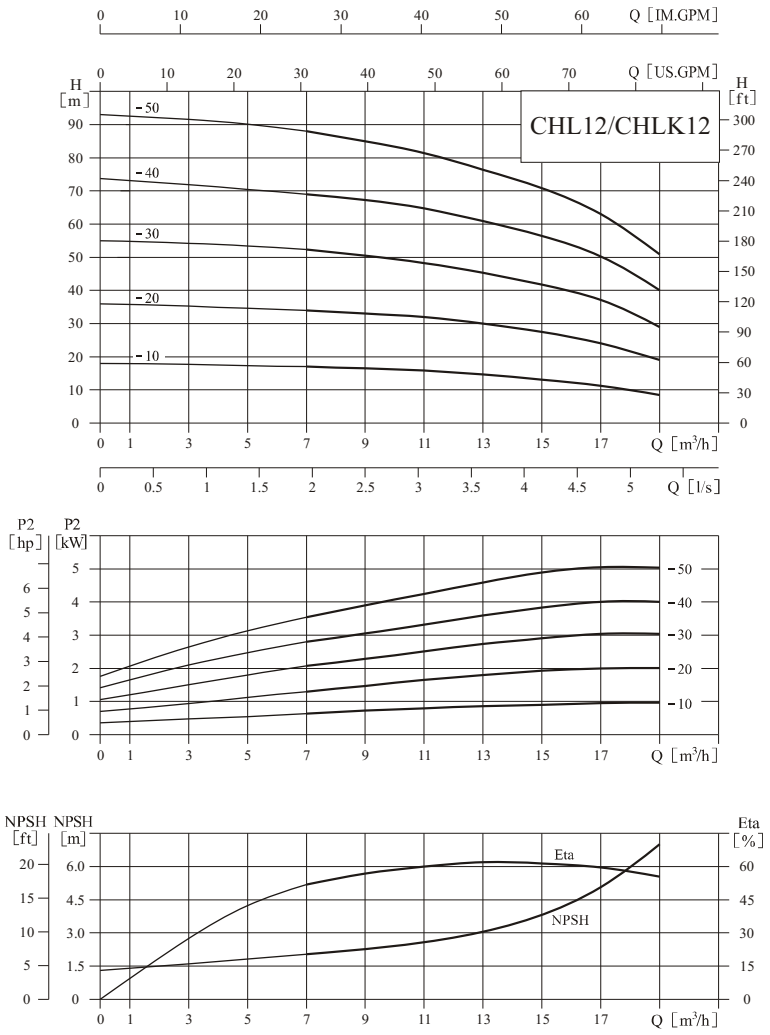


Size and weight

Motor	Model	Size (mm)						Weight (kg)
		L1	H	N	D	E	K	
Three-phase/ single-phase	CHL8-10	560	230/265	117	160	263	/100	20
	CHL8-20	580	230/270	118	170	264	/100	25
	CHL8-30	580	230/270	118	180	264	/100	25
	CHL8-40	610	270/	128	195	274		30
	CHL8-50	610	270/	128	195	274		30

Performance curve

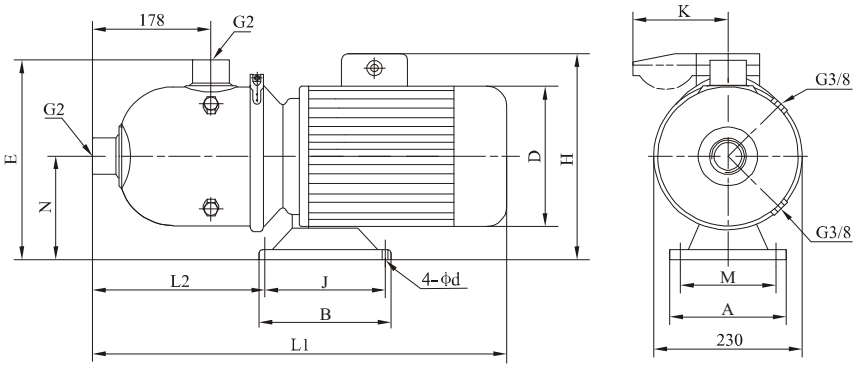
ISO9906 Annex A



Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m³/h)	7	9	11	12	13	15	17	19
CHL12-10	1.1	1.5	H (m)	17	16.5	16	15	14.5	13	11.5	8.5
CHL12-20	2.2	3		34	33	32	31	30	27	24.5	19
CHL12-30	3	4		52.5	50	48.5	47	45	41.5	37.5	29
CHL12-40	4	5.5		69	67.5	65	63	60.5	56	50	40
CHL12-50	5.5	7.5		88	85	82	80	76	70.5	63	50.5

