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CDLF

LIGHT STAINLESS STEEL VERTICAL MULTI-STAGE CENTRIFUGAL PUMP 01-22

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CHL/CHLF/CHLF(T)

STAINLESS STEEL HORIZONTAL MULTI-STAGE CENTRIFUGAL PUMP 25-40

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CDLK

CDLK IMMERSION STAINLESS STEEL MULTI-STAGE CENTRIFUGAL PUMP 62



CMS/CMY

CMS/CMY STAINLESS STEEL HORIZONTAL MULTI-STAGE CENTRIF 63

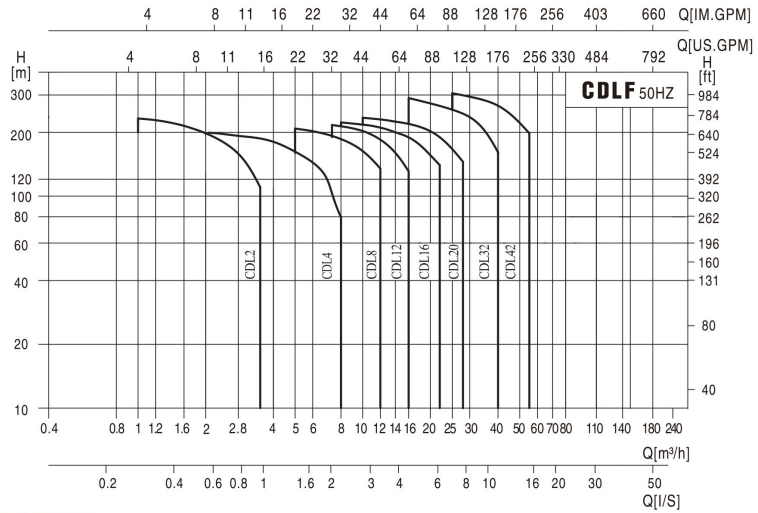


SPK

SPK SILENT INTELLIGENT PUMP 63



Performance scope



Product range

Description	CDLF2	CDLF4	CDLF8	CDLF12	CDLF16	CDLF20	CDLF32	CDLF42
Rated flow[m³/h]	2	4	8	12	16	20	32	42
Rated flow[l/s]	0.56	1.1	2.2	3.3	4.4	5.6	8.9	11.7
Flow range[m³/h]	1-3.5	1.5-7	5-12	7-16	8-22	10-28	16-40	25-55
Flow range[l/s]	0.28-0.97	0.42-1.9	1.4-3.3	1.9-4.4	2.2-6.1	2.8-7.8	4.4-11.1	6.9-15.3
Max.pressure[bar]	23	21	21	22	22	23	29	30
Motor power[kW]	0.37-3	0.37-4	0.75-7.5	1.5-11	2.2-15	1.1-18.5	1.5-30	3.0-45
Temperature range[℃]	-15~+120							
Max.efficiency[%]	46	57	62	63	66	69	73	75
Type								
CDLF	●	●	●	●	●	●	●	●
CDLF Pipe connection								
DIN Flange	Dn25	Dn32	Dn40	DN50	DN50	DN50	DN65	DN80
Cutting ferrule joint	DN32	DN32	DN50	DN50	DN50	DN50		
Pipe thread	ZG1¼	ZG1¼	ZG2	ZG2	ZG2	ZG2		

Pump

CDLF is a kind of vertical non-self priming multistage centrifugal pump, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pres-sure-resistant cylinder and flow passage components are fixed between pump head and inlet &outlet section with stay bolts. The inlet and outlet are located at the pump bottom at the same plane. This kind of pump can be equipped with an intelligent protector to effectively prevent it from dry-running, out-of-phase and overload.

Motor

Full-enclosed air-blast two-pole standard motor

Protection class: IP55

Insulation class: F

Standard voltage: 50Hz: 1×220-230/240V
3×200-220/346-380V
3×220-240/380-415V
3×380-415V

Operation conditions

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- **Liquid temperature:**
  Normal temperature type:-15℃~+70℃,
  Hot water type:-15℃~+120℃
- **Ambient temperature:** up to +40℃
- **Altitude:**up to 1000m

Application

CDLF is a kind of multinational products.It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure. CDLF is suitable for slightly corrosive liquid.

Water supply: Water filter and transport in Water works, boosting of main pipeline, boosting in high-rise buildings.

Industrial boosting: Process flow water system, cleaning system, high-pressure washing system, fire fighting system.

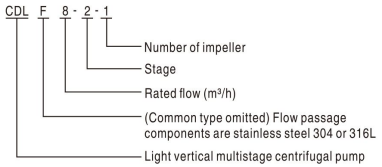
Industrial liquid conveying: Cooling and air-conditioning system, boiler water supply and condensing system,machine-associated purpose, acids and alkali.

Water treatment: Ultra-filtration system, reverse osmosis system, distillation system, separator, swimming pool.

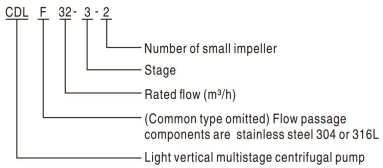
Irrigation: Farmland irrigation, spray irrigation, dripping irrigation.

Definition of Model

1.CDLF 2,4,8,12,16,20



2.CDLF 32,42

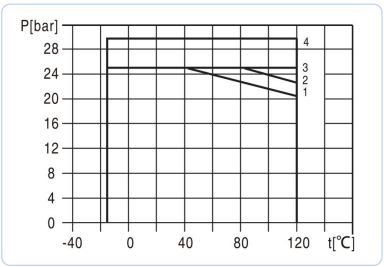


Max.Working pressure

Model	Curve number
CDLF2,4 Flange,cutting ferrule joint,pipe thread	1
CDLF8,12,16,20 Flange,cutting ferrule joint,pipe thread	2
CDLF32	4
CDLF42	
42-10-1~42-90 42-100-2~42-130-2	3(*) 4

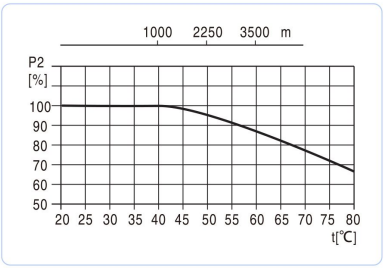
* :For curve 4,need to specify especially;
** :For curve 3,need to specify especially.

The following figure shows the limitation of pressure and temperature,which shall be in the scope as shown in the figure.

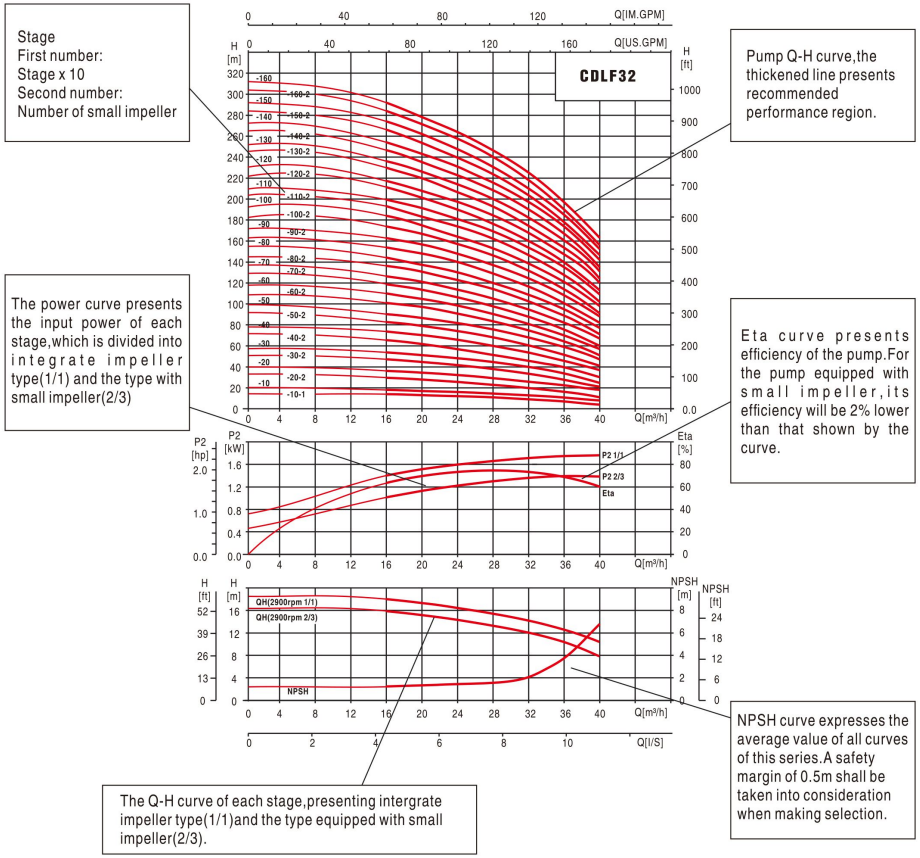


Max.Ambient temperature

when the pump operates under ambient temperature higher than 40℃ or under altitude higher than 1000m,because of low air density and poor cooling effects,the motor output power P2 will be decreased to certain extent.If the pump is operated under the above-said conditions,it should be equipped with motor of higher power.



Curve illustration



Performance curve

Following conditions are suitable for the performance curves shown bellow:

1.All curves are based on the measured values of 50Hz:constant motor speed 2900rpm or 2950rpm.

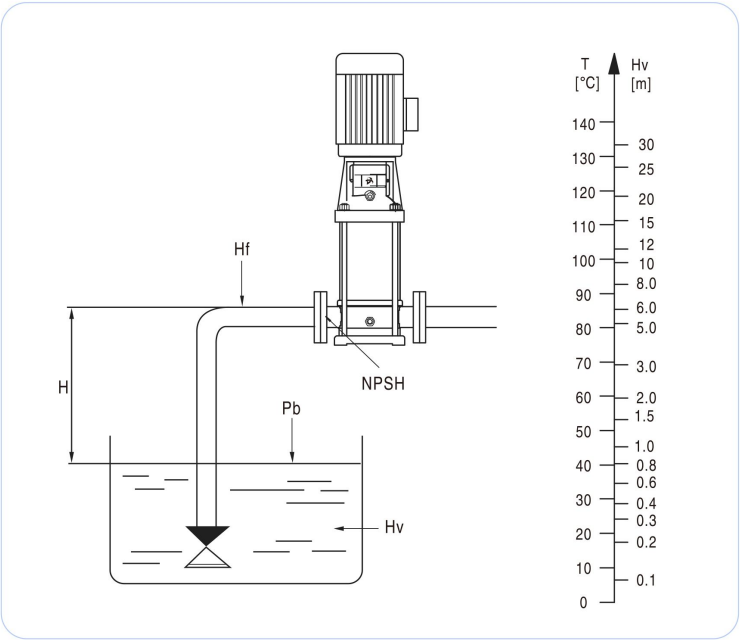
2.Curve tolerance in conformity with ISO9906 Annex A.

3.Measurement is done with 20℃air-free water,kinematic viscosity of 1mm²/sec.

4.The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.

Minimum inlet pressure NPSH

In case that the pressure in pump is lower than the steam pressure used to convey liquid, the cavitations will occur. To avoid cavitations, a minimum pressure at the inlet side of the pump shall be guaranteed.

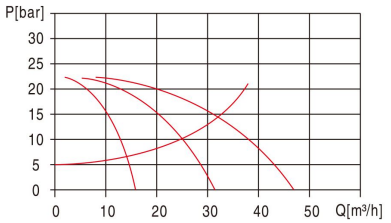


Check and ensure that the pump is not at cavitations state.

Operation in parallel

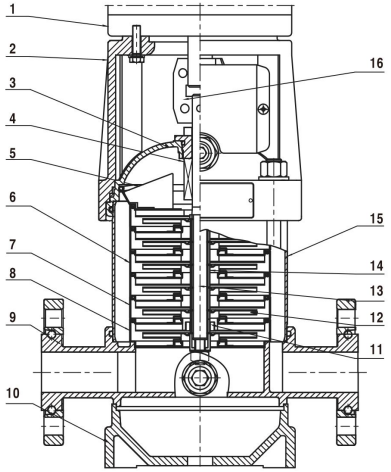
Connecting several pumps in parallcl running will benefit much more than running a single large pump.

- Applicable to different working states necessary in a variable flow system.
- Increasing the possibility of water supply when the pump is in failure. Because in case of pump failure, only part of the system flow is effected.



Two pumps or more can be connected in parallel running if necessary.

Section drawing CDLF2,4



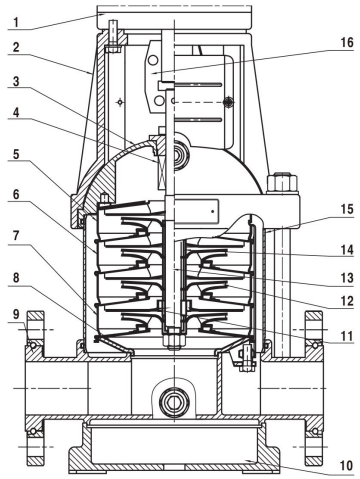
CDLF

Material CDLF2,4

NO.	Name	Material	AISI/ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal		
5	Top diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Support diffuser	Stainless steel	AISI304
8	Inducer	Stainless steel	AISI304
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304

NO.	Name	Material	AISI/ASTM
13	Shaft	Stainless steel	AISI304 AISI316L
14	Impeller sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel	
CDLF			
3	Seal base	Stainless steel	AISI304
9	Inlet and outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM25B

Section drawing CDLF8,12,16,20



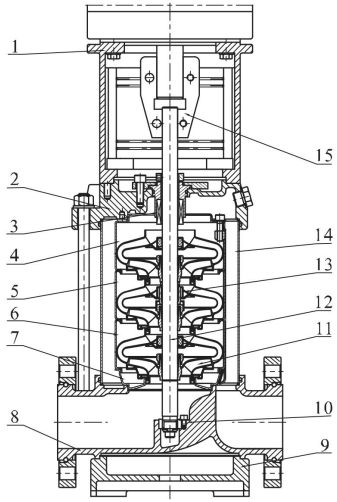
CDLF

Material CDLF8,12,16,20

NO.	Name	Material	AISI/ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal		
5	Top diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Support diffuser	Stainless steel	AISI304
8	Inducer	Stainless steel	AISI304
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304

NO.	Name	Material	AISI/ASTM
13	Shaft	Stainless steel	AISI304 AISI316L
14	Impeller sleeve	Stainless steel	AISI304
15	Cylinder	Stainless steel	AISI304
16	Coupling	Carbon steel	
		CDLF	
3	Seal base	Stainless steel	AISI304
9	Inlet and outlet chamber	Stainless steel	AISI304
10	Base plate	Cast iron	ASTM25B

Section drawing CDLF32,42



CDLF

Material CDLF32,42

NO.	Name	Material	AISI/ASTM
1	Bracket	Cast iron	ASTM25B
3	Mechanical seal		
4	Top diffuser	Stainless steel	AISI304
5	Support diffuser	Stainless steel	AISI304
6	Diffuser	Stainless steel	AISI304
7	Inducer	Stainless steel	AISI304
9	Base plate	Cast iron	ASTM25B
10	Bottom bearing	Tungsten carbide	
11	Impeller	Stainless steel	AISI304

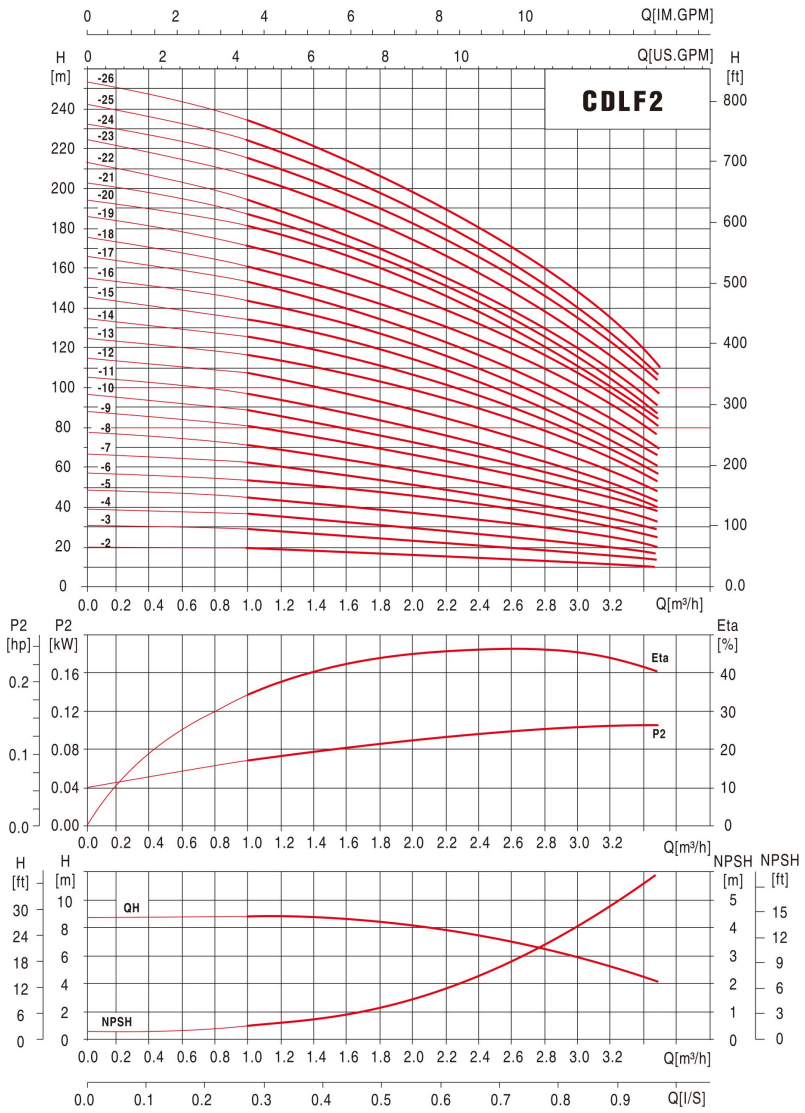
NO.	Name	Material	AISI/ASTM
12	Shaft	Stainless steel	AISI316L AISI304 AISI431
13	Intermediate bearing	Tungsten carbide	
14	Cylinder	Stainless steel	AISI304
15	Coupling	Carbon steel	
	Rubber parts	NBR	
		CDLF	
2	Pump head	Stainless steel	AISI304
8	Inlet and outlet chamber	Stainless steel	AISI304

MARO water pumps

CDLF2, 50Hz

● Performance curve

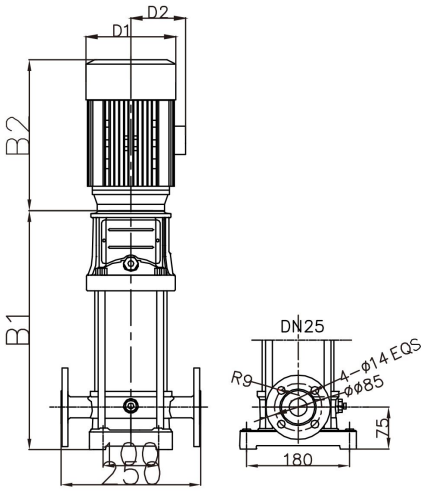
2900rpm



● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	1	1.2	1.6	2.0	2.4	2.8	3.2	3.5
CDLF/CDL2-2	0.37	0.5	1"/1"	H (m)	18	17	16	15	13	12	10	8
CDLF/CDL2-3	0.37	0.5			27	26	24	22	20	18	15	12
CDLF/CDL2-4	0.55	0.75			36	35	33	30	26	24	20	16
CDLF/CDL2-5	0.55	0.75			45	43	40	37	33	30	24	20
CDLF/CDL2-6	0.75	1			53	52	50	45	40	36	30	24
CDLF/CDL2-7	0.75	1			63	61	57	52	47	41	35	28
CDLF/CDL2-9	1.1	1.5			80	78	73	67	61	54	45	37
CDLF/CDL2-11	1.1	1.5			98	95	89	82	73	64	54	44
CDLF/CDL2-13	1.5	2			116	114	106	98	89	78	64	52
CDLF/CDL2-15	1.5	2			134	130	123	112	100	90	73	60
CDLF/CDL2-18	2.2	3			161	157	148	136	121	108	91	76
CDLF/CDL2-22	2.2	3			197	192	180	165	148	130	110	90
CDLF/CDL2-26	3.0	4			232	228	214	198	179	158	130	110

● Installation sketch



● Size and weight

Model	Size(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
CDLF2-2	259	235	494	170	120	20
CDLF2-3	277	235	512	170	120	20
CDLF2-4	295	235	530	170	120	22
CDLF2-5	313	235	548	170	120	23
CDLF2-6	332	240	572	170	120	26
CDLF2-7	350	240	590	170	120	26
CDLF2-9	386	240	626	170	120	28
CDLF2-11	422	240	662	170	120	29
CDLF2-13	429	280	709	180	130	35
CDLF2-15	515	280	795	180	130	36
CDLF2-18	570	280	850	180	130	41
CDLF2-22	630	280	910	180	130	42
CDLF2-26	690	280	970	180	130	52

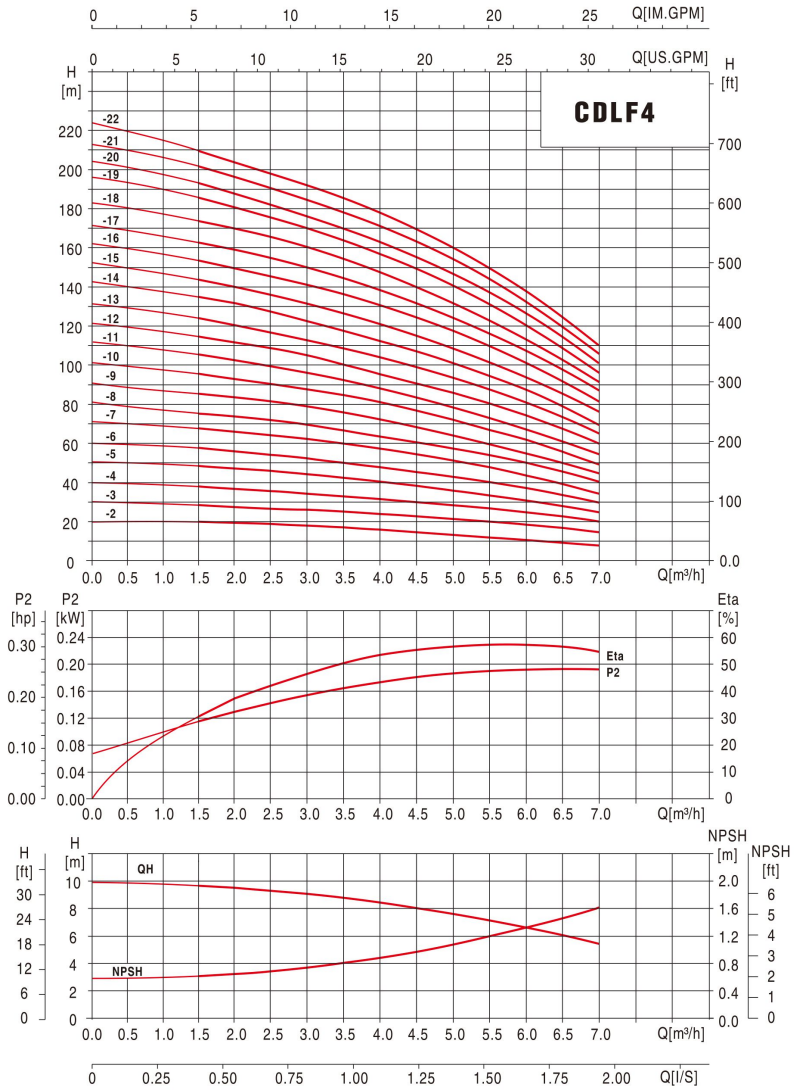
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contast us for details.

