



# General Catalogue 2022-2023

*Water for life, Ideal for water !*



NINGBO CACHENG  
MACHINERY & ELECTRIC CO., LTD.





- ◆ Circulator Pump
- ◆ Multistage Centrifugal Pump
- ◆ Surface Pump
- ◆ Submersible Pump
- ◆ Submersible Borehole Pump
- ◆ Garden Pump
- ◆ Pool, Bathtub, Pond Pump
- ◆ Pump Accessories

Quality is considered to be life of Cacheng, Cacheng not only puts emphasis on quality but also sets up a high efficient and perfect quality managing system. Cacheng is ISO9001:2015 certificated and its products are CE, GS, TUV, VDE, EMC, UL & CSA certificated.

Cacheng pays great attention to energy-saving and enviromental protection. Cacheng has been improving many products in accordance with Eur standard. A lot of Cacheng products comply with the most updated Eur standard, which represents the latest requirements of Eur.

Excellent products and services lie in powerful R&D ability! Cacheng is proud of having an excellent technical center which is a comprehensive research institution with multiple functions of design, development, study of technical process and primary technology.

“ Integrity, Responsibility, Innovation, Efficiency, Service and Team ” is Cacheng's service philosophy. We contribute ourselves to establishing long-term strategic partner relationship with our customers and try for win-win.

“Water for life, Ideal for water” is our concept. Cacheng upgrading itself to developing safe, environment friendly, high energy-efficient pumps and filtration products and upgrades the image of China's pump industry. Cacheng will continue to make all efforts to provide the customers with Better & Total Pumping Solutions and become the leader of the pump industry.



## Brief Introduction

CACHENG has accumulated rich experience since its establishment in 2002. After years' development, CACHENG has become one of the leading Chinese exporters and a reliable pump supplier and enjoys a good reputation in the field of pumps. At Cacheng, we encapsulate our core values with the words "Professional-Innovation-Service". This expresses our commitment to bring you Better&Total Pumping Solutions in the world through ardor, innovation, and scrupulous business ethics. Good reputation, superior service and continuously creating value for the customers, CACHENG wins fame from global partners.

CACHENG's network spreads out over 70 countries and regions in the world. Our main market is Europe, North America and Australia. It has become the long-term supplier of world-class pump manufacturers. Cacheng aims to be a total solution provider for water pump, pump accessories&filtration products. Wide range of products and high quality ensure Cacheng meets international customers' one-stop purchasing requirement. It continuously diversifies its products range according to customers' needs, now with more than 1,600 items, including:



## Growing Global



ABILITY TO CREATE THE CLASSIC  
QUALITY THROUGH PROFESSIONALISM  
SERVICE DUE TO RESPONSIBILITY

# CACHENG



## Cacheng USA

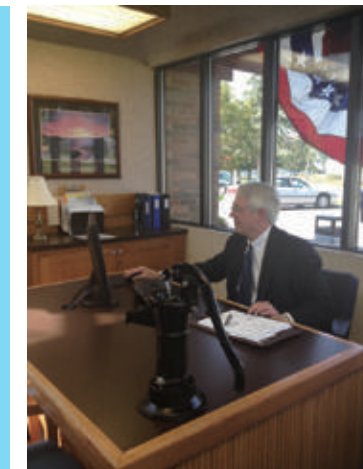
In USA Cacheng established distribution service center and can supply one stop service for the customers. Cacheng has remained at the forefront of innovation for pumps and accessories.

We are able to supply high quality products to the customers and hold the spirit of customer first always.

## Cacheng Pumps GmbH

Cacheng continued to expand our Customer First Commitment as demonstrated by opening our our Joint Venture Cacheng Pumps GmbH in Germany and UK sales office in 2014.

Cacheng Pumps GmbH opened 3,000 square meters Distribution and Service center near Cologne, Germany, where we stand ready to provide a full range of water pumps and pump accessories for immediate delivery. Our team of professionals look forward to working together to deliver cost effective pumping solutions. We provide personal communications, on-site visits, technical support, after-sale service, and customized inventory programs to create the maximum value for our partners, all in the spirit of Customer First!





**CACHENG**  
anniversary

24<sup>th</sup>

## Vision> Mission> Values>

**Vision:** To be a global leading manufacturer & service provider in civil pumps, home appliance of water application.

**Mission:** To achieve the max value for partners by win-win cooperation, to give self-worth opportunity for every staff constantly.

**Values:** Integrity, Responsibility, Innovation, Efficiency, Service, Team

CACHENG





# New Products

**NEW**

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# Control Ability

In order to provide ideal cost-effective products and higher values to customers, Cacheng puts strict control not only on quality but also on cost-savings and delivery time.





# Circulator Pump



**CFA**

**High Energy-efficient Circulator Pump**

## Circulator pumps:

**CFA pump is a complete range of circulator pump feature:**

- Pump parameters adjust to the actual system environments
- Automatic night-time duty
- The frequency converter
- Display the actual power consumption in watt
- Motor based on permanent-magnet / compact-rotor technology
- The Energy Efficiency Index ( EEI ) requirement will be  $EEI \leq 0.27$  from 2013,  $EEI \leq 0.2$  from 2015. CACHENG's CFA series can meet the requirement on 2017.

**CFA pump is energy-optimised and A-labelled.**

- The energy label A indicates the energy-saving level of the pump. The energy classification system has seven levels, i.e. from A to G. Level A is the best.
- The installation of a CFA pump will reduce the power consumption considerably, reduce noise from thermostatic valves and similar fittings, and improve the control of the system.

**CFA pump offers a host of advantages:**

- Energy savings automatic control of the differential pressure.
- Low-noise operation.
- Safety built-in electrical and thermal protection of the pump.
- Top quality materials used.

## Application and Use:

**CFA pump is designed for circulating liquids in heating systems.**

- Automatic operation proportional or constant pressure control.
- Automatic night-time duty

**CFA pump is especially suitable for**

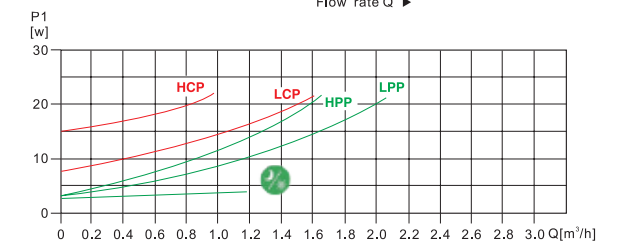
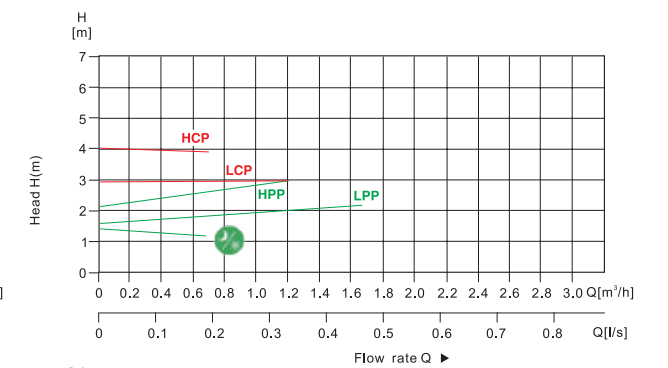
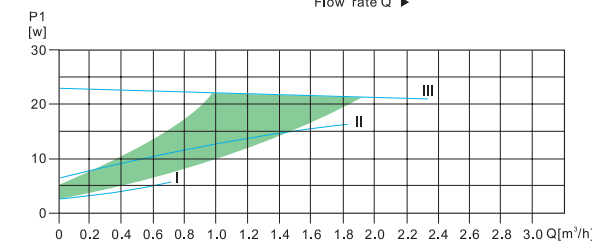
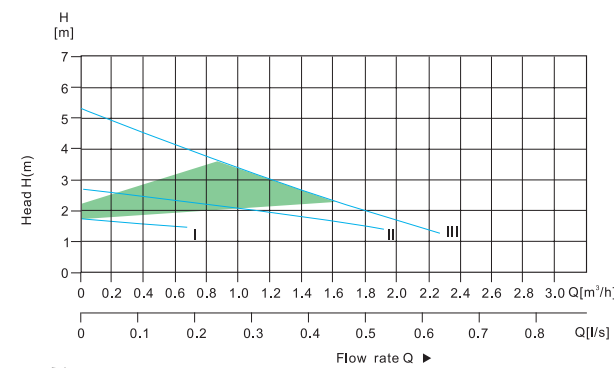
- Installation in existing systems where the differential pressure of the pump is too high during periods of reduced flow demand.
- Installation in new systems for fully automatic adjustment of the performance to flow demands without the use of by pass valves or similar expensive components.
- Clean, thin, non-aggressive and non-explosive liquid, not containing solid particles, fibres or mineral oil.
- The pump must not be used for the transfer of flammable liquids such as diesel, petrol and similar liquid.



**CFA25-40-180N**  
**EEI<0.2**

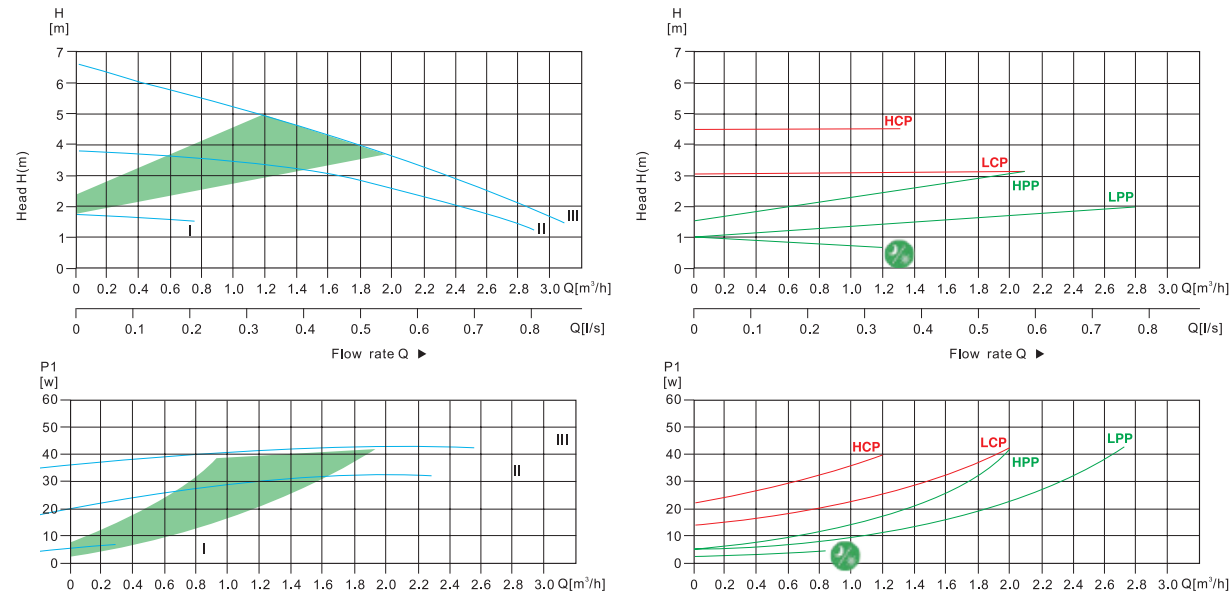


**CFA(20/25/32)-40-130/180N**





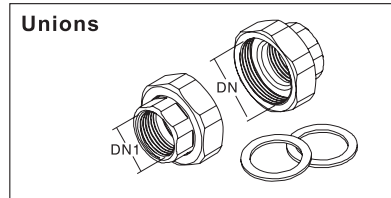
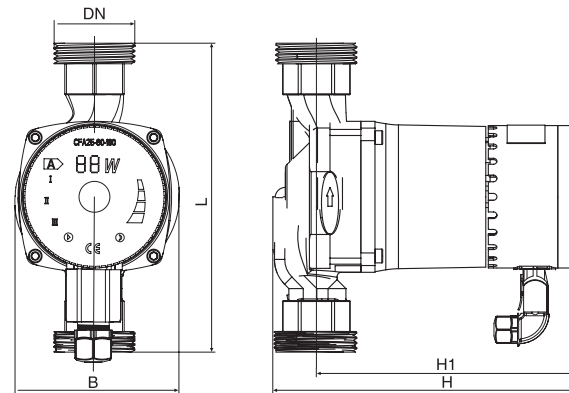
CFA(20/25/32)-60-130/180N



**Exhaust vent**  
(If shaft block in pump, open exhaust vent, use screwdriver to insert shaft of pump and turn around in upper space. )



**External plug**  
(ensure easier and quicker installation)



MODEL	POWER P1(W)	HEAD (m)	SIZE(mm)				G.W (KG)	FITTINGS		QTY/20' GP (UNIT)
			H	H1	L	B		DN	DN1	
CFA20-40-130N	23	4	180	150	130	90	3.1	G1"	G¾"	3504
CFA25-40-180N	22	4	180	150	180	90	3.5	G1½"	G1"	3504
CFA32-40-180N	23	4	180	150	180	90	3.8	G2"	G1¼"	3504
CFA25-50-180N	32	5	180	150	180	90	3.5	G1½"	G1"	3504
CFA20-60-130N	45	6	180	150	130	90	3.1	G1"	G¾"	3504
CFA25-60-180N	45	6	180	150	180	90	3.5	G1½"	G1"	3504
CFA32-60-180N	45	6	180	150	180	90	3.8	G2"	G1¼"	3504

### Circulator pumps:

- CFA pump is a complete range of circulator pump feature:**
- Pump parameters adjust to the actual system environments
  - Automatic night-time duty
  - The frequency converter
  - Display the actual power consumption in watt
  - Motor based on permanent-magnet / compact-rotor technology

- CFA pump is energy-optimised and A-labelled.**
- The installation of a CFA pump will reduce the power consumption considerably, reduce noise from thermostatic valves and similar fittings, and improve the control of the system.

- CFA pump offers a host of advantages:**
- Energy savings automatic control of the differential pressure.
  - Low-noise operation.
  - Safety built-in electrical and thermal protection of the pump.
  - New materials used.

### Application and Use:

- CFA pump is designed for circulating liquids in heating systems.**
- Automatic operation proportional or constant pressure control.
  - Automatic night-time duty

- CFA pump is especially suitable for**
- Installation in existing systems where the differential pressure of the pump is too high during periods of reduced flow demand.
  - Installation in new systems for fully automatic adjustment of the performance to flow demands without the use of by pass valves or similar expensive components.
  - Clean, thin, non-aggressive and non-explosive liquid, not containing solid particles, fibres or mineral oil.
  - The pump must not be used for the transfer of flammable liquids such as diesel, petrol and similar liquid.

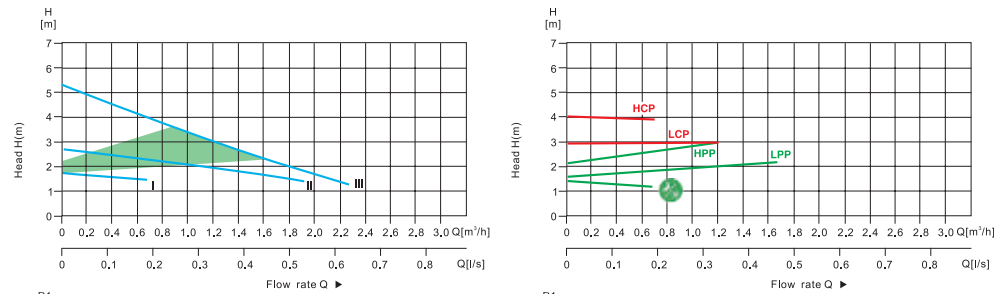
**Exhaust vent**  
(If shaft blocked in pump, use screwdriver to insert shaft of pump and turn around in upper space. )



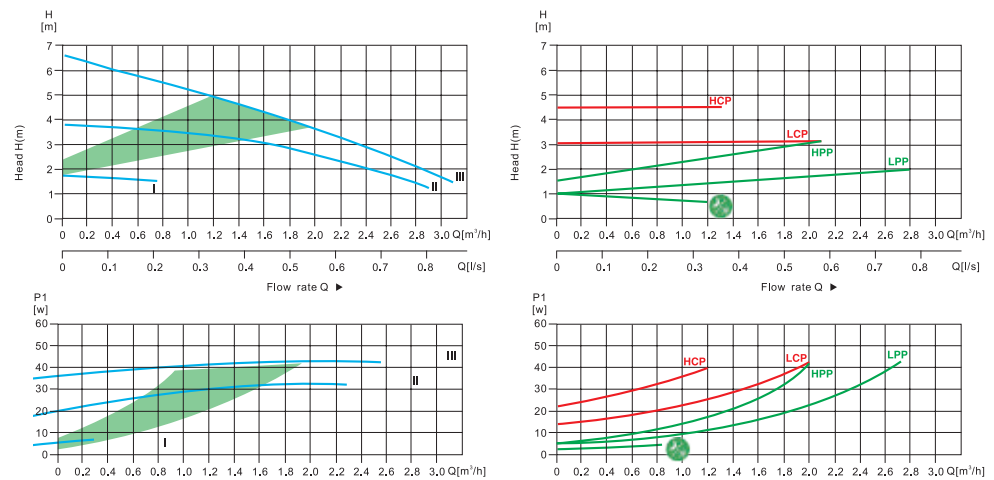
Setting	Pump Curve	Function
AUTO (factory setting)	Proportional pressure curve from highest to lowest	Auto function will automatically control the pump within stipulated range referring to the table above. -To adjust pump performance according to size of system -To adjust pump performance according to load change within a period The pump sets to proportional control mode under "Auto" mode
LPP	Lowest proportional pressure curve	The working point on the lowest pressure proportional system of the pump will go up or down following the flow demand of system refer to the table above. The pressure is declined when flow demand falls and increased when flow demand goes up.
HPP	Highest proportional pressure curve	The working point on the highest pressure proportional system of the pump will go up or down following the flow demand of system referring to the table above. The pressure is declined when flow demand falls and increased when flow demand goes up.
LCP	Lowest constant pressure curve	The working point on the lowest constant pressure curve of the pump will back and forth following the flow demand of system referring to the table above. The pressure is constant regardless flow demand.
HCP	Highest constant pressure curve	The working point on the highest constant pressure curve of the pump will back and forth following the flow demand of system referring to the table above. The pressure is constant regardless flow demand.
III	Speed III	On speed III mode, the pump sets to operate on the max curve under all conditions. Referring to the table above. The air can be discharged quickly for pumps if the pump is setted under speed III speed at a short time.
II	Speed II	On speed II mode, the pump sets to operate on the middle curve under all conditions. Refer to the table above.
I	Speed I	On speed I mode, the pump sets to operate on the min curve under all conditions. Refer to the table above.
Night Mode	Night Mode	Once a certain condition is met, the pump will change to the night mode by lowest performance and power consumption referring to the table above.



CFA(20/25/32)-40-130/180

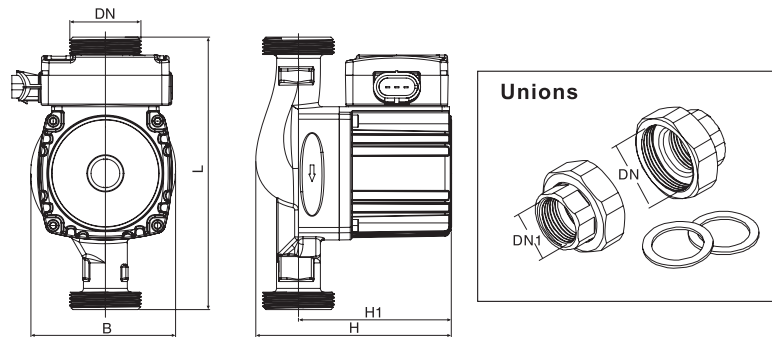


CFA(20/25/32)-60-130/180



### Electrical Specification:

Supply voltage	1 x 230 V-10 %/+ 6 %, 50 Hz
Motor protection	The pump requires no external motor protection.
Enclosure class	IP 44
Insulation class	F
Relative air humidity	Maximum 95 %
Ambient temperature	0°C to + 40°C
Temperature class	TF110 to CEN 335-2-51
EMC (electromagnetic compatibility)	EC641/2009 EEI<0.2
Sound pressure level	≤ 43 dB(A)



### Liquid Temperature:

- Cast-iron pumps: +2°C to + 110°C
- In domestic hot-water systems, it is recommended to keep the liquid temperature below 65°C to eliminate the risk of lime precipitation.

MODEL	POWER P1 (W)	HEAD (m)	SIZE (mm)				G.W (kg)	FITTINGS		QTY/20' GP (UNIT)
			H	H1	L	B		DN	DN1	
CFA20-40-130	22	4	130	105	130	100	3.1	G1"	G¾"	4528
CFA25-40-180	22	4	130	105	180	100	3.5	G1½"	G1"	4528
CFA32-40-180	22	4	130	105	180	100	3.8	G2"	G1¼"	4528
CFA25-50-180	32	5	130	105	180	100	3.5	G1½"	G1"	4528
CFA20-60-130	45	6	130	105	130	100	3.1	G1"	G¾"	4528
CFA25-60-180	45	6	130	105	180	100	3.5	G1½"	G1"	4528
CFA32-60-180	45	6	130	105	180	100	3.8	G2"	G1¼"	4528

### Circulator pumps:

CFA pump is energy-optimised and A-labelled.

- Level A is the best.
- The installation of a CFA pump will reduce the power consumption considerably, reduce noise from thermostatic valves and similar fittings, and improve the control of the system.

CFA pump offers a host of advantages:

- Energy savings automatic control of the differential pressure.
- Low-noise operation.
- Safety built-in electrical and thermal protection of the pump.
- New materials used.

