

CHL/CHB/CHLF/CHLF (T) /CHC

STAINLESS STEEL HORIZONTAL MULTI-STAGE CENTRIFUGAL PUMP



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);

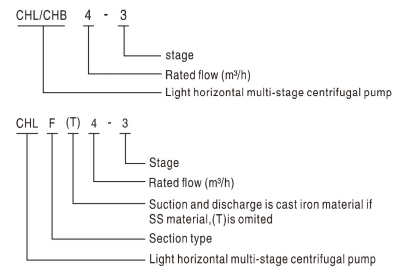
- Circulation for air condition system;
- Cooling system;
- Water treatment, purification system;
- Industry cleaning system;
- Liquid transferring, circulation, boosting;
- Hot or cold water;
- Feed proportioning system of food, drinking, agriculture, etc.

Operation conditions

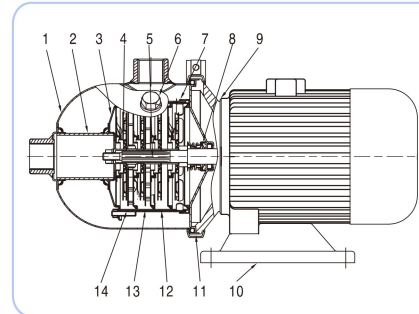
- Liquid temperature: Normal temperature type -15 °C ~+700°C ; Hot water type -15 °C~+110 °C ;
- Flow range: 0.5~28m³/h;
- Max pressure: 10 bar;
- Liquid pH range: pH5~9;
- Max ambient temperature: +40°C;
- The Max suction pressure is limited by max operating pressure;
- Min inlet pressure: Refer to CHL catalogue.

Caution: When pumping liquids with a density and/or viscosity higher than that of water, use motors with correspondingly higher outputs, if required.

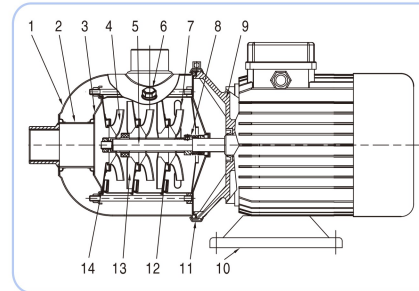
Definition of Model



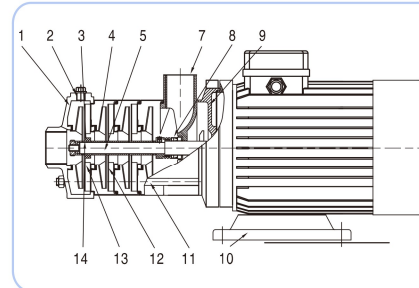
Section drawing CHL/CHB2,4



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

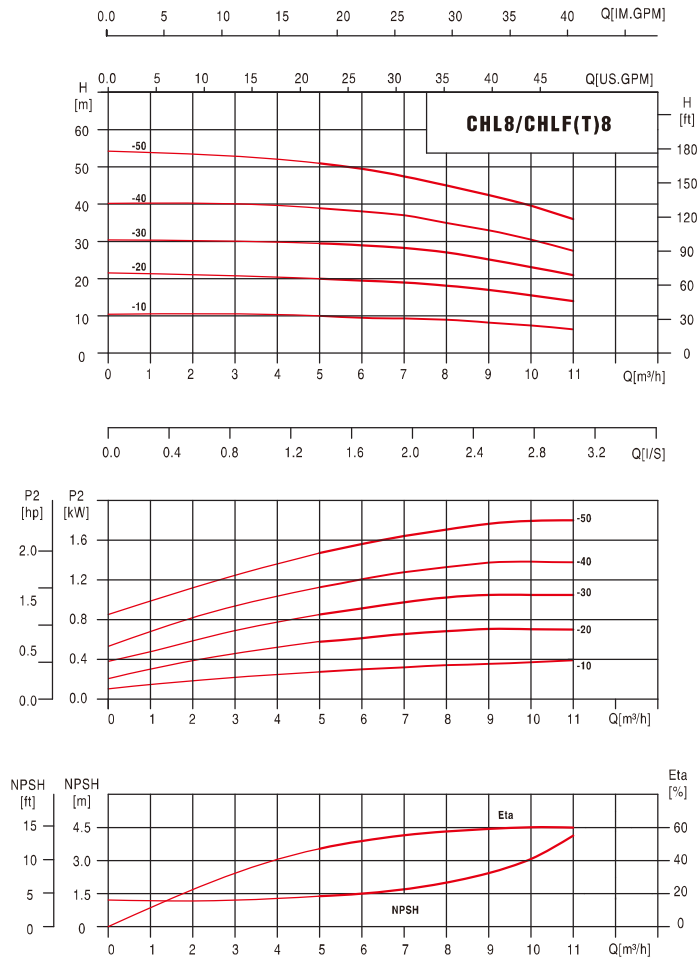
Material CHLF,CHLF(T)