MARO water pumps

CDLF4, 50Hz

● Performance curve

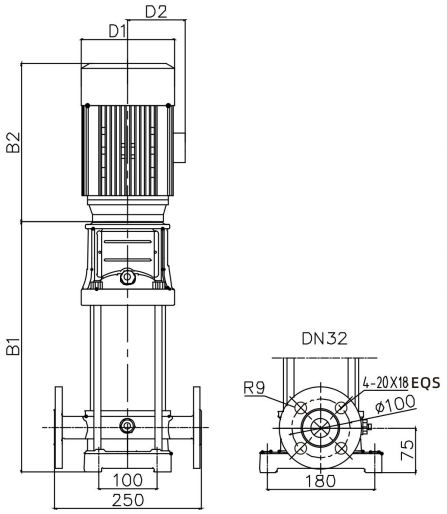
2900rpm



● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	1.5	2.0	3.0	4.0	5.0	6.0	7.0
CDLF/CDL4-2	0.37	0.5	1.25"/ 1.25"	H (m)	19	18	17	15	13	10	8
CDLF/CDL4-3	0.55	0.75			28	27	26	24	20	18	13
CDLF/CDL4-4	0.75	1			38	36	34	32	27	24	19
CDLF/CDL4-5	1.1	1.5			47	45	43	40	34	31	23
CDLF/CDL4-6	1.1	1.5			56	54	52	48	41	37	28
CDLF/CDL4-7	1.5	2			66	63	61	56	48	43	33
CDLF/CDL4-8	1.5	2			74	72	70	64	55	50	38
CDLF/CDL4-10	2.2	3			96	90	87	81	71	62	48
CDLF/CDL4-12	2.2	3			114	108	104	95	85	75	58
CDLF/CDL4-14	3.0	4			136	126	122	112	101	89	68
CDLF/CDL4-16	3.0	4			152	144	140	129	115	101	78
CDLF/CDL4-19	4.0	5.5			183	171	168	153	137	122	93
CDLF/CDL4-22	4.0	5.5			211	200	192	178	160	138	108

● Installation sketch



● Size and weight

Model	Size(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
CDLF4-2	255	235	490	170	110	21
CDLF4-3	282	235	517	170	110	22
CDLF4-4	309	260	569	170	110	25
CDLF4-5	336	260	596	170	110	27
CDLF4-6	390	260	650	170	110	27
CDLF4-7	420	300	720	180	110	33
CDLF4-8	447	300	747	180	110	33
CDLF4-10	510	300	810	180	110	37
CDLF4-12	565	300	865	180	110	38
CDLF4-14	642	310	952	180	135	46
CDLF4-16	696	310	1006	180	135	48
CDLF4-19	777	350	1127	180	135	57
CDLF4-22	858	350	1208	180	135	59

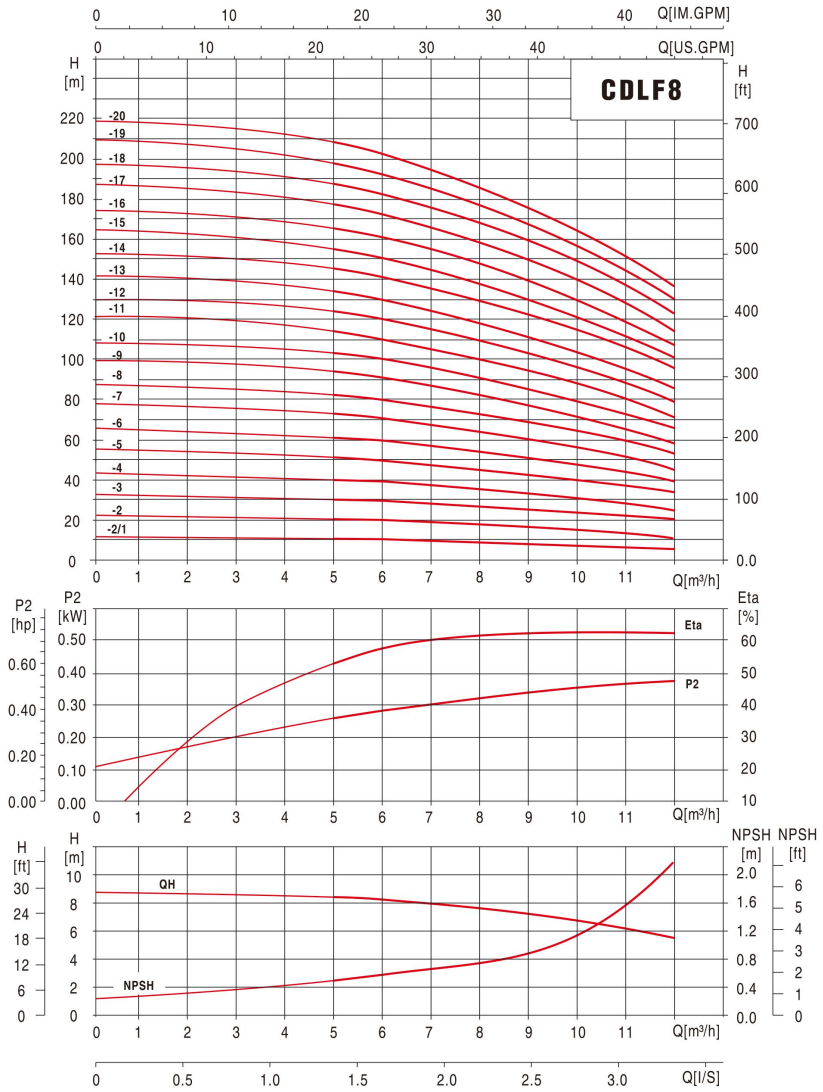
The overall dimensions of the single-phase motor and explosion-proof motor are a little different.Pls contast us for details.

MARO water pumps

CDLF8, 50Hz

● Performance curve

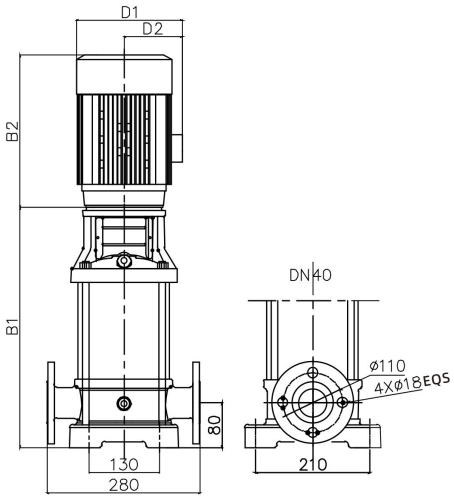
2900rpm



● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	5	6	7	8	9	10	11	12
CDLF/CDL8-2	0.75	1	1.5"/1.5"	H (m)	20	19.5	19	18	17	16	14	13
CDLF/CDL8-3	1.1	1.5			30	29.5	28.5	27	25	24	21	19
CDLF/CDL8-4	1.5	2			41	39.5	38	36	34	32	28	26
CDLF/CDL8-5	2.2	3			52	50	48	45	42	40	36	32
CDLF/CDL8-6	2.2	3			62	60	57	54	51	48	43	37
CDLF/CDL8-8	3.0	4			83	80	77	73	69	65	58	52
CDLF/CDL8-10	4.0	5.5			104	100	97	92	87	81	73	65
CDLF/CDL8-12	4.0	5.5			124	120	116	111	104	92	87	78
CDLF/CDL8-14	5.5	7.5			145	141	136	130	122	113	102	92
CDLF/CDL8-16	5.5	7.5			166	161	156	148	139	130	118	106
CDLF/CDL8-18	7.5	10			187	182	175	167	157	146	134	120
CDLF/CDL8-20	7.5	10			208	202	195	186	175	163	150	135

● Installation sketch



● Size and weight

Model	Size(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
CDLF8-2	320	240	560	170	105	32
CDLF8-3	350	240	590	170	105	34
CDLF8-4	385	240	625	175	110	40
CDLF8-5	415	240	655	175	110	44
CDLF8-6	445	240	685	175	110	45
CDLF8-8	520	315	835	180	175	53
CDLF8-10	580	315	895	180	175	64
CDLF8-12	640	315	955	180	175	66
CDLF8-14	720	415	1135	258	180	81
CDLF8-16	780	415	1195	258	180	84
CDLF8-18	840	415	1255	258	180	93
CDLF8-20	900	415	1315	258	180	94

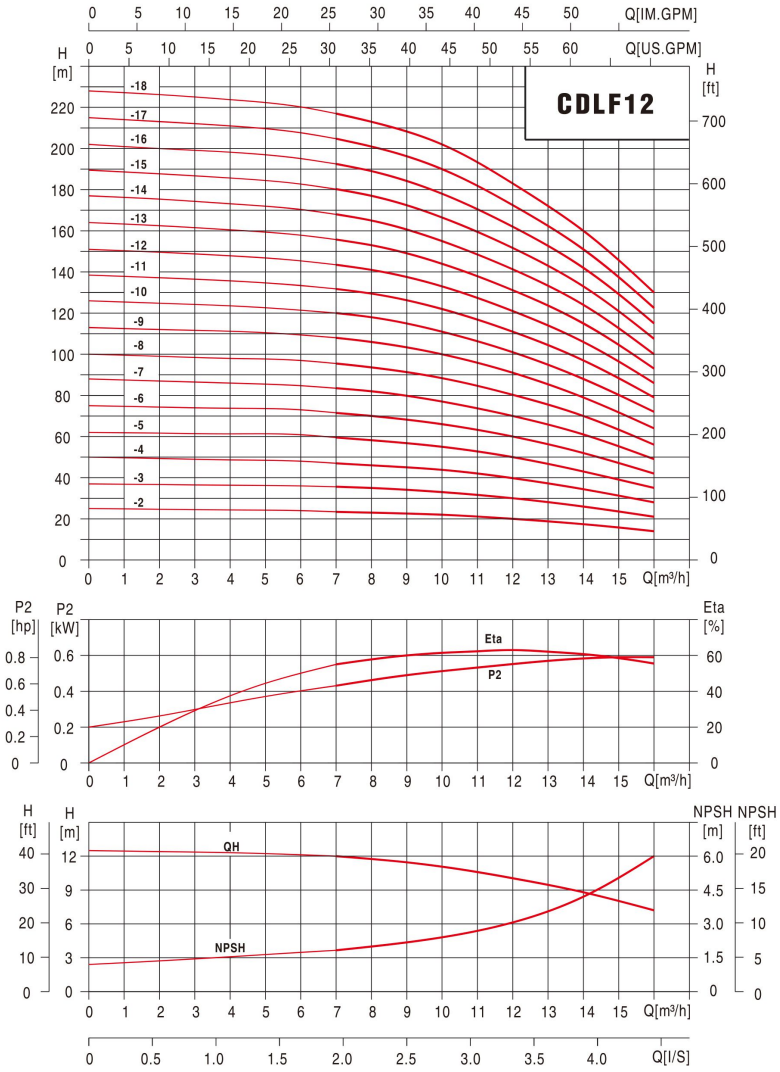
The overall dimensions of the single-phase motor and explosion-proof motor are a little different.Pls contast us for details.

MARO water pumps

CDLF12, 50Hz

● Performance curve

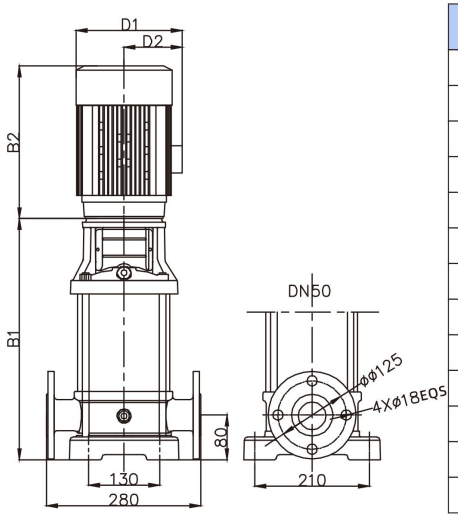
2900rpm



● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	7	8	9	10	11	12	13	14	15	16
CDLF/CDL12-2	1.5	2			23.5	23	22.5	22	21	20	18.5	17	15.5	14
CDLF/CDL12-3	2.2	3			35.5	35	34	33	31.5	30	28	26	23.5	21
CDLF/CDL12-4	3.0	4			47	46	45	44	42	40	37	34	31	28
CDLF/CDL12-5	3.0	4			59.5	58	56.5	55	52.5	50	46.5	43	39	35
CDLF/CDL12-6	4.0	5.5			71.5	70	68	66	63	60	56	52	47	42
CDLF/CDL12-7	5.5	7.5			83.5	82	79.5	77	73.5	70	65.5	61	55	49
CDLF/CDL12-8	5.5	7.5	2"/2"	H (m)	95.5	94	91	88	84	80	75	70	63	56
CDLF/CDL12-9	5.5	7.5			108	106	103	100	95.5	91	85	79	71.5	64
CDLF/CDL12-10	7.5	10			120	118	114.5	111	106	101	94.5	88	80	72
CDLF/CDL12-12	7.5	10			143.5	141	137	133	127	121	113.5	106	96	86
CDLF/CDL12-14	11	15			168	165	160	155	148	141	132.5	124	112	100
CDLF/CDL12-16	11	15			192.5	189	183.5	178	170	162	152	142	128.5	115
CDLF/CDL12-18	11	15			217	213	207.5	202	192.5	183	171.5	160	145	130

● Installation sketch



● Size and weight

Model	Size(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
CDLF12-2	325	280	605	195	110	39
CDLF12-3	355	280	635	195	110	43
CDLF12-4	400	310	710	240	135	51
CDLF12-5	400	350	740	240	135	53
CDLF12-6	445	350	795	240	135	61
CDLF12-7	505	415	920	258	160	73
CDLF12-8	535	415	950	258	160	74
CDLF12-9	565	415	980	258	160	76
CDLF12-10	595	415	1010	258	160	83
CDLF12-12	655	415	1070	258	160	87
CDLF12-14	750	500	1250	300	215	157
CDLF12-16	810	500	1310	300	215	161
CDLF12-18	870	500	1370	300	215	164

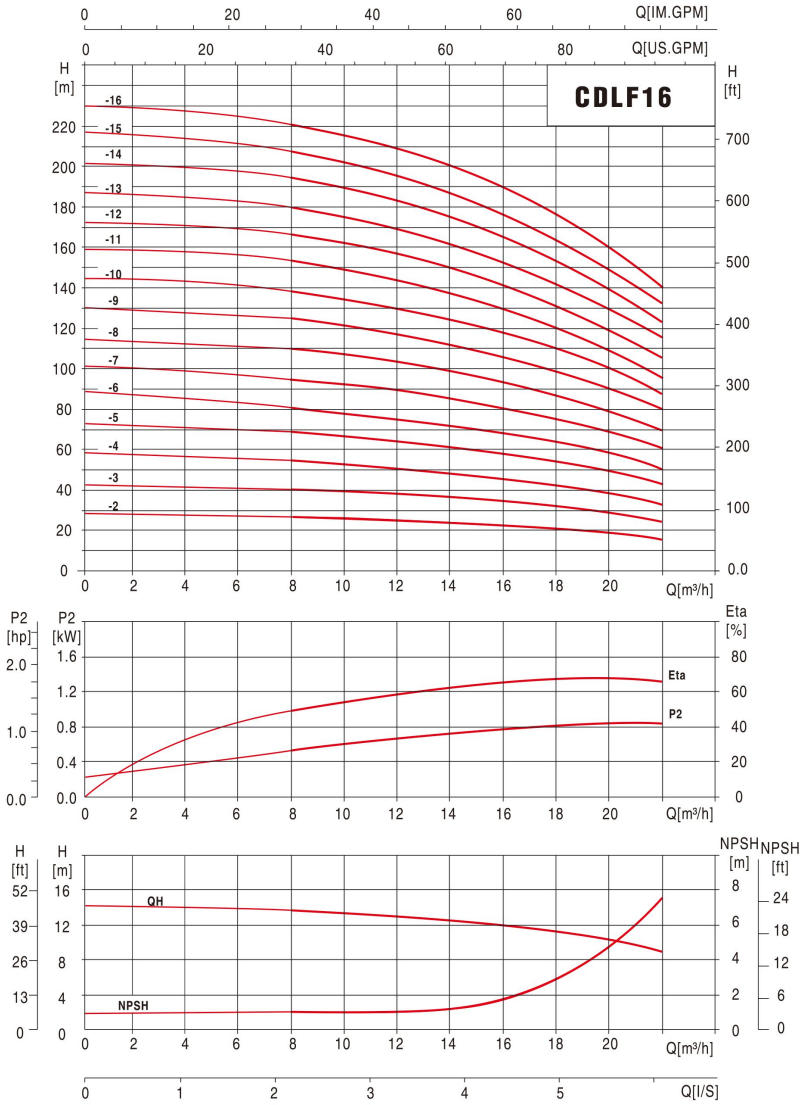
The overall dimensions of the single-phase motor and explosion-proof motor are a little different.Pls contast us for details.