### Operating Conditions:

- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

### Construction Material:

- Pump body: Cast Iron
- Impeller: Plastic
- Shaft: Ceramic
- Bearings: Ceramic
- Bearing plate: Stainless steel

### Technical Data:

- Rate of flow: up to 3.2 m3/h
- Pressure head: 4m-6m
- Control range: 5-45w
- Installation length: 130 and 180mm
- Thread connection: 1", 1½" and 2"
- Protection class: IP44
- Insulation class: F

### Product Features:

- Compact design
- Manual start-up feature
- Smooth running
- Very low energy consumption
- Air-vent screw
- Convenient operation
- Pre-mounted, screwable angle entry-plug
- Automatic adjustment to pressure conditions

### Application:

- Heating, air-conditioning and industry systems like
- Dual pipe system
  - Underfloor heating
  - Boiler / primary circuit
  - Storage charging circuit
  - Solar systems and heating pumps



CFA 25-60-180E



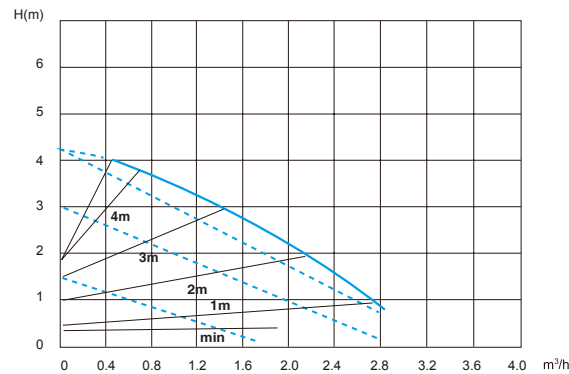
# CFA

## High Energy-efficient Circulator Pump (Economical Series)

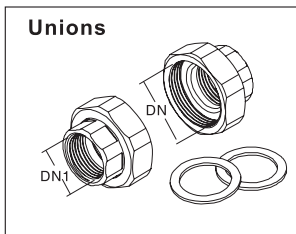
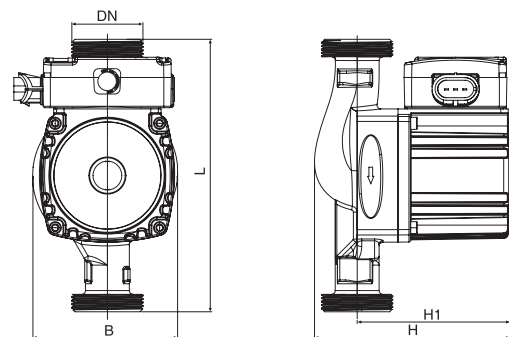
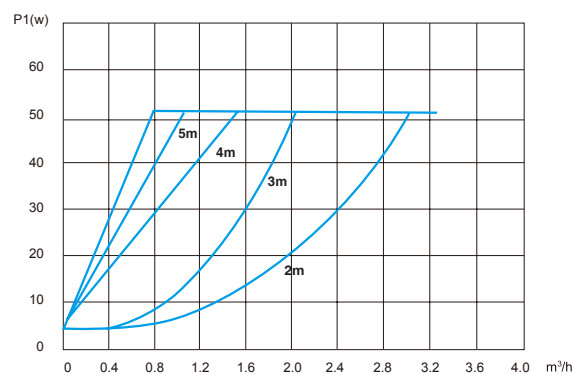
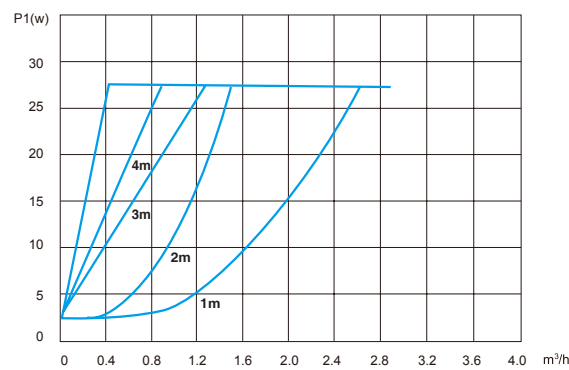
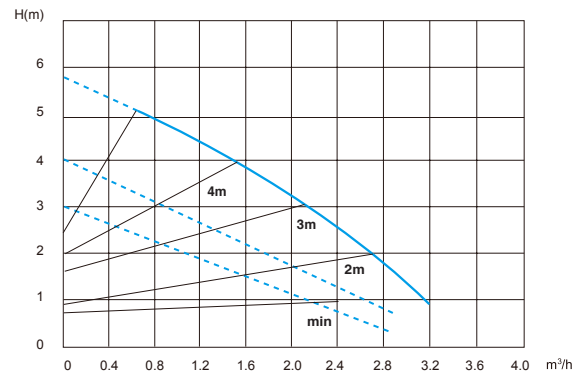
# CBD

## Circulator Booster Pump

CFA (20/25/32)-40-130/180E



CFA (20/25/32)-60-130/180E



MODEL	POWER P1(W)	HEAD (m)	SIZE(mm)				G.W (kg)	FITTINGS		QTY/20' GP (UNIT)
			H	H1	L	B		DN	DN1	
CFA 20-40-130E	22	4	130	105	130	100	3.1	G1"	G¾"	4528
CFA 25-40-180E	22	4	130	105	180	100	3.5	G1½"	G1"	4528
CFA 32-40-180E	22	4	130	105	180	100	3.8	G2"	G1¼"	4528
CFA 25-50-180E	32	5	130	105	180	100	3.5	G1½"	G1"	4528
CFA 20-60-130E	45	6	130	105	130	100	3.1	G1"	G¾"	4528
CFA 25-60-180E	45	6	130	105	180	100	3.5	G1½"	G1"	4528
CFA 32-60-180E	45	6	130	105	180	100	3.8	G2"	G1¼"	4528

### Construction:

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings
- With Cable 1.3M

### Construction Material:

- Pump body: Cast iron or Brass
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

### Application:

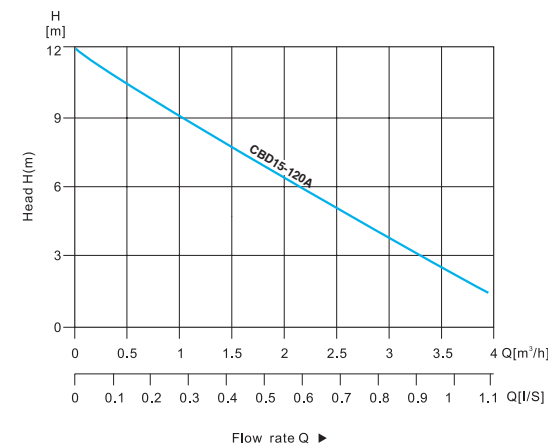
- This pump is a circulator pump designed for pressure boosting of domestic water in domestic properties. The pump provides additional pressure to showers, taps and similar outlet points for domestic water.
- This pump is used in open systems.
- Approval from the local water company must be obtained if the pump is to be connected directly to the main water.
- The pump incorporates a flow switch which starts or stops the pump when a tap is turned on or off.

### Operating Conditions:

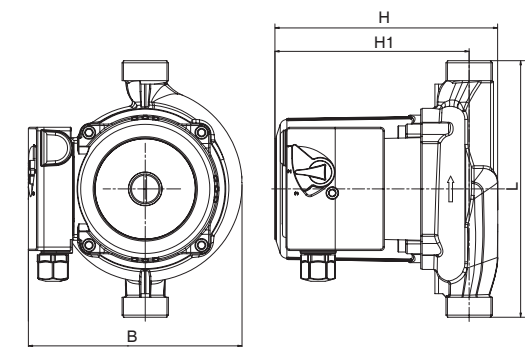
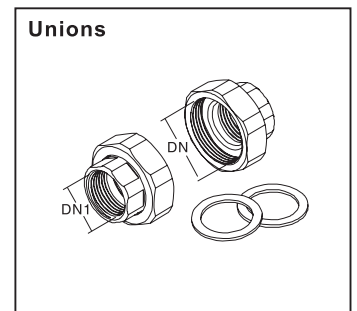
- Liquid temperature from 2°C to +95°C
- Ambient temperature up to 40°C
- Max. working pressure: 6bar
- The pump runs automatically when water flow is more than 3.5l/min at AUTO mode.

### Motor:

- 2-pole induction motor, single-phase 230V, 50Hz
- Insulation class F
- Protection IP 42



CBD15-120A



MODEL	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
			H	H1	L	B		DN	DN1	
CBD15-120A	275	1.1	197	165	190	164	6.3	G1"	G¾"	3780



### Construction:

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings
- With Cable 1.3m

### Construction Material:

- Pump body: Cast iron or Brass
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

### Application:

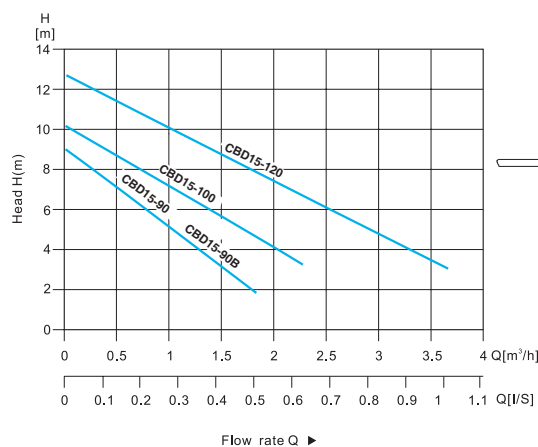
- This pump is a circulator pump designed for pressure boosting of domestic water in domestic properties. The pump provides additional pressure to showers, taps and similar outlet points for domestic water.
- This pump is used in open systems.
- Approval from the local water company must be obtained if the pump is to be connected directly to the main water.
- The pump incorporates a flow switch which starts or stops the pump when a tap is turned on or off.

### Operating Conditions:

- Liquid temperature from 2°C to +95°C
- Ambient temperature up to 40°C
- Max. working pressure: 6bar
- The pump runs automatically when water flow is more than 2.0 L/min at AUTO mode.

### Motor:

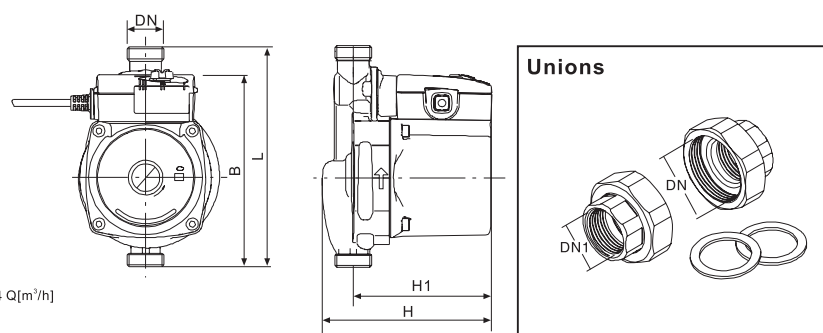
- 2-pole induction motor, single-phase 230V, 50Hz
- Insulation class F
- Protection IP 42



CBD15-120  
CBD15-100



CBD15-90  
( Brass pump body as an option-CBD15-90B)



MODEL	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
			H	H1	L	B		DN	DN1	
CBD15-90 CBD15-90B	105	0.45	125	100	160	104	2.4	G¾"	G½"	5368
CBD15-100	150	0.65	142	125	190	162	2.8	G¾"	G½"	3780
CBD15-120	275	1.2	155	136	200	180	4.5	G1"	G¾"	3780

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 100°C
- Max. ambient temperature: 40°C

### Motor:

- Electric pump speed: (n=2900r/min)
- Insulation: Class F
- Protection: IP44
- Continuous service: S1
- Thermal protector
- Single-phase: 220v/50Hz, 60Hz if request

### Material:

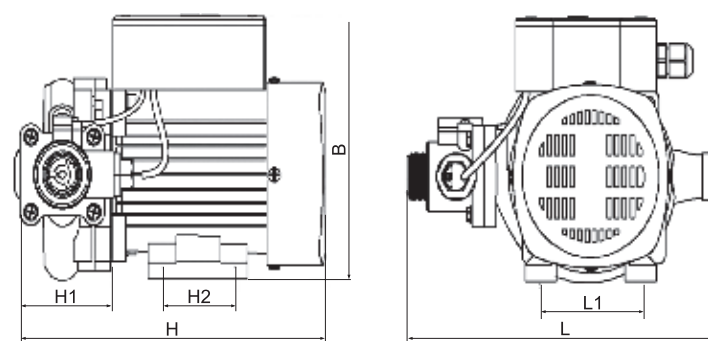
- Pump body: Cast iron(anti-rust coating treatment)
- Pump support: Cast iron(anti-rust coating treatment)
- Motor housing: Aluminum
- Impeller: Copper
- Motor shaft: Stainless steel
- Mechanical seal: Silicon carbide
- Bearing: 6201(200W-400W)

### Function:

- Linear pressure sensor is used to control the starting pressure of pump instead of traditional mechanical switch.
- At the same time, it has advanced flow control system.
- The functions of the pump include:
  1. Stepless voltage regulation
  2. Plug-in and play
  3. Intelligent overlapping
  4. Flow control
  5. Water shortage protection
  6. Water start-up
  7. Turn-stop protection
  8. Electrophoretic rust prevention

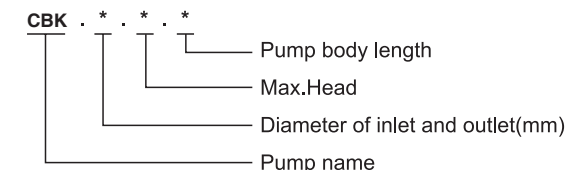
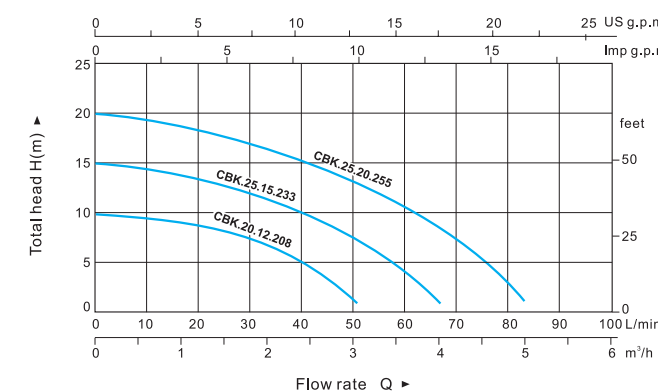
### Application:

Smart centrifugal booster pump an intelligent patented product specially designed for household water cycle and pressurization, because of its low noise and high flow rate, it is especially suitable for household multi-tap pressurization, downward pressurization of water tower and water heater, solar energy, air energy, geothermal water cycle and other pressurization matching use. This product adopts pressure and flow dual control intelligent system, and has the function of water shortage protection, sealing technology is used in electronic components to ensure longer service life in humid environment.



MODEL	POWER(P1)		SIZE(mm)						MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. SUCT (m)	INLET/OUTLET (mm)	PACKING DIMENSION/UNIT (mm)
	KW	HP	H	H1	H2	B	L1	L2					
CBK.20.12.208	0.2	0.27	206.5	64	47.5	146	208	68.5	3	10	8	20	230x172x243
CBK.25.15.233	0.4	0.55	237.5	89	58.5	155	233	68.5	4	15	8	25	262x182x273
CBK.25.20.255	0.6	0.8	254	90	83.5	172.5	255	88.5	5	20	8	25	262x182x273

PERFORMANCE CHART AT n=2900 r/min





**Construction:**

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings

**Construction Material:**

- Pump body: Cast iron
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

**Application:**

- For clean liquid without abrasives which are non-aggressive to the pump material.
- Civilian and industrial heating systems.
- Cooling and air-conditioning systems.

**Operating Conditions:**

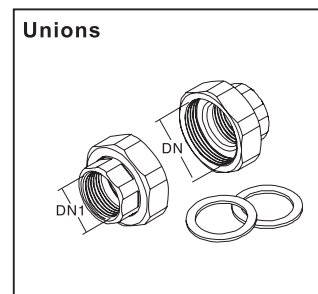
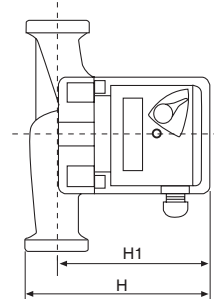
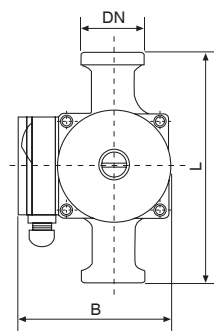
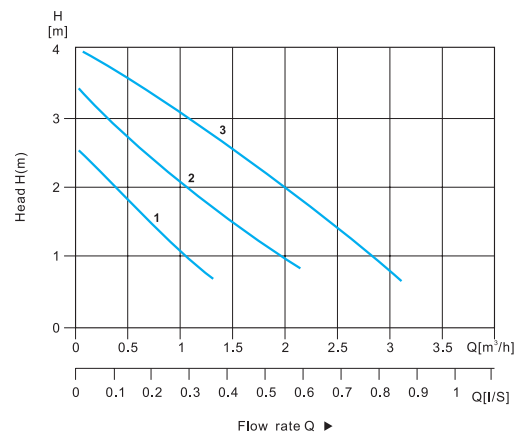
- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

**Motor:**

- 2-pole induction motor, single-phase 230V, 50Hz
- Three adjustable speeds
- Insulation class F
- Protection IP 44



CPD 25-40-180



MODEL	POSITION	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
				H	H1	L	B		DN	DN1	
CPD20-40-130	3	65	0.28	130	105	130	130	2.9	G1"	G¾"	6656
	2	50	0.22								
	1	32	0.15								
CPD25-40-130	3	65	0.28	130	105	130	130	3.0	G1½"	G1"	6656
	2	50	0.22								
	1	32	0.15								
CPD25-40-180	3	65	0.28	130	105	180	130	3.15	G1½"	G1"	5600
	2	50	0.22								
	1	32	0.15								
CPD32-40-180	3	65	0.28	130	105	180	130	3.57	G2"	G1¼"	5600
	2	50	0.22								
	1	32	0.15								

**Construction:**

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings

**Construction Material:**

- Pump body: Brass / Bronze
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

**Application:**

- For clean liquid without abrasives which are non-aggressive to the pump material.
- Civilian and industrial heating systems.
- Cooling and air-conditioning systems.

**Operating Conditions:**

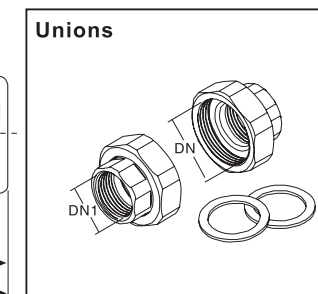
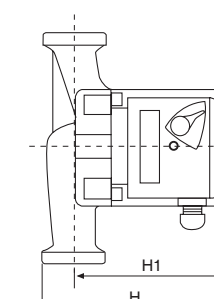
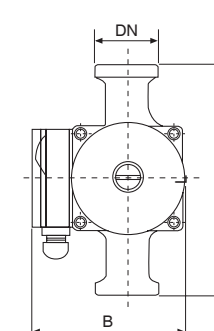
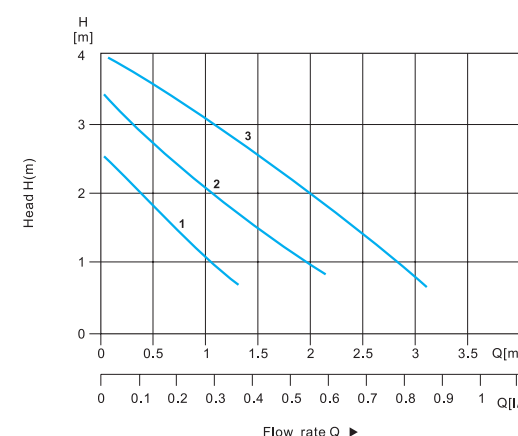
- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

**Motor:**

- 2-pole induction motor, single-phase 230V, 50Hz
- Three adjustable speeds
- Insulation class F
- Protection IP 44



CPD20-40-130B



MODEL	POSITION	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
				H	H1	L	B		DN	DN1	
CPD20-40-130B	3	72	0.31	130	105	130	130	2.9	G1"	G¾"	5120
	2	53	0.23								
	1	38	0.17								
CPD25-40-180B	3	72	0.31	130	105	180	130	3.0	G1½"	G1"	5120
	2	53	0.23								
	1	38	0.17								



**Construction:**

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings

**Construction Material:**

- Pump body: Cast iron/Brass / Bronze
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

**Application:**

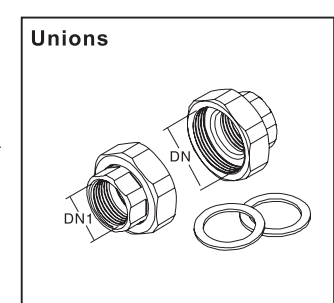
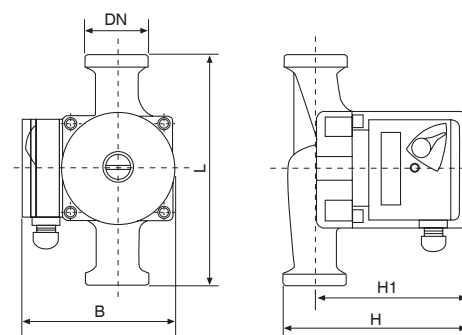
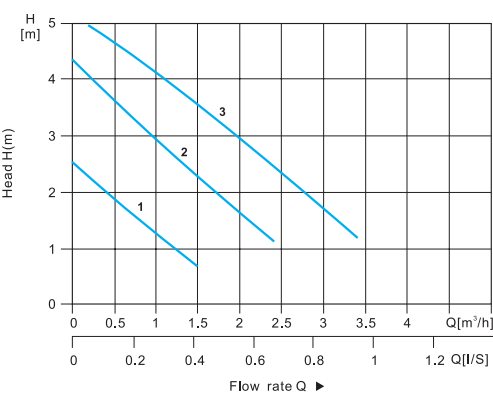
- For clean liquid without abrasives which are non-aggressive to the pump material.
- Civilian and industrial heating systems.
- Cooling and air-conditioning systems.

**Operating Conditions:**

- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

**Motor:**

- 2-pole induction motor, single-phase 230V, 50Hz
- Three adjustable speeds
- Insulation class F
- Protection IP 44



MODEL	POSITION	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
				H	H1	L	B		DN	DN1	
CPD20-50-130	3	85	0.37	130	105	130	130	2.9	G1"	G¾"	6656
	2	60	0.26								
	1	40	0.18								
CPD25-50-130	3	85	0.37	130	105	130	130	3.0	G1½"	G1"	6656
	2	60	0.26								
	1	40	0.18								
CPD25-50-180	3	85	0.37	130	105	180	130	3.25	G1½"	G1"	5600
	2	60	0.26								
	1	40	0.18								
CPD32-50-180	3	85	0.37	130	105	180	130	3.85	G2"	G1¼"	5600
	2	60	0.26								
	1	40	0.18								
CPD25-50-180B CPD25-50-180BN	3	85	0.37	130	105	180	130	3.85	G1½"	G1"	5600
	2	60	0.26								
	1	40	0.18								

**Construction:**

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings

**Construction Material:**

- Pump body: Cast iron/Brass / Bronze
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

**Application:**

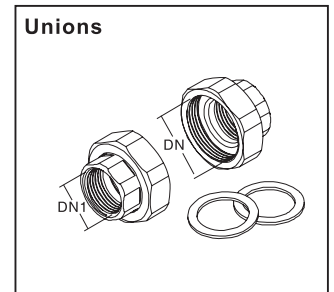
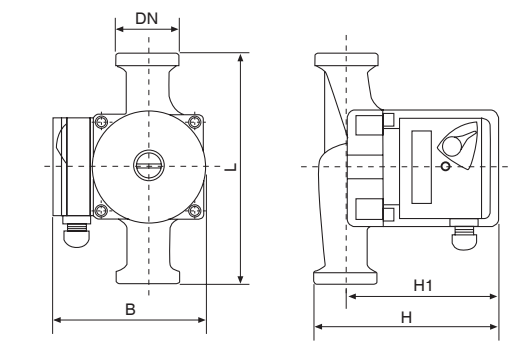
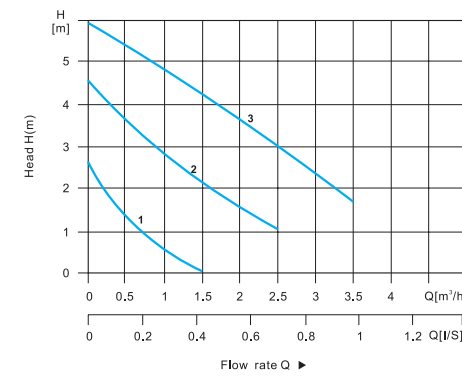
- For clean liquid without abrasives which are non-aggressive to the pump material.
- Civilian and industrial heating systems.
- Cooling and air-conditioning systems.

**Operating Conditions:**

- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

**Motor:**

- 2-pole induction motor, single-phase 230V, 50Hz
- Three adjustable speeds
- Insulation class F
- Protection IP 44



MODEL	POSITION	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
				H	H1	L	B		DN	DN1	
CPD20-60-130	3	100	0.45	130	105	130	130	2.9	G1"	G¾"	6656
	2	70	0.3								
	1	55	0.25								
CPD25-60-130	3	100	0.45	130	105	130	130	3.00	G1½"	G1"	6656
	2	70	0.3								
	1	55	0.25								
CPD25-60-180	3	100	0.45	130	105	180	130	3.3	G1½"	G1"	5600
	2	70	0.3								
	1	55	0.25								
CPD32-60-180	3	100	0.45	130	105	180	130	3.8	G2"	G1¼"	5600
	2	70	0.3								
	1	55	0.25								
CPD20-60-130B CPD20-60-130BN	3	100	0.45	130	105	130	130	2.9	G1"	G¾"	6656
	2	70	0.3								
	1	55	0.25								
CPD25-60-180B CPD25-60-180BN	3	100	0.45	130	105	180	130	3.34	G1½"	G1"	5600
	2	70	0.3								
	1	55	0.25								



**Construction:**

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings

**Construction Material:**

- Pump body: Cast iron/Brass / Bronze
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

**Application:**

- For clean liquid without abrasives which are non-aggressive to the pump material.
- Civilian and industrial heating systems.
- Cooling and air-conditioning systems.

