

CHL 50Hz/60Hz

Light Horizontal Multistage Centrifugal Pump

CHLK/CHLF(T)



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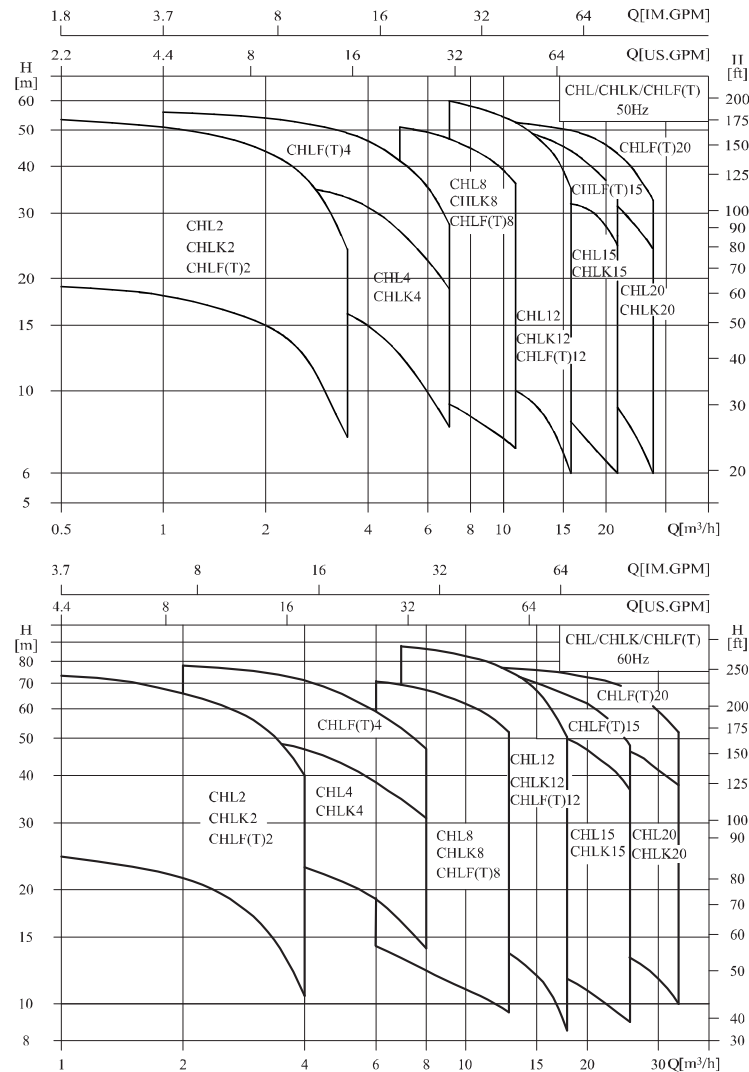
<http://www.cnppump.com>

E190910
Code1500008159
subject to amendments



 **CNP**

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 to ISO9906:2012 Grade 3B.
- Measurement is done with 20°C 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°C ~ +70°C
Hot water type: -15°C ~ +105°C
- Ambient temperature: up to +40°C
- 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, 15, 20	CHLF(T)8	CHLF(T)12	CHLF(T)15, 20
Inlet	G1	G1 $\frac{1}{4}$	G2	G1 $\frac{1}{2}$	G1 $\frac{1}{2}$	G2
Outlet	G1	G1	G2	G1 $\frac{1}{4}$	G1 $\frac{1}{2}$	G2

● Definition of Model

CHL Example

CHL 2 - 30 G
 — New Generation
 — Stage × 10
 — Rated flow m³/h
 — Light horizontal multistage centrifugal pump
 (Flow passage components stainless steel 304 or 316L)

CHLK Example

CHLK K 2 - 30
 — Stage × 10
 — Rated flow m³/h
 — Stainless steel air-conditioning pump
 — Light horizontal multistage centrifugal pump
 (Flow passage components stainless steel 304 or 316L)

CHLF(T) Example

CHLF(T) 2 - 30
 — Stage × 10
 — Rated flow m³/h
 — Light horizontal multistage centrifugal pump
 (F stands for "section type", T means "Suction and discharge are made of cast iron"; stainless steel, omitted)

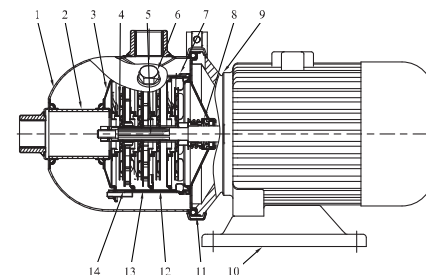
● Material CHL/CHLK

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	Steel plate	AISI11015
11	Spannband	Stainless steel	AISI304
12	Diffuser	Stainless steel	AISI304
13	Support diffuser	Stainless steel	AISI304
14	Inducer	Stainless steel	AISI304

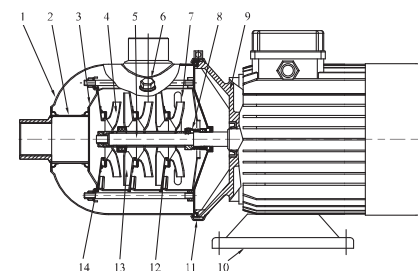
● Material CHLF/CHLF(T)

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	Steel plate	AISI11015
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,CHLK8,12,15,20



● Section drawing CHLF,CHLF(T)