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 body	Stainless steel	AISI304
7	water-out body	Stainless steel	AISI304
CHLF(T)			
1	water-in body	Cast iron	ASTM25B
7	water-out body	Cast iron	ASTM25B

CHL8/CHLF(T)8, 50Hz

● Performance curve

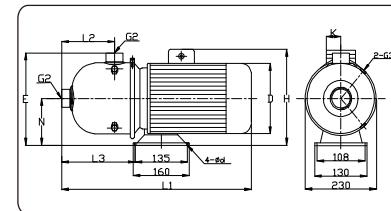
2900rpm



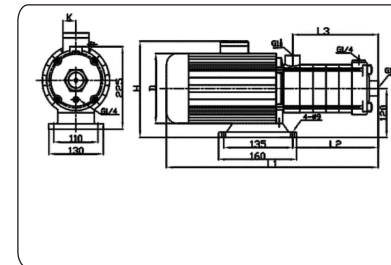
● Performance table

Model	Driving motor		Inlet/Outlet	Q (m³)	5	6	7	8	9	10	11
	(kw)	(Hp)									
CHL8-2 CHLF8-2	0.75	1	CHL 2 1/2" 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

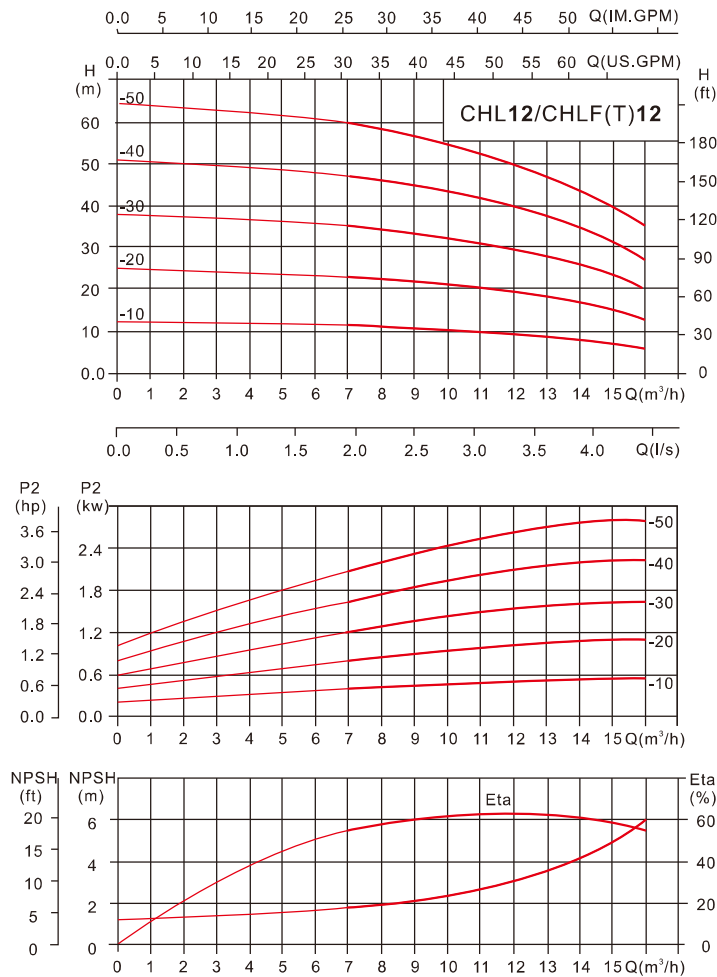


Model	Size(mm)					
	L1	L2	L3	H	D	K
CHLF8-2	470	137	120	253	158	40
CHLF8-3	488	155	138	253	158	40
CHLF8-4	506	173	156	253	158	50
CHLF8-5	524	191	144	253	158	50