Installation sketch

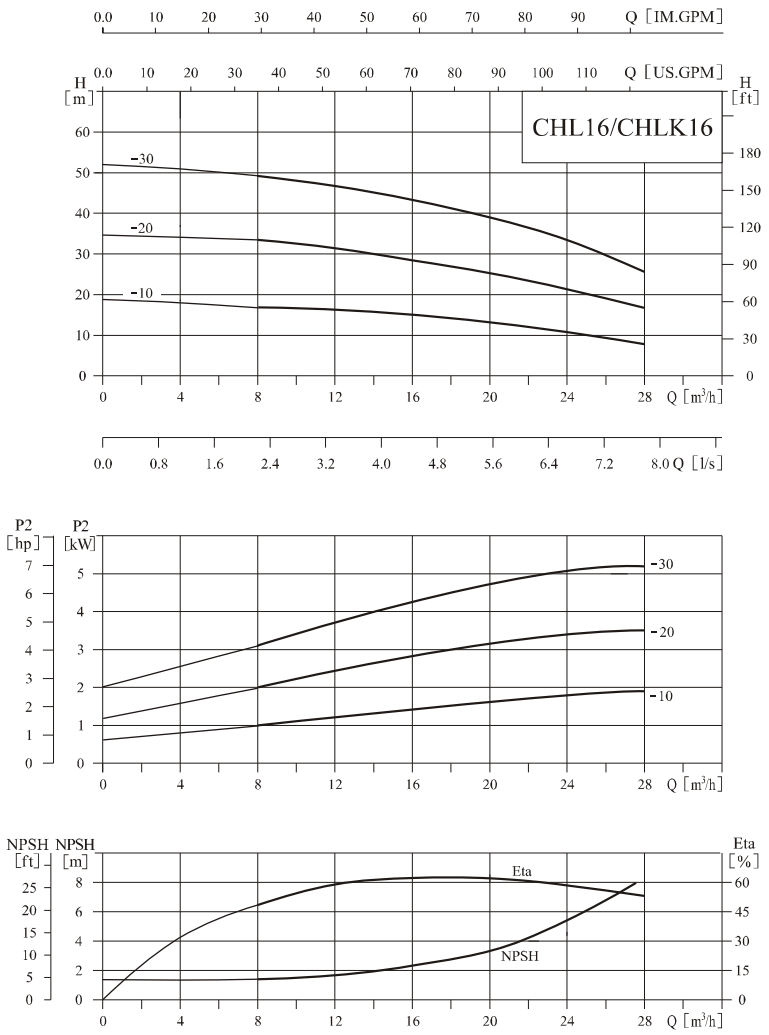


Size and weight

Motor	Model	Size (mm) L1	L2	H	D	E	N	A	M	B	J	d	K	Weight (kg)
Three-phase/ single-phase	CHL12-10	560	280	230/265	180	268	118	130	108	160	138	9	/100	22
	CHL12-20	580	280	240/270	180	268	118	130	108	160	138	9	/100	25
	CHL12-30	610	270	270/	195	276	126	130	108	160	138	9		32
	CHL12-40	650	360	270/	220	270	120	230	190	170	140	12		44
	CHL12-50	670	375	305/	255	282	132	260	216	190	140	12		58

Performance curve

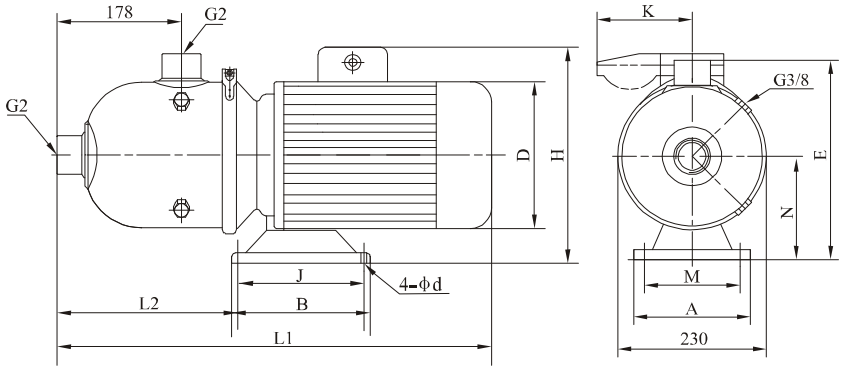
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Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m³/h)	8	12	16	20	24	28
CHL16-10	2.2	4	H (m)	17	16	15	13	11	8
CHL16-20	4.0	5.5		33	31	29	26	21	17
CHL16-30	5.5	7.5		49	47	44	39	32	25