**Operating Conditions:**

- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

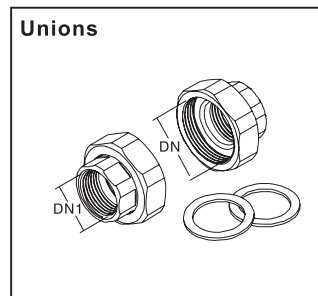
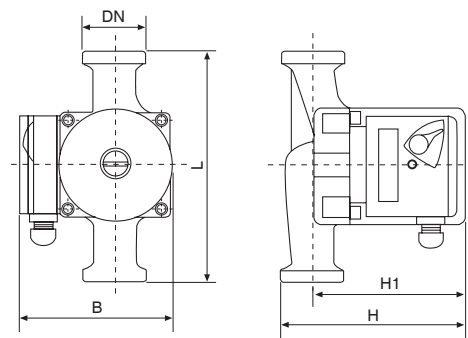
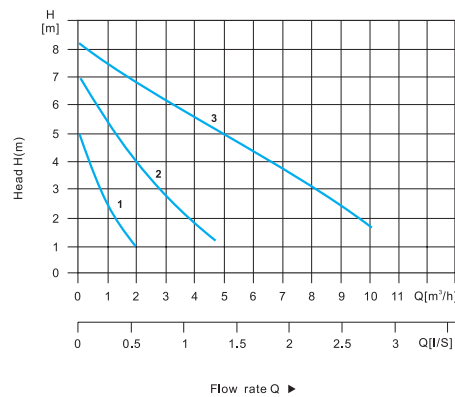
**Motor:**

- 2-pole induction motor, single-phase 230V, 50Hz
- Three adjustable speeds
- Insulation class F
- Protection IP 44



CPD25-80B

CPD32-80



MODEL	POSITION	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
				H	H1	L	B		DN	DN1	
CPD25-80B CPD25-80BN	3	182	0.79	160	130	180	150	5.45	G1½"	G1"	3304
	2	170	0.74								
	1	145	0.63								
CPD25-80	3	182	0.79	160	130	180	150	5.45	G1½"	G1"	3736
	2	170	0.74								
	1	145	0.63								
CPD32-80	3	182	0.79	160	130	180	150	6	G2"	G1½"	3736
	2	170	0.74								
	1	145	0.63								

**Construction:**

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings

**Construction Material:**

- Pump body: Cast iron/Brass / Bronze
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

**Application:**

- For clean liquid without abrasives which are non-aggressive to the pump material.
- Civilian and industrial heating systems.
- Cooling and air-conditioning systems.

**Operating Conditions:**

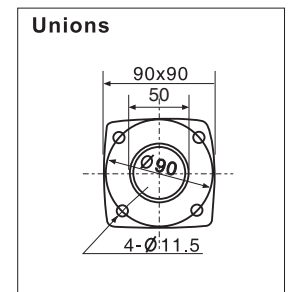
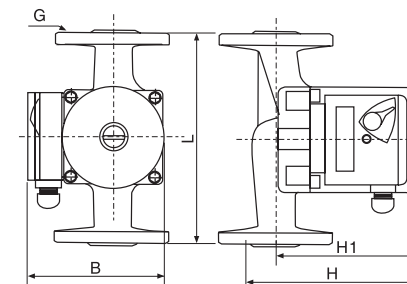
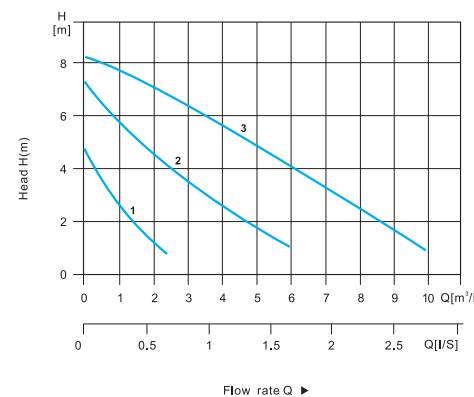
- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

**Motor:**

- 2-pole induction motor, single-phase 230V, 50Hz
- Three adjustable speeds
- Insulation class F
- Protection IP 44



CPD40-80F



MODEL	POSITION	POWER P1(W)	IN (A)	SIZE (mm)					G.W (kg)	QTY/20' GP (UNIT)
				H	H1	L	B	G		
CPD40-80F	3	270	1.18	165	133	200	150	DN50	8	3200
	2	220	0.96							
	1	150	0.65							



**Construction:**

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings

**Construction Material:**

- Pump body: Cast iron
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

**Application:**

- For clean liquid without abrasives which are non-aggressive to the pump material.
- Civilian and industrial heating systems.
- Cooling and air-conditioning systems.

**Operating Conditions:**

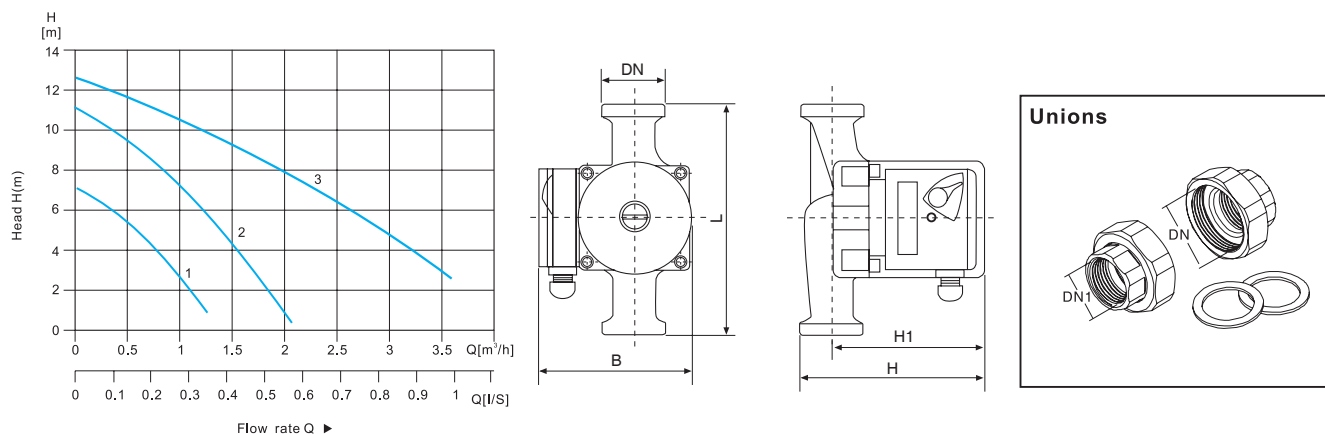
- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

**Motor:**

- 2-pole induction motor, single-phase 230V, 50Hz
- Three adjustable speeds
- Insulation class F
- Protection IP 44



CPD25-120



MODEL	POSITION	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
				H	H1	L	B		DN	DN1	
CPD20-120	3	245	1.11	152	136	180	150	4.2	G1"	G3/4"	3600
	2	220	1.00								
	1	145	0.66								
CPD25-120	3	245	1.11	160	139	180	150	4.5	G1½"	G1"	3600
	2	220	1.00								
	1	145	0.66								

**Construction:**

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings

**Construction Material:**

- Pump body: Cast iron
- Impeller: PP composite
- Shaft: Ceramic
- Bearings: Ceramic

**Application:**

- For clean liquid without abrasives which are non-aggressive to the pump material.
- Civilian and industrial heating systems.
- Cooling and air-conditioning systems.

**Operating Conditions:**

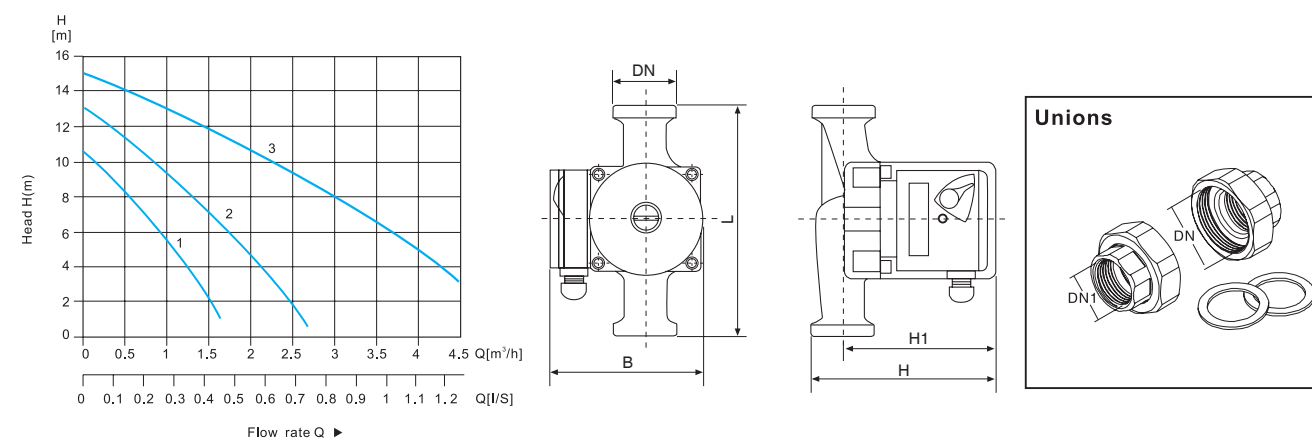
- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

**Motor:**

- 2-pole induction motor, single-phase 230V, 50Hz
- Three adjustable speeds
- Insulation class F
- Protection IP 44



CPD25-150



MODEL	POSITION	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
				H	H1	L	B		DN	DN1	
CPD25-150	3	270	1.17	160	145	180	149	4.9	G1½"	G1"	3400
	2	210	0.91								
	1	150	0.65								



### Construction:

- Pump casing with suction and delivery connections with the same diameter and on the same axis(in-line).
- With fittings

### Construction Material:

- Pump body: Cast iron
- Impeller: Stainless Steel
- Shaft: Stainless Steel
- Bearings: Ceramic

### Application:

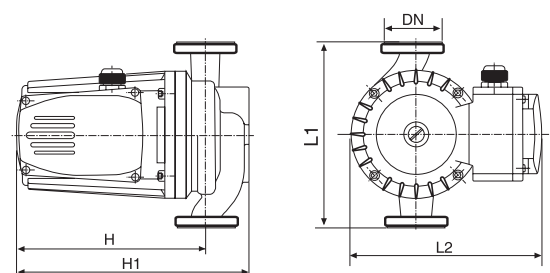
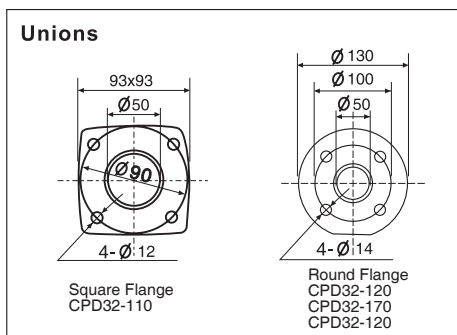
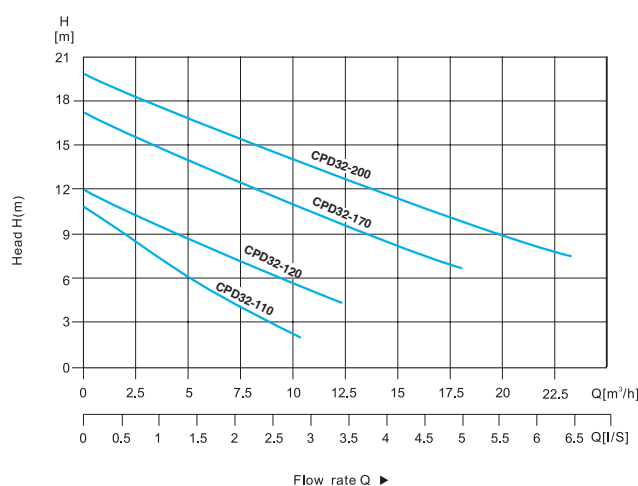
- For clean liquid without abrasives which are non-aggressive to the pump material.
- Civilian and industrial heating systems.
- Cooling and air-conditioning systems.

### Operating Conditions:

- Liquid temperature from 2°C to +110°C
- Ambient temperature up to 40°C
- Max. working pressure: 10bar

### Motor:

- 2-pole induction motor, single-phase 230V, 50Hz
- Insulation class F
- Protection IP 44



MODEL	POWER P1(W)	IN (A)	SIZE (mm)				G.W (kg)	UNIONS		QTY/20' GP (UNIT)
			H	H1	L1	L2		DN	DN1	
CPD32-110	400	1.8	161	253	224	163	8.5	G2"	G2"	1650
CPD32-120	550	2.4	190	253	225	160	14	G2"	G2"	1650
CPD32-170	750	3.3	251	314	225	219	23	G2"	G2"	1000
CPD32-200	1100	4.8	251	314	255	219	25	G2"	G2"	1000

### Comfort setting at the turn of a knob

Continuously variable from maximum saving of energy up to maximum comfort. We offer you the best possible predictive provision of hot water.

#### Protection against legionnaire's disease

- Automatic detection of thermal disinfection run of the boiler.
- The pump then performs the thermal disinfection run of the circuit.

#### Savings in costs and energy

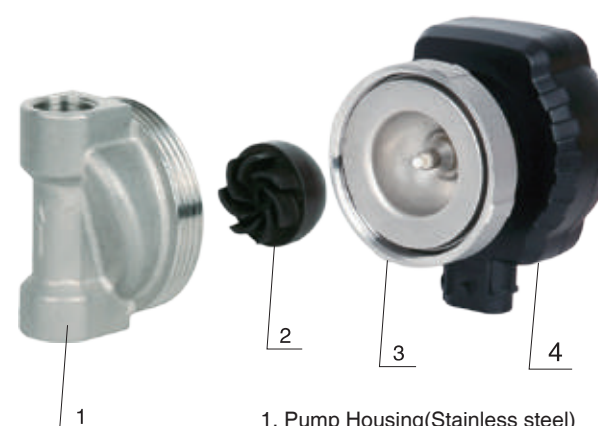
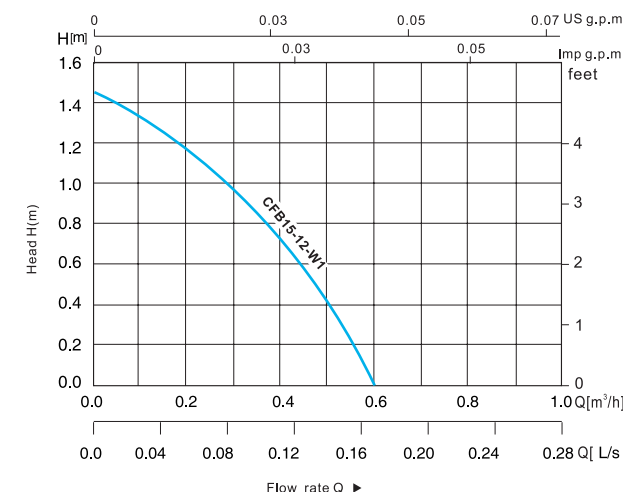
- Optimum pump run-times minimize the consumption of energy.
- This is not achievable with conventional pump controllers.

#### Simple installation

- The temperature sensor can be mounted in just a few moments.
- Fix it with cable clips-all done!

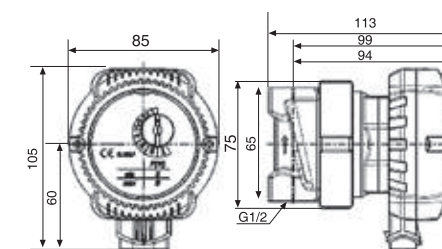
#### Self-learning ability of hot water tapping patterns

- The pump learns all by itself within a very short time.
- It provides hot water proactively.-from the very beginning(2nd day).



1. Pump Housing(Stainless steel)
2. Rotor
3. Connecting Base
4. Motor House & Cable Box

The magnetic field generated in the motor acts directly on the magnetically attracted rotor. The types of material used and the special shape of both rotor bearing and bearing pin guarantee noiseless operation of the spherical motor free of play. The spherical motor only requires one sealing ring between the motor and the pump housing. It is resistant to short circuiting and does not require an external motor protection. The rotor can be easily cleaned or replaced.



MODEL	POWER P1(W)		MAX. FLOW (m³/h)	MAX. HEAD (m)	G.W (kg)	ONLET/ OUTLET	PACKING DIMENSION (mm)
	Min	Max					
CFB15-12-W1	3	9	0.6	1.48	1.5	½"	280x270x265/8pcs

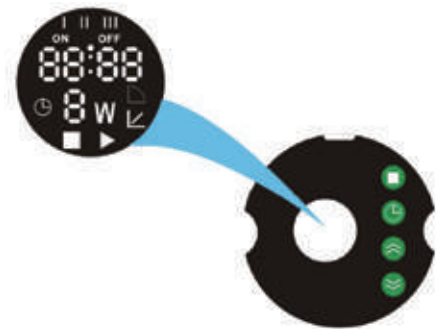
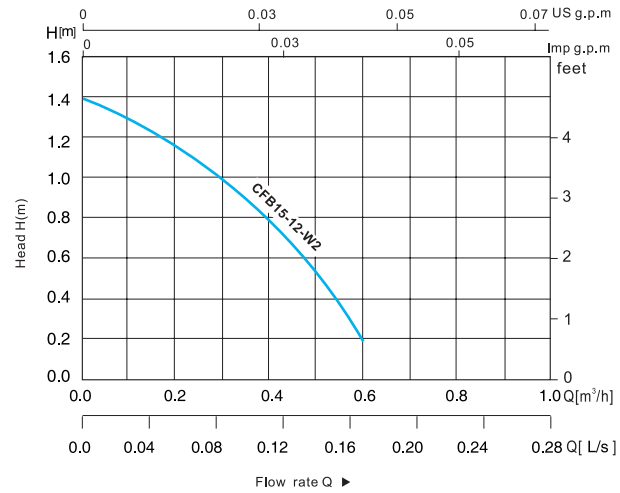


### Construction:

- Pump casting with suction and delivery connections with the same diameter and on the same axis(in-line)

### Function:

- Mode change button: hold it in short time  
functionsetting: hold it with 3s. Under this mode, hold this button in short time to function set:  
1. Temperature setting:Temperature on, Temperature off  
2. Time setting:the Time for I: time for on and off then time for II: time for on and off, at least is the time for III no operation for 10s, pump will keep the functions above and log out this function
- Time mode change button: hold in short time  
Time correction: hold it in 5s
- Additional button: hold in short time to plus 1 under setting function forbidden all functions for temperature: hold it for 5s.
- Subtraction button: hold in short time to minus 1 under the setting function forcen the pump to work until the setting temperature for one time: hold it for 5s



- ■ ■ Displayed during time setting, not displayed during normal operation, representing three time periods.
- ■ ■ Displayed during time and temperature setting, not displayed during normal operation, representing start and stop.
- ■ ■ ■ When setting, display the temperature and time by pressing the button; Display the working time and temperature when working.
- ■ ■ ■ Display when under time and temperature control working mode
- ■ ■ ■ ■ Display working power      ■ ■ ■ ■ Stop working
- ■ ■ ■ ■ Manual working mode      ■ ■ ■ ■ Pump working
- ■ ■ ■ ■ Auto working mode

MODEL	POWER P1(W)		MAX. FLOW (m³/h)	MAX. HEAD (m)	VOLTAGE FREQUENCY (V/Hz)	ONLET/ OUTLET	PACKING DIMENSION (mm)
	Min	Max					
CFB15-12-W2	3	9	0.6	1.4	220V/50	½"	280x270x265/8pcs

### Operating Conditions:

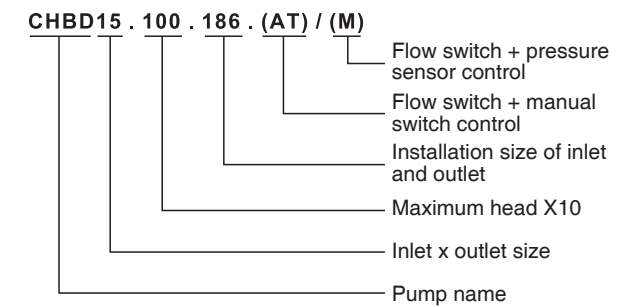
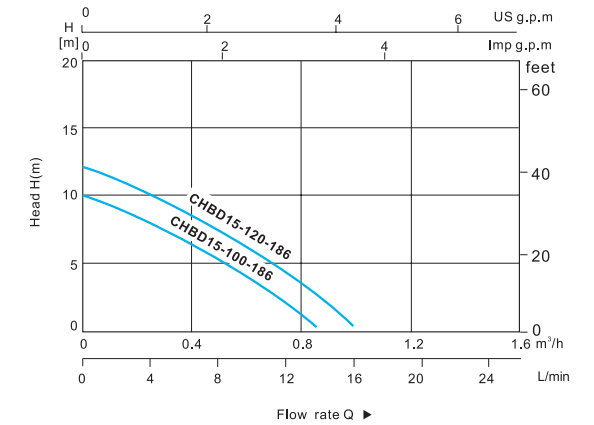
- The temperature of pumping liquid does not exceed 100°C and the ambient temperature does not exceed 40°C, and the maximum suction distance is 9m.

### Motor:

- Electric pump speed: (n=5000-10000r.p.m)
- Insulation: Class F
- Protection: IP55
- Continuous service: S1
- Output voltage: 24V

### Function:

- The booster pump uses linear pressure sensor instead of traditional mechanical switch to control the starting pressure of the pump, and has advanced flow control system.
- The functions of the pump include:
  1. Stepless voltage regulation
  2. Plug-in and use
  3. Flow control
  4. Water shortage protection
  5. Automatic opening of water supply
  6. Overcurrent protection
  7. Stop-up protection



### Component & Construction:

- Power supply:100-230V power adapter converts 24V output
- Pump body: Engineering plastic
- Pump housing: ABS plastics
- Pump support: Shielding sleeve
- Impeller and rotor: PPO plastics and ferrites
- Rotor shaft: 99 Ceramics

### Application:

- Smart shielded booster pump is designed with permanent magnet motor. It has the advantages of quiet, safe, energy-saving, small size and no leakage. It is very suitable for supporting use of household water heater, solar energy, air energy, water purifier booster and pipeline circulation.



MODEL	POWER P1(W)	VOLTAGE (V)	MAX.FLOW (L/min)	MAX. HEAD (m)	INLET/ OUTLET	PACKING DIMENSION/UNIT (mm)
CHBD15-100-186	55	DC-24	14	10	½"	145x142x122
CHBD15-120-186	65	DC-24	16	12		
CHBD15-100-186(AT)	55	DC-24	14	10		
CHBD15-120-186(AT)	65	DC-24	16	12		
CHBD15-100-186(M)	55	DC-24	14	10		
CHBD15-120-186(M)	65	DC-24	16	12		





### Application:

Smart shielded booster pump is designed with permanent magnet motor. It has the advantages of quiet, safe energy saving, small size and no leakage. It is very suitable for supporting use of household water heater, solar energy, air energy, water purifier booster and pipeline circulation.

### Function:

- The booster pump uses linear pressure sensor instead of traditional mechanical switch to control the starting pressure of the pump, and has advanced flow control system.
- The functions of the pump include:
  1. Stepless pressure regulation;
  2. Plug-in and use;
  3. Flow and pressure sensor control;
  4. Water shortage protection;
  5. Automatic opening of water supply;
  6. Overcurrent protection;
  7. Stop-up protection.