MARO water pumps

CDLF16, 50Hz

● Performance curve

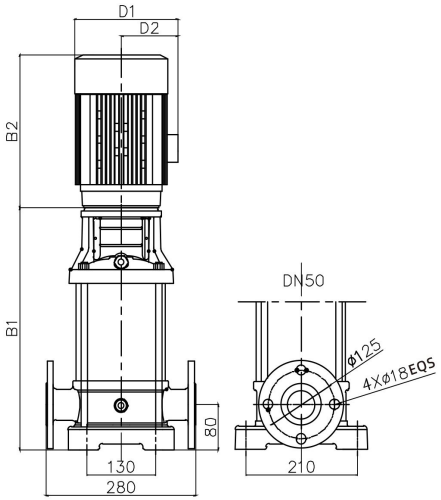
2900rpm



● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	8	10	12	14	16	18	20	22
CDLF/CDL16-2	2.2	3	2"/2"	H (m)	27	26	25	24	22	21	19	16
CDLF/CDL16-3	3.0	4			41	40	38	37	34	32	29	25
CDLF/CDL16-4	4.0	5.5			54	53	52	49	46	43	38	34
CDLF/CDL16-5	5.5	7.5			68	67	65	62	58	54	48	43
CDLF/CDL16-6	5.5	7.5			82	80	78	74	70	64	58	52
CDLF/CDL16-7	7.5	10			96	95	91	87	82	76	68	61
CDLF/CDL16-8	7.5	10			110	108	104	99	94	86	77	70
CDLF/CDL16-10	11	15			138	136	131	125	118	109	97	87
CDLF/CDL16-12	11	15			166	162	157	150	141	130	116	105
CDLF/CDL16-14	15	20			194	190	184	175	166	152	136	122
CDLF/CDL16-16	15	20			222	217	210	200	189	174	156	140

● Installation sketch



● Size and weight

Model	Size(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
CDLF16-2	310	280	590	180	135	42
CDLF16-3	395	310	705	195	135	50
CDLF16-4	440	350	790	240	135	59
CDLF16-5	500	415	915	258	165	76
CDLF16-6	545	415	960	258	165	77
CDLF16-7	590	415	1005	258	165	84
CDLF16-8	635	415	1050	258	220	86
CDLF16-10	780	500	1280	300	220	158
CDLF16-12	870	500	1370	300	220	161
CDLF16-14	960	500	1460	300	220	174
CDLF16-16	1050	500	1550	300	220	178

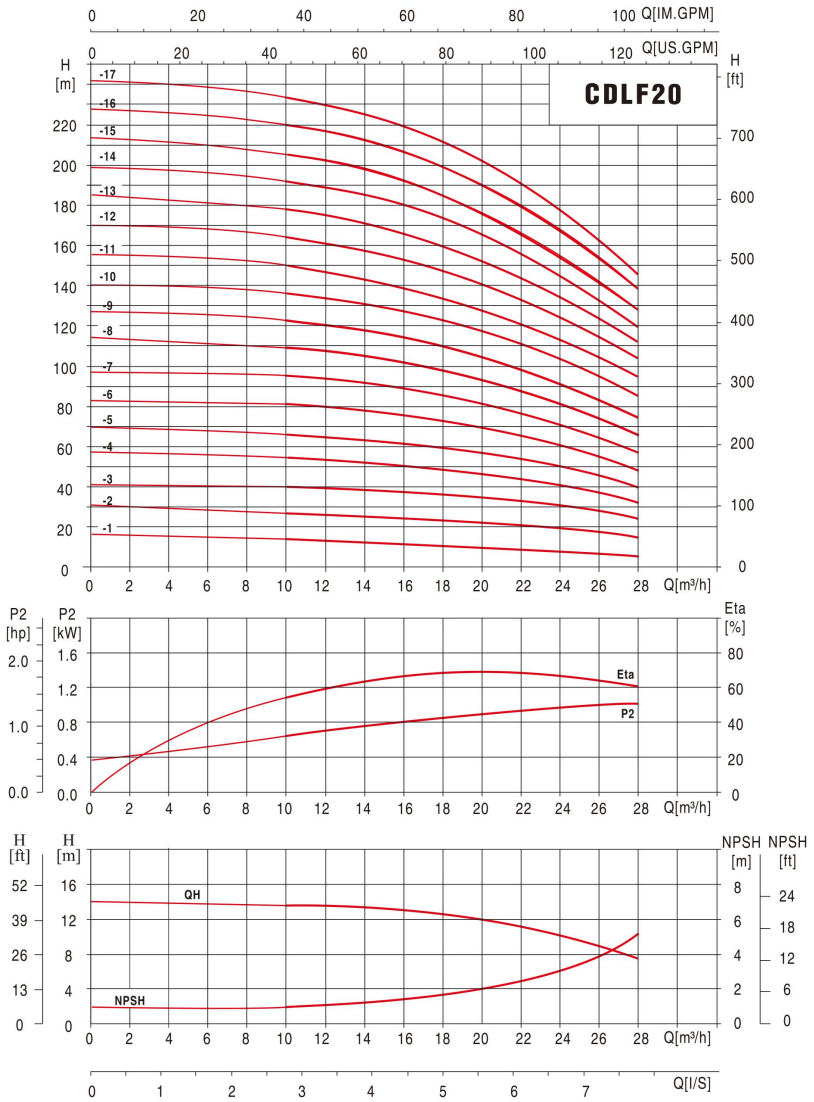
The overall dimensions of the single-phase motor and explosion-proof motor are a little different.Pls contast us for details.

MARO water pumps

CDLF20, 50Hz

● Performance curve

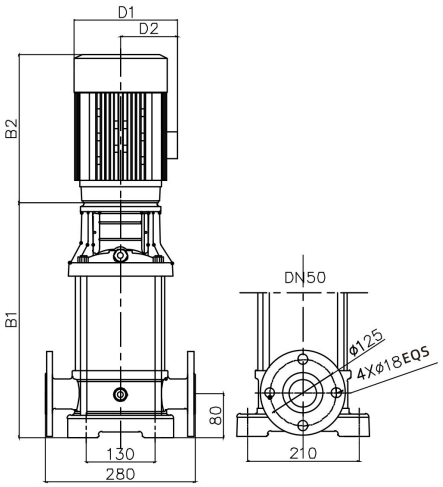
2900rpm



● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	10	12	14	16	18	20	22	24	26	28
CDLF/CDL20-1	1.1	1.5	2"/2"	H (m)	13.5	13	12.5	12	11	10	9	8	7	6
CDLF/CDL20-2	2.2	3			27	26.5	26	25	24	23	22	20	18	15
CDLF/CDL20-3	4.0	5.5			40	39.5	39	38	37	35	33	30	27	24
CDLF/CDL20-4	5.5	7.5			54	53	52	51	49	47	44	41	37	33
CDLF/CDL20-5	5.5	7.5			67	66	64	62	60	58	55	50	45	40
CDLF/CDL20-6	7.5	10			81	79	77	75	73	70	66	61	55	49
CDLF/CDL20-7	7.5	10			95	93	91	89	86	82	77	71	65	58
CDLF/CDL20-8	11	15			109	107	105	102	99	94	89	82	75	67
CDLF/CDL20-10	11	15			136	134	131	128	124	118	111	103	95	85
CDLF/CDL20-12	15	20			164	162	158	154	149	142	133	124	114	102
CDLF/CDL20-14	15	20			192	189	185	180	174	166	156	145	133	119
CDLF/CDL20-17	18.5	25			234	230	225	219	212	202	190	177	162	145

● Installation sketch



● Size and weight

Model	Size(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
CDLF20-1	290	240	530	180	135	33
CDLF20-2	310	280	590	195	135	42
CDLF20-3	395	350	745	240	135	58
CDLF20-4	460	415	875	258	165	74
CDLF20-5	505	415	920	258	165	76
CDLF20-6	550	415	965	258	165	82
CDLF20-7	645	415	1060	258	220	84
CDLF20-8	690	500	1190	300	220	153
CDLF20-10	780	500	1280	300	220	157
CDLF20-12	870	500	1370	300	220	170
CDLF20-14	960	500	1460	300	220	172
CDLF20-17	1095	500	1595	300	220	195

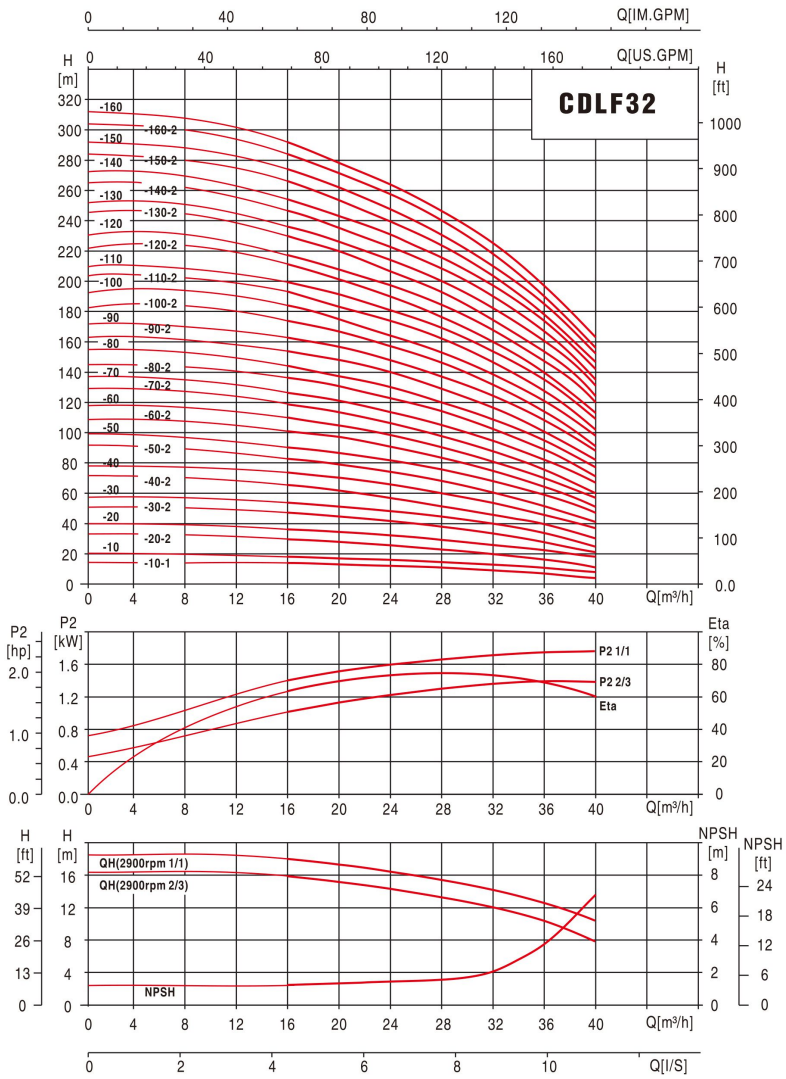
The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contast us for details.

MARO water pumps

CDLF32, 50Hz

● Performance curve

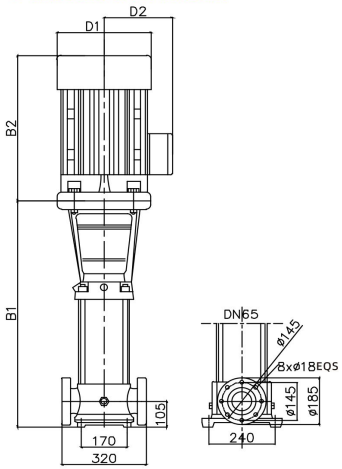
2900rpm



● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	16	20	24	28	32	36	40
CDLF/CDL32-1-1	1.5	2	2.5"/2.5"	H (m)	14	13	12	11	9	7	4
CDLF/CDL32-1	2.2	3			18	17	15	14	13	11	8
CDLF/CDL32-2-2	3.0	4			29	28	26	23	20	16	11
CDLF/CDL32-2	4.0	5.5			36	34	32	29	27	23	18
CDLF/CDL32-3-2	5.5	7.5			47	44	41	38	33	28	21
CDLF/CDL32-3	5.5	7.5			54	51	48	44	40	35	27
CDLF/CDL32-4-2	7.5	10			65	62	58	53	46	40	30
CDLF/CDL32-4	7.5	10			72	69	65	59	53	47	37
CDLF/CDL32-5-2	11	15			83	79	74	68	60	52	41
CDLF/CDL32-5	11	15			90	86	81	74	67	59	47
CDLF/CDL32-6-2	11	15			101	97	90	83	74	65	51
CDLF/CDL32-6	11	15			108	104	97	90	81	72	57
CDLF/CDL32-7-2	15	20			119	114	107	98	88	78	60
CDLF/CDL32-7	15	20			126	121	113	105	95	85	67
CDLF/CDL32-8-2	15	20			136	131	123	114	102	90	71
CDLF/CDL32-8	15	20			144	138	130	120	109	97	77
CDLF/CDL32-90-2	18. 5	25			154	148	140	128	117	102	82
CDLF/CDL32-90	18. 5	25			162	156	147	136	124	109	88
CDLF/CDL32-100-2	18. 5	25			175	166	157	146	131	115	91
CDLF/CDL32-100	18. 5	25			182	173	164	152	138	122	98
CDLF/CDL32-110-2	22	30			193	184	173	164	146	128	102
CDLF/CDL32-110	22	30			200	191	180	168	153	135	109
CDLF/CDL32-120-2	22	30			211	201	189	178	160	140	113
CDLF/CDL32-120	22	30			218	208	196	184	167	147	120
CDLF/CDL32-130-2	30	40			230	218	206	193	174	153	124
CDLF/CDL32-130	30	40			237	225	213	200	181	160	131
CDLF/CDL32-140-2	30	40			247	235	222	210	189	165	135
CDLF/CDL32-140	30	40			255	242	229	216	196	172	142
CDLF/CDL32-150-2	30	40			266	253	239	224	203	178	145
CDLF/CDL32-150	30	40			274	260	246	231	210	185	152
CDLF/CDL32-160-2	30	40			284	270	255	240	218	190	156
CDLF/CDL32-160	30	40			292	277	262	246	225	197	163

● Installation sketch



● Size and weight

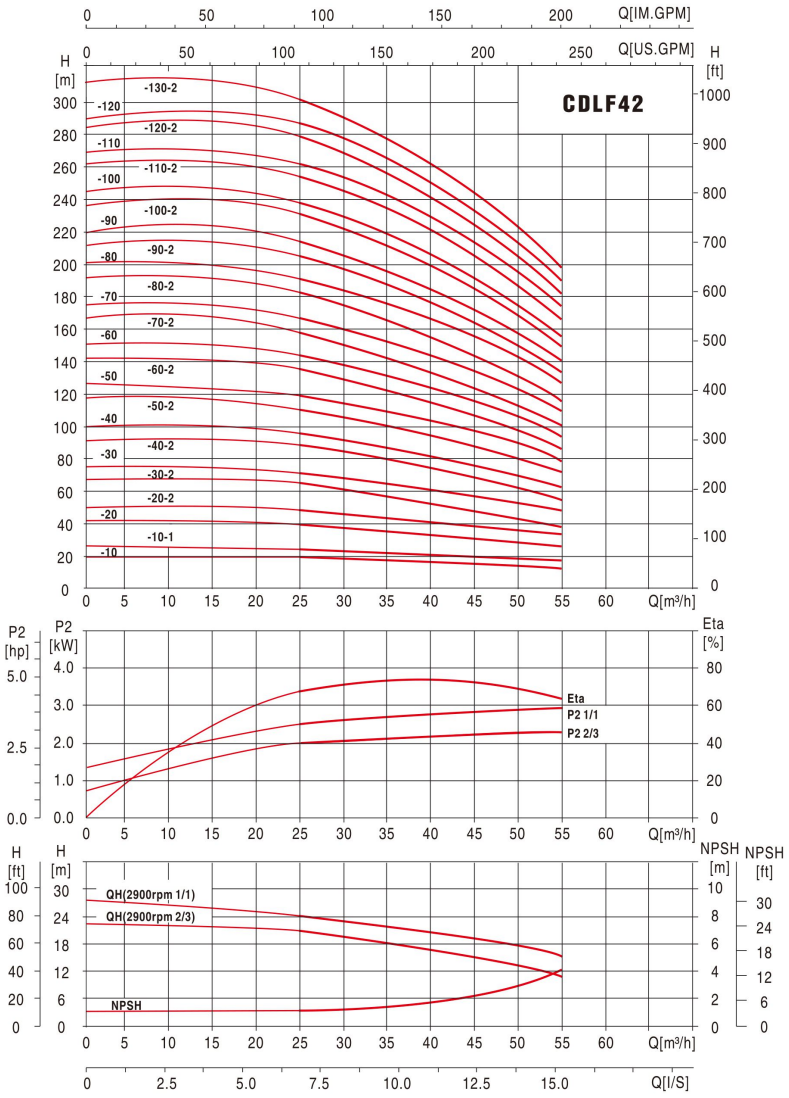
Model	Size(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
CDLF32-1-1/CDLF32-1	505	290	795	190	155	64/68
CDLF32-2-2/CDLF32-2	575	345/355	920/930	190/230	165/180	77/85
CDLF32-3-2/CDLF32-3	645	390	1035	260	180	100
CDLF32-4-2/CDLF32-4	715	390	1105	330	180	109
CDLF32-5-2/CDLF32-5	890	500	1390	330	255	181
CDLF32-6-2/CDLF32-6	960	500	1460	330	255	185
CDLF32-7-2/CDLF32-7	1030	500	1530	330	255	199
CDLF32-8-2/CDLF32-8	1100	1100	1600	330	255	203
CDLF32-9-2/CDLF32-9	1170	1170	1720	330	255	222
CDLF32-10-2/CDLF32-10	1240	1240	1790	330	255	227
CDLF32-11-2/CDLF32-11	1310	1310	1885	400	285	282
CDLF32-12-2/CDLF32-12	1380	1380	1955	400	285	276
CDLF32-13-2/CDLF32-13	1450	1450	2100	450	310	337
CDLF32-14-2/CDLF32-14	1520	1520	2170	450	310	341
CDLF32-15-2/CDLF32-15	1590	1590	2240	450	310	345
CDLF32-16-2/CDLF32-16	1660	1660	2310	450	310	350

The overall dimensions of the single-phase motor and explosion-proof motor are a little different.Pls contast us for details.

CDLF42, 50Hz

● Performance curve

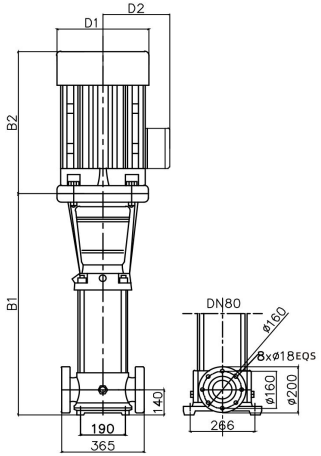
2900rpm



● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	25	30	35	40	42	45	50	55
CDLF/CDL42-1-1	3.0	4			20	19	18	17	16	15	13	11
CDLF/CDL42-1	4.0	5.5			24	23	22	21	20	19	18	16
CDLF/CDL42-2-2	5.5	7.5			40	38	36	33	32	30	27	23
CDLF/CDL42-2	7.5	10			48	46	44	42	41	39	35	31
CDLF/CDL42-3-2	11	15			63	61	58	54	52	50	44	38
CDLF/CDL42-3	11	15			71	69	66	63	61	58	53	47
CDLF/CDL42-4-2	15	20			87	84	80	75	73	69	62	54
CDLF/CDL42-4	15	20			95	92	88	84	81	78	71	62
CDLF/CDL42-5-2	18.5	25			111	107	102	96	93	88	80	69
CDLF/CDL42-5	18.5	25			119	115	110	105	101	97	88	78
CDLF/CDL42-6-2	22	30			135	130	124	117	113	108	97	85
CDLF/CDL42-6	22	30			143	138	132	125	122	116	106	93
CDLF/CDL42-7-2	30	40	3"/3"	H (m)	158	152	146	138	134	127	115	100
CDLF/CDL42-7	30	40			166	161	154	146	142	135	124	109
CDLF/CDL42-8-2	30	40			182	175	168	159	154	146	133	116
CDLF/CDL42-8	30	40			190	184	176	167	162	154	141	124
CDLF/CDL42-9-2	30	40			205	198	190	180	174	166	150	132
CDLF/CDL42-9	37	50			214	207	198	188	183	174	159	140
CDLF/CDL42-10-2	37	50			230	221	212	200	194	185	168	147
CDLF/CDL42-10	37	50			238	230	220	209	203	193	177	155
CDLF/CDL42-11-2	45	60			255	246	236	223	217	206	188	165
CDLF/CDL42-11	45	60			263	255	244	232	225	214	196	173
CDLF/CDL42-12-2	45	60			280	270	259	245	238	226	206	181
CDLF/CDL42-12	45	60			289	280	268	255	247	236	216	190
CDLF/CDL42-13-2	45	60			305	294	282	267	259	247	225	198

● Installation sketch



● Size and weight

Model	Size(mm) B1	B2	B1+B2	D1	D2	Weight (kg)
CDLF42-1-1/CDLF42-1	561	345/355	906/916	197/230	165/188	83/90
CDLF42-2-2/CDLF42-2	641	390	1031	260	208	105/110
CDLF42-3-2/CDLF42-3	826	500	1326	330	255	183
CDLF42-4-2/CDLF42-4	906	500	1406	330	255	197
CDLF42-5-2/CDLF42-5	986	550	1536	330	255	221
CDLF42-6-2/CDLF42-6	1066	575	1641	360	285	261
CDLF42-7-2/CDLF42-7	1146	650	1796	400	310	320
CDLF42-8-2/CDLF42-8	1226	650	1876	400	310	320
CDLF42-9-2/CDLF42-9	1306	650	1956	400	310	328/352
CDLF42-10-2/CDLF42-10	1386	650	2036	400	310	355
CDLF42-11-2/CDLF42-11	1466	685	2151	450	345	426
CDLF42-12-2/CDLF42-12	1546	685	2231	450	345	432
CDLF42-13-2	1626	685	2311	450	345	438

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contast us for details.