Installation sketch

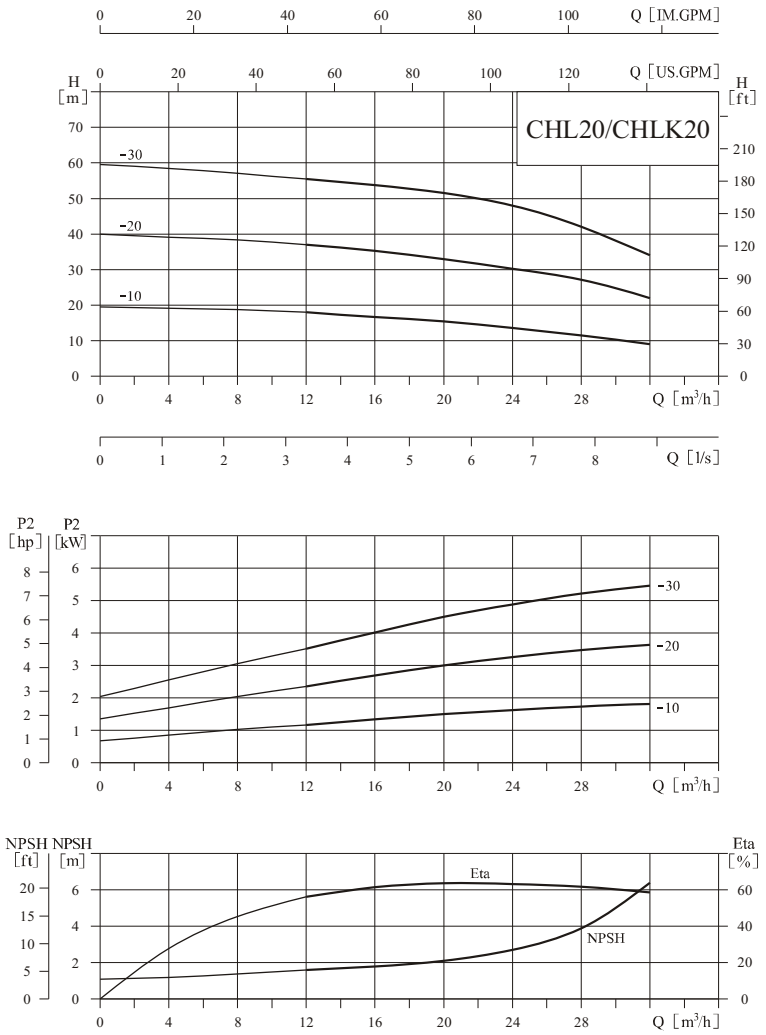


Size and weight

Motor	Model	Size (mm) L1	L2	H	E	B	D	J	A	M	N	d	K	Weight (kg)
Three-phase/ single-phase	CHL16-10	580	280	230/270	264	160	180	138	130	108	118	9	/100	25
	CHL16-20	650	360	270/	270	170	220	140	230	190	120	12		43
	CHL16-30	670	375	305/	281	190	255	140	260	216	132	12		50

Performance curve

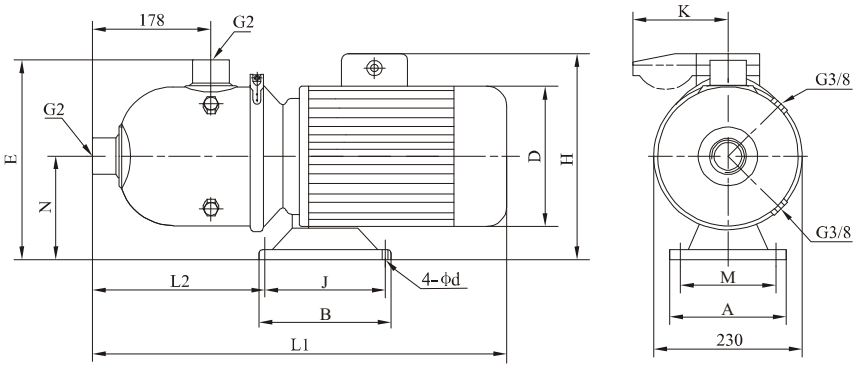
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Performance table

Model	Driving motor		Q (m^3/h)	12	14	16	18	20	22	24	26	28	30	32
	(kW)	(hp)												
CHL20-10	2.2	3	H (m)	18	17	16.5	16	15.5	14.5	13.5	12.5	11.5	10	9
CHL20-20	4	5.5		37	36	35	34	32.5	31.5	30	29	27.5	24.5	22
CHL20-30	5.5	7.5		55	54.5	54	53	51.5	50.5	48	45.5	42	38.5	34

Installation sketch

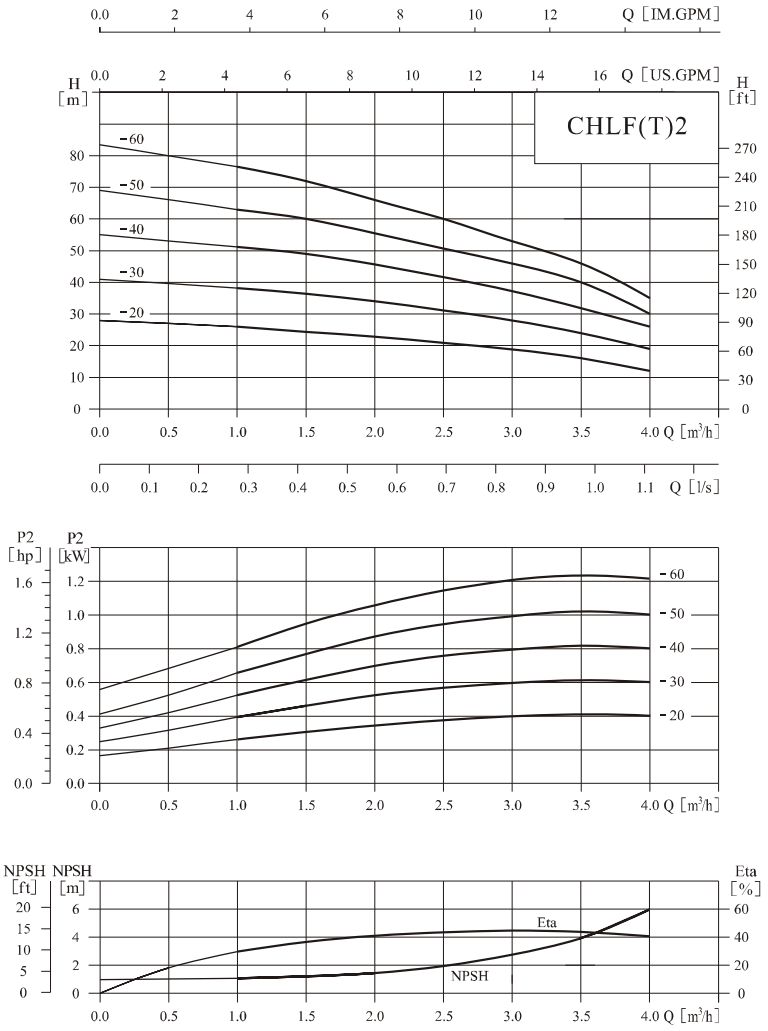


Size and weight

Motor	Model	Size (mm)												Weight (kg)
		L1	L2	H	D	E	N	A	M	B	J	d	K	
Three-phase/ single-phase	CHL20-10	580	280	240/270	180	268	118	130	108	160	138	9	/100	26
	CHL20-20	650	360	270/	220	270	120	230	190	170	140	12		43
	CHL20-30	670	375	305/	255	282	132	260	216	190	140	12		56