### Component & Construction:

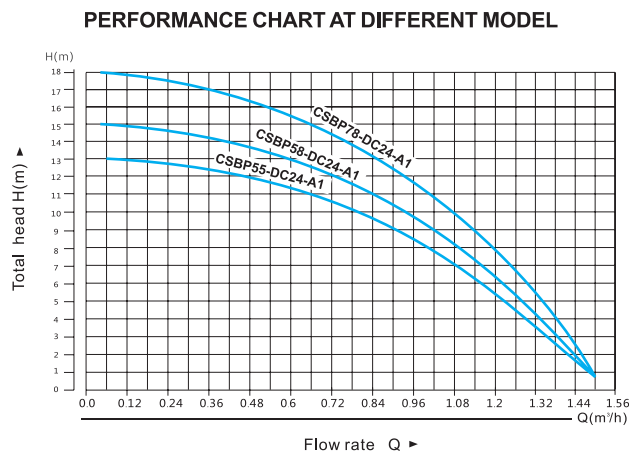
- Power Supply: AC 90-260V power adapter converts DC24V output
- Pump body: Engineering plastic
- Pump housing: ABS plastics
- Pump support: Shielding sleeve
- Impeller and rotor: PPO plastics and ferrites
- Rotor shaft: 99 Ceramics

### Motor:

- Electric pump speed: (n=5000~10000rpm)
- Insulation: Class H
- Protection: IP55
- Continuous service: S1
- Input voltage: DC 24V

### Operating conditions:

- The temperature of pumping liquid does not exceed 100 °C
- The ambient temperature does not exceed 40 °C
- The maximum suction head is 8m



MODEL	POWER (P1)		INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	MAX. SUCT (m)	PACKING DIMENSION/UNIT (mm)
	W	HP						
CSBP55-DC24-A1	55	0.07	1/2"	90~260V 50/60Hz	13	1.4	8	178×160×95
CSBP58-DC24-A1	58	0.08	3/4"		15	1.4	8	
CSBP78-DC24-A1	78	0.1	3/4"		18	1.4	8	

### Operating Conditions:

- Cool liquid temperature from 2°C to 40°C
- Hot liquid temperature from 2°C to 110°C
- Ambient temperature up to 40°C
- Max. permissible working pressure: 10bar

### Motor:

- Degree of protection: IP54
- Insulation class: B
- Voltage: 110-127V, 60Hz, Revolution: 3300
- Voltage: 220-240V, 50Hz, Revolution: 2900

### Construction Material:

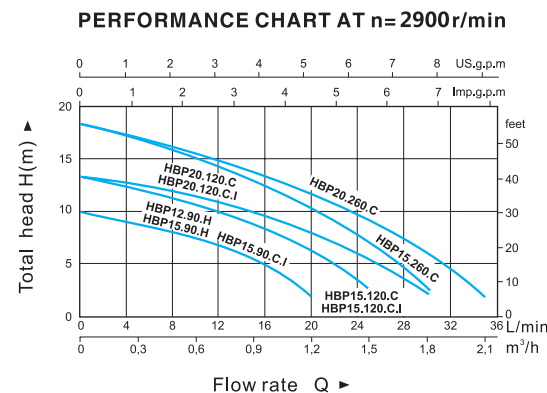
- Pump body: Brass/stainless steel
- Impeller: Brass
- Shaft: stainless steel
- Motor sleeve: Cast aluminum/Stainless steel

### Features:

- Healthy and clean
- Small volume, convenient installation
- Silent operation, long lifespan

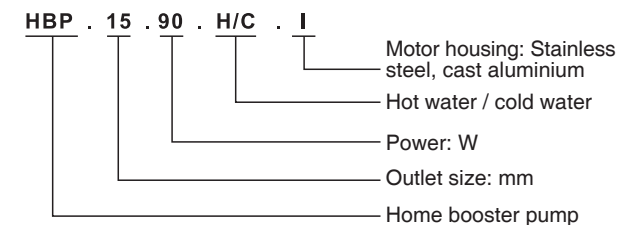
### Application:

- Increase the pressure not enough hydraulic pressure of water heater, increase the pressure
- Cooling circulation industry equipment
- Civilian heating systems



MODEL		POWER P1(W)	H	L	L1	B	B1	FITTINGS		MAX. FLOW (L/min)	MAX. HEAD (m)
HOT WATER	COOL WATER							DN	DN1		
HBP12.90.H	/	90	177	89	80	85	72	/	/	20	10
HBP15.90.H	HBP15.90.C	90	177	95	80	85	72	20	15	20	10
/	HBP15.90.C.I	90	180	95	80	83	70	20	15	20	10
HBP15.120.H	HBP15.120.C	120	195	110	80	105	85	20	15	25	13
/	HBP15.120.C.I	120	195	110	80	96	80	20	15	25	13
HBP20.120.H	HBP20.120.C	120	195	124	80	105	85	25	20	30	13
/	HBP20.120.C.I	120	195	124	80	96	80	25	20	30	13
HBP15.260.H	HBP15.260.C	260	200	110	94	124	98	20	15	30	18
HBP20.260.H	HBP20.260.C	260	200	124	94	124	98	25	20	35	18

### Model code:



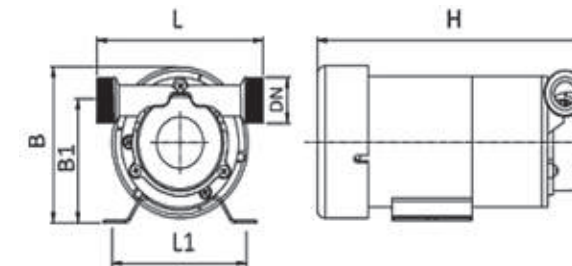
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HBP15.120.C  
HBP20.120.C  
HBP15.260.C  
HBP20.260.C

HBP15.90.C.I  
HBP15.120.C.I  
HBP20.120.C.I



HBP12.90.H  
HBP15.90.H  
HBP15.120.H  
HBP20.120.H

HBP15.260.H  
HBP20.260.H





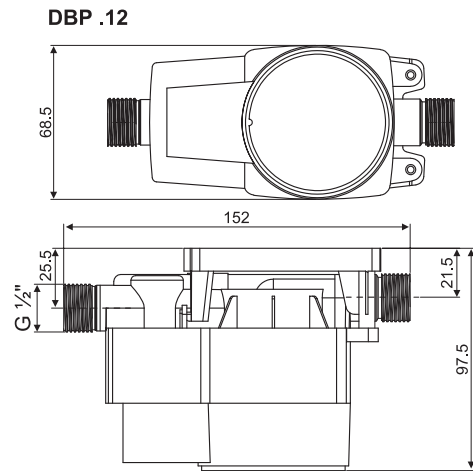
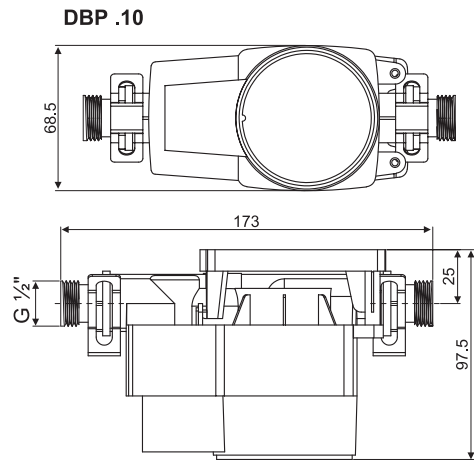
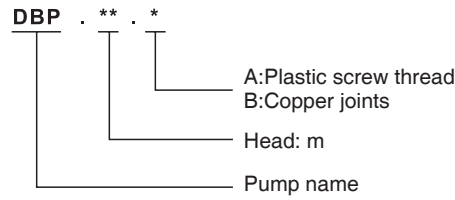
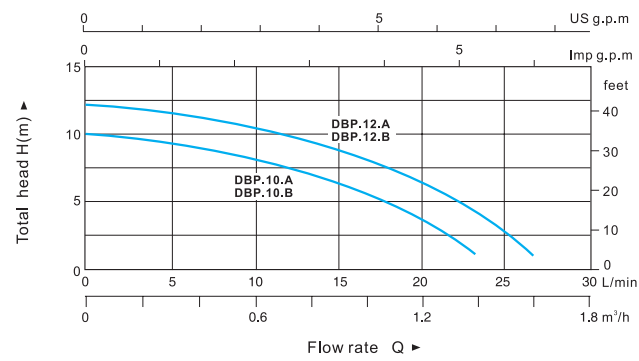
**Features:**

- Automatic start-stop, permanent magnet motor, energy saving, intelligent control, 24VDC power, simple use, compact design, easy installation.
- This product can also be used as a pipeline pump, and its market application is more extensive.

**Application:**

- Pressurize for household tap water, shower, washing machine, gas water heater, electric water heater, solarwater heater, air-source heat pump water heater etc. and other piping systems.

PERFORMANCE CHART AT n= 5000 r/min



MODEL	POWER P1(W)	VOLTAGE (V)	CURRENT (A)	LIQUID TEMP (°C)	MAX. FLOW (m³/h)	MAX. HEAD (m)	OUTLET
DBP.10.A	48	DC24	2.1	-5°C-90°C	1.4	10	1/2'
DBP.10.B	48	DC24	2.1	-5°C-90°C	1.4	10	1/2'
DBP.12.A	68	DC24	2.9	-5°C-90°C	1.6	12	1/2'
DBP.12.B	68	DC24	2.9	-5°C-90°C	1.6	12	1/2'

**Multistage Centrifugal Pump**



# HMS/CHLF/CHLFS

## Horizontal Multistage Stainless Steel Centrifugal Pump

### Operating Limits:

- Liquid temperature:
  - Normal temperature type +15°C~+70°C
  - Hot water type +70°C ~105°C
- Max. ambient temperature: +40°C
- Max. operation pressure: 10 bar
- Max. inlet pressure is limited by max. operation pressure.
- Continuous duty

### Motor:

- T.E.F.C. continuous
- Voltage: **50Hz:** 1x220~240V  
3x220~240V/380~415V
- 60Hz:** 1x220~240V  
3x220~240V/380~415V
- Insulation class: F
- Protection: IP55
- Single-phase motor with built-in thermal protector

### Applications:

The HMS, CHLF and CHLFS series are primarily designed for the industrial purpose:

- Water treatment processes
- Industrial cleaner and dishwasher
- Water boosting on process
- Heating and cooling for industrial process
- Air-conditioning system
- Air heating, heating device (soft water)
- Water supply and boosting (drinking water, light chlorine water)
- Fertilization/metering system
- Other specific applications

### Applicable Medium:

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums.
- When density or viscosity of the liquid is higher than that of water.
- Whether the pump is suitable to convey the liquid depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.



HMS



CHLF



Pump with presscontrol



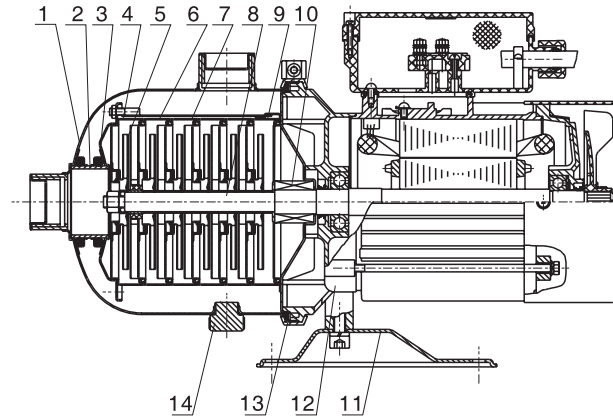
CHLFS

# HMS/CHLF/CHLFS

## Horizontal Multistage Stainless Steel Centrifugal Pump

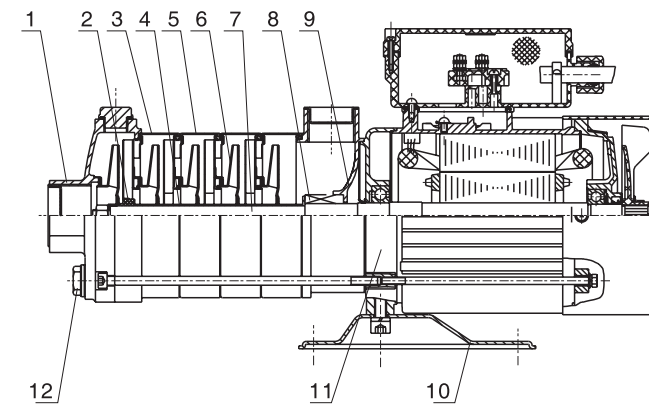
### Structure Diagram:

#### MATERIAL HMS



NO.	NAME	MATERIAL
1	Pump casing	Stainless steel
2	Connection pipe	Stainless steel
3	Clamp plate	Stainless steel
4	Impeller	Stainless steel
5	Primary guide vane	Stainless steel
6	Support guide vane	Stainless steel
7	Middle section	Stainless steel
8	Shaft	Stainless steel
9	Outlet section	Stainless steel
10	Mechanical seal	
11	Base frame	Steel
12	Front cover	Aluminum alloy
13	Quick clamp holder	Stainless steel
14	Plug	Stainless steel

#### MATERIAL CHLF, CHLFS



NO.	NAME	MATERIAL
2	Bearing sleeve	Hard alloy
3	Support guide vane	Stainless steel
4	Separating sleeve	Stainless steel
5	Middle section	Stainless steel
6	Impeller	Stainless steel
7	Shaft	Stainless steel
8	Mechanical seal	Ceramic/Graphite (or FPM/EPDM/SiC/WC)
10	Base frame	Steel
11	Front cover	Aluminum alloy
12	Plug	Stainless steel
<b>CHLF</b>		
1	Inlet section	Cast iron
9	Outlet section	Cast iron
<b>CHLFS</b>		
1	Inlet section	Stainless steel
9	Outlet section	Stainless steel



# HMS/CHLF/CHLFS

## Horizontal Multistage Stainless Steel Centrifugal Pump

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)
HMS2-20(T)	0.37	2	14
HMS2-30(T)	0.37	2	21
HMS2-40(T)	0.55	2	28
HMS2-50(T)	0.55	2	35
HMS2-60(T)	0.75	2	42
HMS4-20(T)	0.55	4	15
HMS4-30(T)	0.75	4	22
HMS4-40(T)	0.75	4	30
HMS4-50(T)	1.0	4	38
HMS4-60(T)	1.1	4	45
HMS8-10(T)	0.55	8	12
HMS8-15(T)	0.75	8	20
HMS8-20(T)	1.0	8	24
HMS8-25(T)	1.5	8	27
HMS8-30(T)	1.85	8	30
HMS8-35(T)	2.2	8	43
HMS8-40(T)	2.2	8	48
HMS8-10B(T)	0.55	8	9
HMS8-20B(T)	0.75	8	19
HMS8-30B(T)	1.1	8	26
HMS8-40B(T)	1.5	8	37
HMS8-50B(T)	2.2	8	46.5
HMS12-10(T)	1.0	12	13.5
HMS12-15(T)	1.5	12	20
HMS12-20(T)	1.85	12	28
HMS12-25(T)	2.2	12	30.5
HMS12-30(T)	3.0	12	35
HMS12-10B(T)	0.75	12	9.5
HMS12-20B(T)	1.1	12	19.5
HMS12-30B(T)	1.85	12	29.5
HMS12-40B(T)	2.2	12	39.5
HMS12-50B(T)	3.0	12	50
HMS16-10(T)	1.0	16	10
HMS16-20(T)	1.5	16	20
HMS16-30(T)	2.2	16	30
HMS20-10(T)	1.0	20	10.5
HMS20-20(T)	1.85	20	20
HMS20-30(T)	3.0	20	31.5

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)
CHLF(S)2-20(T)	0.37	2	14
CHLF(S)2-30(T)	0.37	2	21
CHLF(S)2-40(T)	0.55	2	28
CHLF(S)2-50(T)	0.55	2	35
CHLF(S)2-60(T)	0.75	2	42
CHLF(S)4-20(T)	0.55	4	15
CHLF(S)4-30(T)	0.75	4	22
CHLF(S)4-40(T)	0.75	4	30
CHLF(S)4-50(T)	1.0	4	38
CHLF(S)4-60(T)	1.1	4	45
CHLF(S)8-10(T)	0.55	8	12
CHLF(S)8-15(T)	0.75	8	20
CHLF(S)8-20(T)	1.0	8	24
CHLF(S)8-25(T)	1.5	8	27
CHLF(S)8-30(T)	1.85	8	30
CHLF(S)8-35(T)	2.2	8	43
CHLF(S)8-40(T)	2.2	8	48
CHLF(S)8-10B(T)	0.55	8	9
CHLF(S)8-20B(T)	0.75	8	19
CHLF(S)8-30B(T)	1.1	8	26
CHLF(S)8-40B(T)	1.5	8	37
CHLF(S)8-50B(T)	2.2	8	46.5
CHLF(S)8-60BT	3.0	8	52
CHLF(S)12-10(T)	1.0	12	13.5
CHLF(S)12-15(T)	1.5	12	20
CHLF(S)12-20(T)	1.85	12	28
CHLF(S)12-25(T)	2.2	12	30.5
CHLF(S)12-30T	3.0	12	35
CHLF(S)12-10B(T)	0.75	12	9.5
CHLF(S)12-20B(T)	1.1	12	19.5
CHLF(S)12-30B(T)	1.85	12	29.5
CHLF(S)12-40B(T)	2.2	12	39.5
CHLF(S)12-50BT	3.0	12	50
CHLF(S)16-10(T)	1.0	16	10
CHLF(S)16-20(T)	1.5	16	20
CHLF(S)16-30(T)	2.2	16	30
CHLF(S)16-40T	3.0	16	40
CHLF(S)20-10(T)	1.0	20	10.5
CHLF(S)20-20(T)	1.85	20	20
CHLF(S)20-30(T)	3.0	20	31.5
CHLF(S)20-40T	4	20	40

# CML

## Horizontal Multistage Stainless Steel Centrifugal Pump

### Operating Limits:

- Liquid temperature:
  - Normal temperature range +15°C~+70°C
  - Hot water range + 70°C ~105°C
- Max. ambient temperature: +40°C
- Max. operation pressure: 10 bar
- Max. inlet pressure is limited by max. operation pressure.
- Continuous duty

### Material:

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers. Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums. When density or viscosity of the liquid is higher than that of water.
- Whether the pump is suitable to convey the liquid depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.

### Application:

These series are primarily designed for the industrial purpose:

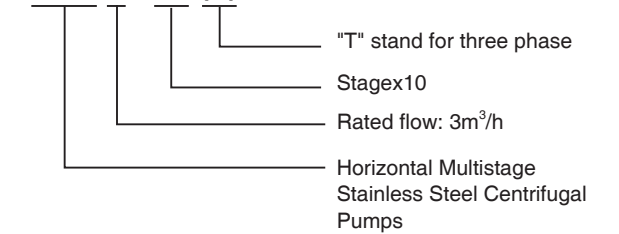
- Water treatment processes
- Industrial cleaner and dishwasher
- Water boosting on process
- Heating and cooling for industrial process
- Air-conditioning system
- Air heating, heating device (soft water)
- Water supply and boosting (drinking water, light chlorine water)
- Fertilization/metering system
- Other specific applications

### Motor:

- T.E.F.C. continuous
  - Voltage: **50Hz:** 1x220~240V
  - 3x220~240V/380~415V
- Insulation class: F
- Protection: IP55
- Single-phase motor with built-in thermal protector

### Connotation Of The Type

#### CML 3 - 30 (T)



### Structure Diagram:

#### MATERIAL CML

NO.	NAME	MATERIAL
1	Motor	
2	Baseframe	SS304/SS316
3	Slinger	SS304/SS316
4	Mechanical seal	Ceramic/Graphite
5	O-ring	NBR
6	Pump cover	SS304/SS316
7	Outlet section	SS304/SS316
8	Plug	SS304/SS316
9	Middle section	Stainless Steel
10	Impeller	Stainless Steel
11	Pump casing	SS304/SS316
12	Inlet section	SS304/SS316
13	Clamp plate	Cast iron / Aluminum die cast
14	Shaft sleeve	SS304/SS316





**Operating Conditions:**

- Liquid temperature: Normal temperature range 0°C~+50°C  
Hot water range + 50°C ~90°C
- Environment temperature: ≤50°C

**Product Features:**

- Frequency conversion water supply system has realized high energy efficiency, low power consumption, and super mute.
- Pump impeller adopts the most advanced stainless steel welding technology, achieving the high-performance and efficiency.
- All flow-passing parts use 304 stainless steel, make sure the water health and safety.
- Simple operation, easily regulate and maintenance.
- All-directions protection technology, comprehensive improved the security and reliability of the system.
- Equipped with american industry and medical use pressure sensor, PB series of diaphragm pressure tank and WT series stainless steel 5 way with check valve, make the system more security and reliable running, no worries.
- Full compliance with the European Union and the United States, and other countries high manufacturing standards and requirements for product safety and environmental protection.
- Ingenuity adopt aluminum metal electrophoresis shell match with pump, perfect fusion industrial and art.

**Application:**

- Applying to the various types of water factory, booster, hotel residential areas and etc.



**Operating Limits:**

- Liquid temperature: Normal temperature type +15°C~+70°C  
Hot water type +70°C ~105°C
- Max. ambient temperature: +40°C
- Max. operation pressure: 10 bar
- Max. inlet pressure is limited by max. operation pressure.
- Continuous duty

**Material:**

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers. Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums. When density or viscosity of the liquid is higher than that of water.
- Whether the pump is suitable to convey the liquid depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.

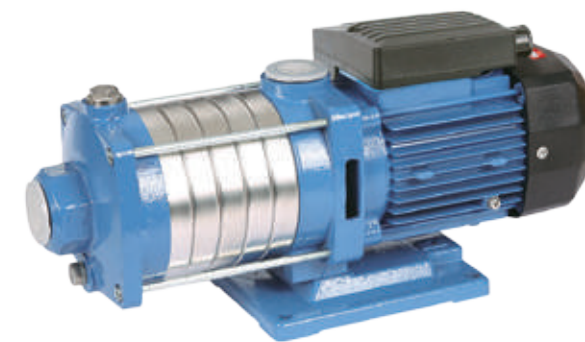
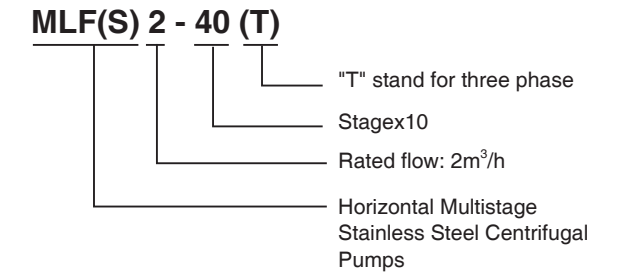
**Motor:**

- T.E.F.C. continuous
- Voltage: **50Hz:** 1x220~240V  
3x220~240V/380~415V  
**60Hz:** 1x220~240V  
3x220~240V/380~415V
- Insulation class: F
- Protection: IP55
- Single-phase motor with built-in thermal protector

**Application:**

- This series is primarily designed for the industrial purpose:**
- Water treatment processes
  - Industrial cleaner and dishwasher
  - Water boosting on process
  - Heating and cooling for industrial process
  - Air-conditioning system
  - Air heating, heating device (soft water)
  - Water supply and boosting (drinking water, light chlorine water)
  - Fertilization/metering system
  - Other specific applications

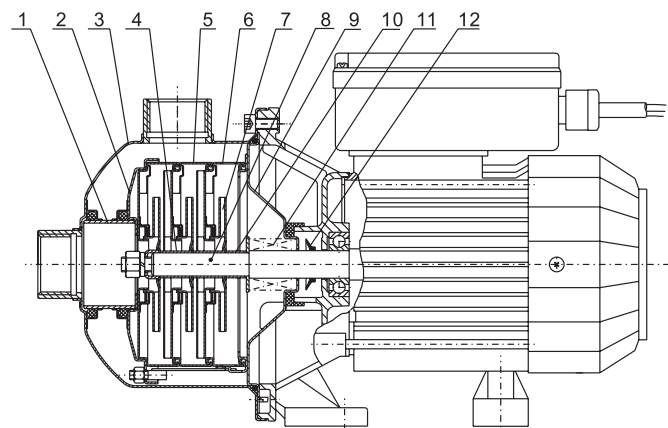
**Connotation Of The Type**



MODEL	POWER P2(KW)	RATE FLOW (m³/h)	RATE HEAD (m)	INLET/OUTLET	MAX. ROTATION RATE(rpm)	Factory Pressure Setting (kgf/cm²)	Pressure Adjustable Range (kgf/cm²)	Specification of Pressure tank	Pressure Filled in Tank (kgf/cm²)
CF1-250	0.25	1	25	G1"/G1"	≈2900	1.5	1.0-2.0	2L	1.0
CF1-370	0.37		33	G1"/G1"		2.0	1.0-2.8		1.5
CF1-550	0.55		38	G1"/G1"		2.5	1.0-3.5		2.0
CF1-750	0.75	46	G1"/G1"	3.0		1.0-4.0	2.5		
CF2-250	0.25	2	24	G1"/G1"		1.5	1.0-2.2		1.0
CF2-370	0.37		32	G1"/G1"		2.0	1.0-2.8		1.5
CF2-550	0.55		40	G1"/G1"		2.5	1.0-3.5		2.0
CF2-750	0.75	47	G1"/G1"	3.0		1.0-4.0	2.5		
CF3-250	0.25	3	15	G1"/G1"		1.0	1.0-1.5		0.8
CF3-370	0.37		21	G1"/G1"		1.5	1.0-2.0		1.0
CF3-550	0.55		34	G1"/G1"		2.0	1.0-2.8		1.5
CF3-750	0.75	38	G1"/G1"	2.5		1.0-3.5	2.0		
CF4-370	0.37	4	15	G1¼"/G1"	1.0	1.0-1.5	0.8		
CF4-550	0.55		25	G1¼"/G1"	1.5	1.0-2.2	1.0		
CF4-750	0.75		30	G1¼"/G1"	2.0	1.0-2.8	1.5		
CF4-1000	1.0	40	G1¼"/G1"	2.5	1.0-3.5	2.0			
CF4-1300	1.3	49	G1¼"/G1"	3.0	1.0-4.0	2.5			
CF5-370	0.37	5	13	G1¼"/G1"	1.0	1.0-1.5	0.8		
CF5-550	0.55		22	G1¼"/G1"	1.5	1.0-2.2	1.0		
CF5-750	0.75		27	G1¼"/G1"	2.0	1.0-2.8	1.5		
CF5-1000	1.0	35	G1¼"/G1"	2.5	1.0-3.5	2.0			
CF5-1300	1.3	44	G1¼"/G1"	3.0	1.0-4.0	2.5			