Applications and conditions

CHL, CHLF, CHLF(T) are non-self-priming light horizontal multistage centrifugal pump(abbr. as pump in the following). They are efficient, low noise, little corrosive tolerance, compact structure, good looking, small volume, light weight, etc.

● Applications

Pumped liquids: Low viscosity, neutral, non-explosive liquids, not containing solid particles or fibres. The liquid must not attack the pump materials chemically. (Oil or the liquid mainly consisted of oil can be pumped by special type of pumps);

· Circulation for air condition system;
· Cooling system;
· Water treatment, purification system;
· Industry cleaning system;
· Liquid transferring, circulation, boosting;
· Hot or cold water;
· Feed proportioning system of food, drinking, agriculture, etc.

● Operation conditions

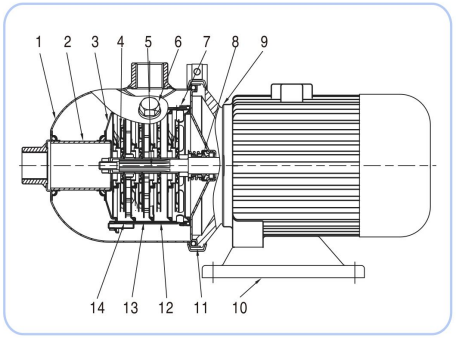
· Liquid temperature: Normal temperature type - 15 °C ~+700°C ;
Hot water type -15 °C~+110 °C ;
· Flow range: 0.5~28m³/h;
· Max pressure: 10 bar;
· Liquid pH range: pH5~9;
· Max ambient temperature: +40°C;
· The Max suction pressure is limited by max operating pressure;
· Min inlet pressure: Refer to CHL catalogue.
Caution: When pumping liquids with a density and/or viscosity higher than that of water, use motors with correspondingly higer outputs, if required.

● Definition of Model

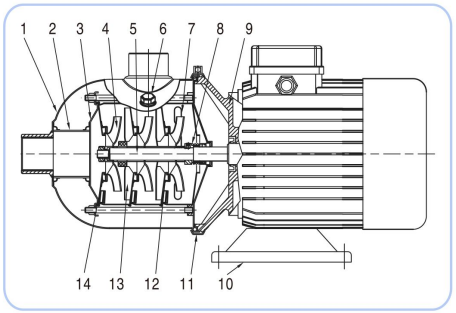
CHL/CHB 4 - 3
- 3 — stage
- 4 — Rated flow (m³/h)
- CHL/CHB — Light horizontal multi-stage centrifugal pump

CHL F (T) 4 - 3
- 3 — Stage
- 4 — Rated flow (m³/h)
- (T) — Suction and discharge is cast iron material if SS material,(T)is omited
- F — Section type
- CHL — Light horizontal multi-stage centrifugal pump

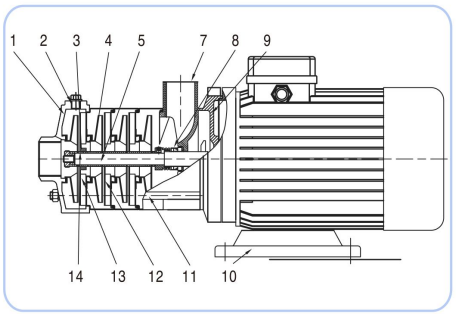
● Section drawing CHL/CHB2,4



● Section drawing CHL8,12,16,20/CHB8,12



● Section drawing CHLF,CHLF(T)



● Material CHL

NO.	Name	Material	AISI/ASTM
1	Pressure tank	Stainless steel	AISI304
2	Connecting pipe	Stainless steel	AISI304
3	Gland subassembly	Stainless steel	AISI304
4	Impeeller	Stainless steel	AISI304
5	Shaft	Stainless steel	AISI304
6	Screw plug	Stainless steel	AISI304
7	Outlet fluid director	Stainless steel	AISI304
8	Mechanical seal		
9	End cover of motor	Aluminium alloy	
10	Base	Steel plate	AISI1015
11	Anchor ear	Stainless steel	AISI304
12	Fluid director	Stainless steel	AISI304
13	Bearing fluid director	Stainless steel	AISI304
14	Inlet fluid director	Stainless steel	AISI304

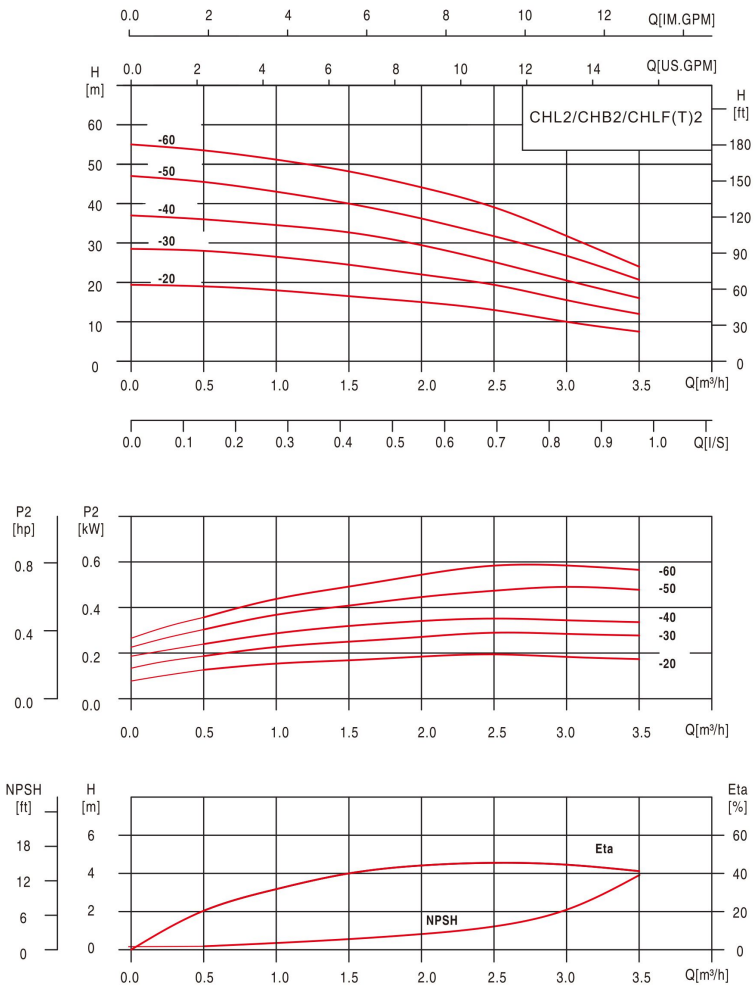
● Material CHLF,CHLF(T)

NO.	Name	Material	AISI/ASTM
2	screw plug	Stainless steel	AISI304
3	bearing	Tungsten carbide	
4	impeller	Stainless steel	AISI304
5	shaft	Stainless steel	AISI304
8	mechanical seal		
9	end cover of the motor	Aluminium alloy	
10	base	Steel plate	AISI1015
11	pull rod	Stainless steel	AISI304
12	fluid director	Stainless steel	AISI304
13	bearing fluid director	Stainless steel	AISI304
14	jacket	Stainless steel	AISI304
	CHLF		
1	water-in boby	Stainless steel	AISI304
7	water-out body	Stainless steel	AISI304
	CHLF(T)		
1	water-in boby	Cast iron	ASTM25B
7	water-out body	Cast iron	ASTM25B

CHL2/CHB2/CHLF(T)2, 50Hz

● Performance curve

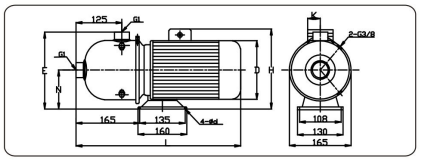
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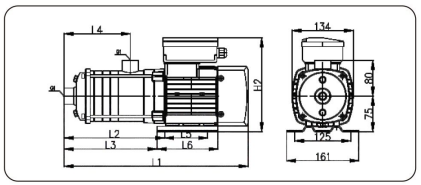
● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
CHL/CHC/CFC2-2 CHLF (T) 2-2	0.37	0.5	1"/1"	H (m)	19	18	16.5	15	13	10	7.5
CHL/CHC/CFC2-3 CHLF (T) 2-3	0.37	0.5			28	26.5	24.5	22	19	15.5	12
CHL/CHC/CFC2-4 CHLF (T) 2-4	0.55	0.75			36	34.5	33	29	25	20.5	16
CHL/CHC/CFC2-5 CHLF (T) 2-5	0.55	0.75			45.5	43	40	36	31.5	26.5	20.5
CHL/CHC/CFC2-6 CHLF (T) 2-6	0.75	1			53.5	51	48	44	39	32	24
CHLF2-7	1.1	1.5			61	57.5	55	53	50	45	39
CHLF2-8	1.1	1.5			67	65	64	63	62	60	58
CHLF2-9	1.1	1.5			75	73	72	71	70	67	65

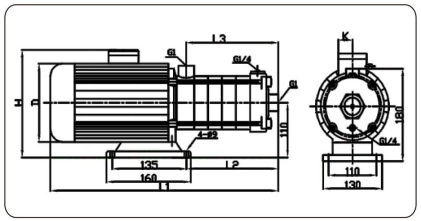
● Installation sketch



Model	Size(mm) N	E	L	d	H	D	K
CHL2-2	115	210	400	9	230	134	40
CHL2-3	115	210	400	9	230	134	40
CHL2-4	115	210	400	9	230	134	40
CHL2-5	115	210	400	9	230	134	40
CHL2-6	115	210	400	9	230	134	40



Model	Size(mm) H2 Single phase	H2 Three phase	L1	L2	L3	L4	L5	L6	Weight (kg)
CHC2-2	170	174	310	113	88	54	96	136	7.4
CHC2-3	170	174	328	131	106	72	96	136	7.5
CHC2-4	170	174	364	149	124	90	96	136	10
CHC2-5	170	174	382	167	142	108	96	136	10.5
CHC2-6	170	174	400	185	160	126	96	136	12

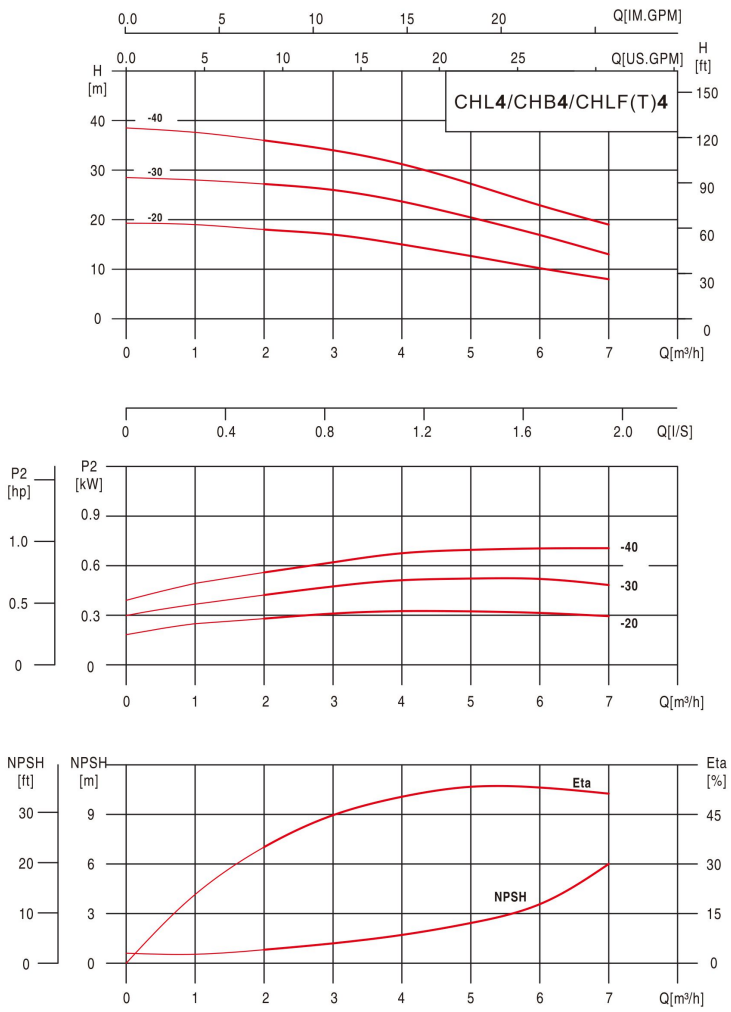


Model	Size(mm) L1	L2	L3	H	D	K
CHLF/CFC2-2	380	100	73	208	135	40
CHLF/CFC2-3	400	118	90	208	135	40
CHLF/CFC2-4	418	136	108	210	135	40
CHLF/CFC2-5	436	154	126	220	135	40
CHLF/CFC2-6	454	172	144	220	135	40
CHLF2-7	472	190	162	220	135	40
CHLF2-8	490	208	180	220	135	40
CHLF2-9	508	226	198	220	135	40

CHL4/CHB4/CHLF(T)4, 50Hz

● Performance curve

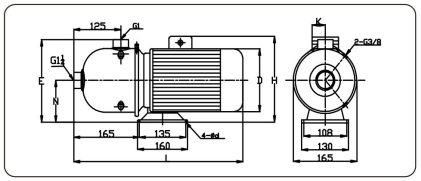
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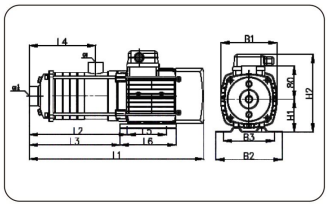
● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	1	2	3	4	5	6	7
CHL/CHC/CFC4-2 CHLF (T) 4-2	0.37	0.55	1.25"/1"	H (m)	19	18	17	15	12.5	10	8
CHL/CHC/CFC4-3 CHLF (T) 4-3	0.55	0.75			28	27	26	23.5	20.5	17	13
CHL/CHC/CFC4-4 CHLF (T) 4-4	0.75	1			37.5	36	34	31	27	23	19
CHL/CHC/CFC4-5 CHLF (T) 4-5	1.1	1.5			47	45	42.5	39	34	29	23
CHL/CHC/CFC4-6 CHLF (T) 4-6	1.1	1.5			56	54	51	47	41.5	35.5	28
CHLF4-7	1.5	2			62	63	61	56	49	40	27.5
CHLF4-8	1.5	2			73	72	70	65	56	44	28
CHLF4-9	1.8	2.4			82	81	79	73	63	49	31

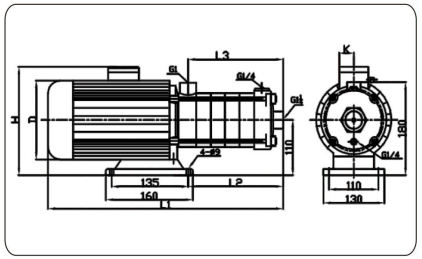
● Installation sketch



Model	Size(mm) N	E	L	d	H	D	K
CHL4-2	115	210	400	9	230	134	40
CHL4-3	115	210	400	9	230	134	40
CHL4-4	115	210	400	9	230	134	40
CHL4-5	115	210	400	9	230	134	40
CHL4-6	115	210	400	9	230	134	40



Model	Size(mm) B1	B2	B3	H1	Single phase H2	Single phase L1	Three phase H2	Three phase L1	L2	L3	L4	L5	L6	Weight (kg)
CHC4-2	134	160	125	80	175	346	185	356	174	215	98	96	136	8.0
CHC4-3	134	160	125	80	175	364	185	374	192	215	116	96	136	10
CHC4-4	134	160	125	80	175	382	185	392	200	179	134	96	136	11.5
CHC4-5	134	160	125	80	175	400	185	410	218	197	152	96	136	12.5
CHC4-6	134	160	125	80	175	418	185	428	236	215	170	96	136	15

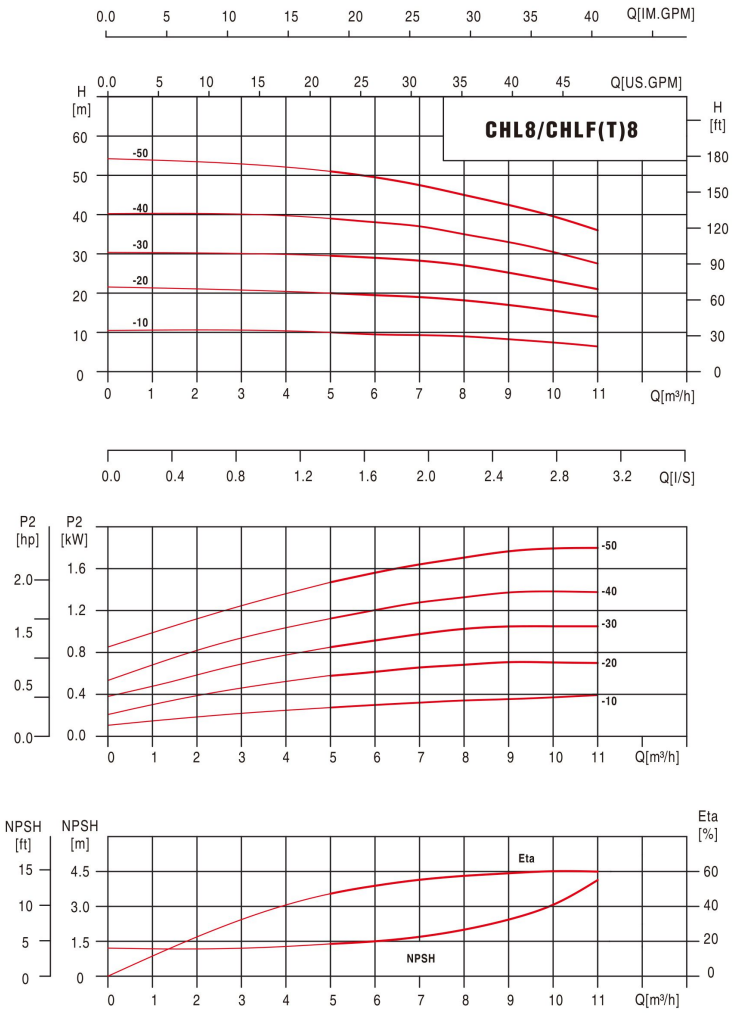


Model	Size(mm) L1	L2	L3	H	D	K
CHLF/CFC4-2	380	100	73	208	135	40
CHLF/CFC4-3	400	118	90	208	135	40
CHLF/CFC4-4	418	136	108	210	135	40
CHLF/CFC4-5	436	154	126	220	135	40
CHLF/CFC4-6	454	172	144	220	135	40
CHLF4-7	472	190	162	220	135	40
CHLF4-8	490	208	180	220	135	40
CHLF4-9	508	226	198	220	135	40

CHL8/CHLF(T)8, 50Hz

Performance curve

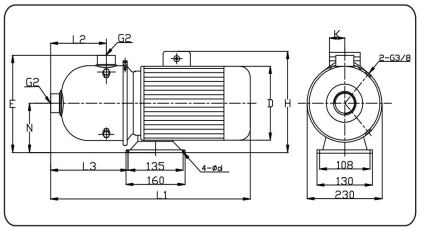
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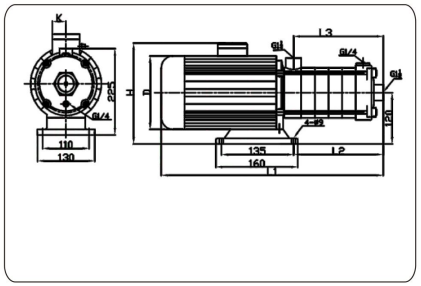
Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	5	6	7	8	9	10	11
CHL8-2 CHLF8-2	0.75	1	CHL 2"/ 2" CHLF 1.5"/1.25"	H (m)	20	19.5	19	18	17	15.5	14
CHL8-3 CHLF8-3	1.1	1.5			29.5	29	28	27	25	23	21
CHL8-4 CHLF8-4	1.5	2			39	38	37	35	33	30.5	27.5
CHL8-5 CHLF8-5	2.2	3			51	49.5	47.5	45	42.5	39.5	36

Installation sketch



Model	Size(mm) N	E	L1	L2	L3	d	H	D	K
CHL8-2	115	260	550	170	285	9	255	160	40
CHL8-3	115	260	550	170	285	9	255	160	40
CHL8-4	125	260	590	175	270	9	265	180	50
CHL8-5	125	260	590	175	270	9	265	180	50