CHL12/CHLF(T)12, 50Hz

● Performance curve

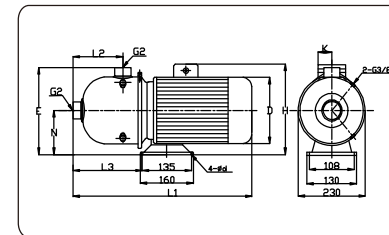
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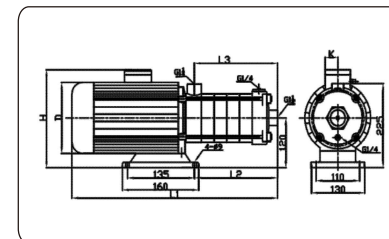
● Performance table

Model	Driving motor		Inlet/Outlet	Q (m³)	7	8	9	10	11	12	13	14	15	16
	(kw)	(Hp)			H (m)	H (m)	H (m)	H (m)	H (m)	H (m)	H (m)	H (m)	H (m)	H (m)
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	

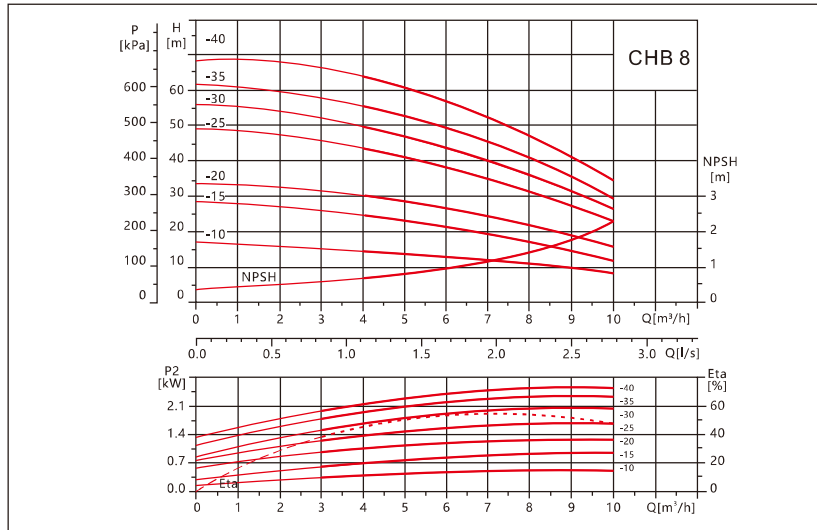


Model	Size(mm)					
	L1	L2	L3	H	D	K
CHLF12-2	470	137	120	253	158	40
CHLF12-3	488	155	138	253	158	40
CHLF12-4	506	173	156	253	158	50
CHLF12-5	524	191	144	253	158	50

CHB8/12, 50Hz

Performance curve

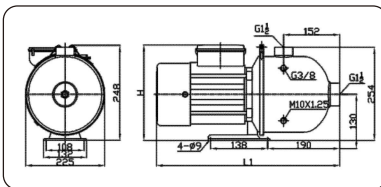
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Performance table

Model	Driving motor		Inlet/Outlet	Q (m³)	H (m)						
	(kw)	(Hp)			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