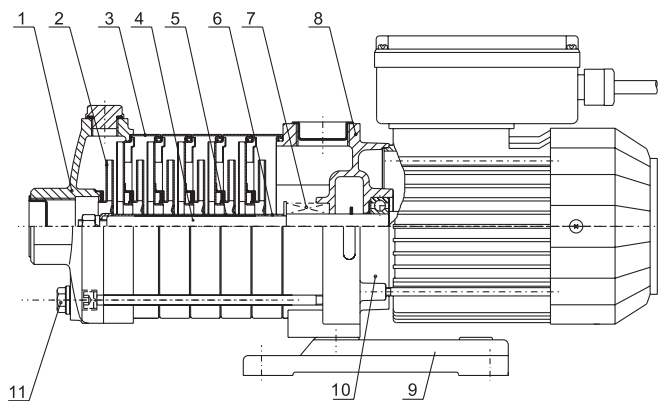
### Structure Diagram:

#### MATERIAL MHS



NO.	NAME	MATERIAL
1	Connection pipe	Stainless steel AISI304 or AISI316
2	Clamp plate	Stainless steel AISI304 or AISI316
3	Pump casing	Stainless steel AISI304 or AISI316
4	Long shaft sleeve	Stainless steel AISI304 or AISI316
5	Middle section	Stainless steel
6	Outlet section	Stainless steel
7	Impeller	Stainless steel
8	Shaft	Stainless steel AISI304 or AISI316
9	Pump cover	Stainless steel AISI304 or AISI316
10	Short shaft sleeve	Stainless steel AISI304 or AISI316
11	Mechanical seal	Ceramic/Graphite/NBR
12	Slinger	NBR

#### MATERIAL MLF, MLFS



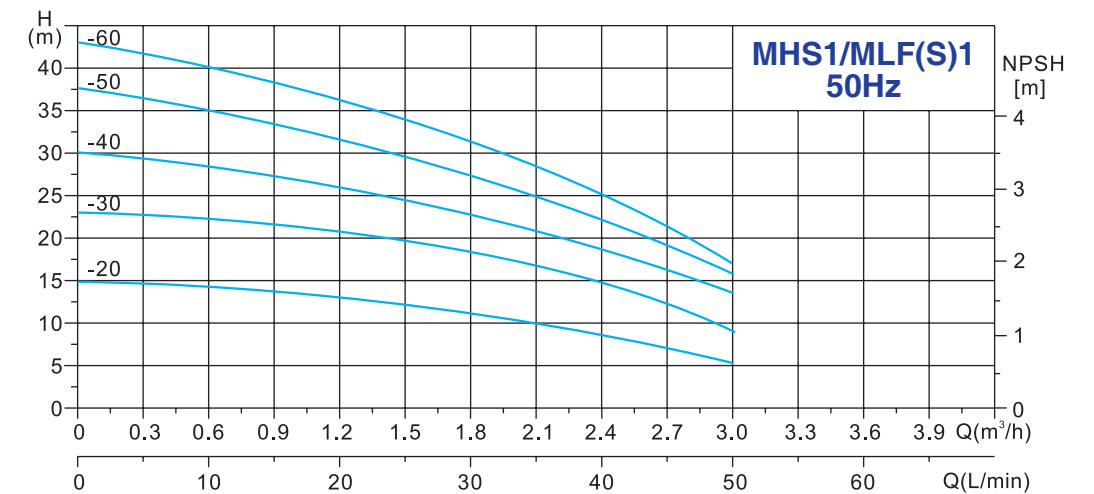
NO.	NAME	MATERIAL
2	Impeller	Stainless steel AISI304 or AISI316
3	Middle section	Stainless steel AISI304 or AISI316
4	Shaft	Stainless steel AISI304L or AISI316
5	Long shaft sleeve	Stainless steel AISI304 or AISI316
6	Short shaft sleeve	Stainless steel AISI304 or AISI316
7	Mechanical seal	Ceramic/Graphite/NBR
9	Base frame	Cast iron
10	Front cover	Aluminum alloy
11	Plug	Stainless steel AISI304 or AISI316
<b>MLF</b>		
1	Inlet section	Cast iron
8	Outlet section	Cast iron
<b>MLFS</b>		
1	Inlet section	Stainless steel AISI304 or AISI316
8	Outlet section	Stainless steel AISI304 or AISI316

### Performance Curve Resource:

Performance curve is based on the following:

- Performance based on actual speed of standard motor.
- Carrying on test by 20°C water without air.
- Curve are suitable for delivering liquid ( $v = 1\text{mm}^2/\text{s}$ ,  $\rho = 1\text{g}/\text{cm}^3$ ).
- 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.

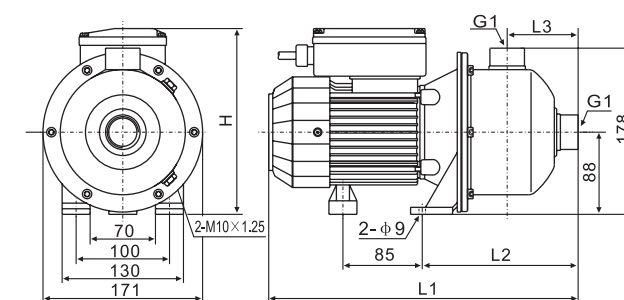
### PERFORMANCE CURVE (n=2900r/min)



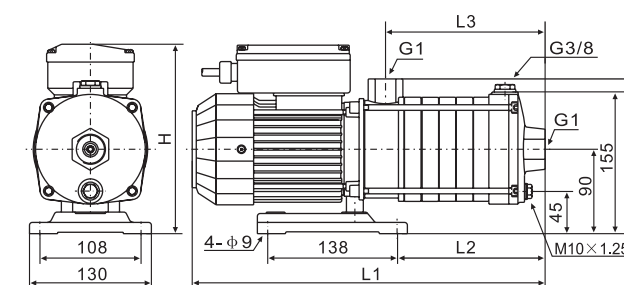
### Performance Table:

Model		POWER P2(KW)	Q (m³/h)	H (m)						
Single Phase	Three Phase			0.6	1	1.5	1.8	2	2.4	3
MHS1-20 MLF(S)1-20	MHS1-20T MLF(S)1-20T	0.25		14	13.5	12	11	10	8.5	5
MHS1-30 MLF(S)1-30	MHS1-30T MLF(S)1-30T	0.25		22	21	20	18	16	15	9.5
MHS1-40 MLF(S)1-40	MHS1-40T MLF(S)1-40T	0.25		28	27	24.5	23	21	19	13
MHS1-50 MLF(S)1-50	MHS1-50T MLF(S)1-50T	0.37		35	33	30	28	25	22	15
MHS1-60 MLF(S)1-60	MHS1-60T MLF(S)1-60T	0.37		40	37	34	31	28	25	17

### Installation Dimensions:



MHS1



MLF(S)1

Model	Size(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
MHS1-20(T)	332	167	76	199	332	167	76	177	6.7
MHS1-30(T)	332	167	76	199	332	167	76	177	6.9
MHS1-40(T)	386	221	130	199	386	221	130	177	7.5
MHS1-50(T)	386	221	130	199	386	221	130	177	7.7
MHS1-60(T)	386	221	130	199	386	221	130	177	7.8

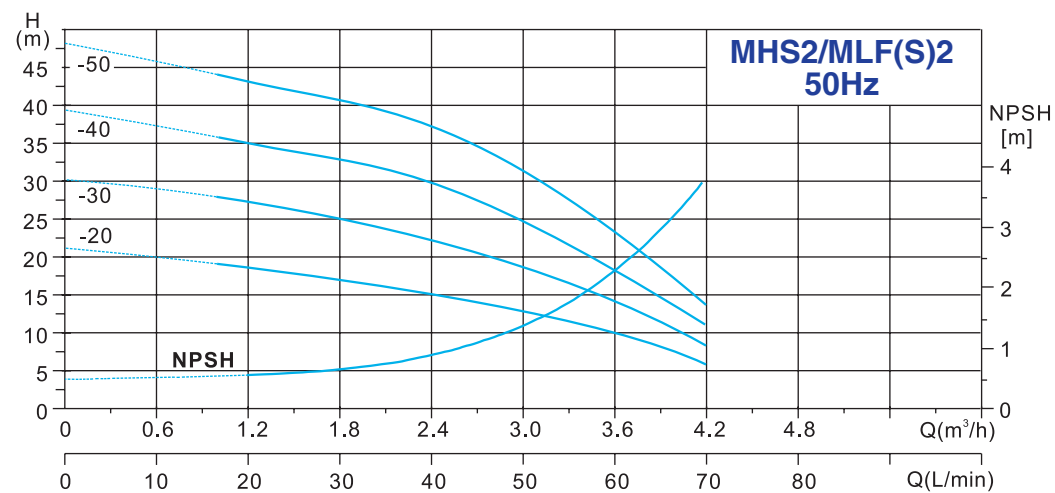
Model	Size(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
MLF(S)1-20(T)	305	90	100	202	305	90	100	180	5.3
MLF(S)1-30(T)	323	108	118	202	323	108	118	180	5.8
MLF(S)1-40(T)	341	126	136	202	341	126	136	180	6.3
MLF(S)1-50(T)	359	144	154	202	359	144	154	180	7.0
MLF(S)1-60(T)	377	162	172	202	377	162	172	180	7.5



# MHS/MLF/MLFS

## Horizontal Multistage Stainless Steel Centrifugal Pump

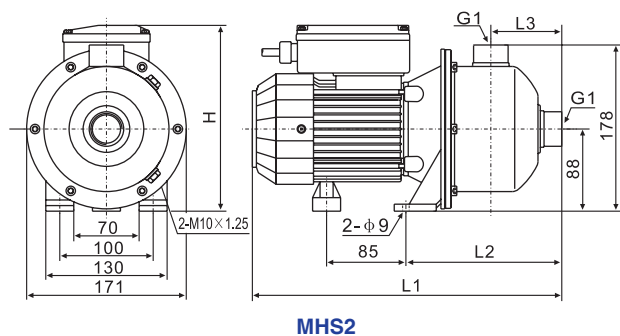
### PERFORMANCE CURVE (n=2900r/min)



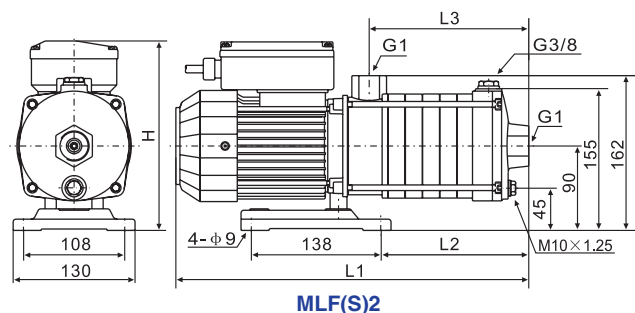
### Performance Table:

Model		POWER P2(KW)	Q (m³/h)	H (m)									
Single Phase	Three Phase			0.6	1	1.5	1.8	2	2.4	3	3.6	4.2	
MHS2-20 MLF(S)2-20	MHS2-20T MLF(S)2-20T	0.25	H (m)	19.5	19	18	17	16	15	13	10	6	
MHS2-30 MLF(S)2-30	MHS2-30T MLF(S)2-30T	0.37		28	27	26	25	24	23	19	14	8.5	
MHS2-40 MLF(S)2-40	MHS2-40T MLF(S)2-40T	0.55		36.5	34.5	33.6	33	32	31	25	18	11	
MHS2-50 MLF(S)2-50	MHS2-50T MLF(S)2-50T	0.55		45	42	41	40.5	40	38	31	22	13	

### Installation Dimensions:



Model	Size(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
MHS2-20(T)	332	167	76	199	332	167	76	177	6.7
MHS2-30(T)	332	167	76	199	332	167	76	177	6.9
MHS2-40(T)	416	221	130	199	416	221	130	177	7.5
MHS2-50(T)	416	221	130	199	416	221	130	177	7.7



Model	Size(mm)								Weight (kg)
	Single Phase				Three Phase				
	L1	L2	L3	H	L1	L2	L3	H	
MLF(S)2-20(T)	305	90	100	202	305	80	100	180	5.5
MLF(S)2-30(T)	323	108	118	202	323	108	118	180	6
MLF(S)2-40(T)	370	126	136	202	370	126	136	180	6.5
MLF(S)2-50(T)	388	144	154	202	388	144	154	180	7

# CBP

## Multistage Centrifugal Pump

### Operating Limits:

- Max. liquid temperature: 50°C
- Max. ambient temperature: 50°C
- Max. working pressure: 0.6Mpa

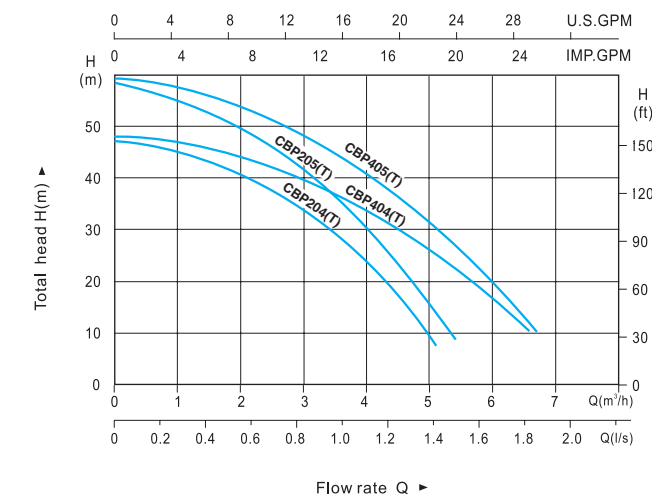
### Motor:

- Single phase
- With thermal overload protection
- Insulation class: F
- Protection class: IP55

### Features:

- The over-current parts are high strength engineering plastics, and they are not rusty
  - High head
  - Low noise and long service life
- Wide range of applications, such as milk bath system, home pressurization system, agricultural spray irrigation, industrial water supply, etc.

### PERFORMANCE CHART AT DIFFERENT SPEED



The copper sleeve structure is firmer and non deformed

MODEL	POWER(P2)		IMPELLERS	RATED FLOW (m³/h)	RATED HEAD (m)	INLET/OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CBP204(T)	0.75	1	4	2	40	1"x1"	10.5	440x200x280	1200
CBP205(T)	1.0	1.35	5	2	50	1"x1"	11	440x200x280	1200
CBP404(T)	1.0	1.35	4	4	34	1"x1"	11	440x200x280	1200
CBP405(T)	1.25	1.7	5	4	40	1"x1"	11.5	440x200x280	1200

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 50°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class F
- Protection IP55

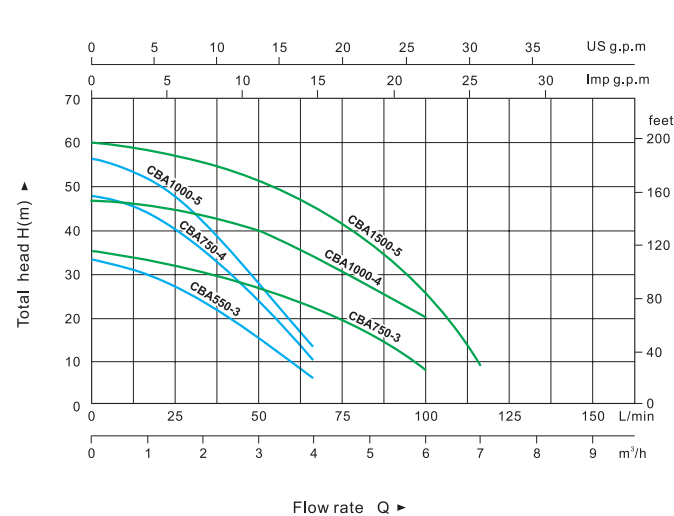
### Material:

- Pump body: AISI 304 Stainless Steel
- Impeller / diffuser: Plastic
- Motor Shaft: Stainless Steel
- Mechanical seal: Ceramic / Graphite

### Application:

- Aggressive liquids transfer
- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis.
- Booster systems
- Washing systems, garden irrigation, fountains

PERFORMANCE CHART AT n=2900 r/min



CBA750-4

MODEL		POWER(P2)		IMPELLERS	INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP								
CBA550-3	CBA550-3T	0.55	0.75	3	1"x1"	70	33	8	7	420x200x240	1400
CBA750-4	CBA750-4T	0.75	1	4	1"x1"	70	47	8	8	440x200x240	1320
CBA1000-5	CBA1000-5T	1	1.5	5	1"x1"	70	56	8	9	465x200x240	1250
CBA750-3	CBA750-3T	0.75	1	3	1"x1"	110	36	8	7	420x200x240	1400
CBA1000-4	CBA1000-4T	1	1.5	4	1"x1"	110	48	8	8	440x200x240	1320
CBA1500-5	CBA1500-5T	1.5	2	5	1"x1"	110	60	8	9	500x200x240	1250

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

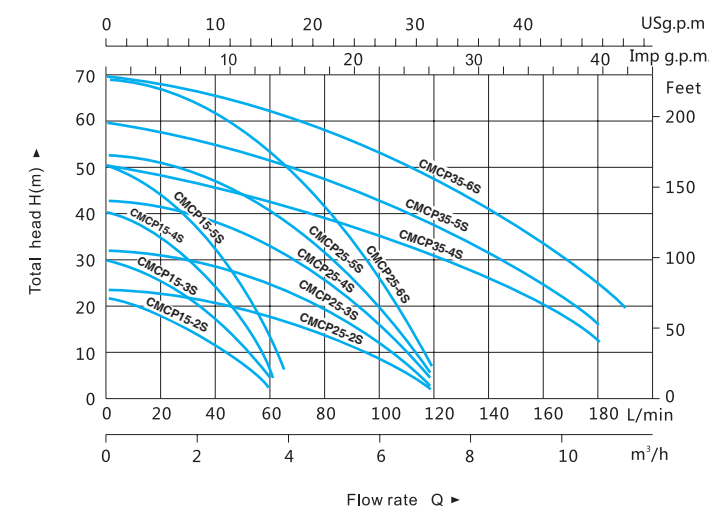
### Material:

- Suction and discharge Mountings: Cast Iron
- Pump casing: Stainless Steel
- Impeller: Plastic / Stainless Steel
- Motor Shaft: Stainless Steel
- Mechanical seal: Ceramic / Graphite

### Installation and Use:

- These pumps are suitable to pumping clean water which is not chemically aggressive to the pump components.
- They are extremely reliable, simple to use, quiet and virtually maintenance-free, finding many uses in flow irrigation systems in gardening agriculture and industrial fittings.

PERFORMANCE CHART AT n=2900 r/min



CMCP25-3S

MODEL		POWER(P2)		IMPELLERS	INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP								
CMCP15-2S	CMCP15-2ST	0.25	0.33	2	1"x1"	60	21	8	8	380x175x190	2215
CMCP15-3S	CMCP15-3ST	0.37	0.5	3	1"x1"	60	30	8	9	406x175x190	1920
CMCP15-4S	CMCP15-4ST	0.55	0.74	4	1"x1"	60	40	8	10	430x175x190	1810
CMCP15-5S	CMCP15-5ST	0.75	1.0	5	1"x1"	65	50	8	11	454x175x190	1720
CMCP25-2S	CMCP25-2ST	0.55	0.75	2	1"x1"	120	22	8	12	418x190x230	1532
CMCP25-3S	CMCP25-3ST	0.65	0.9	3	1"x1"	120	33	8	13	444x190x230	1400
CMCP25-4S	CMCP25-4ST	0.75	1.0	4	1"x1"	120	43	8	14	470x190x230	1320
CMCP25-5S	CMCP25-5ST	0.9	1.25	5	1"x1"	120	55	8	17	519x190x230	1260
CMCP25-6S	CMCP25-6ST	1.1	1.5	6	1"x1"	120	70	8	20	595x206x257	1250
CMCP35-4S	CMCP35-4ST	1.1	1.5	4	1¼"x1¼"	180	50	8	19	490x187x265	1150
CMCP35-5S	CMCP35-5ST	1.65	2.2	5	1¼"x1¼"	180	60	8	20	515x187x265	1100
CMCP35-6S	CMCP35-6ST	2.2	3	6	1¼"x1¼"	190	70	8	21	540x187x265	1050

**Built-in Self-priming Valve  
Self-priming up to 6m!**



### Operating Limits:

- Max. liquid temperature: 50°C
- Max. ambient temperature: 50°C
- Max. Working pressure: 1.0MPa