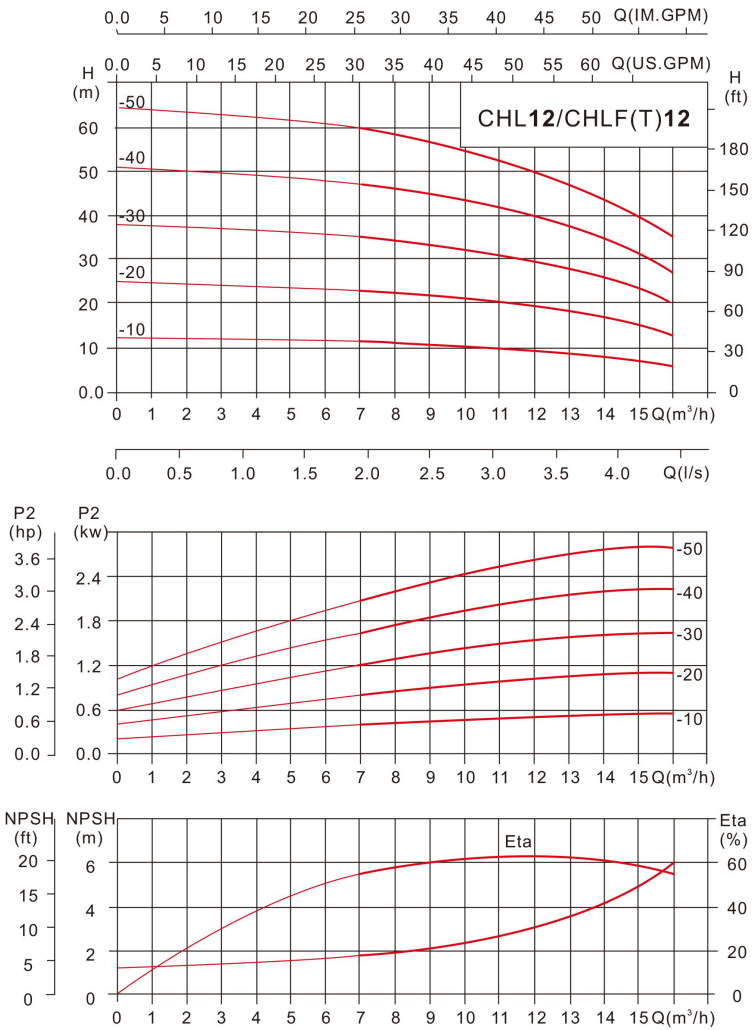


Model	Size(mm) L1	L2	L3	H	D	K
CHLF8-2	470	137	120	253	158	40
CHLF8-3	488	155	138	253	158	40
CHLF8-4	506	173	156	253	158	50
CHLF8-5	524	191	144	253	158	50

CHL12 /CHLF(T)12, 50Hz

● Performance curve

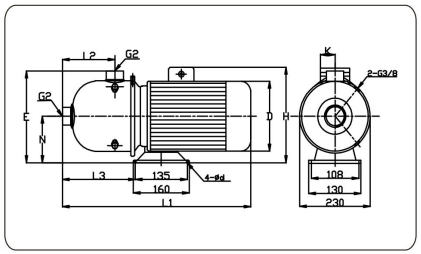
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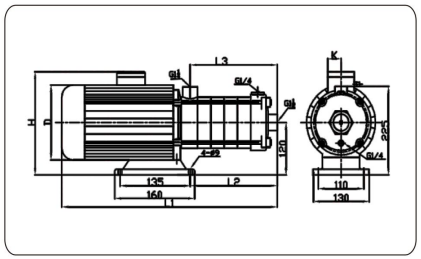
● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	7	8	9	10	11	12	13	14	15	16
CHL12-2 CHLF12-2	1.2	1.6	CHL 2"/ 2 " CHLF 1.5"/1.25"	H (m)	23	22.5	22	21.5	20.5	19.5	18.5	17	15.5	13
CHL12-3 CHLF12-3	1.8	2.4			35	34.5	33.5	32.5	31	29.5	28	26	23.5	20
CHL12-4 CHLF12-4	2.4	3.2			47	46	45	43.5	41.5	39.5	38	35	31.5	27.5
CHL12-5 CHLF12-5	3.0	4			60	58	56.5	55	52.5	50	47	44	40	35

● Installation sketch



Model	Size(mm) N	E	L1	L2	L3	d	H	D	K
CHL12-2	115	260	550	170	285	9	255	160	40
CHL12-3	115	260	550	170	285	9	255	160	40
CHL12-4	125	260	590	175	270	9	265	180	50
CHL12-5	125	260	590	175	270	9	265	180	50

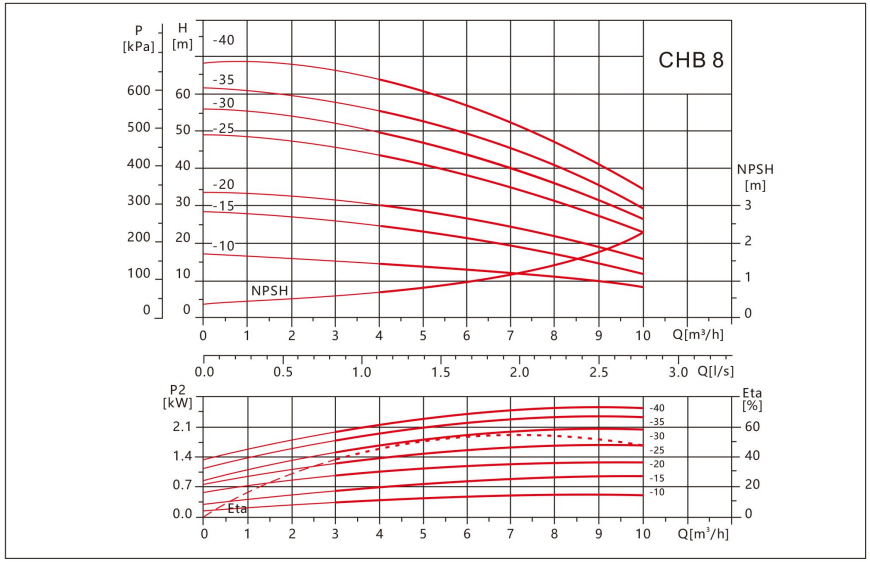


Model	Size(mm) L1	L2	L3	H	D	K
CHLF12-2	470	137	120	253	158	40
CHLF12-3	488	155	138	253	158	40
CHLF12-4	506	173	156	253	158	50
CHLF12-5	524	191	144	253	158	50

MARO water pumps

CHB8/12, 50Hz

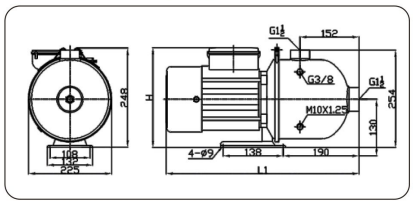
Performance curve 2900rpm



Performance table

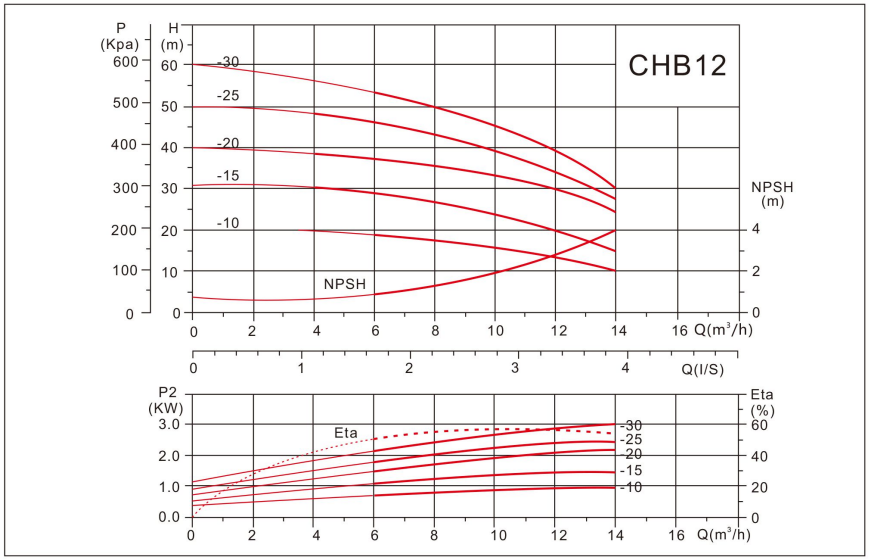
Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	4.0	5.0	6.0	7.0	8.0	9.0	10.0
CHB8-10	0.55	0.75	1.5"/1.5"	H (m)	15	14	13	12.5	12	9	8
CHB8-15	0.75	1			25	23	22	21	20	14	12
CHB8-20	1.0	1.3			32	29	27	25	24	21	17
CHB8-25	1.5	2			43	40	38	34	30	25	20
CHB8-30	1.85	2.5			50	46	44	40	36	30	26
CHB8-35	2.2	3			56	51	48	44	43	35	28
CHB8-40	2.2	3			65	57.5	57	50	48	42	34

Installation sketch



Model	Size(mm) Single phase L1	Single phase H	Three phase L1	Three phase H	Weight (kg)
CHB8-10	458	245	458	244	10.5
CHB8-15	458	245	458	244	12
CHB8-20	458	245	458	244	14
CHB8-25	490	248	490	248	17
CHB8-30	538	263	538	263	21.5
CHB8-35	538	263	538	263	23
CHB8-40	538	263	538	263	24

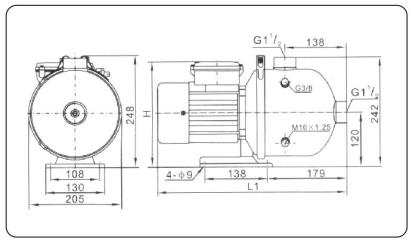
Performance curve 2900rpm



Performance table

Model	Driving motor P_2(kW)	Q (m^3/h)	6.0	7.0	8.0	9.0	10	11	12	13	14
CHB12-10	1.0	H (m)	19	18	17.5	16	15.5	14	13.5	12	10.5
CHB12-15	1.5		28	27	26	25	24	22	20	18	15
CHB12-20	1.85		38	36	35	32	31	29	28	24	20
CHB12-25	2.2		47	45	43	41.5	39	36	33.5	30.5	27
CHB12-30	3.0		53.5	52	50	47.5	45	42	39	35	30

Installation sketch

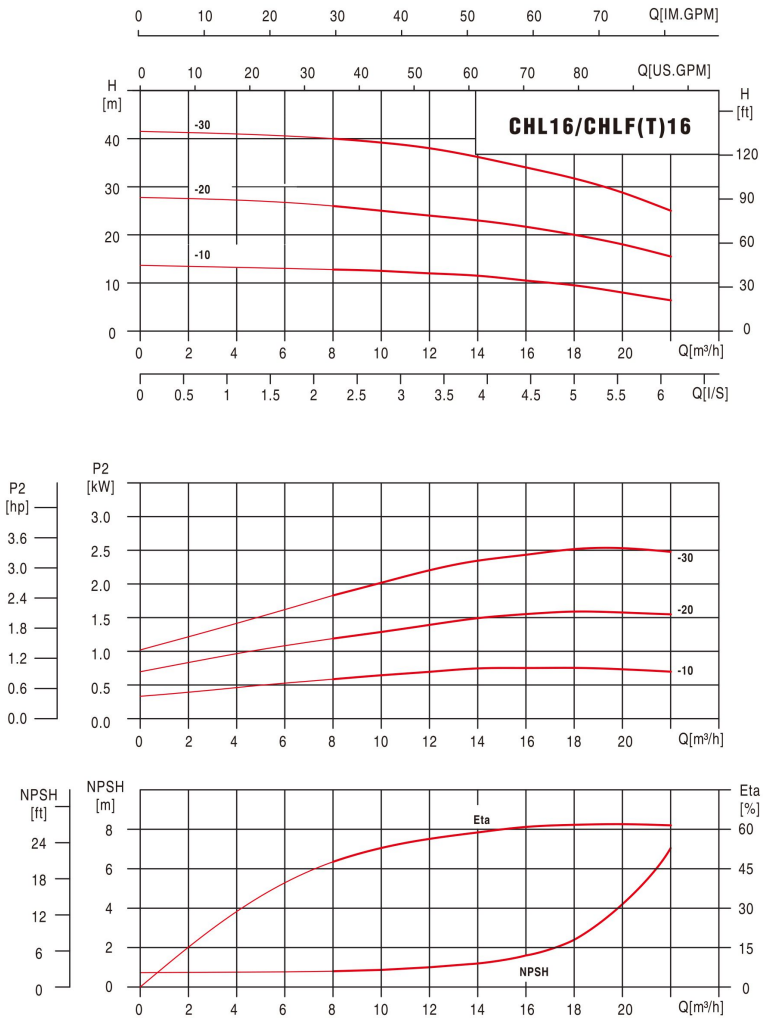


Model	Dimensions(mm) Single Phase L1	Single Phase H	Three Phase L1	Three Phase H	Weight (kg)
CHB12-10	424	227	424	222	10.5
CHB12-15	424	227	424	222	12
CHB12-20	424	227	424	222	14
CHB12-25	459	235	459	232	17
CHB12-30	500	239	459	232	21.5
CHB12-35	500	239	459	232	23
CHB12-40	500	239	459	232	24

CHL16/CHLF(T)16, 50Hz

● Performance curve

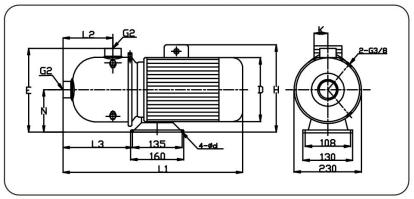
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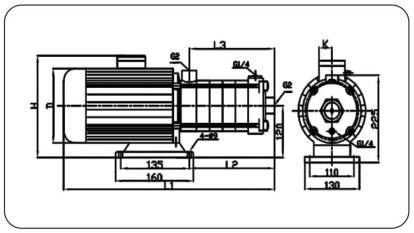
● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	8	10	12	14	16	18	20	22
CHL16-2 CHLF16-2	2.2	3	2"/2"	H (m)	26	25	24	23	21.7	20	18	15.5
CHL16-3 CHLF16-3	3	4			40	39	38	36	34	31.5	29	25
CHL16-4 CHLF16-4	4	5.5			53.5	52	50	48	45	42	38	33.5

● Installation sketch



Model	Size(mm)								
	N	E	L1	L2	L3	d	H	D	K
CHL16-2	115	260	550	170	285	9	255	160	40
CHL16-3	125	260	590	175	270	9	265	180	50
CHL16-4	125	260	590	175	270	9	265	180	50

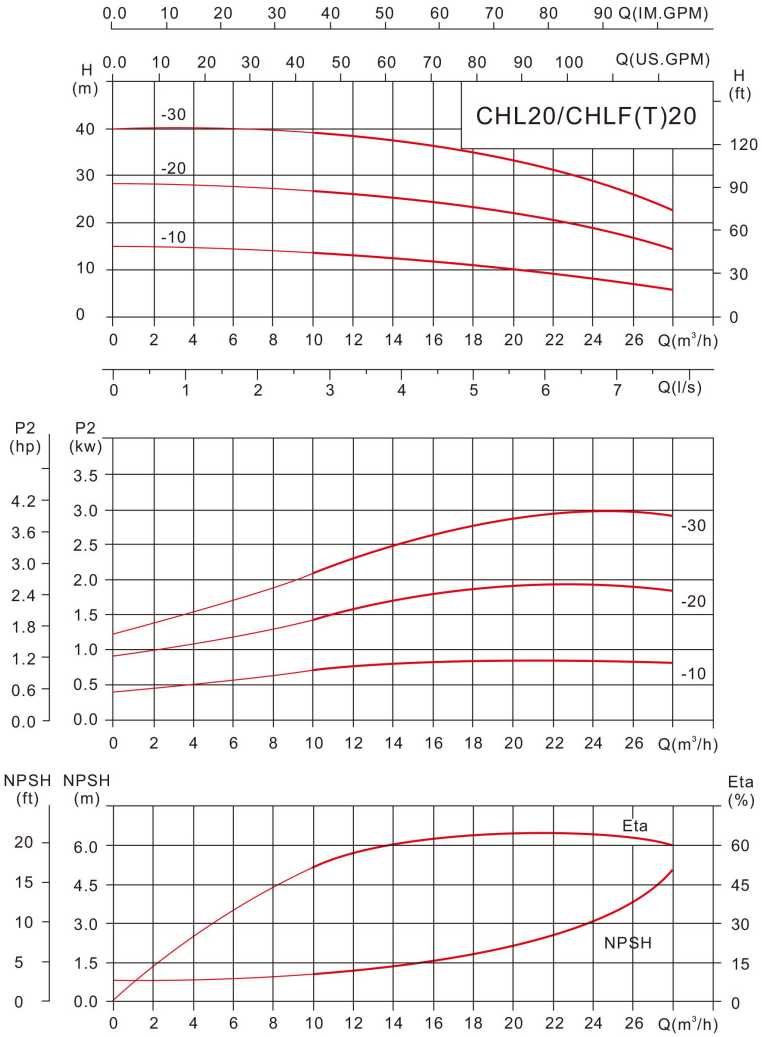


Model	Size(mm)					
	L1	L2	L3	H	D	K
CHLF16-2	530	175	128	255	180	40
CHLF16-3	548	193	138	255	180	40
CHLF16-4	566	211	156	255	180	50
CHLF16-5	584	229	144	255	180	50

CHL20/CHLF(T)20, 50Hz

● Performance curve

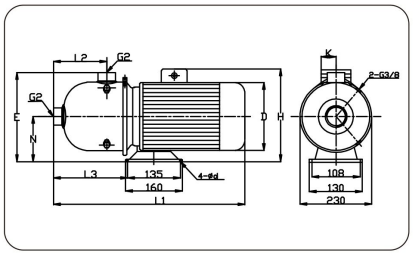
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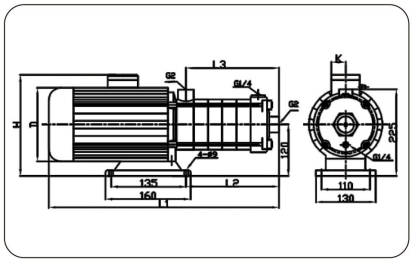
● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
CHL20-2 CHLF20-2	2.2	3	2"/2"	H (m)	27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5
CHL20-3 CHLF20-3	4	5.5			39.5	39	38	37.5	35.5	34	31.5	29	26	23
CHL20-4 CHLF20-4	4	5.5			52	51	50	49	47	45	42	38	34	30

● Installation sketch



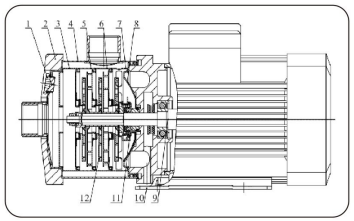
Model	Size(mm) N	E	L1	L2	L3	d	H	D	K
CHL20-2	115	260	550	170	285	9	255	160	40
CHL20-3	115	260	550	170	285	9	255	160	40
CHL20-4	125	260	590	175	270	9	265	180	50



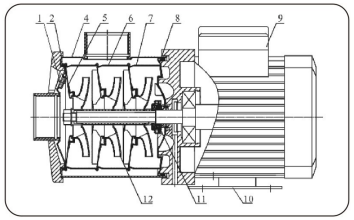
Model	Size(mm) L1	L2	L3	H	D	K
CHLF20-2	530	175	128	255	180	40
CHLF20-3	548	193	138	255	180	40
CHLF20-4	566	211	156	255	180	50



Section drawing CHM1/2/4:



Section drawing CHM8/12/16/20:



Material:

Number	Name	Material	AISI/ASTM
1	Plug	Stainless steel	SS-304N2-33
2	Clamp plate	Aluminum alloy	ASTM383.1
3	Inletsectional	Stainless steel	AISI304
4	Inlet/Outlet section	Stainless steel	AISI304
5	Inducer	Stainless steel	AISI304
6	Guide vane	Stainless steel	AISI304
7	Discharge diffuser	Stainless steel	AISI304
8	Seal base	Stainless steel	AISI304
9	Motor		
10	Base frame	Steel	AISI015
11	Mechanical seal		
12	Impeller	Stainless steel	AISI304

Applications and conditions

CHM is non-self-priming light horizontal multistage centrifugal pump(abbr. as pump in the following). They are efficient, low noise, little corrosive tolerance, compact structure, good looking, small volume, light weight, etc.

● Applications

Pumped liquids: Low viscosity, neutral, non-explosive liquids, not containing solid particles or fibres. The liquid must not attack the pump materials chemically. (Oil or the liquid mainly consisted of oil can be pumped by special type of pumps);

· Circulation for air condition system;
· Cooling system;
· Water treatment, purification system;
· Industry cleaning system;
· Liquid transferring, circulation, boosting;
· Hot or cold water;
· Feed proportioning system of food, drinking, agriculture, etc.

● Operation conditions

· Liquid temperature: Normal temperature type - 15 ℃ ~ +700℃ ; Hot water type -15 ℃~ +110 ℃ ;
· Flow range: 0.5~28m³/h;
· Max pressure: 10 bar;
· Liquid pH range: pH5~9;
· Max ambient temperature: +40℃;
· The Max suction pressure is limited by max operating pressure;
· Min inlet pressure: Refer to CHL catalogue.
Caution: When pumping liquids with a density and/or viscosity higher than that of water, use motors with correspondingly higer outputs, if required.