Performance curve

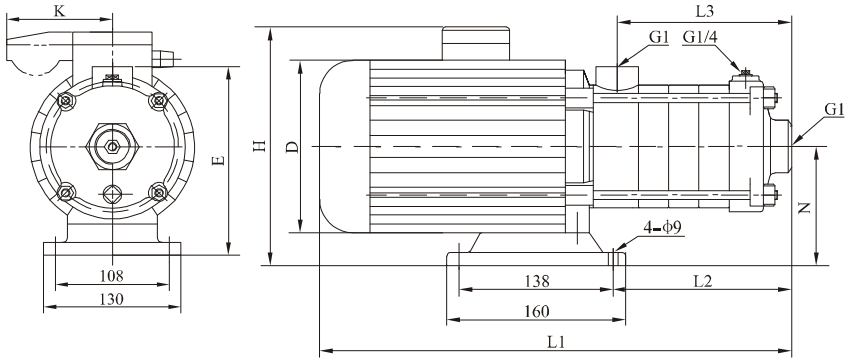
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Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	1	1.5	2	2.5	3	3.5	4
CHLF(T)2-20	0.55	0.75	H (m)	26	24	21	19	18	16	12
CHLF(T)2-30	0.75	1		38	36	33	29	27	24	19
CHLF(T)2-40	1.1	1.5		51	48	44	40	36	32	26
CHLF(T)2-50	1.1	1.5		63	60	55	50	46	40	30
CHLF(T)2-60	1.5	2		75	72	66	60	53	46	35

Installation sketch

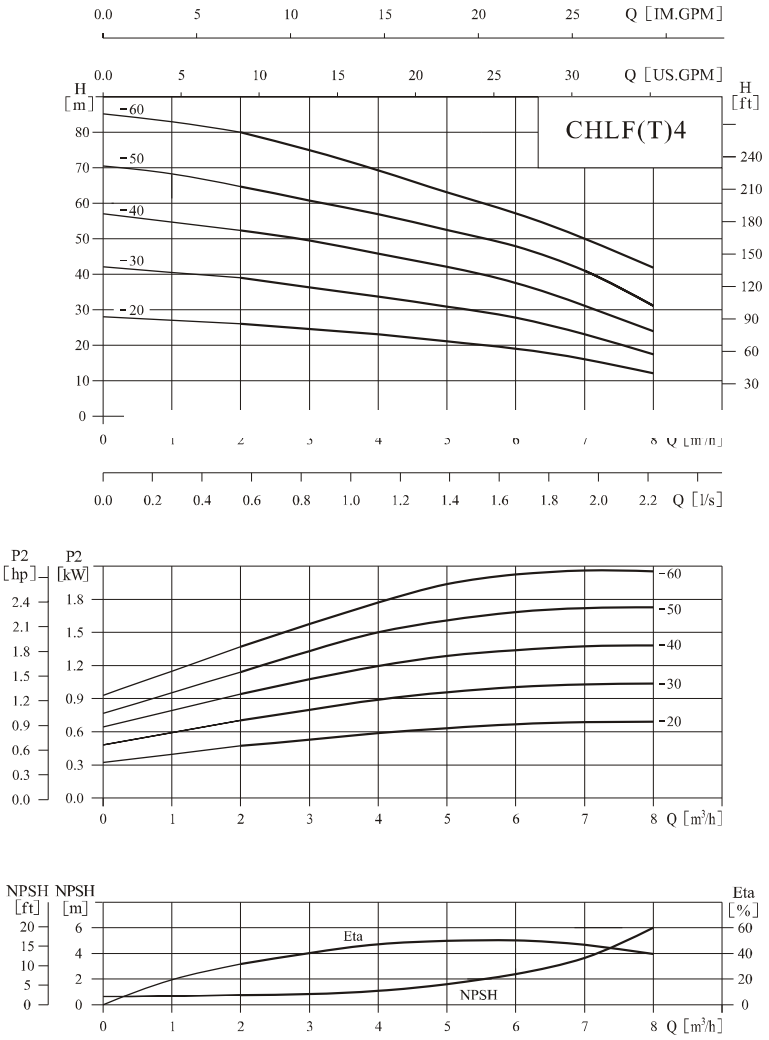


Size and weight

Motor	Model	Size (mm) L1	L2	L3	E	H	N	D	K	Weight (kg)
Three-phase/ single-phase	CHLF(T)2-20	305	87	84	182	230/230	110	145	/96	15
	CHLF(T)2-30	370	105	102	182	230/245	110	170	/100	17
	CHLF(T)2-40	388	123	120	182	230/245	110	170	/100	17
	CHLF(T)2-50	406	141	138	182	230/245	110	170	/100	17
	CHLF(T)2-60	465	159	156	190	240/260	118	170	/100	20