### Material:

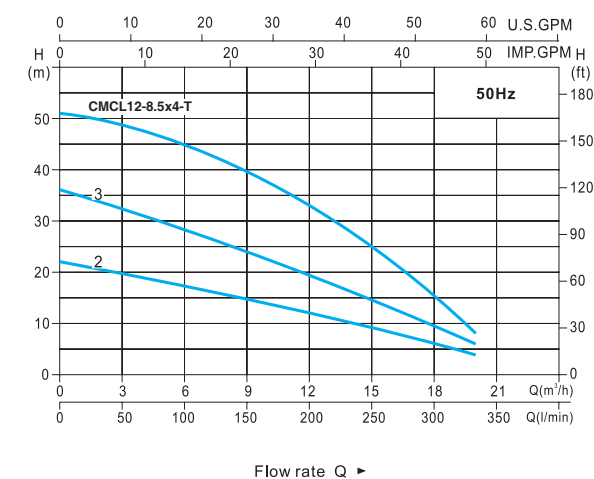
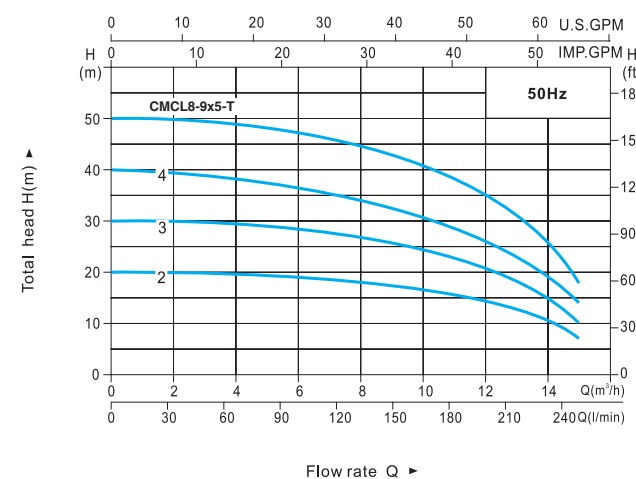
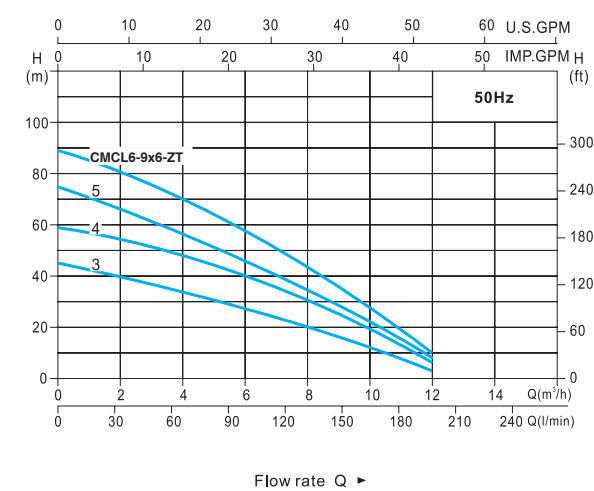
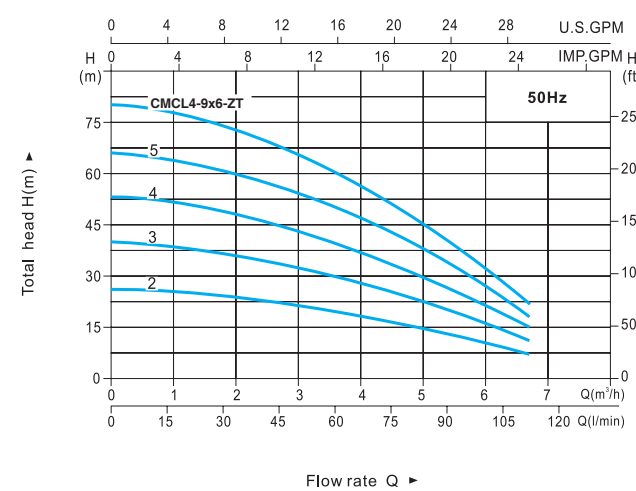
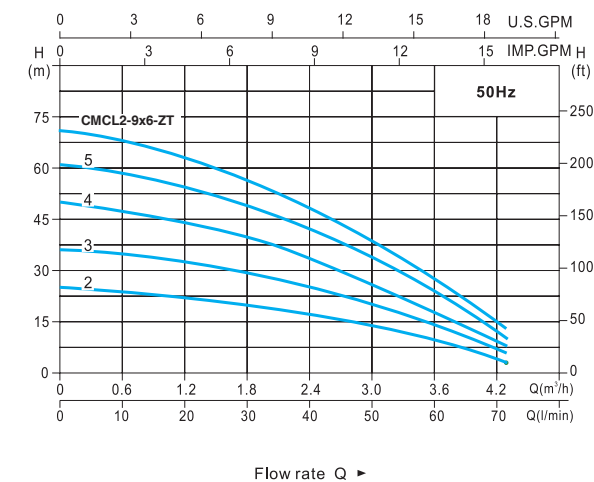
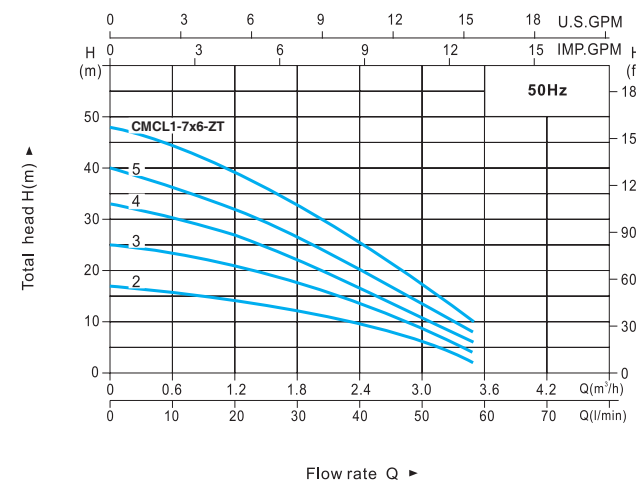
- Suction and discharge Mountings: Cast Iron
- Pump casing: Stainless Steel
- Impeller: Plastic
- Motor Shaft: Stainless Steel
- Mechanical seal: Ceramic / Graphite



### Installation and Use:

- These pumps are suitable to pumping clean water which is not chemically aggressive to the pump components.
- They are extremely reliable, simple to use, quite and virtually maintenance-free, finding many uses in flow irrigation systems in gardening agriculture and industrial fittings
- Z means self priming: 6m

MODEL	POWER P2(KW)	Amps		INLET/OUTLET	RATED FLOW (m³/h)	RATED HEAD (m)	PACKING DIMENSION/UNIT (mm)
		220V	380V				
CMCL1-7x2-Z(T)	0.25	2.0	0.7	1"x1"	1	14	400x195x250
CMCL1-7x3-Z(T)	0.25	2.0	0.7	1"x1"	1	21	425x195x250
CMCL1-7x4-Z(T)	0.37	2.4	1.0	1"x1"	1	28	450x195x250
CMCL1-7x5-Z(T)	0.37	2.4	1.0	1"x1"	1	35	475x195x250
CMCL1-7x6-Z(T)	0.55	3.8	1.4	1"x1"	1	42	500x195x250
CMCL2-9x2-Z(T)	0.37	2.4	1.0	1"x1"	2	18	400x195x250
CMCL2-9x3-Z(T)	0.55	3.8	1.4	1"x1"	2	27	425x195x250
CMCL2-9x4-Z(T)	0.75	5.2	1.8	1"x1"	2	36	470x195x250
CMCL2-9x5-Z(T)	1.0	6.2	2.4	1"x1"	2	45	495x195x250
CMCL2-9x6-Z(T)	1.0	6.2	2.4	1"x1"	2	54	520x195x250
CMCL4-9x2-Z(T)	0.55	3.8	1.4	1"x1"	4	18	400x195x250
CMCL4-9x3-Z(T)	0.75	5.2	1.8	1"x1"	4	27	445x195x250
CMCL4-9x4-Z(T)	1.0	6.2	2.4	1"x1"	4	36	470x195x250
CMCL4-9x5-Z(T)	1.5	9.2	3.5	1"x1"	4	45	528x215x280
CMCL4-9x6-Z(T)	1.5	9.2	3.5	1"x1"	4	54	555x215x280
CMCL6-9x3-Z(T)	1.1	7.0	2.6	1½"x1¼"	6	27	500x215x280
CMCL6-9x4-Z(T)	1.5	9.2	3.5	1½"x1¼"	6	36	530x215x280
CMCL6-9x5-Z(T)	2.2	-	4.9	1½"x1¼"	6	45	560x215x280
CMCL6-9x6(T)	2.2	-	4.9	1½"x1¼"	6	54	585x215x280
CMCL8-9x2(T)	1.1	7.0	2.6	1½"x1¼"	8	18	465x215x280
CMCL8-9x3(T)	1.1	7.0	2.6	1½"x1¼"	8	27	505x215x280
CMCL8-9x4(T)	1.5	9.2	3.5	1½"x1¼"	8	36	545x215x280
CMCL8-9x5(T)	2.2	-	4.9	1½"x1¼"	8	45	585x215x280
CMCL12-8.5x2(T)	1.1	7.0	2.6	1½"x1¼"	12	17	465x215x280
CMCL12-8.5x3(T)	1.5	9.2	3.5	1½"x1¼"	12	36	505x215x280
CMCL12-8.5x4(T)	2.2	-	4.9	1½"x1¼"	12	34	545x215x280



### Operating Limits:

- Max. liquid temperature: 50°C
- Max. ambient temperature: 40°C
- Max. working pressure: 0.8MPa
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class F
- Protection IP55

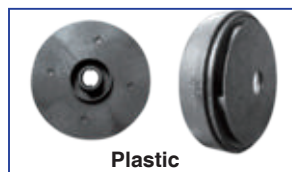
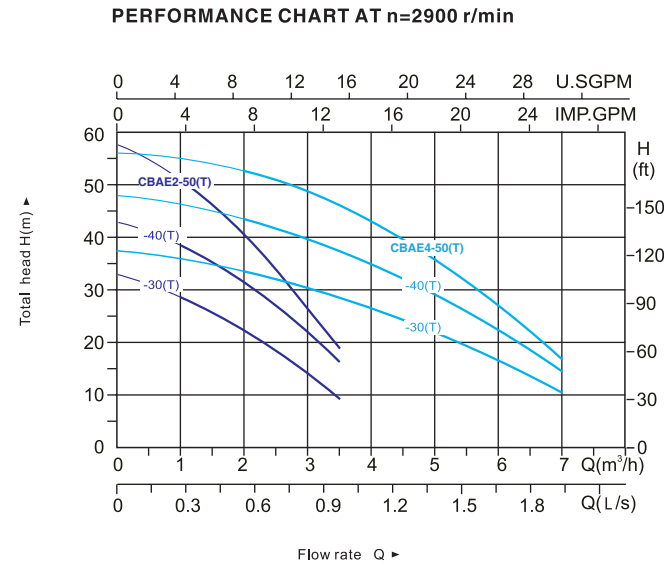
### Material:

- Pump body: AISI 304 Stainless Steel
- Impeller / diffuser: Plastic
- Motor Shaft: Stainless Steel
- Mechanical seal: Ceramic / Graphite

### Application:

- Aggressive liquids transfer
- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis.
- Booster systems
- Washing systems, garden irrigation, fountains

**Built-in Self-priming Valve**  
**Self-priming up to 8m!**



MODEL	POWER(P2)		INLET/OUTLET	RATED FLOW (m³/h)	RATED HEAD (m)	IMPELLERS	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CBAE550-3(T)	0.55	0.75	1"×1"	2	24	3	10.8	440×210×255	1230
CBAE750-4(T)	0.75	1			32	4	12.8	465×210×280	1060
CBAE1000-5(T)	1.0	1.5			40	5	13.1	490×210×280	1006
CBAE750-3(T)	0.75	1	1"×1"	4	27	3	10.5	440×210×280	1230
CBAE1000-4(T)	1.0	1.4			36	4	13.5	465×210×280	1060
CBAE1500-5(T)	1.25	1.5			45	5	13.8	490×210×280	1006

### Operating Limits:

- Max. liquid temperature: 50°C
- Max. ambient temperature: 40°C
- Max. working pressure: 0.8MPa
- Continuous duty

### Motor:

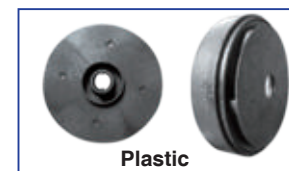
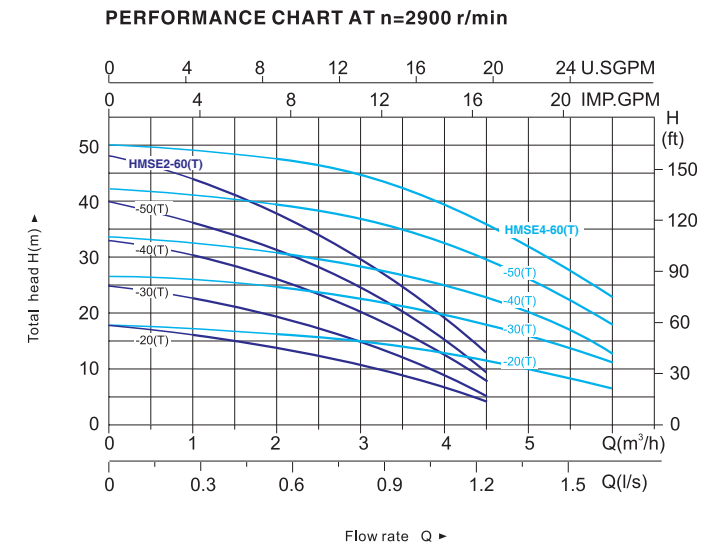
- Two-Pole induction motor (n=2900 r/min)
- Insulation Class F
- Protection IP55

### Material:

- Pump body: AISI 304 Stainless Steel
- Impeller / diffuser: Plastic
- Motor Shaft: Stainless Steel
- Mechanical seal: Ceramic / Graphite

### Application:

- Aggressive liquids transfer
- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis.
- Booster systems
- Washing systems, garden irrigation, fountains



MODEL	POWER(P2)		INLET/OUTLET	RATED FLOW (m³/h)	RATED HEAD (m)	IMPELLERS	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
HMSE2-20(T)	0.37	0.5	1"×1"	2	14	2	7.5	395×215×270	1265
HMSE2-30(T)	0.37	0.5			20	3	8	395×215×270	1265
HMSE2-40(T)	0.55	0.75			26	4	9	395×215×270	1265
HMSE2-50(T)	0.55	0.75			32	5	10.5	430×215×270	1160
HMSE2-60(T)	0.75	1	1¼"×1"	4	38	6	11.5	450×215×270	1160
HMSE4-20(T)	0.55	0.75			13	2	9	395×215×270	1265
HMSE4-30(T)	0.75	1			20	3	10.5	395×215×270	1265
HMSE4-40(T)	0.75	1			25	4	11	395×215×270	1265
HMSE4-50(T)	1.0	1.4			33	5	12	430×215×290	1080
HMSE4-60(T)	1.1	1.5			40	6	13	430×215×290	1080



### Operating Limits:

- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Max. working pressure: 0.8MPa
- Continuous duty

### Motor:

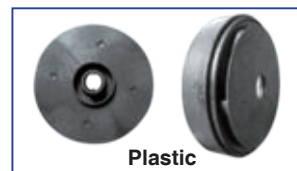
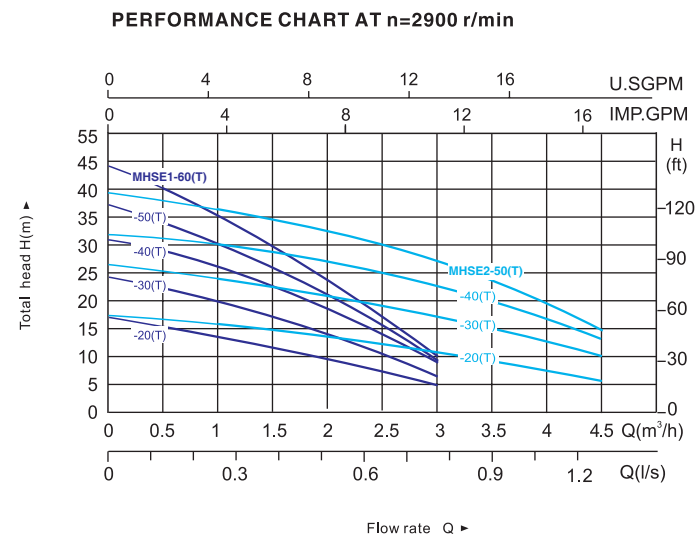
- Two-Pole induction motor (n=2900 r/min)
- Insulation Class F
- Protection IP55

### Material:

- Pump body: AISI 304 Stainless Steel
- Impeller / diffuser: Plastic
- Motor Shaft: Stainless Steel
- Mechanical seal: Ceramic / Graphite

### Application:

- Aggressive liquids transfer
- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis.
- Booster systems
- Washing systems, garden irrigation, fountains



MODEL	POWER(P2)		INLET/OUTLET	RATED FLOW (m³/h)	RATED HEAD (m)	IMPELLERS	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
MHSE1-20(T)	0.25	0.37	1"x1"	1	13	2	6.2	375x195x245	1618
MHSE1-30(T)	0.25	0.37			19	3	6.4	375x195x245	1618
MHSE1-40(T)	0.25	0.37			26	4	7	375x195x245	1618
MHSE1-50(T)	0.37	0.5			30	5	7.2	410x195x245	1480
MHSE1-60(T)	0.37	0.5			35	6	7.3	410x195x245	1480
MHSE2-20(T)	0.25	0.37	1"x1"	2	13	2	6.2	375x195x245	1618
MHSE2-30(T)	0.37	0.5			20	3	6.4	375x195x245	1618
MHSE2-40(T)	0.55	0.75			26	4	7	410x195x245	1480
MHSE2-50(T)	0.55	0.75			32	5	7.2	435x195x245	1395

### Operating Limits:

- Max. liquid temperature: 60°C
- H version: max.liquid temperature110°C
- Max. ambient temperature: 40°C
- Maximum working pressure: 8 bar

### Motor:

- Two-Pole induction motor(n=2900r.p.m.)
- Insulation Class F
- Protection Class IP55
- Standard voltage: 1 phase 230V ± 10% 50Hz  
3 phase 230/400V ±10% 50Hz
- Single-phase: permanent split capacitor and automatic thermal overload protection
- Three-phase: thermal protection

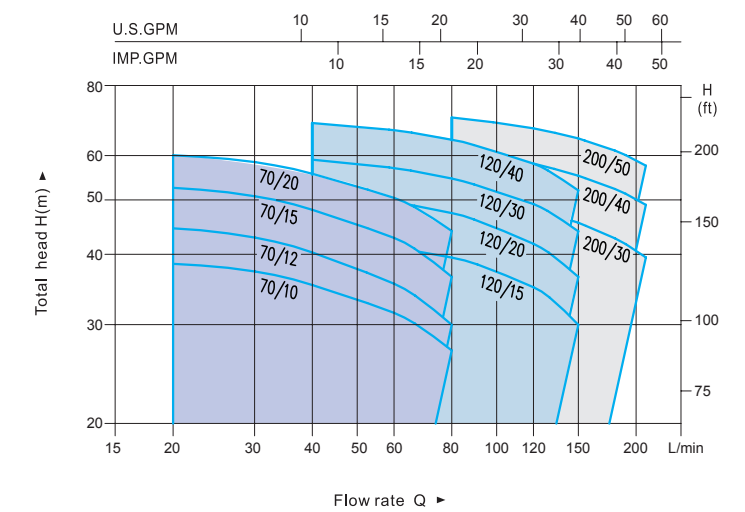
### Material:

- Pump body, impeller, diffuser and casing cover in AISI 304
- Shaft in AISI 304
- Bracket and motor casing in aluminum
- Mechanical seal in carbon/ceramic/NBR
- Special mechanical seal are available on demand

### Application:

- Twin impeller centrifugal pumps with hydraulic components constructed in stainless steel AISI 304, suitable for pressure boosting, water supply, water treatment & irrigation. Air conditioning systems and general water pumping including moderately aggressive liquids.

PERFORMANCE CHART AT DIFFRENT SPEED



MODEL		POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)	INLET/OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)
Single-phase	Three-phase						
SPS70/10	SPS70/10T	0.75	4.2	29	1¼"x1"	11.8	405x235x270
SPS70/12	SPS70/12T	0.9	4.2	32	1¼"x1"	12.9	425x235x270
SPS70/15	SPS70/15T	1.1	4.2	38	1¼"x1"	15	425x255x330
SPS70/20	SPS70/20T	1.5	4.2	46	1¼"x1"	16.5	440x255x330
SPS120/15	SPS120/15T	1.1	7.2	35	1¼"x1"	15	425x235x300
SPS120/20	SPS120/20T	1.5	7.2	41	1¼"x1"	16.5	445x235x300
SPS120/30	SPS120/30T	2.2	7.2	49	1¼"x1"	24	455x255x330
-	SPS120/40T	3.0	7.2	58	1¼"x1"	24.1	475x255x330
SPS200/30	SPS200/30T	2.2	12	40	1½"x1"	23	455x235x315
-	SPS200/40T	3.0	12	50	1½"x1"	24.1	475x255x315
-	SPS200/50T	3.7	12	59	1½"x1"	30.8	505x255x340

**Operating Limits:**

- Max. Liquid temperature: 0°C~50°C
- Max. ambient temperature: 50°C
- Continuous duty

**Motor:**

- Two-Pole induction motor(n=2900r.p.m.)
- Insulation Class F
- Protection Class IP54
- Single phase version built-in thermal protection
- Standard voltage: 1x220-240V  
3x220-240V/380-415V

**Material:**

- Suction part and discharge part: Cast iron
- Impeller: Plastic
- Diffuser: Plastic
- Motor Shaft: Stainless steel

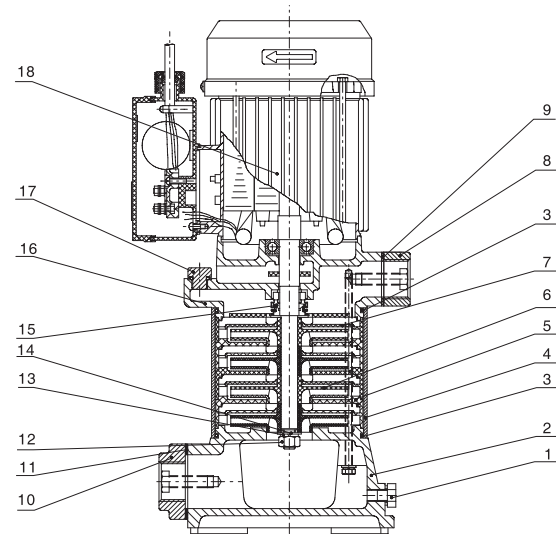
**Applications:**

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibres
- Garden sprinkler, rain water collection
- Pressure boosting of tank
- Air-conditioning and cooling system, industrial washing and other special applications



VM

**Dissection Drawing:**



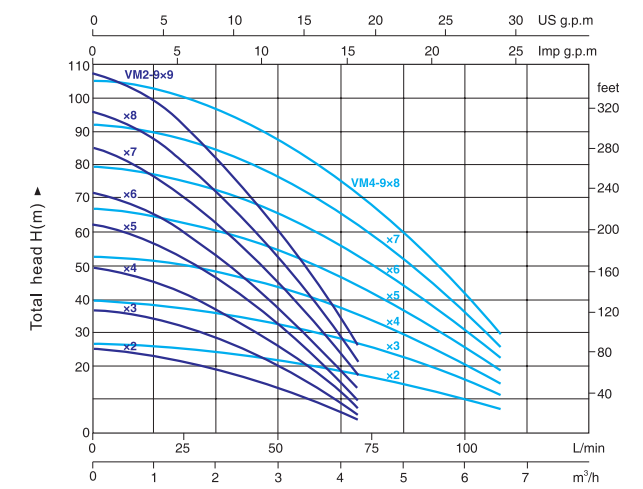
NO.	DESCRIPTION	MATERIAL
1	Drain plug	Brass
2	Suction part	Cast iron
3	" O" ring	NBR
4	Cylinder	Stainless steel AIS I304
5	Inlet diffuser	Plastic (PPE)
6	Impeller	Plastic
7	Outer diffuser	Plastic (PPE)
8	Outlet joint	Cast iron
9	Gasket for outlet joint	NBR
10	Inlet joint	Cast iron
11	Gasket for inlet joint	NBR
12	Nut	Stainless steel AIS I304
13	Spring gasket	Stainless steel AIS I304
14	Washer	Stainless steel AIS I304
15	Mechanical seal	Carbon /Graphite / NBR
16	Discharge part	Cast iron
17	Water-filling plug	Brass
18	Motor	

MODEL		POWER P2(KW)	WEIGHT (kg)	PACKING SIZE (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE				
VM2-9x2	VM2-9x2T	0.37	15.5	435x220x300	975
VM2-9x3	VM2-9x3T	0.55	16	460x220x300	920
VM2-9x4	VM2-9x4T	0.75	17	485x220x300	875
VM2-9x5	VM2-9x5T	1	18	510x220x300	830
VM2-9x6	VM2-9x6T	1	19	535x220x300	790
VM2-9x7	VM2-9x7T	1.1	22	595x220x300	715
VM2-9x8	VM2-9x8T	1.5	23	615x220x300	670
VM2-9x9	VM2-9x9T	1.5	24	640x220x300	660
VM4-9x2	VM4-9x2T	0.55	16	435x220x300	975
VM4-9x3	VM4-9x3T	0.75	17	460x220x300	920
VM4-9x4	VM4-9x4T	1	18	485x220x300	875
VM4-9x5	VM4-9x5T	1.5	20	545x220x300	775
VM4-9x6	VM4-9x6T	1.5	23	570x220x300	745
VM4-9x7	VM4-9x7T	2.2	24	595x220x300	715
VM4-9x8	VM4-9x8T	2.2	26	615x220x300	670

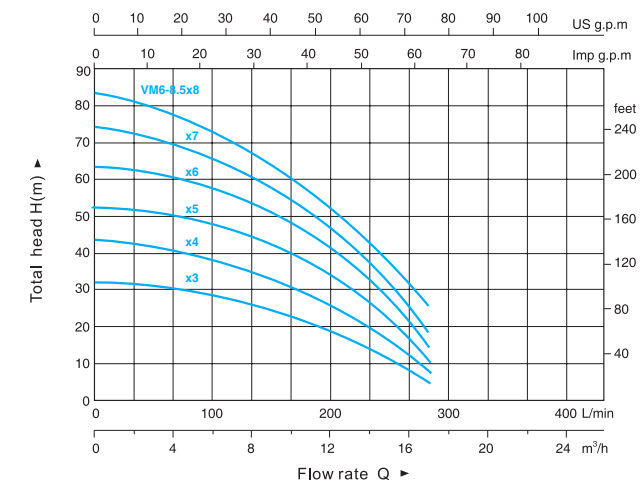
MODEL		POWER P2(KW)	WEIGHT (kg)	PACKING SIZE (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE				
VM6-8.5x3	VM6-8.5x3T	1.1	20	495x220x300	860
VM6-8.5x4	VM6-8.5x4T	1.5	21	570x220x300	745
VM6-8.5x5	VM6-8.5x5T	2.2	22	610x220x300	695
VM6-8.5x6	VM6-8.5x6T	2.2	23	645x220x300	660
-	VM6-8.5x7T	3	25	720x220x300	590
-	VM6-8.5x8T	3	26	760x220x300	560