● Definition of Model

CHM 4 - 3

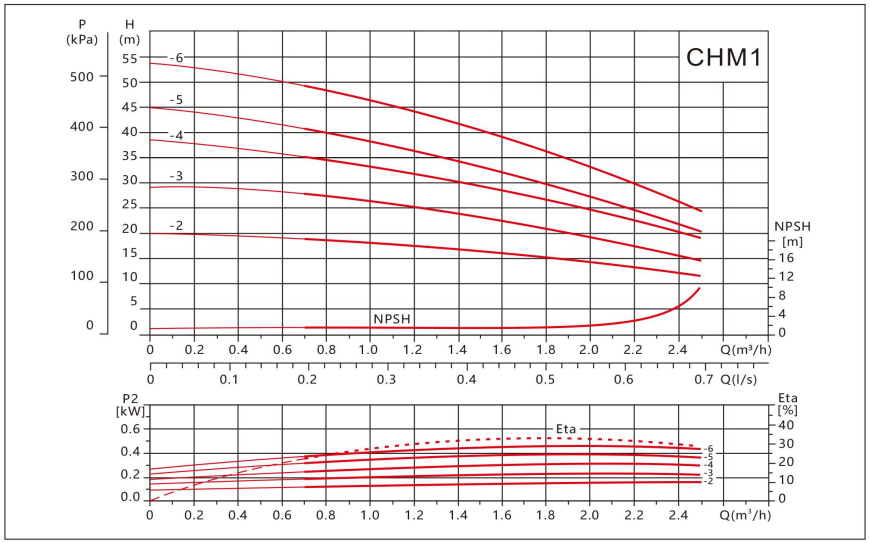
- 3 — stage
- 4 — Rated flow (m³/h)
- CHM — Light horizontal multi-stage centrifugal pump

MARO water pumps

CHM1/2, 50Hz

Performance curve

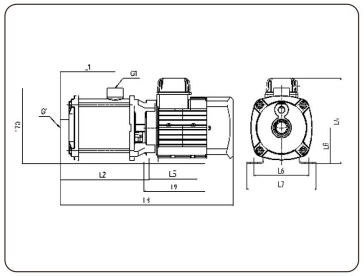
2900rpm



Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4
				H (m)											
CHM1-2	0.25	0.34	1"/1"		19.5	19	18.5	18	17.5	17	16	15	14	13	12
CHM1-3	0.25	0.34			29	28.5	26	25	24.5	23.5	22	21	19	17	16
CHM1-4	0.55	0.75			37	36	35	33	32	30	28	27	26	22	20
CHM1-5	0.55	0.75			43	42	41	38	36	34	32	29	27	25	22
CHM1-6	0.55	0.75			51	50	49	46	44	42	40	36	32	30	26
CHM1-7	0.75	1			59	58	57	54	52	50	48	44	40	38	34
CHM1-8	0.75	1			67	66	65	62	60	58	56	52	48	46	42
CHM1-9	0.75	1			75	74	73	70	68	66	64	60	56	54	50

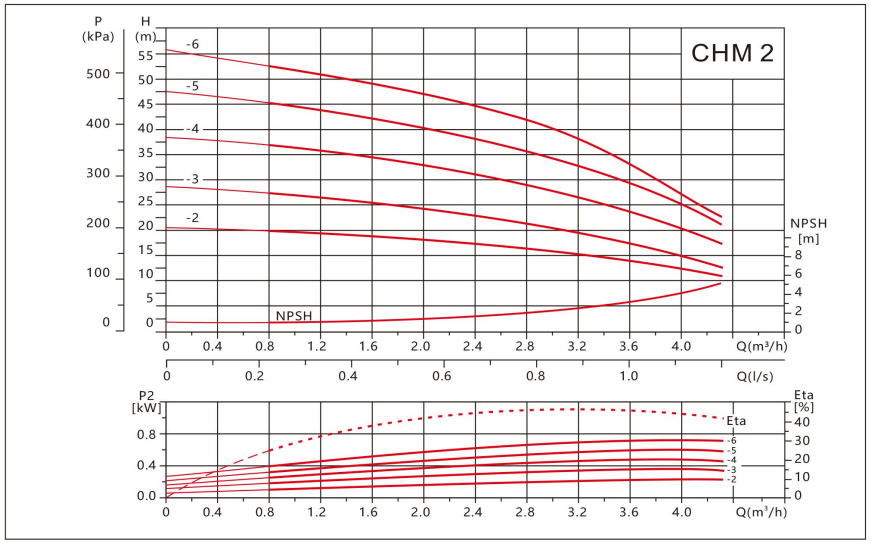
Installation sketch



Model	Dimensions(mm) Single phase L4	Three phase L4	L1	L2	L3	L5	L6	L7	L8	L9	Weight (kg)
CHM1-2	176	200	72	132	318	96	125	153	84	138	7.4
CHM1-3	176	200	72	132	318	96	125	153	84	138	7.5
CHM1-4	176	200	90	150	336	96	125	153	84	138	10
CHM1-5	176	200	108	168	354	96	125	153	84	138	10.5
CHM1-6	190	213	126	186	398	96	125	153	84	138	12
CHM1-7	190	213	144	204	416	96	125	153	84	138	12.5
CHM1-8	190	213	162	222	434	96	125	153	84	138	13
CHM1-9	190	213	180	240	452	96	125	153	84	138	13.5

Performance curve

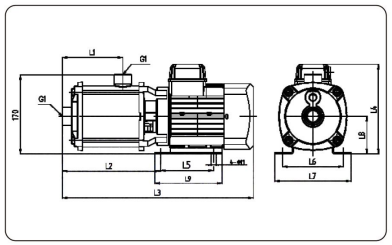
2900rpm



Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	0.8	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
				H (m)										
CHM2-2	0.25	0.34	1"/1"		19.5	19	18.5	18	17	16.5	15	14.5	13.5	12
CHM2-3	0.37	0.5			27	26	25	24	23	22	21	20	17	15
CHM2-4	0.55	0.75			36	35	34	32	31	29	28	27	23	20
CHM2-5	0.55	0.75			44	43	42	40	38	36	34	33	28.5	24
CHM2-6	0.75	1			53	51.5	49	47	44	41	38	37	32	27
CHM2-7	1.1	1.5			61	59.5	57	54	51	46	42	41	36	30
CHM2-8	1.1	1.5			69	67.5	65	61	58	51	47	45	40	33
CHM2-9	1.1	1.5			77	75.5	73	68	65	56	51	49	44	36

Installation sketch



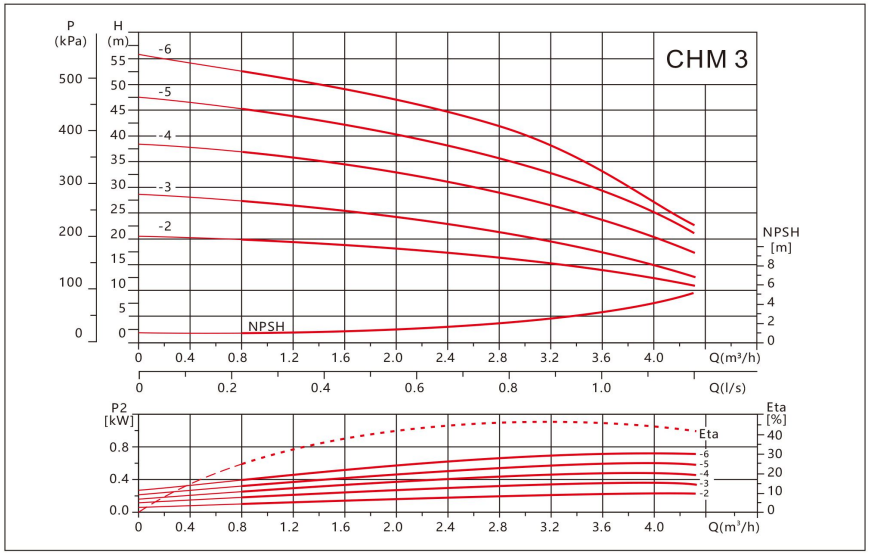
Model	Dimensions(mm) Single phase L4	Three phase L4	L1	L2	L3	L5	L6	L7	L8	L9	Weight (kg)
CHM2-2	176	200	72	132	318	96	125	153	84	138	7.4
CHM2-3	176	200	72	132	318	96	125	153	84	138	7.5
CHM2-4	176	200	90	150	336	96	125	153	84	138	10
CHM2-5	176	200	108	168	354	96	125	153	84	138	10.5
CHM2-6	190	213	126	186	398	96	125	153	84	138	12
CHM2-7	190	213	144	204	416	96	125	153	84	138	12.5
CHM2-8	190	213	162	222	434	96	125	153	84	138	13
CHM2-9	190	213	180	240	452	96	125	153	84	138	13.5

MARO water pumps

CHM3/4, 50Hz

● Performance curve

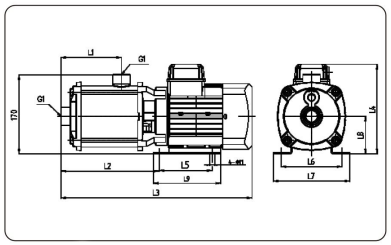
2900rpm



● Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	0.8	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
CHM3-2	0.25	0.34	1"/1"	H (m)	19.5	19	18.5	18	17	16.5	15	14.5	13.5	12
CHM3-3	0.37	0.5			27	26	25	24	23	22	21	20	17	15
CHM3-4	0.55	0.75			36	35	34	32	31	29	28	27	23	20
CHM3-5	0.55	0.75			44	43	42	40	38	36	34	33	28.5	24
CHM3-6	0.75	1			53	51.5	49	47	44	41	38	37	32	27
CHM3-7	1.1	1.5			61	59.5	57	54	51	46	42	41	36	30
CHM3-8	1.1	1.5			69	67.5	65	61	58	51	47	45	40	33
CHM3-9	1.1	1.5			77	75.5	73	68	65	56	51	49	44	36

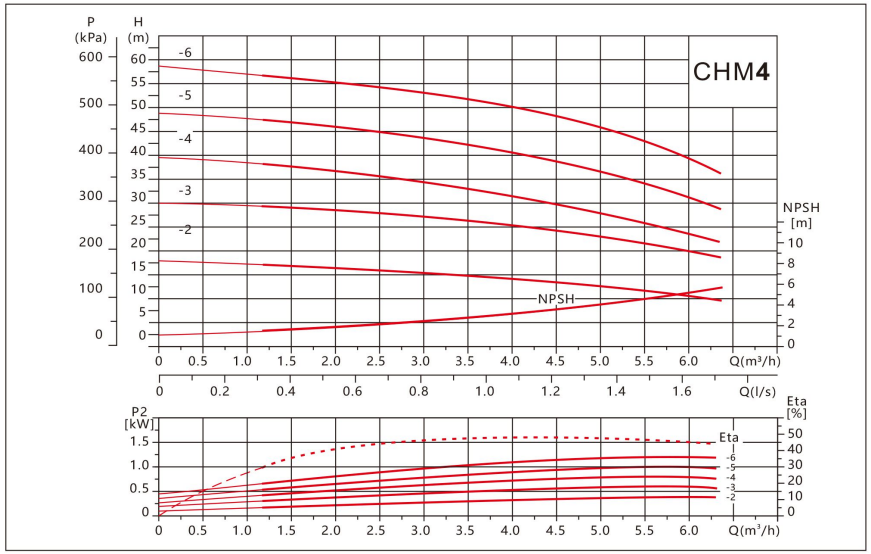
●Installation sketch



Model	Dimensions(mm) Single phase	Three phase	L1	L2	L3	L5	L6	L7	L8	L9	Weight (kg)
	L4										
CHM3-2	176	200	72	132	318	96	125	153	84	138	7.4
CHM3-3	176	200	72	132	318	96	125	153	84	138	7.5
CHM3-4	176	200	90	150	336	96	125	153	84	138	10
CHM3-5	176	200	108	168	354	96	125	153	84	138	10.5
CHM3-6	190	213	126	186	398	96	125	153	84	138	12
CHM3-7	190	213	144	204	416	96	125	153	84	138	12.5
CHM3-8	190	213	162	222	434	96	125	153	84	138	13
CHM3-9	190	213	180	240	452	96	125	153	84	138	13.5

● Performance curve

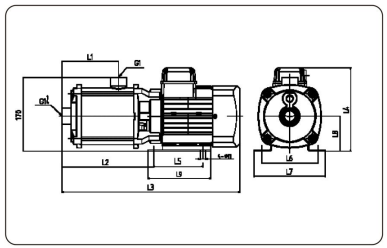
2900rpm



●CHM4/5 Performance Table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
CHM4-2	0.37	0.5	1.25"/1"	H (m)	18.5	18	17.5	17	16	15.5	15	13.5	13	11	10
CHM4-3	0.55	0.75			29	28.5	28	27	26.5	25.5	25	23	22	20	18
CHM4-4	0.75	1			38	37	36	34	33.5	32	30	28	27	24	20
CHM4-5	1.1	1.5			47	46	45	44	42.5	41	40	36	35	32	27
CHM4-6	1.3	1.7			56.5	55	54	53	52.5	51	49	45	44	42	36
CHM4-7	1.5	2			65.5	64	63	62	61.5	60	58	54	53	51	45
CHM4-8	1.8	2.4			74.5	73	72	71	70.5	69	67	63	62	60	54
CHM4-9	1.8	2.4			83.5	82	81	80	79.5	78	76	72	71	69	63

●Installation sketch



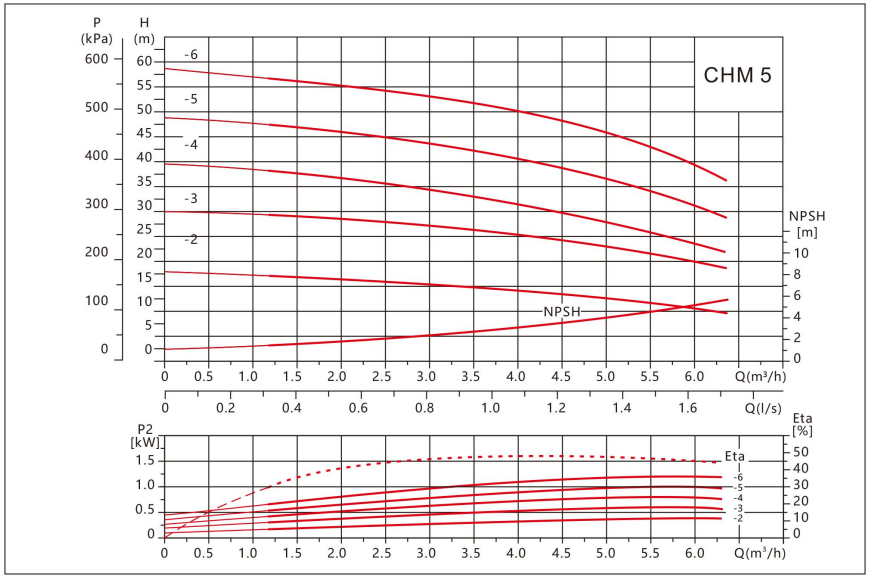
Model	Dimensions(mm) Single phase	Three phase	L1	L2	L3	L5	L6	L7	L8	L9	Weight (kg)
	L4										
CHM4-2	176	200	72	132	318	96	125	153	84	138	9
CHM4-3	176	200	72	132	318	96	125	153	84	138	9.2
CHM4-4	176	200	90	150	336	96	125	153	84	138	10.5
CHM4-5	176	200	108	168	354	96	125	153	84	138	11
CHM4-6	190	213	126	186	398	96	125	153	84	138	13.5
CHM4-7	190	213	144	204	416	96	125	153	84	138	14.5
CHM4-8	190	213	162	222	434	96	125	153	84	138	15
CHM4-9	190	213	180	240	452	96	125	153	84	138	15.2

MARO water pumps

CHM5/10, 50Hz

Performance curve

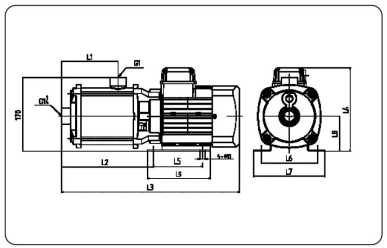
2900rpm



CHM4/5 Performance Table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
CHM5-2	0.37	0.5	1.25"/1"	H (m)	18.5	18	17.5	17	16	15.5	15	13.5	13	11	10
CHM5-3	0.55	0.75			29	28.5	28	27	26.5	25.5	25	23	22	20	18
CHM5-4	0.75	1			38	37	36	34	33.5	32	30	28	27	24	20
CHM5-5	1.1	1.5			47	46	45	44	42.5	41	40	36	35	32	27
CHM5-6	1.3	1.7			56.5	55	54	53	52.5	51	49	45	44	42	36
CHM5-7	1.5	2			65.5	64	63	62	61.5	60	58	54	53	51	45
CHM5-8	1.8	2.4			74.5	73	72	71	70.5	69	67	63	62	60	54
CHM5-9	1.8	2.4			83.5	82	81	80	79.5	78	76	72	71	69	63

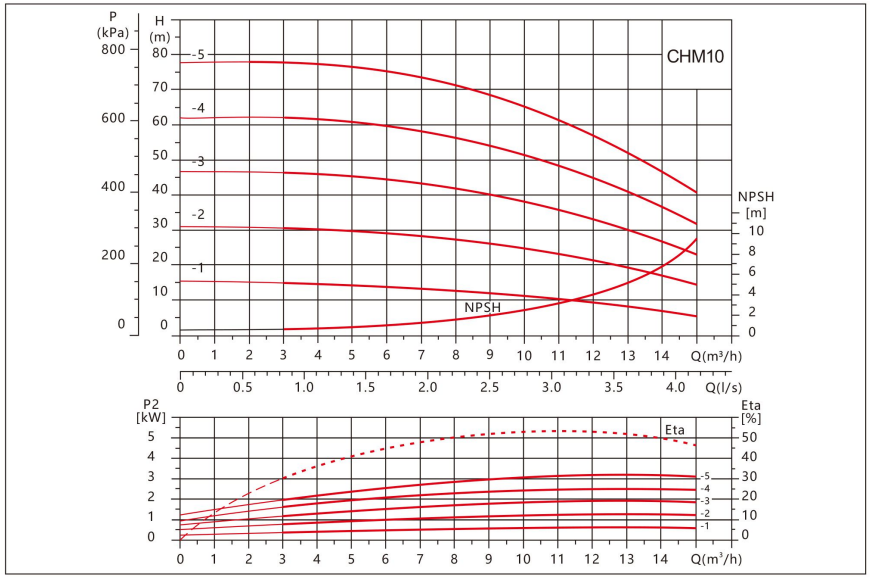
Installation sketch



Model	Dimensions(mm) Single phase L4	Three phase L4	L1	L2	L3	L5	L6	L7	L8	L9	Weight (kg)
CHM5-2	176	200	72	132	318	96	125	153	84	138	9
CHM5-3	176	200	72	132	318	96	125	153	84	138	9.2
CHM5-4	176	200	90	150	336	96	125	153	84	138	10.5
CHM5-5	176	200	108	168	354	96	125	153	84	138	11
CHM5-6	190	213	126	186	398	96	125	153	84	138	13.5
CHM5-7	190	213	144	204	416	96	125	153	84	138	14.5
CHM5-8	190	213	162	222	434	96	125	153	84	138	15
CHM5-9	190	213	180	240	452	96	125	153	84	138	15.2

Performance curve

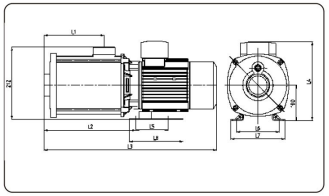
2900rpm



Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
CHM10-1	0.75	1	1.5"/1.5"	H (m)	14.5	14	13.5	13	12.5	12	11	10	9	8	7
CHM10-2	1.2	1.6			30	29.5	29	28	27	26	24	23	21	19	16
CHM10-3	2.2	3			45.5	45	44	43	42	40	38	36	33	30	26
CHM10-4	3.0	4			61	60.5	60	58	56	54	52	48	45	41	36
CHM10-5	3.0	4			76.5	76	75	74	71	68	63	61	57	52	46

Installation sketch

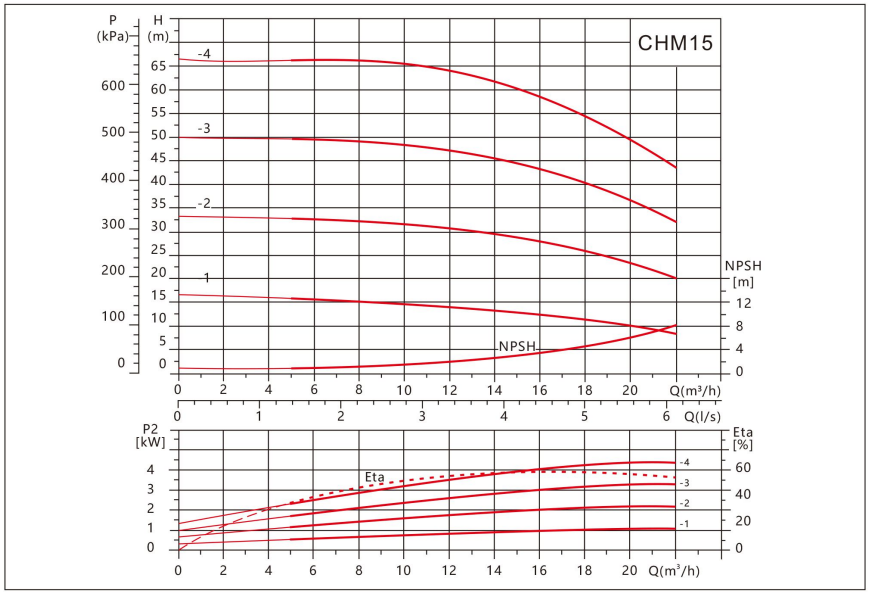


Model	Dimensions(mm) Three phase L1	L2	L3	L4	L5	L6	L7	L8	Single phase L1	L2	L3	L4	L5	L6	L7	L8	Weight (kg)
CHM10-1	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	13.3
CHM10-2	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	15.3
CHM10-3	102	200	432	225	96	126	160	160	102	200	475	245	140	160	195	170	17.4
CHM10-4	132	230	505	245	140	160	195	170	132	230	505	245	140	160	195	170	20.4
CHM10-5	162	260	530	245	140	160	195	170	162	260	535	245	140	160	195	170	25