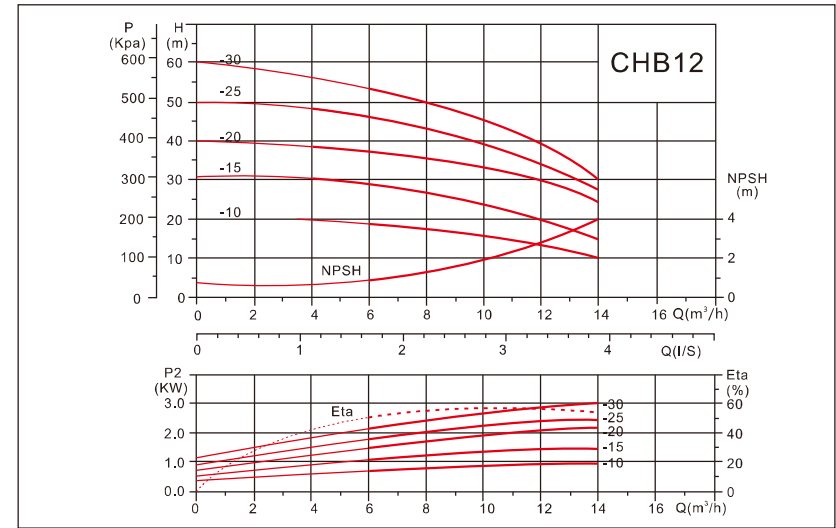
Installation sketch



Model	Size(mm)				Weight (kg)
	Single phase		Three phase		
	L1	H	L1	H	
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

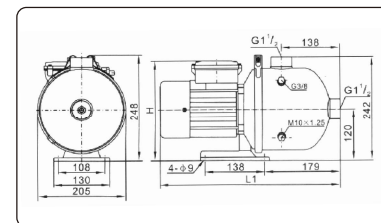
2900rpm



Performance table

Model	Driving motor P ₁ (kW)	Q (m³/h)	H (m)									
			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

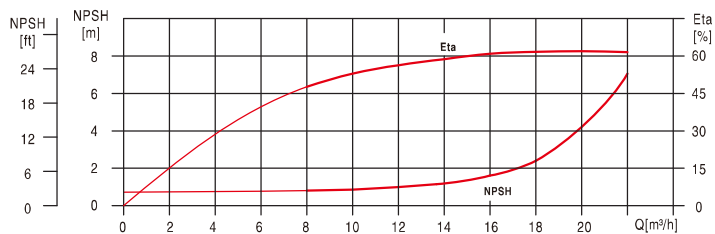
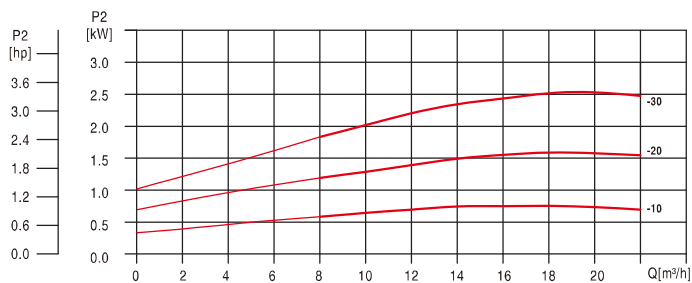
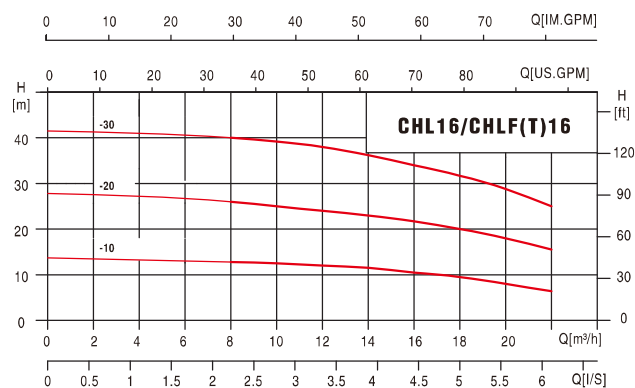


Model	Dimensions(mm)				Weight (kg)
	Single Phase		Three Phase		
	L1	H	L1	H	
CHB12-10	424	227	424	222	10.5
CHB12-15	424	227	424	222	12
CHB12-20	424	227	424	222	14
CHB12-25	459	235	459	232	17
CHB12-30	500	239	459	232	21.5
CHB12-35	500	239	459	232	23
CHB12-40	500	239	459	232	24

CHL16/CHLF(T)16, 50Hz

● Performance curve

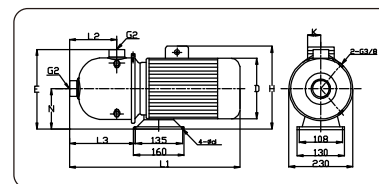
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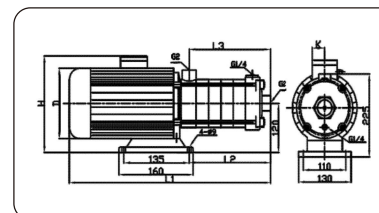
● Performance table