MODEL		POWER P2(KW)	WEIGHT (kg)	PACKING SIZE (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE				
VM8-9x2	VM8-9x2T	1.1	21	500x220x300	850
VM8-9x3	VM8-9x3T	1.1	22	540x220x300	785
VM8-9x4	VM8-9x4T	1.5	23	580x220x300	730
VM8-9x5	VM8-9x5T	2.2	25	615x220x300	690
-	VM8-9x6T	3	26	695x220x300	610
VM12-8.5x2	VM12-8.5x2T	1.1	22	500x220x300	850
VM12-8.5x3	VM12-8.5x3T	1.5	24	540x220x300	785
VM12-8.5x4	VM12-8.5x4T	2.2	26	580x220x300	730
-	VM12-8.5x5T	3	27	655x220x300	650
-	VM12-8.5x6T	3	28	695x220x300	610
-	VM12-8.5x7T	4	30	695x220x300	600
-	VM12-8.5x8T	4.7	33	800x270x410	327

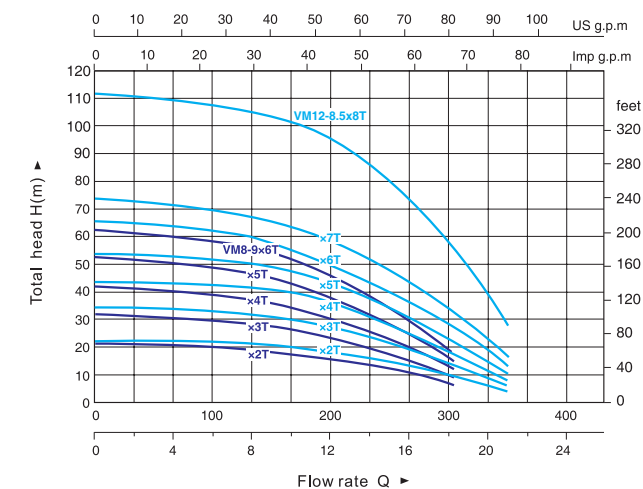
PERFORMANCE CHART AT n=2900 r/min



PERFORMANCE CHART AT n=2900 r/min



PERFORMANCE CHART AT n=2900 r/min





### Operating Limits:

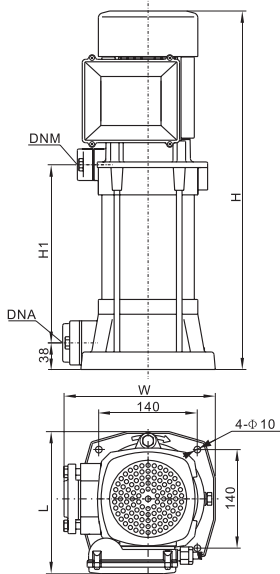
- Medium temperature: 0°C - +50°C
- Environmental temperature: ≤+50°C
- Max. Working pressure: 1.5MPa

### Applications:

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibres
- Garden sprinkler, rain water collection
- Pressure boosting of tank
- Air-conditioning and cooling system, industrial washing and other special applications

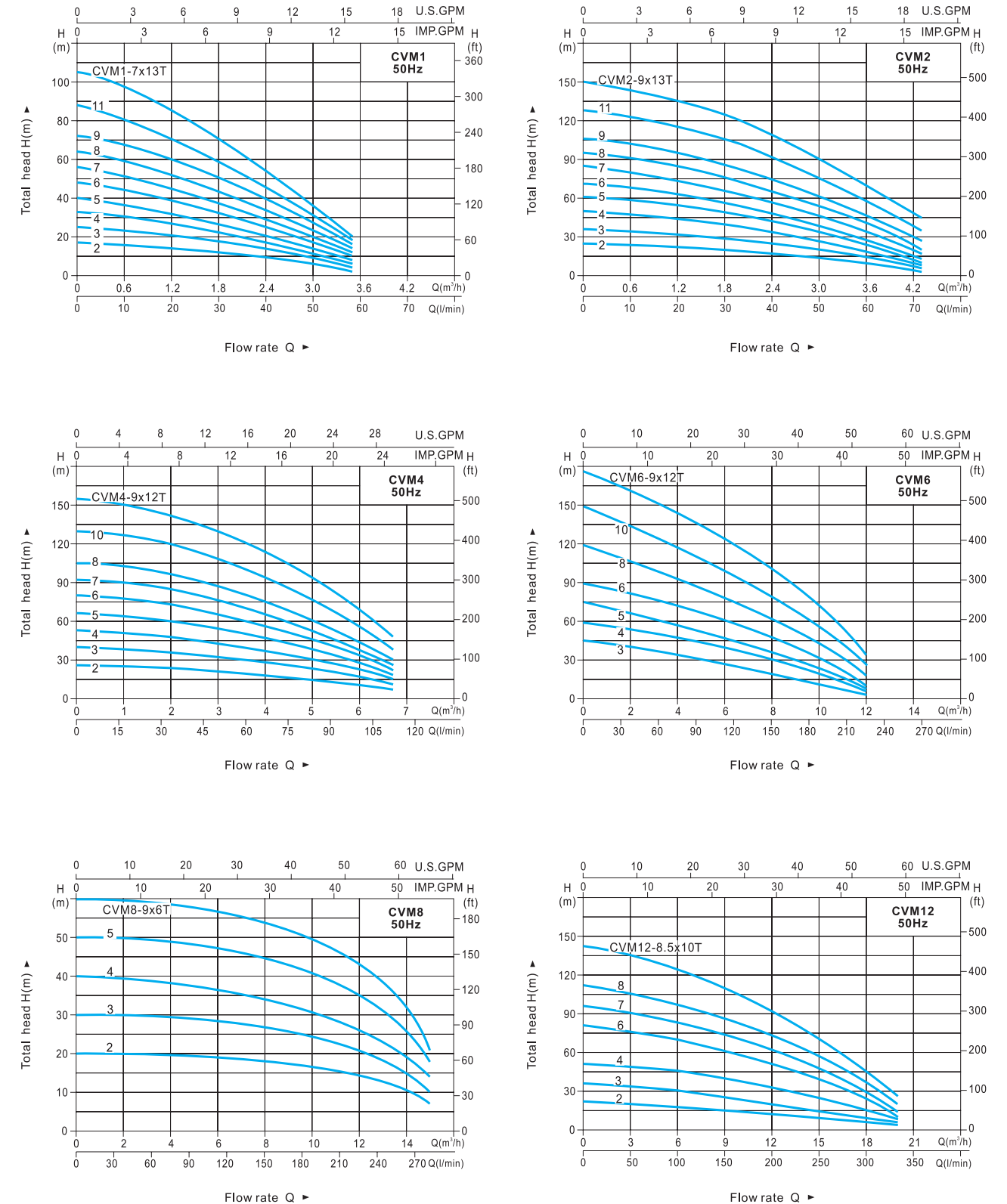
### Motor:

- Two-Pole induction motor(n=2900r.p.m.)
- Insulation Class F
- Protection Class IP54
- Single phase version built-in thermal protection
- Standard voltage: 1x220-240V  
3x220-240V/380-415



MODEL	POWER P2(KW)	(Amps)		RATED FLOW (m³/h)	RATED HEAD (m)	DNA	DNM	OVERALL DIMENSION							
		220V	380V					W		H1		Single-phase		Three-phase	
		L	H					L	H	L	H	L	H		
CVM1-7x2(T)	0.25	2.0	0.7	1	14	G1	G1	213	128	190	365	187	365		
CVM1-7x3(T)	0.25	2.0	0.7	1	21	G1	G1	213	152	190	389	187	389		
CVM1-7x4(T)	0.37	2.4	1.0	1	28	G1	G1	213	176	190	413	187	413		
CVM1-7x5(T)	0.37	2.4	1.0	1	35	G1	G1	213	200	190	437	187	437		
CVM1-7x6(T)	0.55	3.8	1.4	1	42	G1	G1	213	224	190	461	187	461		
CVM1-7x7(T)	0.55	3.8	1.4	1	49	G1	G1	213	248	190	485	187	485		
CVM1-7x8(T)	0.75	5.2	1.8	1	56	G1	G1	213	272	199	530	196	530		
CVM1-7x9(T)	0.75	5.2	1.8	1	63	G1	G1	213	296	199	554	196	554		
CVM1-7x11(T)	0.75	5.2	1.8	1	77	G1	G1	213	344	199	602	196	602		
CVM1-7x13(T)	1.0	6.2	2.4	1	91	G1	G1	213	392	202	650	196	650		
CVM2-9x2(T)	0.37	2.4	1.0	2	18	G1	G1	213	128	190	365	187	365		
CVM2-9x3(T)	0.55	3.8	1.4	2	27	G1	G1	213	152	190	389	187	389		
CVM2-9x4(T)	0.75	5.2	1.8	2	36	G1	G1	213	176	199	434	196	434		
CVM2-9x5(T)	1.0	6.2	2.4	2	45	G1	G1	213	200	202	458	196	458		
CVM2-9x6(T)	1.0	6.2	2.4	2	54	G1	G1	213	224	202	482	196	482		
CVM2-9x7(T)	1.1	7.0	2.6	2	63	G1	G1	213	254	207	540	197	540		
CVM2-9x8(T)	1.5	9.2	3.5	2	72	G1	G1	213	278	219	564	197	564		
CVM2-9x9(T)	1.5	9.2	3.5	2	81	G1	G1	213	302	219	588	197	588		
CVM2-9x11(T)	1.85	13	4.1	2	99	G1	G1	213	350	236	678	197	678		
CVM2-9x13(T)	2.2	14	4.9	2	117	G1	G1	213	398	236	726	197	726		
CVM4-9x2(T)	0.55	3.8	1.4	4	18	G1	G1	213	128	190	365	187	365		
CVM4-9x3(T)	0.75	5.2	1.8	4	27	G1	G1	213	152	199	410	196	410		
CVM4-9x4(T)	1.0	6.2	2.4	4	36	G1	G1	213	176	202	434	196	434		
CVM4-9x5(T)	1.5	9.2	3.5	4	45	G1	G1	213	206	219	492	197	492		
CVM4-9x6(T)	1.5	9.2	3.5	4	54	G1	G1	213	230	219	516	197	516		
CVM4-9x7(T)	1.85	13	4.1	4	63	G1	G1	213	254	236	540	197	540		
CVM4-9x8(T)	2.2	14	4.9	4	72	G1	G1	213	278	236	564	197	564		
CVM4-9x10(T)	2.2	14	4.9	4	90	G1	G1	213	326	—	—	197	612		
CVM4-9x12(T)	3.0	—	6.3	4	108	G1	G1	213	374	—	—	214	702		
CVM6-9x3(T)	1.1	7.0	2.6	6	27	G1 1/4	G1 1/4	213	158	199	453	197	453		
CVM6-9x4(T)	1.5	9.2	3.5	6	36	G1 1/4	G1 1/4	213	186	219	481	197	481		
CVM6-9x5(T)	1.85	13	4.1	6	45	G1 1/4	G1 1/4	213	214	236	552	197	509		
CVM6-9x6(T)	2.2	14	4.9	6	54	G1 1/4	G1 1/4	213	242	236	580	197	537		
CVM6-9x8(T)	3.0	—	6.3	6	72	G1 1/4	G1 1/4	213	308	—	—	214	636		
CVM6-9x10(T)	4.0	—	8.2	6	90	G1 1/4	G1 1/4	213	361	—	—	254	736		
CVM6-9x12(T)	5.5	—	11.1	6	108	G1 1/4	G1 1/4	213	417	—	—	254	822		
CVM8-9x2(T)	1.1	7.0	2.6	8	18	G1 1/2	G1 1/4	213	153	207	448	197	448		
CVM8-9x3(T)	1.1	7.0	2.6	8	27	G1 1/2	G1 1/4	213	192	207	487	197	487		
CVM8-9x4(T)	1.5	9.2	3.5	8	36	G1 1/2	G1 1/4	213	231	219	526	197	526		
CVM8-9x5(T)	2.2	—	4.9	8	45	G1 1/2	G1 1/4	213	270	—	—	197	565		
CVM8-9x6(T)	3.0	—	6.3	8	54	G1 1/2	G1 1/4	213	318	—	—	214	645		
CVM12-8.5x2(T)	1.1	7.0	2.6	12	17	G1 1/2	G1 1/4	213	153	207	448	197	448		
CVM12-8.5x3(T)	1.5	9.2	3.5	12	26	G1 1/2	G1 1/4	213	192	219	487	197	487		
CVM12-8.5x4(T)	2.2	14	4.9	12	34	G1 1/2	G1 1/4	213	231	234	568	197	526		
CVM12-8.5x6(T)	3.0	—	6.3	12	51	G1 1/2	G1 1/4	213	318	—	—	214	645		
CVM12-8.5x7(T)	4.0	—	8.2	12	60	G1 1/2	G1 1/4	213	353	—	—	243	728		
CVM12-8.5x8(T)	4.7	—	9.6	12	68	G1 1/2	G1 1/4	213	392	—	—	243	767		
CVM12-8.5x10(T)	5.5	—	11.1	12	85	G1 1/2	G1 1/4	213	470	—	—	243	875		

### Performance curves



### Operating Limits:

- Max. liquid temperature: 50°C
- Max. ambient temperature: 40°C
- Max. operating pressure: 1.5MPa

### Motor:

- Two-Pole induction motor(n=2900r.p.m.)
- Insulation Class F
- Protection Class IP54
- Standard voltage: 1x220-240V  
3x220-240V/380-415V
- Single phase motor mounted thermal protector ( three-phase motor can be based on customer requirements to install thermal protector ).

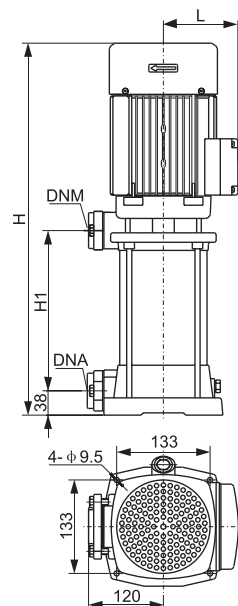
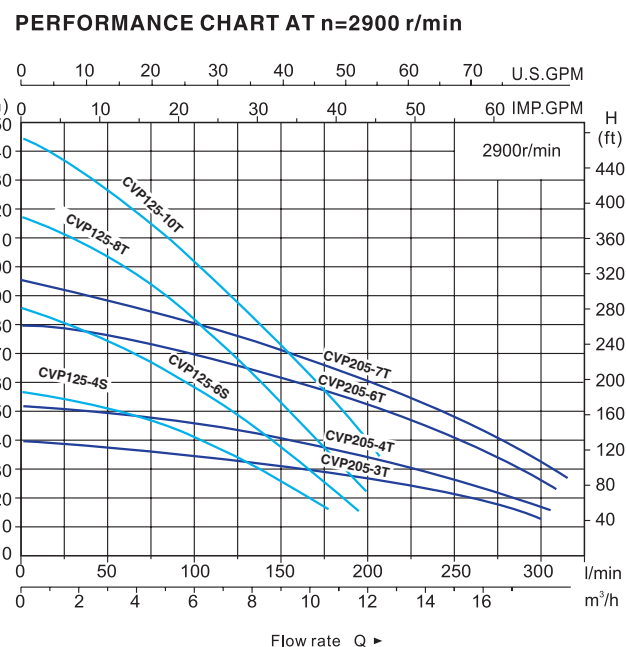
### Material:

- Suction part and discharge part: Cast iron
- Impeller: Stainless steel
- Diffuser: Plastic
- Motor Shaft: Stainless steel

### Application:

- Non-flammable or non-explosive clear water without abrasive or fibre and not aggressive to stainless steel.
- Water treatment (water purification ), industrial cleaning machine.
- Floors of pressurized water supply.
- High building boosting, water supply, garden sprinkler.
- Air-conditioning and cooling system.
- Firefighting system.
- Aquaculture and other uses.

IE1 or IE2 Motor



MODEL		POWER(P2) (KW)	MAX.FLOW (L/min)	MAX.HEAD (m)	SHAPE SIZE (mm)			DNM	DNA	G.W (kg)
SINGLE PHASE	THREE PHASE				L	H	H1			
CVP125-4S	CVP125-4T	1.5	180	56	116	502	190	G1½"	G1¼"	15
CVP125-6S	CVP125-6T	2.2	190	85	116	555	239	G1½"	G1¼"	20
-	CVP125-8T	3.0	200	118	142	668	288	G1½"	G1¼"	30
-	CVP125-10T	4.0	210	145	142	718	337	G1½"	G1¼"	32
CVP205-3S	CVP205-3T	1.5	300	40	116	503	171	G1½"	G1¼"	15
CVP205-4S	CVP205-4T	2.2	310	51	116	543	250	G1½"	G1¼"	20
-	CVP205-6T	3.0	320	80	142	710	329	G1½"	G1¼"	30
-	CVP205-7T	4.0	330	95	142	750	369	G1½"	G1¼"	32

### Operating Limits:

- Normal temperature type: 15°C~+70°C
- Hot water type: +70°C~+104°C
- Max. Ambient temperature: 50°C
- Max. Operation pressure: 25bar
- Max. Altitude: 1000m
- Radial suction, radial discharge

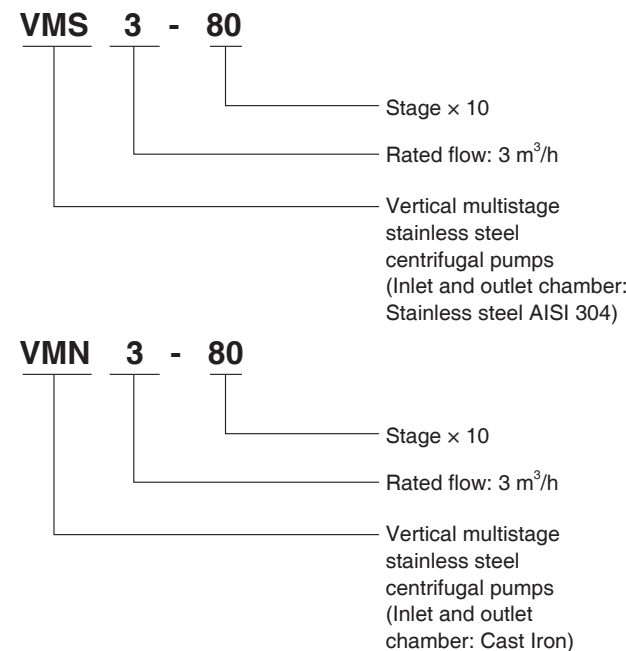
### Motor:

- T.E.F.C. Continuous duty
- Insulation class: F
- Protection class: IP55
- Standard voltage: 1x 220~240V/50Hz  
3x 230V/400V/50Hz(Power≤3kw)  
3x 400V/690V/50Hz(Power≥4kw)
- Single-phase motor have a built-in thermal overload switch.
- Three-phase motors must be connected to a motor starter in accordance with local regulations.

### Material:

- The material variant (VMS, VMN) should be selected based of the liquid to be pumped.
- VMS wetted parts are made of AISI304/AISI316.
- VMN inlet and outlet chamber is made of cast-iron and wetted parts are made of AISI304/AISI316.

### Connotation of the Type:



VMS



VMN



### Applications:

#### Water supply

- Filtration and transfer at waterworks
- Distribution from waterworks
- Pressure boosting in mains
- Pressure boosting in high-rise buildings, hotels, etc.
- Pressure boosting for industrial water supply

#### Industry

- Pressure boosting in...
- Process water systems
- Washing and cleaning systems
- Vehicle washing tunnels
- Fire fighting systems

#### Liquid transfer in...

- Cooling and air-conditioning systems(refrigerants)
- Boiler feed and condensate systems
- Machine tools (cooling lubricants)
- Aquafarming

#### Transfer of...

- Oil and alcohol
- Acids and alkali
- Glycol and coolants

#### Water treatment

- Ultra-filtration systems
- Reverse osmosis systems
- Softening, ionising, demineralizing systems
- Distillation systems
- Separators
- Swimming baths

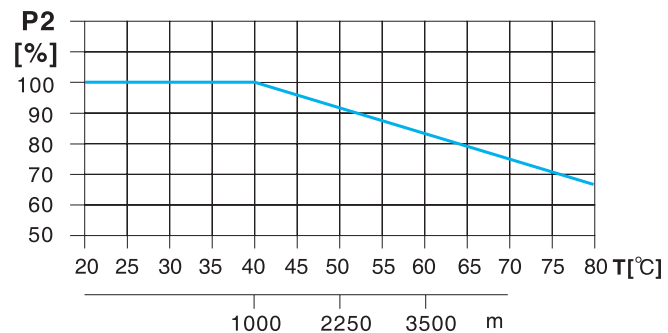
#### Irrigation

- Field irrigation(flooding)
- Sprinkler irrigation
- Drip-feed irrigation

### Viscosity:

■ The pumping of liquids with densities or kinematic viscosities higher than those of water will cause a considerable pressure drop, a drop in the hydraulic performance and a rise in the power consumption.

Fig.1 Relationship between motor output (P2) and ambient temperature/altitude

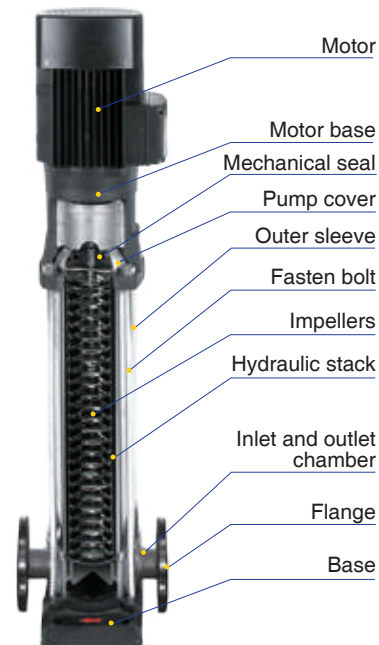


### Example:

From the fig.1, the pump is installed up to altitude 3500 meters, P2 will decrease to 88%, if the ambient temperature is up to 70°C, P2 will decrease to 78%.

### Pump:

VMS/VMN are a kind of non-self priming vertical multistage centrifugal pump, the pumps are available with standard motor, the inlet and outlet are located at the pump bottom at the same plane (inline type). all pumps are equipped with a maintenance-free mechanical seal set of the cartridge tyre.



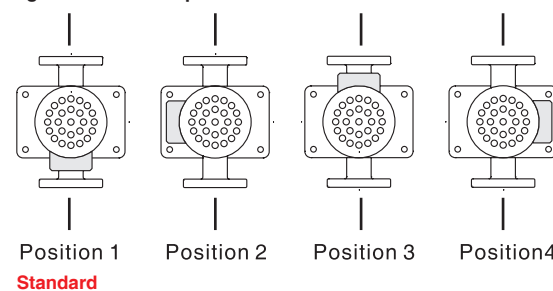
### Terminal Box Positions:

As standard the terminal box is mounted on the suction side of the pump, meanwhile, 0, 90, 180, 270 could be adjusted according to the following proceeding:

1. If necessary, disassembling the protective cover of the shaft connector, but not disassembling the shaft connector.
2. Disassembling the motor fixation screws.
3. Turn the motor to the required direction.
4. Fasten the motor screws.
5. Install the shaft connector's protective cover.

The voltage and frequency are marked on the label, the correct power should be confirmed with the label before usage.  
To ensure the electric connection is conformity to the drawing marked on the label inside the terminal box.