CHM15/25, 50Hz

Performance curve

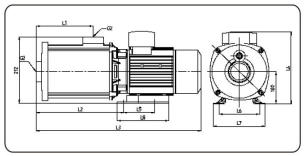
2900rpm



Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m^3)	6	8	10	12	14	15	16	17	18	19	20
CHM15-1	1.2	1.6	2"/2"	H (m)	15.5	15	14.5	14	13	12	11.5	11	11	10.5	10
CHM15-2	2.2	3			32	31.5	31	30.5	29.5	29	28	27	26	24	22
CHM15-3	4	5.5			49	48	47.5	47	46	44	43	42	40	37	36

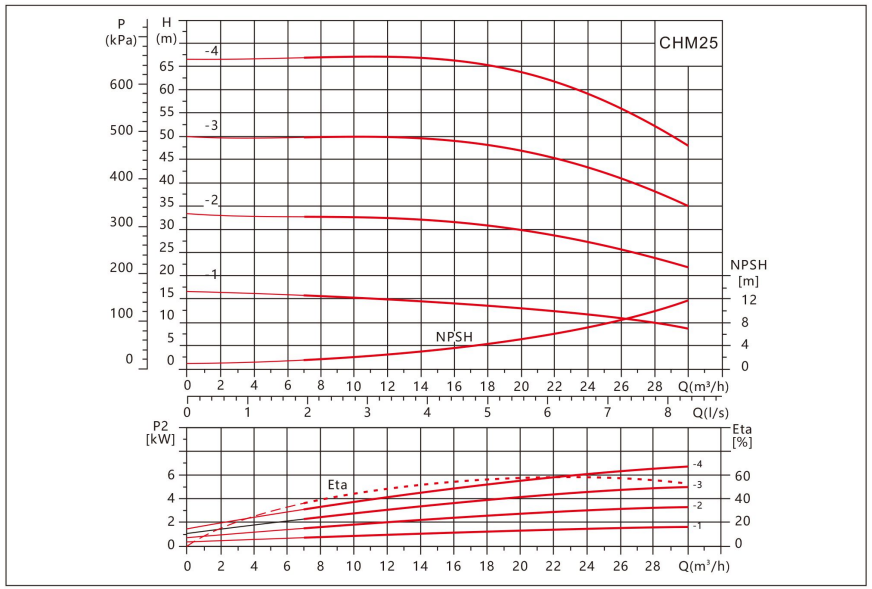
Installation sketch



Model	Dimensions(mm)																Weight (kg)
	Three phase								Single phase								
	L1	L2	L3	L4	L5	L6	L7	L8	L1	L2	L3	L4	L5	L6	L7	L8	
CHM15-1	87	185	416	225	96	126	160	160	87	185	416	225	96	126	160	160	16.3
CHM15-2	87	185	460	225	96	126	160	160	87	185	460	245	140	160	195	170	23.3
CHM15-3	132	230	505	245	140	160	195	170	132	230	505	245	140	160	195	170	28

Performance curve

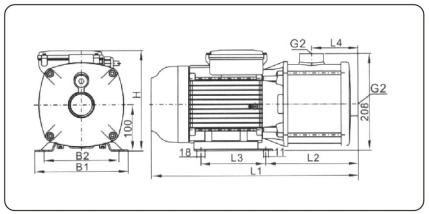
2900rpm



Performance table

Model	Driving motor P_2(kW)	Q (m^3/h)	8	10	12	14	16	18	20	22	24	26	28
CHM25-1	2.2	H (m)	15.5	15	15	14.5	14	13.5	13	12	11.5	11	10
CHM25-2	4.0		33	32.5	32	31.5	31	30.5	30	28	27	26	24
CHM25-3	5.5		50	50	40	49	48	47	46	45	43	41	38
CHM25-4	7.5		66	66	66	66	66	65	64	62	58	56	52

Installation sketch



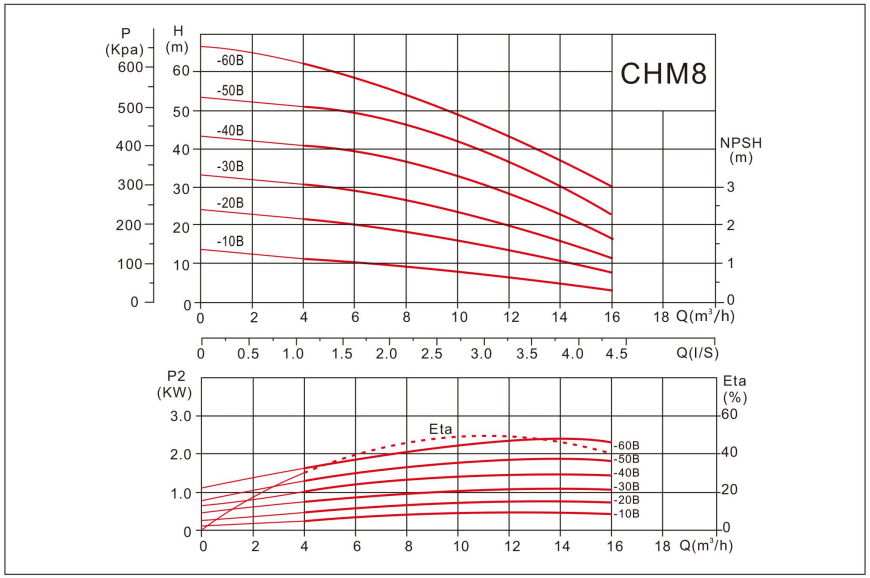
Model	Dimensions(mm)								Weight (kg)
	B1	B2	L1	L2	L3	L4	Single phase H	Three phase H	
CHM25-1	199	160	448	200	140	100	244	217	21
CHM25-2	199	160	510	235	140	100	—	260	29
CHM25-3	228	190	560	235	140	100	—	295	35
CHM25-4	228	190	620	288	140	130	—	295	38

MARO water pumps

CHM8/8-B, 50Hz

Performance curve

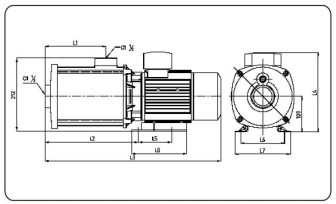
2900rpm



Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	4.0	6.0	8.0	10	12	14	16
CHM8-1	0.55	0.75	1.5"/1.5"	H (m)	11	10	9	8	7	6	5
CHM8-2	0.75	1			22	20	19	18	13	11	8
CHM8-3	1.1	1.5			31	29	26	24	20	16	11
CHM8-4	1.5	2			41	39	38	33	28	23	17
CHM8-5	2.2	3			51	49	46.5	42	37	30	23
CHM8-6	3	4			61	59	55	50	44	36	27

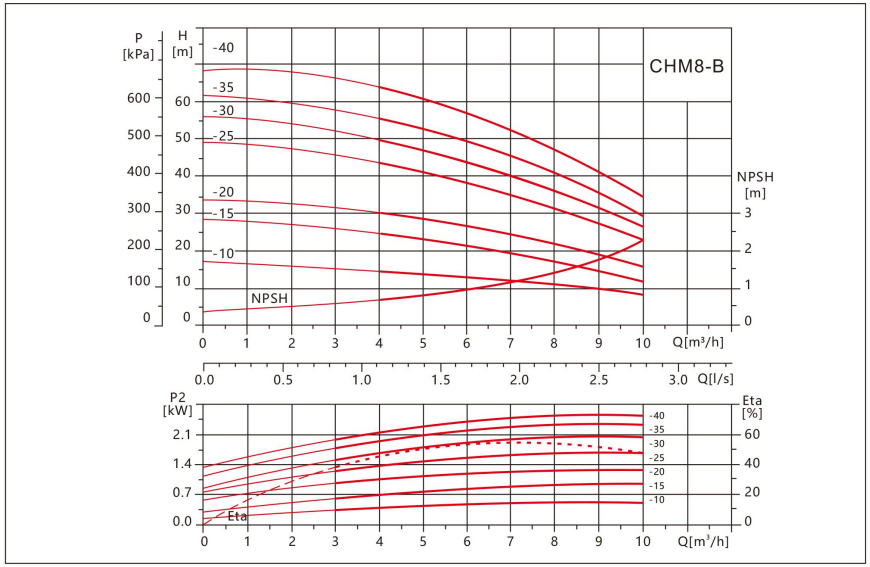
Installation sketch



Model	Dimensions(mm)																Weight (kg)
	Three phase								Single phase								
	L1	L2	L3	L4	L5	L6	L7	L8	L1	L2	L3	L4	L5	L6	L7	L8	
CHM8-1	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	13.3
CHM8-2	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	15.3
CHM8-3	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	17.4
CHM8-4	132	230	462	225	96	126	160	160	132	230	505	245	140	160	195	170	20.4
CHM8-5	162	260	492	225	96	126	160	160	162	260	535	245	140	160	195	170	25
CHM8-6	192	290	565	245	140	160	195	170	192	290	565	245	140	160	195	170	25.3

Performance curve

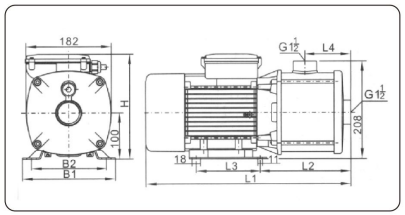
2900rpm



Performance table

Model	Driving motor P_2(kW)	Q (m³/h)	4.0	5.0	6.0	7.0	8.0	9.0	10
CHM8-10B	0.55	H (m)	15	14	13	12.5	12	9	8
CHM8-15B	0.75		25	23	22	21	20	14	12
CHM8-20B	1.0		32	29	27	25	24	21	17
CHM8-25B	1.5		43	40	38	34	27	25	20
CHM8-30B	1.85		50	46	44	40	36	30	26
CHM8-35B	2.2		56	51	48	44	43	35	28
CHM8-40B	2.2		65	57.5	57	50	48	42	34

Installation sketch



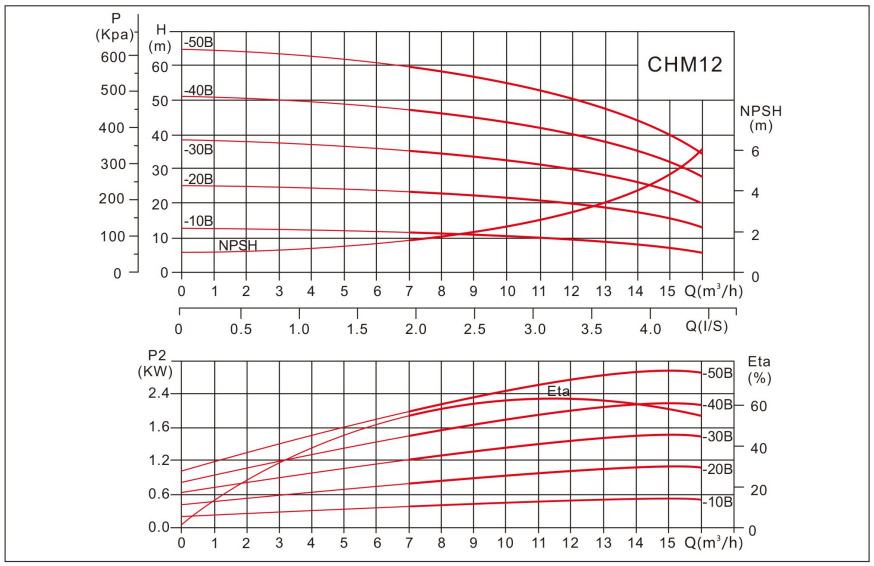
Model	Dimensions(mm)										Weight (kg)
	Single Phase					Three Phase					
	B1	B2	L1	L3	H	B1	B2	L1	L3	H	L2	L4	
CHM8-10B	158	125	377	96	206	158	125	377	96	212	185	100	10
CHM8-15B	158	125	377	96	206	158	125	377	96	212	185	100	11
CHM8-20B	158	125	377	96	206	158	125	377	96	212	185	100	13
CHM8-25B	158	125	408	96	232	158	125	408	96	217	200	100	16
CHM8-30B	199	160	449	140	244	158	125	408	96	217	200	100	21
CHM8-35B	199	160	479	140	244	158	125	438	96	217	230	130	22
CHM8-40B	199	160	479	140	244	158	125	438	96	217	230	130	23

MARO water pumps

CHM12/12-B, 50Hz

Performance curve

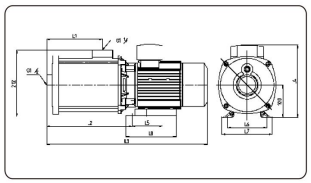
2900rpm



Performance table

Model	Driving motor (kw)	Driving motor (Hp)	Inlet/ Outlet	Q (m³)	7.0	8.0	9.0	10	11	12	13	14	15	16
CHM12-1	0.75	1	1.5"/1.5"	H (m)	12	11.5	11	10.5	10	9.5	9	8	7	6
CHM12-2	1.1	1.5			23	22.5	22	21	20.5	19.5	18.5	17	15.5	13
CHM12-3	1.85	2.5			35	34.5	33.5	32.5	31	29.5	28	26	23.5	20
CHM12-4	2.2	3			47	46	45	43.5	41.5	39.5	37.5	35	31.5	27.5
CHM12-5	3.0	4			60	58	56.5	55	52.5	50	47	44	40	35

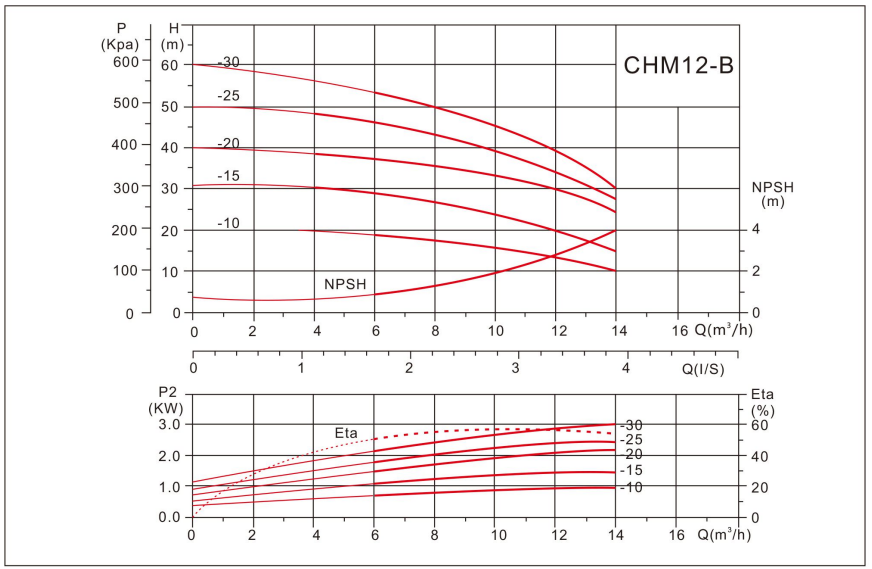
Installation sketch



Model	Dimensions(mm) Three phase L1	L2	L3	L4	L5	L6	L7	L8	Single phase L1	L2	L3	L4	L5	L6	L7	L8	Weight (kg)
CHM12-1	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	15.3
CHM12-2	102	200	432	225	96	126	160	160	102	200	432	225	96	126	160	160	16.9
CHM12-3	102	200	432	225	96	126	160	160	102	200	475	245	140	160	195	170	23.1
CHM12-4	132	230	505	245	140	160	195	170	132	230	505	245	140	160	195	170	23.9
CHM12-5	162	260	530	245	140	160	195	170	162	260	535	245	140	160	195	170	29

Performance curve

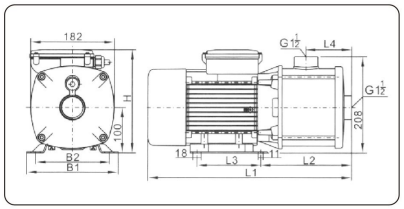
2900rpm



Performance table

Model	Driving motor P_2(kW)	Q (m³/h)	6.0	7.0	8.0	9.0	10	11	12	13	14
CHM12-10B	1.0	H (m)	19	18	17.5	16	15.5	14	13.5	12	10.5
CHM12-15B	1.5		28	27	26	25	24	22	20	18	15
CHM12-20B	1.85		38	36	35	32	31	29	28	24	20
CHM12-25B	2.2		47	45	43	41.5	39	36	33.5	30.5	27
CHM12-30B	3.0		53.5	52	50	47.5	45	42	39	35	30

Installation sketch

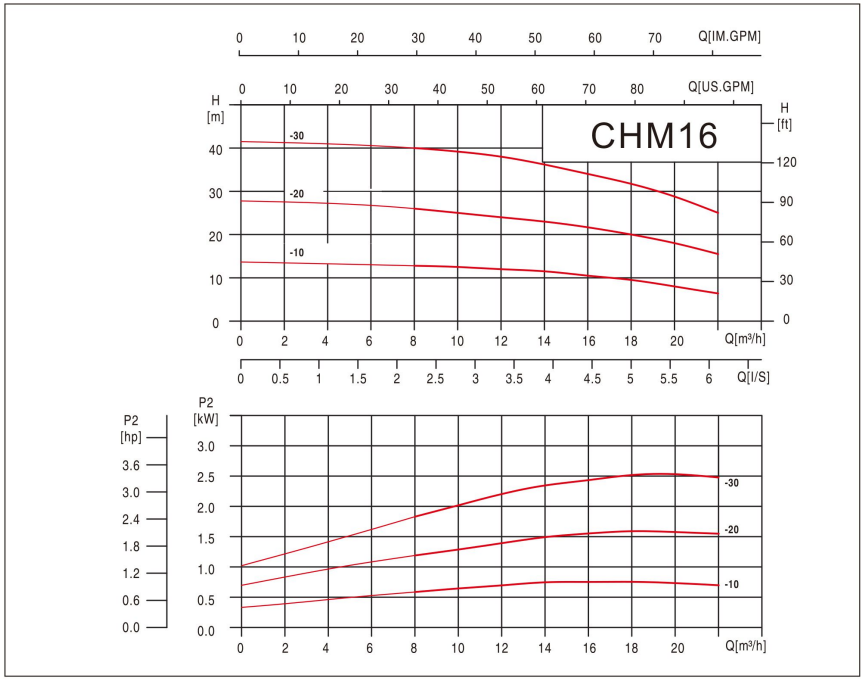


Model	Dimensions(mm) Single B1	B2	L1	L3	H	Three Phase B1	B2	L1	L3	H	L2	L4	Weight (kg)
CHM12-10B	158	125	377	96	206	158	125	377	96	212	185	100	11
CHM12-15B	158	125	408	96	214	158	125	408	96	217	200	100	13
CHM12-20B	199	160	449	140	244	158	125	408	96	217	200	100	20
CHM12-25B	199	160	449	140	244	158	125	409	96	217	200	100	23
CHM12-30B	—	—	—	—	—	199.	160	469	140	212	200	100	26

CHM16/20, 50Hz

Performance curve

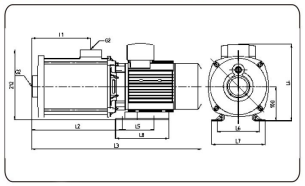
2900rpm



Performance table

Model	Driving motor (kw)	Driving motor (kw)	Inlet/ Outlet	Q (m³)	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0
CHM16-1	1.1	1.5	2"/2"	H (m)	12.8	12.5	12	11.5	10.5	9.5	8	7
CHM16-2	2.2	3			26	25	24	23	21.7	20	18	15.5
CHM16-3	3	4			40	39	38	36	34	31.5	29	25
CHM16-4	4	5.5			53.5	52	50	48	45	42	38	33.5