Performance curve

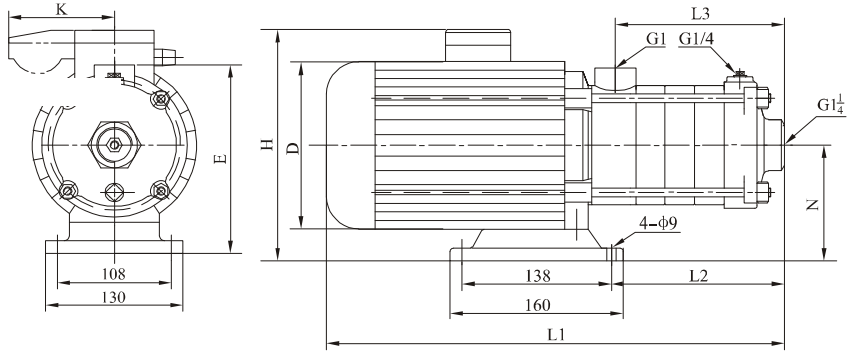
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Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m^3/h)	2	3	4	5	6	7	8
CHLF(T)4-20	0.75	1	H (m)	26	24	22	21	19	16	12
CHLF(T)4-30	1.1	1.5		39	36	33	31	28	23	18
CHLF(T)4-40	1.5	2		53	49	44	42	38	31	24
CHLF(T)4-50	2.2	3		65	62	56	52	48	42	32
CHLF(T)4-60	2.2	3		80	75	69	62	58	50	42

Installation sketch

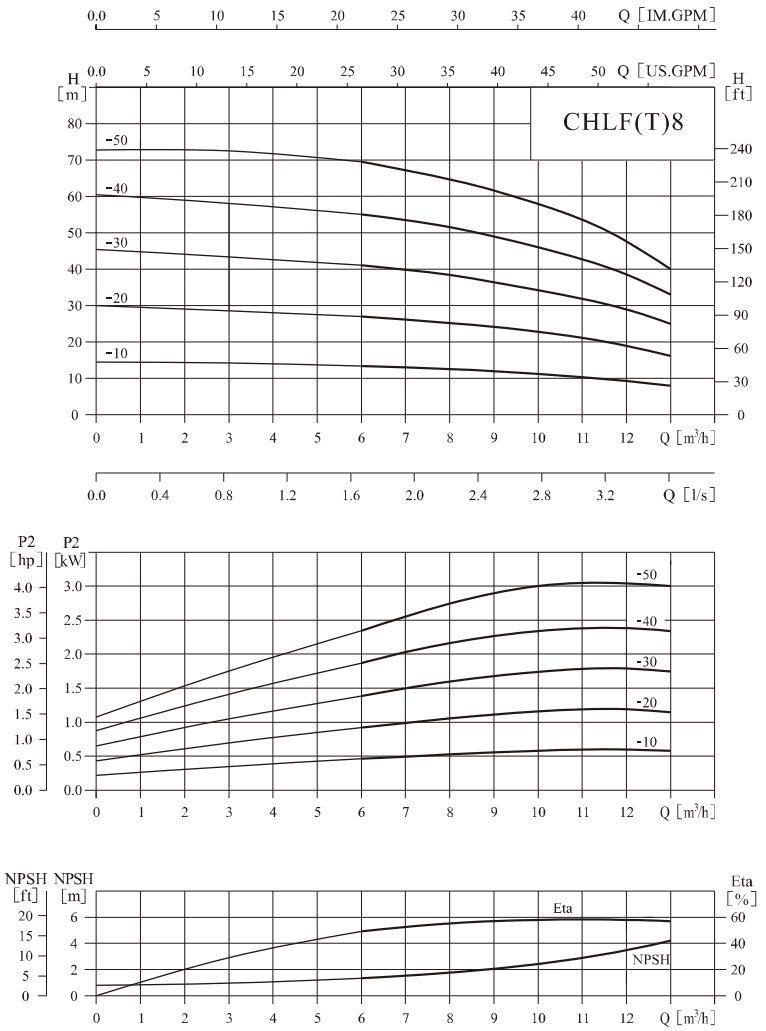


Size and weight

Motor	Model	Size (mm) L1	L2	L3	E	H	N	D	K	Weight (kg)
Three-phase/ single-phase	CHLF(T)4-20	359	105	102	182	230/245	110	170	/100	15
	CHLF(T)4-30	395	132	129	182	230/245	110	170	/100	17
	CHLF(T)4-40	465	159	156	190	240/260	118	170	/100	20
	CHLF(T)4-50	492	186	183	190	240/260	118	180	/100	25
	CHLF(T)4-60	519	213	210	190	240/260	118	180	/100	25

Performance curve

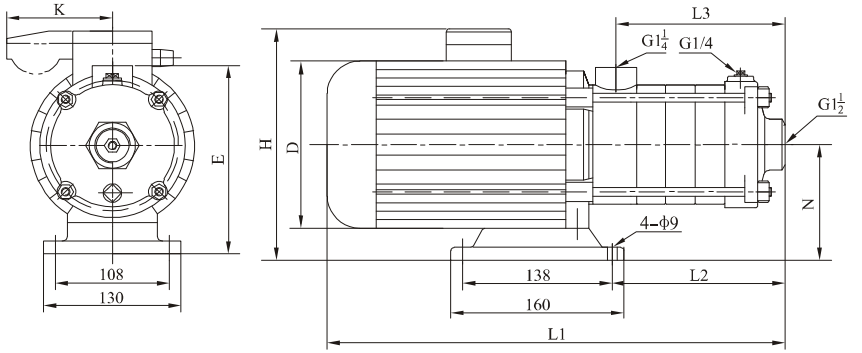
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Performance table