Model	Driving motor		Inlet/Outlet	Q (m³)	8	10	12	14	16	18	20	22
	(kw)	(Hp)			H (m)							
CHL16-2 CHLF16-2	2.2	3	2 1/2"	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

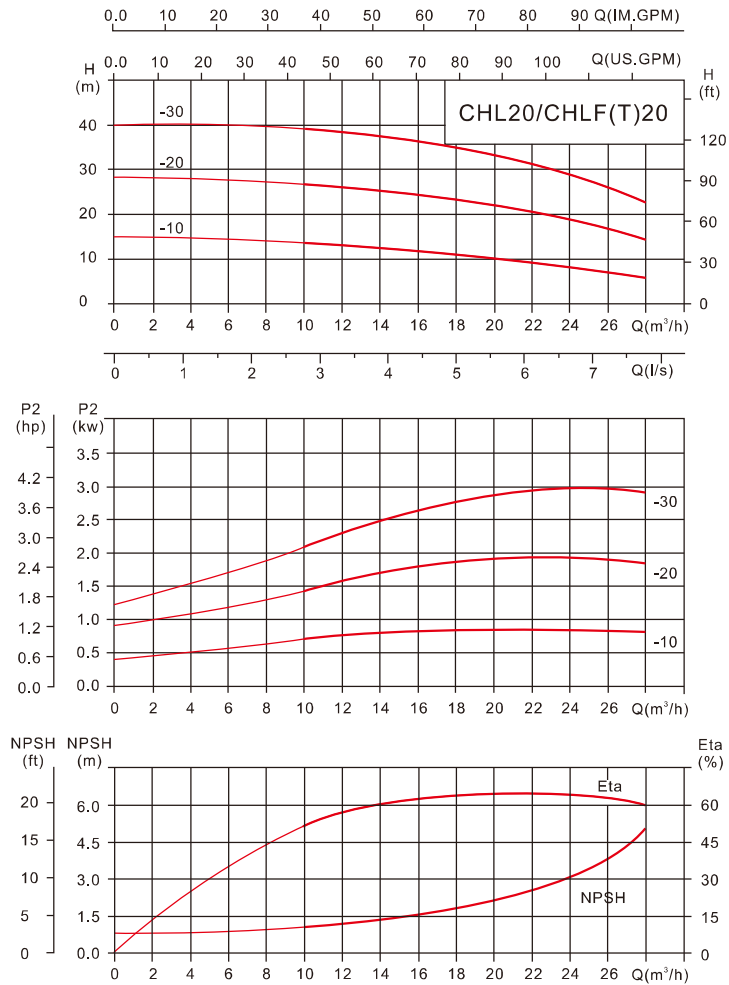


Model	Size(mm)					
	L1	L2	L3	H	D	K
CHLF16-2	530	175	128	255	180	40
CHLF16-3	548	193	138	255	180	40
CHLF16-4	566	211	156	255	180	50
CHLF16-5	584	229	144	255	180	50

CHL20/CHLF(T)20, 50Hz

● Performance curve

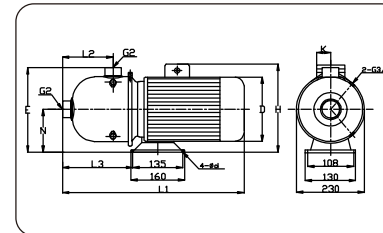
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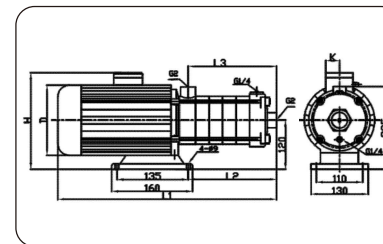
● Performance table

Model	Driving motor		Inlet/Outlet	Q (m³)	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
	(kw)	(Hp)			H (m)	27	26.5	25.5	25	23.5	22	20.5	18.5	17
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