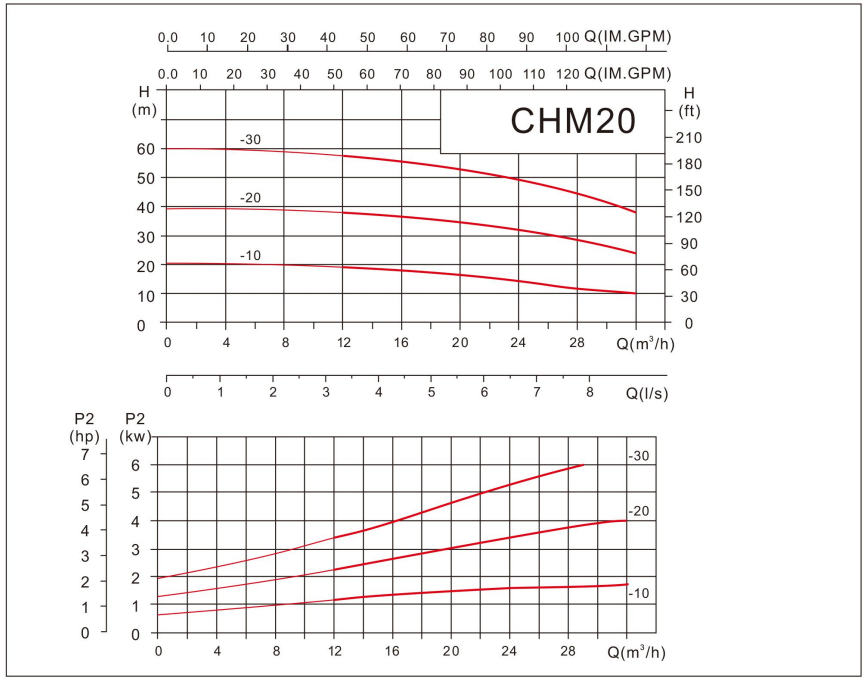
Installation sketch



Model	Dimensions(mm)																Weight (kg)
	Three phase								Single phase								
	L1	L2	L3	L4	L5	L6	L7	L8	L1	L2	L3	L4	L5	L6	L7	L8	
CHM16-1	87	185	416	225	96	126	160	160	87	185	416	225	96	126	160	160	16.3
CHM16-2	87	185	416	225	96	126	160	160	87	185	460	245	140	160	195	170	23.3
CHM16-3	132	230	505	245	140	160	195	170	132	230	505	245	140	160	195	170	28
CHM16-4	177	275	550	245	140	160	195	170									

Performance curve

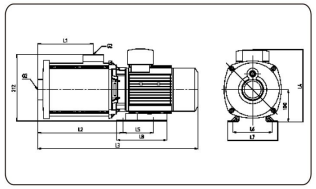
2900rpm



Performance table

Model	Driving motor (kw)	Driving motor (kw)	Inlet/ Outlet	Q (m³)	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
CHM20-1	1.1	1.5	2"/2"	H (m)	13.5	13	12.5	12	11	10	9	8	7	6
CHM20-2	2.2	3			27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5
CHM20-3	4	5.5			39.5	39	38	37.5	35.5	34	31.5	29	26	23
CHM20-4	4	5.5			49.5	49	48	48	46.5	45	42	39	36	33

Installation sketch



Model	Dimensions(mm)																Weight (kg)
	Three phase								Single phase								
	L1	L2	L3	L4	L5	L6	L7	L8	L1	L2	L3	L4	L5	L6	L7	L8	
CHM20-1	87	185	416	225	96	126	160	160	87	185	416	225	96	126	160	160	16.3
CHM20-2	87	185	416	225	96	126	160	160	87	185	460	245	140	160	195	170	23.3
CHM20-3	132	230	505	245	140	160	195	170	132	230	505	245	140	160	195	170	28
CHM20-4	177	275	550	245	140	160	195	170									



Structure features:

- SC series of pump is single-stage centrifugal pump and features axial suction and radial discharge;
- Compact structure，the pump is directly connected with the motor, coaxial installation;
- Convenient installation, screw thread water inlet and outlet;
- Light weight, thin plate pressing structure for main parts and components;
- A little corrosion resistance, material of wet parts is AISI 304 or AISI 316 stainless steel;

Application :

- Pressurization and pumping of industrial and civilian clean water or other liquids;
- Water treatment;
- Water circulating system;
- Agricultural irrigation;
- Other fields;

Definition of model :

SC250/1.5

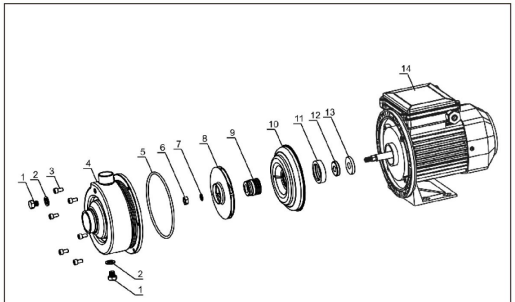
SC 250 / 1.5

- 1.5 — Rated Power(kw)
- 250 — Rated flow(l/min)
- SC — Light stainless steelhorizontal single-stage centrifugal pump(50Hz)

Exploded view:

NO.	Name
1	Plug
2	Washer
3	Inside hexagonal bolt
4	Pump housring component
5	O-Rring
6	Hexagonal Nut
7	Spring washar
8	Impeller
9	Mechanical seal
10	Pump Cover
11	Flanqe Cover Pad
12	Shaft seal ring
13	Oil seal
14	Motor

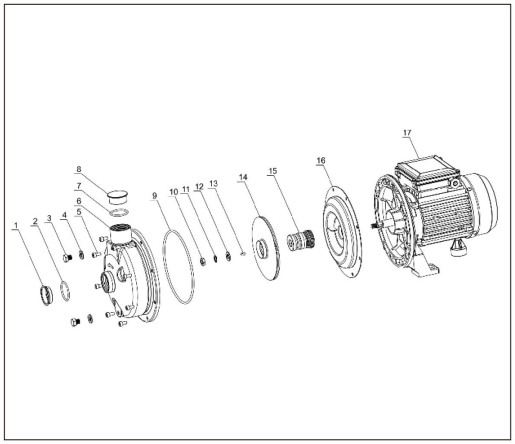
SC50/100



Exploded view:

NO.	Name
1	Dust cap
2	O-Rring
3	Plug
4	Washer
5	Inside hexagonal bolt
6	Pump housring component
7	O-Rring
8	Dust cap
9	O-Rring
10	Hexagonal Nut
11	Spring washar
12	Washer
13	Key
14	Impeller
15	Mechanical seal
16	Pump Cover
17	Motor

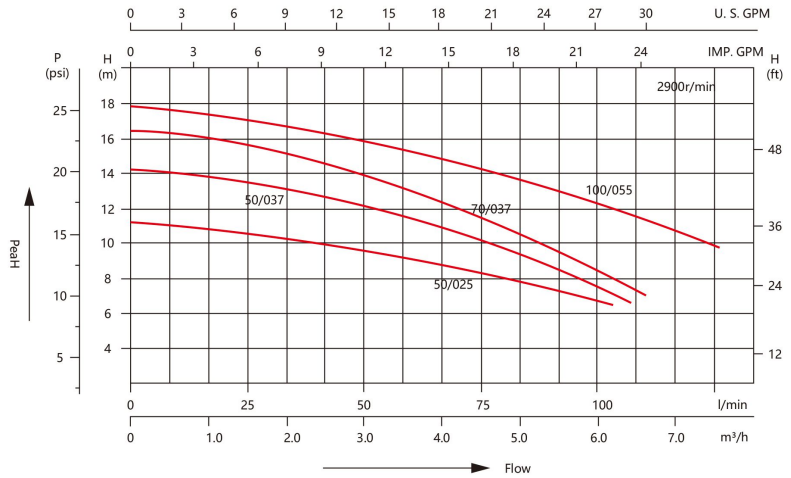
SC70/120/200



MARO water pumps

SC50/70//100/120, 50Hz

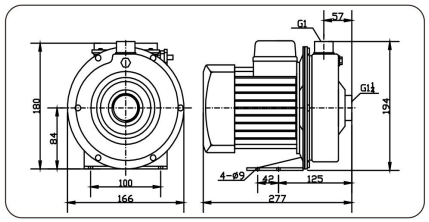
Performance curves:



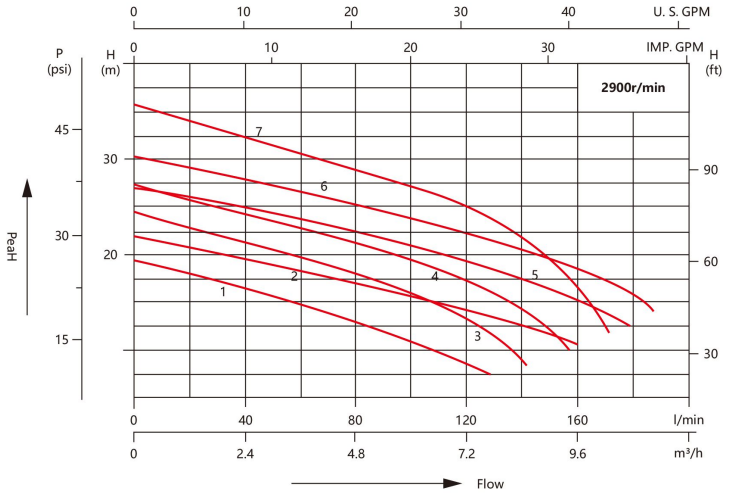
Techni cal par ameter list:

Model	Power(P_2) kw	(Amps) 220V/50Hz	(Amps) 380V/50Hz	Reted head (m)	Reted flow (m3/h)	DNA	DNM	(KG)	Packing size (mm)	(Qty/20)
SC50/025(T)	0.25	2.0	0.7	9	3	G1¼	G1	6.3	295x185x255	2010
SC50/037(T)	0.37	2.5	1.0	11	3	G1¼	G1	7	295x185x255	2010
SC70/037(T)	0.37	2.5	1.0	13	4.2	G1¼	G1	7.5	295x185x255	2010
SC100/055(T)	0.55	3.8	1.4	12	5	G1¼	G1	8	295x185x255	2010

Overall dimension:

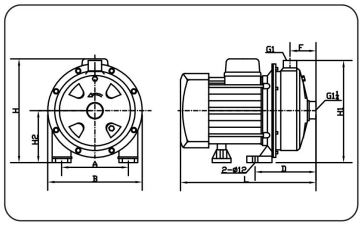


Performance curves:



Techni cal par ameter list:

Model	Power(P_2) (Kw)	Power(P_2) (Hp)	(Amps) 220V/50Hz	(Amps) 380V/50Hz	Reted head (m)	Reted flow (m3/h)	DNA	DNM	(KG)	Packing size (mm)	(Qty/20')
SC70/055	0.55	0.75	3.8	1.4	14	4.2	G1¼	G1	9.4	360X245X280	1140
SC70/075	0.75	1	5.2	18	19	4.2	G1¼	G1	10.6	360X245X280	1140
SC70/100	1.0	1.3	6.2	2.4	22	4.2	G1¼	G1	11.2	360X245X280	1140
SC120/075	0.75	1	5.2	1.8	14	7.2	G1¼	G1	10.3	360X245X280	1140
SC120/110	1.1	1.5	7.0	2.6	17	7.2	G1¼	G1	15.6	360X245X280	1070
SC120/150	1.5	2	9.2	3.5	22	7.2	G1¼	G1	17	420X260x295	896
SC120/185	1.85	2.5	13	4.1	25	7.2	G1¼	G1	18.5	420X260x295	896

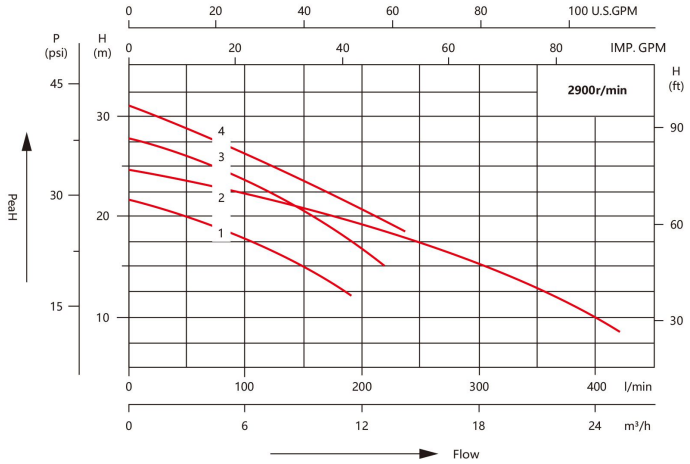


Model	Size(mm) A	B	D	F	L	H	H1	H2
SC70/055	140	220	143	53	325	234	220	110
SC70/075	140	220	143	53	325	234	220	110
SC70/100	140	220	143	53	325	234	220	110
SC120/075	140	220	143	53	325	234	220	110
SC120/110	140	220	143	53	325	234	220	110
SC120/150	170	230	143	53	360	260	230	120
SC120/185	170	230	143	53	360	260	230	120

MARO water pumps

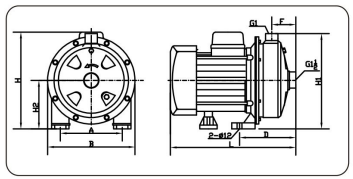
SC200/370, 50Hz

Performance curves:



Techni cal par ameter list:

Model	Power(P_2)		(Amps)		Reted head (m)	Reted flow (m3/h)	DNA	DNM	(KG)	Packing size (mm)	(Qty/20')
	(Kw)	(Hp)	220V/50Hz	380V/50Hz							
SC200/100	1.1	1.5	7.0	2.6	15	9	G1½	G1	16	385X245X280	1070
SC200/150	1.5	2	9.2	3.5	20	10	G1½	G1	19.1	420X260X295	896
SC200/150-B	1.5	2	9.2	3.5	20	10	G1½	G1	18.5	395X260x295	957
SC200/185	1.85	2.5	13	4.1	21	12	G1½	G1	21.3	420X260x295	896
SC200/185	1.85	2.5	13	4.1	21	12	G1½	G1	20.5	410X260X295	922



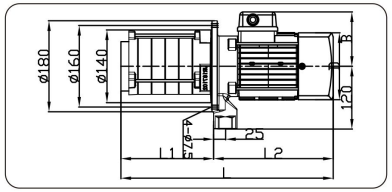
Model	Size(mm)							
	A	B	D	F	L	H	H1	H2
SC200/100	150	230	146	53	366	230	238	120
SC200/150	150	230	146	53	366	230	238	120
SC200/150-B	150	230	146	53	366	230	238	120
SC200/185	150	230	146	53	366	230	238	120
SC200/185	150	230	146	53	366	230	238	120

CDLK IMMERSION STAINLESS STEEL MULTI-STAGE CENTRIFUGAL PUMP



CDLK 2 Performance Table

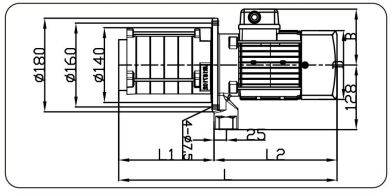
Model	Driving motor		Inlet	Q (m^3)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
	(kw)	(Hp)									
CDLK2-2	0.37	0.5	1"/1"	H (m)	19	18	16.5	15	13	10	7.5
CDLK2-3	0.37	0.5			28	26.5	24.5	22	19	15.5	12
CDLK2-4	0.55	0.75			36	34.5	33	29	25	20.5	16
CDLK2-5	0.55	0.75			45.5	43	40	36	31.5	26.5	20.5
CDLK2-6	0.75	1			53.5	51	48	44	39	32	24
CDLK2-7	1.1	1.5			61	57.5	55	53	50	45	39
CDLK2-8	1.1	1.5			67	65	63	61	57	51	44
CDLK2-9	1.1	1.5			76	73	70	67	64	57	50



Model	Size(mm)					
	D		B	L	L1	L2
	Single phase	Three phase				
CDLK2-2	130	134	105	326	106	202
CDLK2-3	130	134	105	344	124	202
CDLK2-4	130	134	105	362	142	220
CDLK2-5	130	134	105	380	160	220
CDLK2-6	130	134	105	398	195	225
CDLK2-7	130	134	105	416	213	225
CDLK2-8	130	134	105	434	231	225
CDLK2-9	130	134	105	452	249	225

CDLK 4 Performance Table

Model	Driving motor		Inlet	Q (m^3)	1	2	3	4	5	6	7
	(kw)	(Hp)									
CDLK4-2	0.37	0.55	1.25"/1"	H (m)	19	18	17	15	12.5	10	8
CDLK4-3	0.55	0.75			28	27	26	23.5	20.5	17	13
CDLK4-4	0.75	1			37.5	36	34	31	27	23	19
CDLK4-5	1.1	1.5			47	45	42.5	39	34	29	23
CDLK4-6	1.1	1.5			56	54	51	47	41.5	35.5	28
CDLK4-7	1.5	2			65	63	59	54	48	41	32
CDLK4-8	1.8	2.4			74	72	68	62	55	47	37
CDLK4-9	1.8	2.4			83	81	76	70	62	53	41



Model	Size(mm)					
	D		B	L	L1	L2
	Single phase	Three phase				
CDLK4-2	130	134	105	341	122	235
CDLK4-3	130	134	105	368	149	235
CDLK4-4	130	134	105	395	176	235
CDLK4-5	130	134	105	422	203	235
CDLK4-6	130	134	105	450	230	236
CDLK4-7	130	134	105	477	257	236
CDLK4-8	130	134	105	504	284	236
CDLK4-9	130	134	105	531	311	236

CMS/CMY STAINLESS STEEL HORIZONTAL MULTI-STAGE CENTRIFUGAL PUMP

CMS/CMY is centrifugal variable frequency pump, CMS-MZ/CMY-MZ is self-priming variablefrequency pump





●CMS/CMY 2 Performance Table

Model	Driving motor		Inlet	Q (m^3)	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
	(kw)	(Hp)											
CMS/CMY2-3/2-3MZ	0.37	0.5	1"	H (m)	27	26	25	24	23	22	20	17	15
CMS/CMY2-4/2-4MZ	0.55	0.75			36	35	34	32	31	29	27	23	20
CMS/CMY2-5/2-5MZ	0.55	0.75			44	43	42	40	38	36	33	28.5	24
CMS/CMY2-6/2-6MZ	0.75	1			53	51.5	49	47	44	41	37	32	27

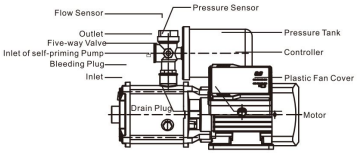
●CMS/CMY 4 Performance Table

Model	Driving motor		Inlet	Q (m^3)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
	(kw)	(Hp)													
CMS/CMY4-2/4-2MZ	0.37	0.5	1.25"	H (m)	19	18.5	18	17	16.5	16	15	14	13.5	12	10
CMS/CMY4-3/4-3MZ	0.55	0.75			28.5	27.5	27	25.5	25	24	22.5	21	20	18	15
CMS/CMY4-4/4-4MZ	0.75	1			38	37	36	34	33.5	32	30	28	27	24	20

SPK SILENT INTELLIGENT PUMP

SPK-M is centrifugal intelligent pump, SPK-MZ is self-priming intelligent pump





●SPK 2 Performance Table

Model	Driving motor		Inlet	Q (m^3)	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	5.0
	(kw)	(Hp)											
SPK2-2M/2-2MZ	0.37	0.5	1"	H (m)	22	19	18.5	18	17	19.5	14.5	13.5	12
SPK2-3M/2-3MZ	0.37	0.5			31	28	27	26	25	29	22	19	17
SPK2-4M/2-4MZ	0.55	0.75			40	37	36	34	33	38	29	25	22
SPK2-5M/2-5MZ	0.55	0.75			48	45	44	42	40	46	35	30.5	26
SPK2-6M/2-6MZ	0.75	1			58	53.5	51	46	43	55	39	34	29

●SPK 4 Performance Table

Model	Driving motor		Inlet	Q (m^3)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	8.0
	(kw)	(Hp)													
SPK4-2M/4-2MZ	0.37	0.5	1.25"	H (m)	21	20	19.5	19	18	17.5	17	15.5	15	13	12
SPK4-3M/4-3MZ	0.55	0.75			32	30.5	30	29	28.5	27.5	27	25	24	22	20
SPK4-4M/4-4MZ	0.75	1			42	39	38	36	35.5	34	32	30	29	26	22
SPK4-5M/4-5MZ	1.1	1.5			51	48	47	46	44.5	43	42	38	37	34	29
SPK4-6M/4-6MZ	1.1	1.5			60	57	56	55	54.5	53	51	47	46	44	38

STAINLESS STEEL BACKPACK TYPE MULTI-STAGE VARIABLE FREQUENCY CONVERSION PUMP



WM-1



WF-1



WB-1



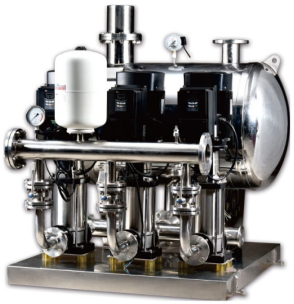
WB-2



BP-1



BP-2



BP-3

304SS Pump Head



304SS Impeller



304SS Diffuser



304SS Shielding Cover



304ss Oil Seal Cover



Other 304SS Spare Parts