Model	Driving motor (kW)	Driving motor (hp)	Q (m³/h)	6	7	8	9	10	11	12	13
CHLF(T)8-10	0.75	1	H (m)	14	13	12	11.5	11	10	9	8
CHLF(T)8-20	1.5	2		27	26	25	24	23	21	19	16
CHLF(T)8-30	2.2	3		41	40	39	37	34	33	29	25
CHLF(T)8-40	3	4		55	54	52	50	45	43	39	33
CHLF(T)8-50	3	4		69	67	65	62	55	53	49	40

Installation sketch

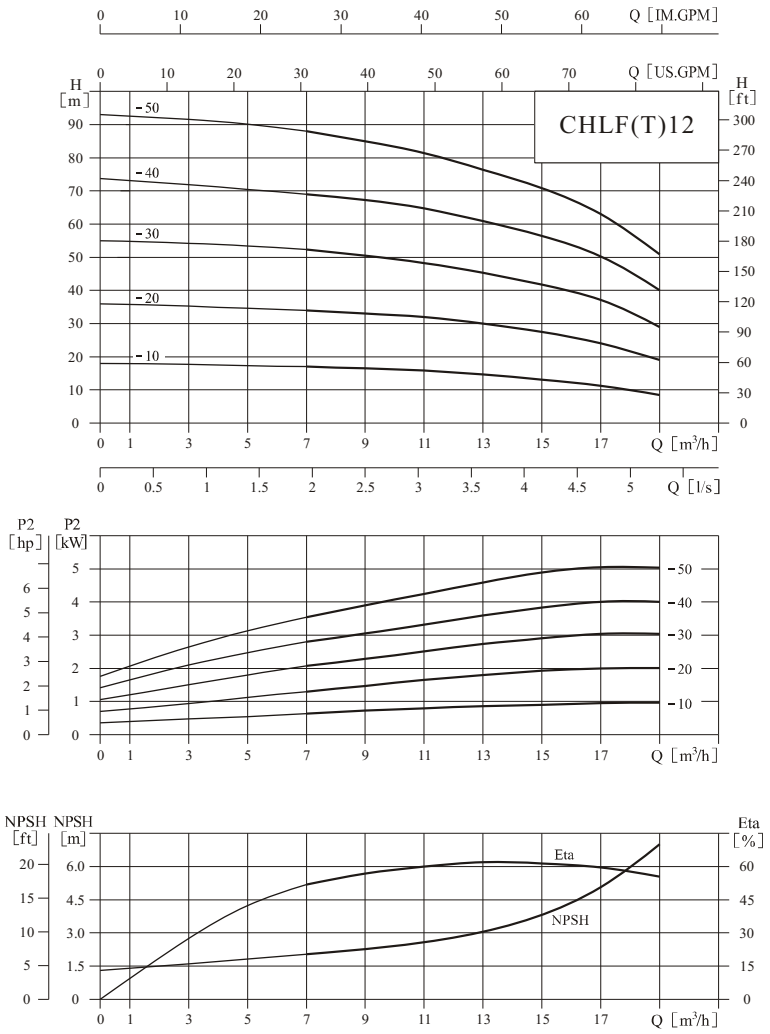


Size and weight

Motor	Model	Size (mm) L1	L2	L3	E	H	N	D	K	Weight (kg)
Three-phase/ single-phase	CHLF(T)8-10	395	128	108	227	230/265	117	170	/100	22
	CHLF(T)8-20	430	128	108	228	240/270	118	170	/100	25
	CHLF(T)8-30	460	158	138	228	240/270	118	170	/100	27
	CHLF(T)8-40	550	188	168	238	270/	128	195		32
	CHLF(T)8-50	580	218	198	238	270/	128	195		32

Performance curve

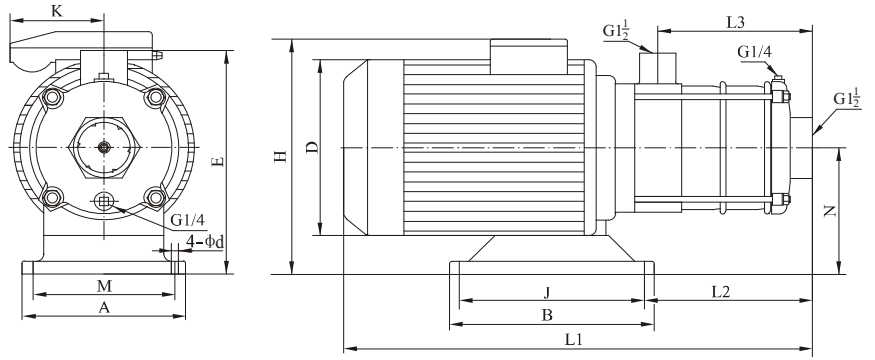
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Performance table

Model	Driving motor		Q (m^3/h)	7	9	11	12	13	15	17	19
	(kW)	(hp)									
CHLF(T)12-10	1.1	1.5	H (m)	17	16.5	16	15	14.5	13	11.5	8.5
CHLF(T)12-20	2.2	3		34	33	32	31	30	27	24.5	19
CHLF(T)12-30	3	4		52.5	50	48.5	47	45	41.5	37.5	29
CHLF(T)12-40	4	5.5		69	67.5	65	63	60.5	56	50	40
CHLF(T)12-50	5.5	7.5		88	85	82	80	76	70.5	63	50.5

Installation sketch

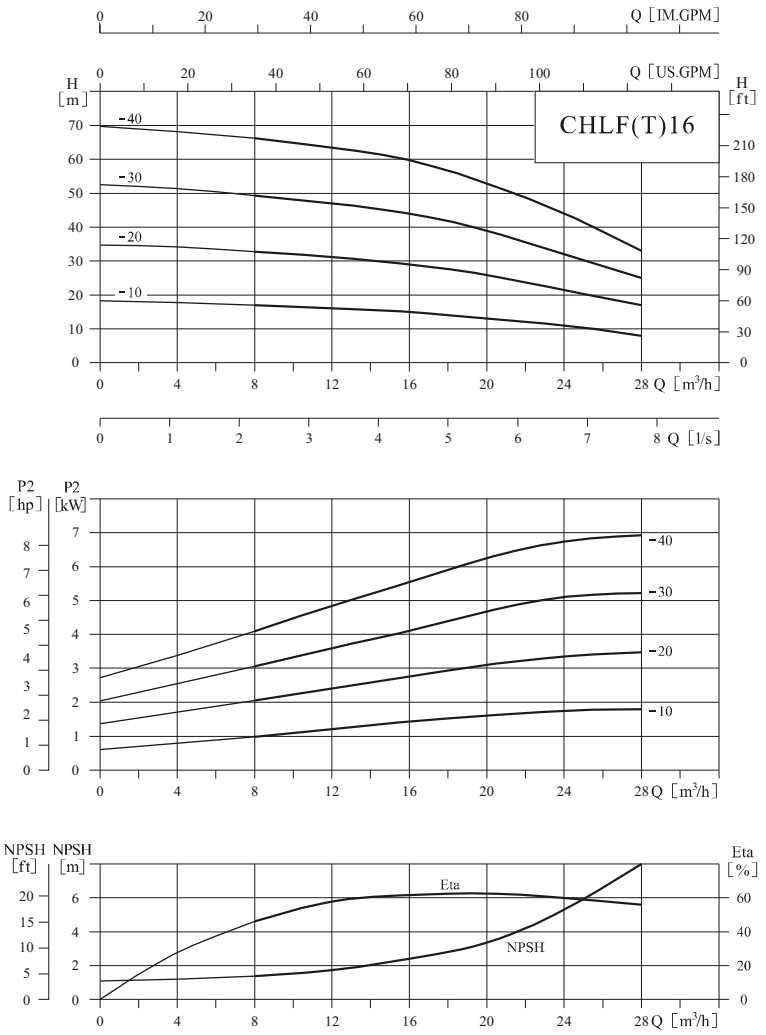


Size and weight

Motor	Model	Size (mm)													Weight (kg)
		L1	L2	L3	H	D	E	N	A	M	B	J	d	K	
Three-phase/ single-phase	CHLF(T)12-10	395	126	108	230/265	180	227	117	130	108	160	138	9	/100	22
	CHLF(T)12-20	430	126	108	240/270	180	228	118	130	108	160	138	9	/100	25
	CHLF(T)12-30	510	156	138	270/	195	240	130	130	108	160	138	9		32
	CHLF(T)12-40	565	285	168	270/	220	230	120	230	190	170	140	12		44
	CHLF(T)12-50	620	325	198	305/	255	242	132	260	216	190	140	12		58

Performance curve

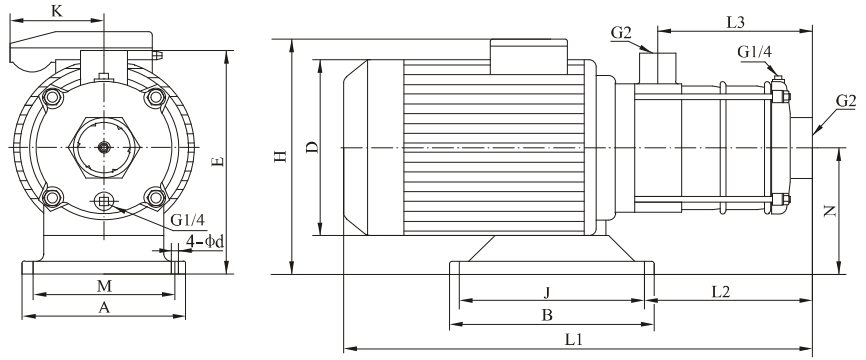
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Performance table

Model	Driving motor		Q (m^3/h)	8	12	16	20	24	28
	(kW)	(hp)							
CHLF(T)16-10	2.2	3	H (m)	17	16	15	13	11	8
CHLF(T)16-20	4	5.5		33	31	29	26	21	17
CHLF(T)16-30	5.5	7.5		49	47	44	39	32	25
CHLF(T)16-40	7.5	10		66	63	59	52.5	43	33

Installation sketch

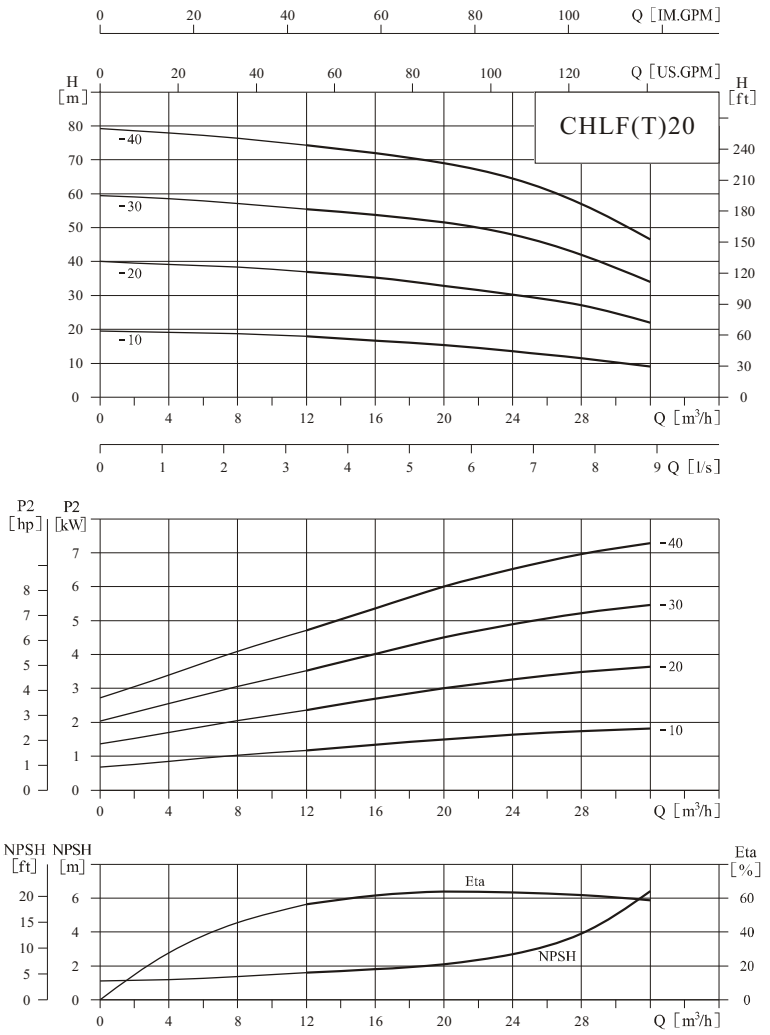


Size and weight

Motor	Model	Size (mm)													Weight (kg)
		L1	L2	L3	H	D	E	N	A	M	B	J	d	K	
Three-phase/ single-phase	CHLF(T)16-10	455	151	126	240/270	180	228	118	131	108	161	138	9	/100	26
	CHLF(T)16-20	531	249	126	270/	220	230	120	230	190	170	140	12		43
	CHLF(T)16-30	600	310	171	305/	255	242	132	260	216	190	140	12		56
	CHLF(T)16-40	645	355	216	305/	255	242	132	260	216	190	140	12		63

Performance curve

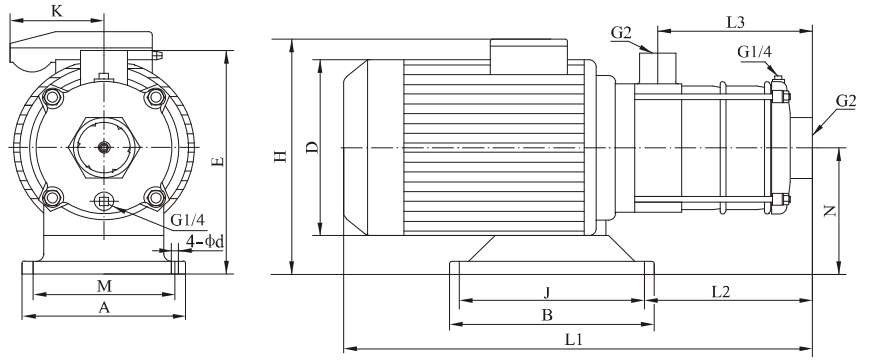
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Performance table

Model	Driving motor		Q (m^3/h)	12	14	16	18	20	22	24	26	28	30	32
	(kW)	(hp)												
CHLF(T)20-10	2.2	3	H (m)	18	17	16.5	16	15.5	14.5	13.5	12.5	11.5	10	9
CHLF(T)20-20	4	5.5		37	36	35	34	32.5	31.5	30	29	27.5	24.5	22
CHLF(T)20-30	5.5	7.5		55	54.5	54	53	51.5	50.5	48	45.5	42	38.5	34
CHLF(T)20-40	7.5	10		74	73	71.5	70.5	69	67	64.5	61.5	57	51.5	46

Installation sketch



Size and weight

Motor	Model	Size (mm)													Weight (kg)
		L1	L2	L3	H	D	E	N	A	M	B	J	d	K	
Three-phase/ single-phase	CHLF(T)20-10	455	151	126	240/270	180	228	118	130	108	160	138	9	/100	26
	CHLF(T)20-20	531	249	126	270/	220	230	120	230	190	170	140	12		43
	CHLF(T)20-30	600	310	171	305/	255	242	132	260	216	190	140	12		56
	CHLF(T)20-40	645	355	216	305/	255	242	132	260	216	190	140	12		63