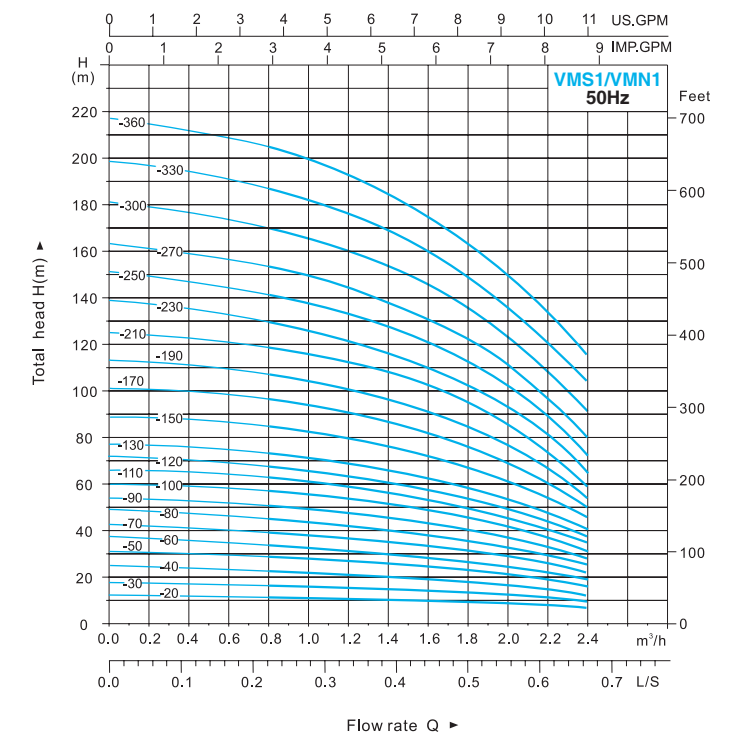
Fig3. Terminal box positions



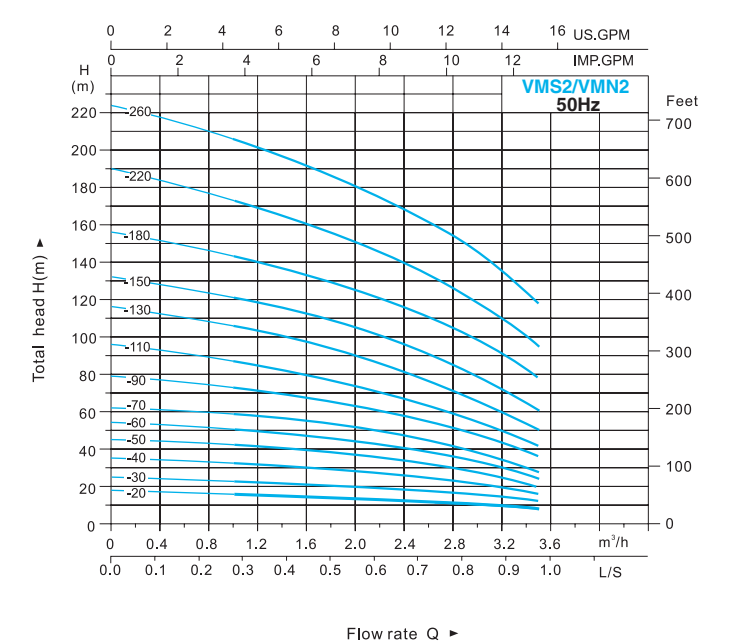
MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS1/VMN1-20	0.37	20
VMS1/VMN1-30	0.37	20
VMS1/VMN1-40	0.37	20
VMS1/VMN1-50	0.37	20
VMS1/VMN1-60	0.37	20
VMS1/VMN1-70	0.37	20
VMS1/VMN1-80	0.55	22
VMS1/VMN1-90	0.55	22
VMS1/VMN1-100	0.55	22
VMS1/VMN1-110	0.55	22
VMS1/VMN1-120	0.75	25
VMS1/VMN1-130	0.75	25
VMS1/VMN1-150	0.75	25
VMS1/VMN1-170	1.1	28
VMS1/VMN1-190	1.1	28
VMS1/VMN1-210	1.1	30
VMS1/VMN1-230	1.1	33
VMS1/VMN1-250	1.5	40
VMS1/VMN1-270	1.5	40
VMS1/VMN1-300	1.5	40
VMS1/VMN1-330	2.2	45
VMS1/VMN1-360	2.2	45

MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS2/VMN2-20	0.37	25
VMS2/VMN2-30	0.37	25
VMS2/VMN2-40	0.55	25
VMS2/VMN2-50	0.55	25
VMS2/VMN2-60	0.75	32
VMS2/VMN2-70	0.75	32
VMS2/VMN2-90	1.1	34
VMS2/VMN2-110	1.1	34
VMS2/VMN2-130	1.5	39
VMS2/VMN2-150	1.5	39
VMS2/VMN2-180	2.2	42
VMS2/VMN2-220	2.2	42
VMS2/VMN2-260	3.0	49

PERFORMANCE CHART AT n=2900 r/min

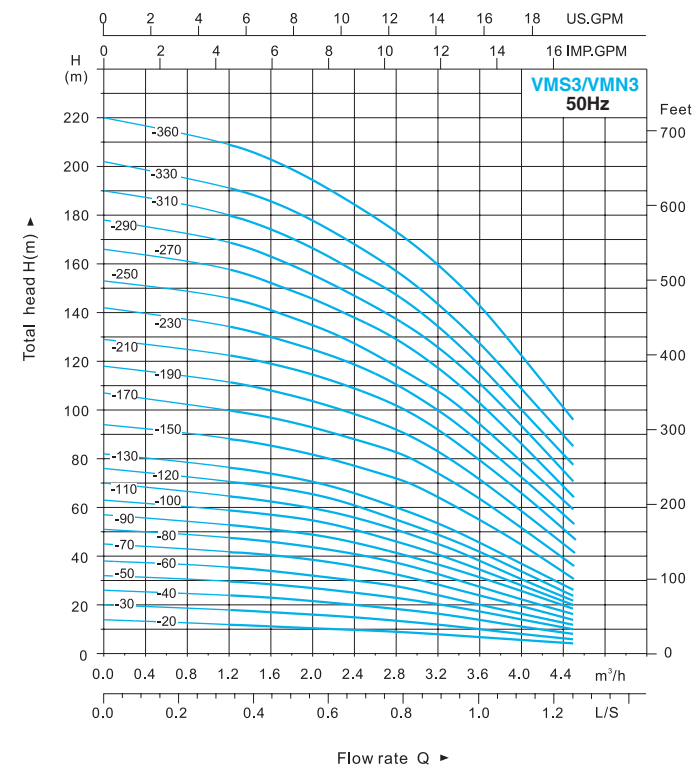


PERFORMANCE CHART AT n=2900 r/min



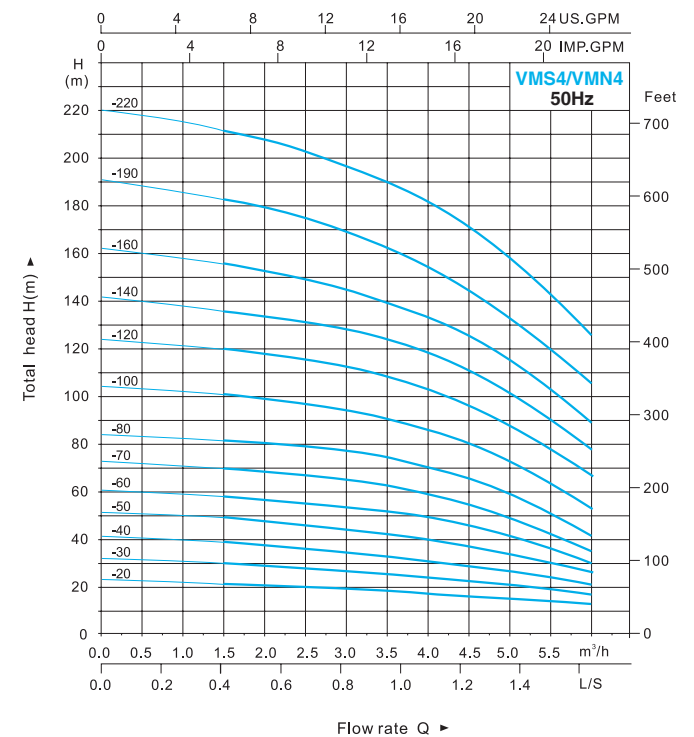
MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS3/VMN3-20	0.37	20
VMS3/VMN3-30	0.37	20
VMS3/VMN3-40	0.37	20
VMS3/VMN3-50	0.37	20
VMS3/VMN3-60	0.55	22
VMS3/VMN3-70	0.55	22
VMS3/VMN3-80	0.75	22
VMS3/VMN3-90	0.75	22
VMS3/VMN3-100	0.75	22
VMS3/VMN3-110	1.1	25
VMS3/VMN3-120	1.1	25
VMS3/VMN3-130	1.1	25
VMS3/VMN3-150	1.1	25
VMS3/VMN3-170	1.5	30
VMS3/VMN3-190	1.5	35
VMS3/VMN3-210	2.2	35
VMS3/VMN3-230	2.2	40
VMS3/VMN3-250	2.2	40
VMS3/VMN3-270	2.2	40
VMS3/VMN3-290	2.2	40
VMS3/VMN3-310	3.0	45
VMS3/VMN3-330	3.0	50
VMS3/VMN3-360	3.0	50

PERFORMANCE CHART AT n=2900 r/min



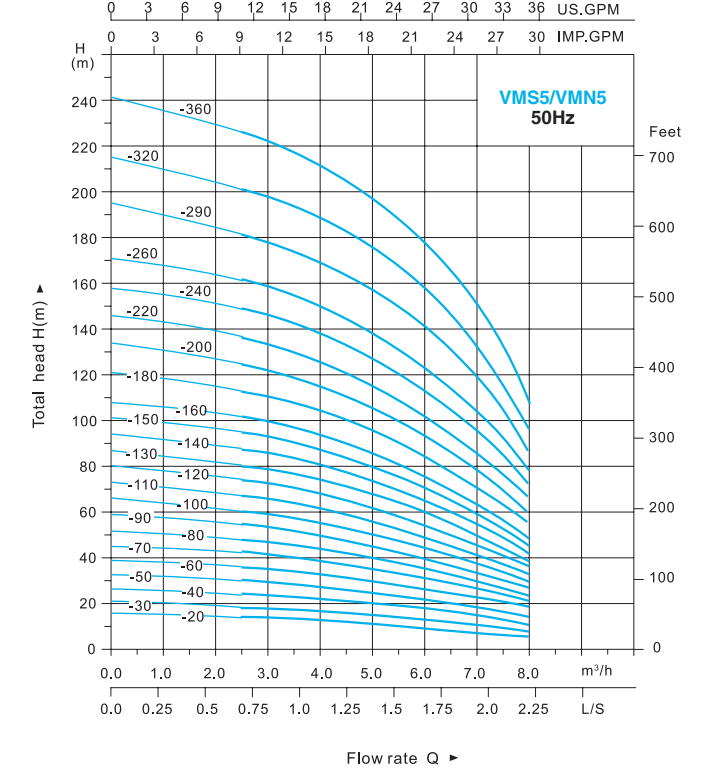
MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS4/VMN4-20	0.37	22
VMS4/VMN4-30	0.55	22
VMS4/VMN4-40	0.75	22
VMS4/VMN4-50	1.1	32
VMS4/VMN4-60	1.1	32
VMS4/VMN4-70	1.5	32
VMS4/VMN4-80	1.5	32
VMS4/VMN4-100	2.2	36
VMS4/VMN4-120	2.2	36
VMS4/VMN4-140	3.0	44
VMS4/VMN4-160	3.0	44
VMS4/VMN4-190	4.0	51
VMS4/VMN4-220	4.0	51

PERFORMANCE CHART AT n=2900 r/min



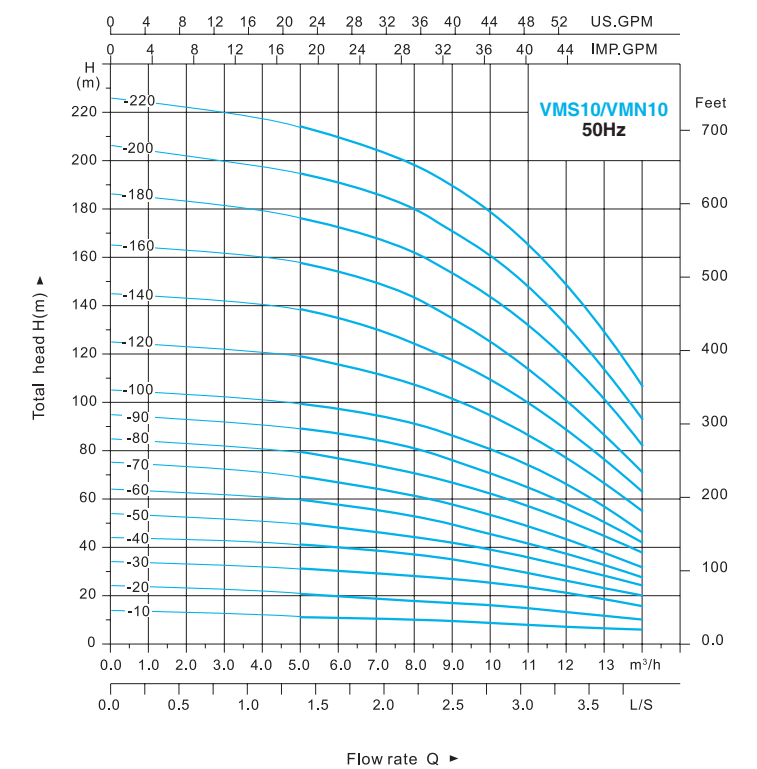
MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS5/VMN5-20	0.37	21
VMS5/VMN5-30	0.55	21
VMS5/VMN5-40	0.55	22
VMS5/VMN5-50	0.75	24
VMS5/VMN5-60	1.1	27
VMS5/VMN5-70	1.1	28
VMS5/VMN5-80	1.1	29
VMS5/VMN5-90	1.5	35
VMS5/VMN5-100	1.5	36
VMS5/VMN5-110	2.2	37
VMS5/VMN5-120	2.2	38
VMS5/VMN5-130	2.2	39
VMS5/VMN5-140	2.2	40
VMS5/VMN5-150	2.2	41
VMS5/VMN5-160	2.2	42
VMS5/VMN5-180	3.0	45
VMS5/VMN5-200	3.0	46
VMS5/VMN5-220	4.0	58
VMS5/VMN5-240	4.0	59
VMS5/VMN5-260	4.0	61
VMS5/VMN5-290	4.0	63
VMS5/VMN5-320	5.5	78
VMS5/VMN5-360	5.5	80

PERFORMANCE CHART AT n=2900 r/min



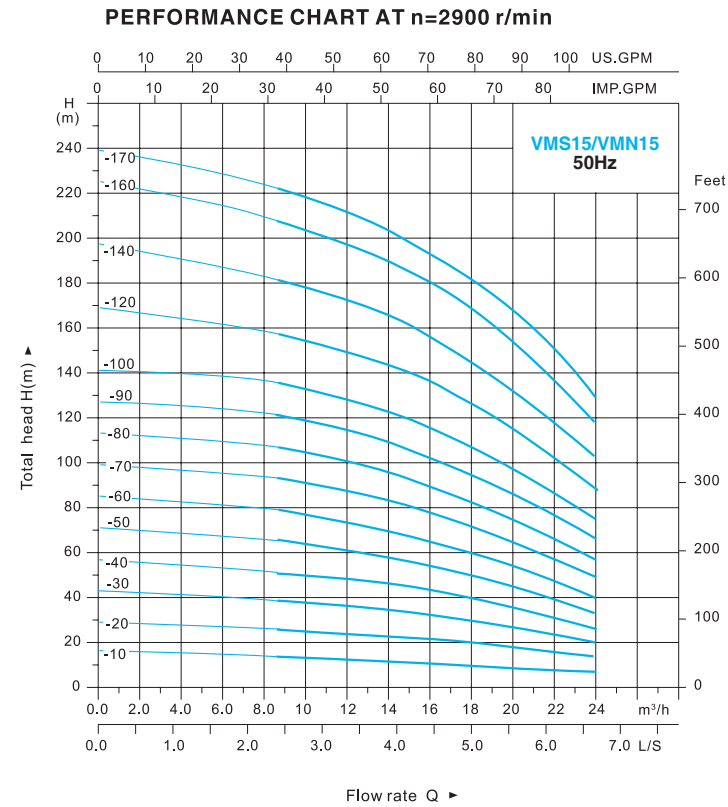
MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS10/VMN10-10	0.37	33
VMS10/VMN10-20	0.75	35
VMS10/VMN10-30	1.1	38
VMS10/VMN10-40	1.5	45
VMS10/VMN10-50	2.2	48
VMS10/VMN10-60	2.2	50
VMS10/VMN10-70	3.0	55
VMS10/VMN10-80	3.0	56
VMS10/VMN10-90	3.0	57
VMS10/VMN10-100	4.0	60
VMS10/VMN10-120	4.0	63
VMS10/VMN10-140	5.5	93
VMS10/VMN10-160	5.5	95
VMS10/VMN10-180	7.5	120
VMS10/VMN10-200	7.5	123
VMS10/VMN10-220	7.5	125

PERFORMANCE CHART AT n=2900 r/min

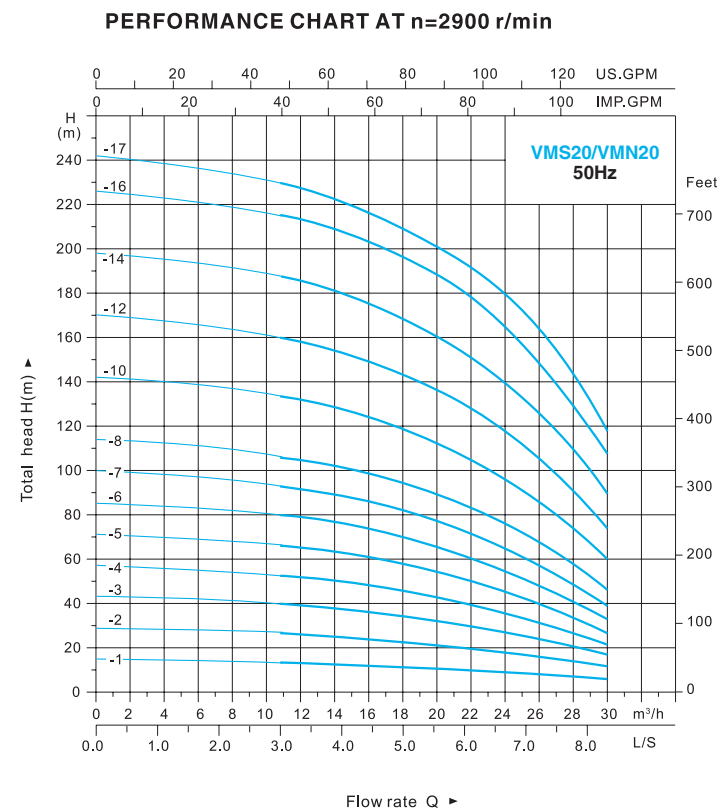




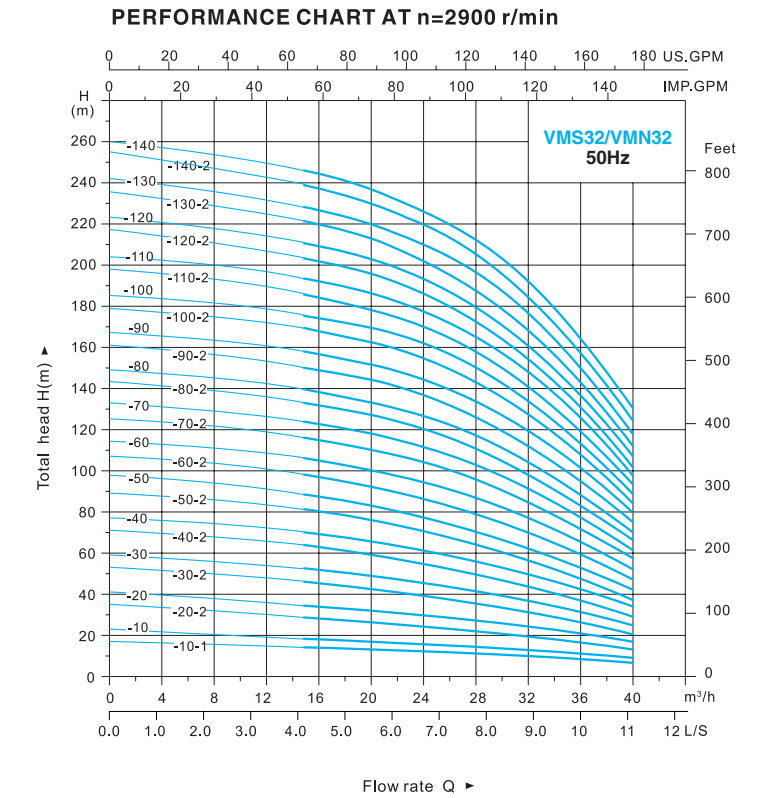
MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS15/VMN15-10	1.1	40
VMS15/VMN15-20	2.2	45
VMS15/VMN15-30	3.0	50
VMS15/VMN15-40	4.0	55
VMS15/VMN15-50	4.0	58
VMS15/VMN15-60	5.5	90
VMS15/VMN15-70	5.5	93
VMS15/VMN15-80	7.5	97
VMS15/VMN15-90	7.5	98
VMS15/VMN15-100	11	140
VMS15/VMN15-120	11	144
VMS15/VMN15-140	11	147
VMS15/VMN15-160	15	148
VMS15/VMN15-170	15	160



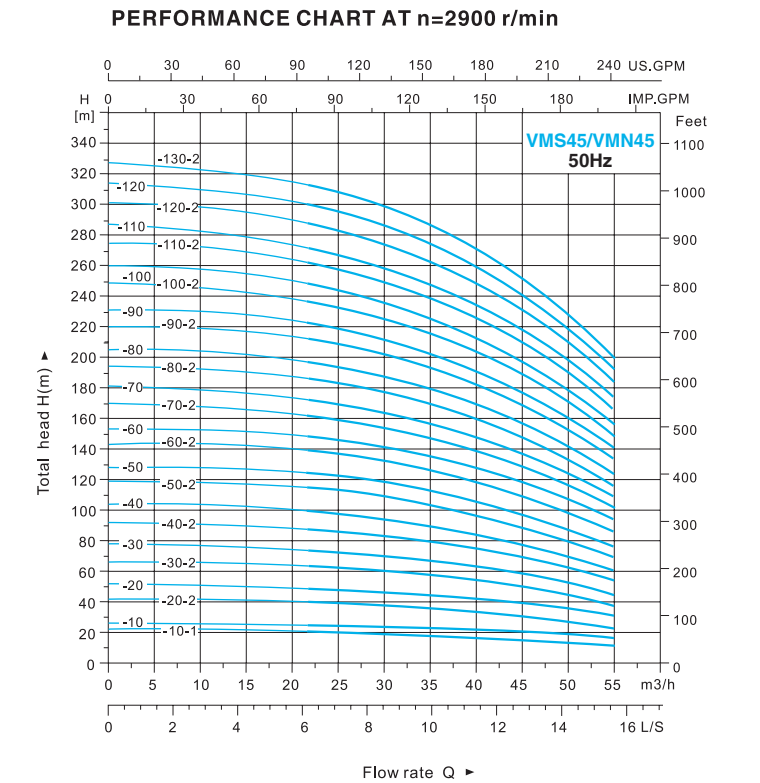
MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS20/VMN20-10	1.1	32
VMS20/VMN20-20	2.2	43
VMS20/VMN20-30	4.0	57
VMS20/VMN20-40	5.5	72
VMS20/VMN20-50	5.5	74
VMS20/VMN20-60	7.5	82
VMS20/VMN20-70	7.5	84
VMS20/VMN20-80	11	140
VMS20/VMN20-100	11	145
VMS20/VMN20-120	15	160
VMS20/VMN20-140	15	165
VMS20/VMN20-160	18.5	168
VMS20/VMN20-170	18.5	190



MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS32/VMN32-10-1	1.5	60
VMS32/VMN32-10	2.2	61
VMS32/VMN32-20-2	3.0	75
VMS32/VMN32-20	4.0	86
VMS32/VMN32-30-2	4.0	105
VMS32/VMN32-30	5.5	105
VMS32/VMN32-40-2	7.5	116
VMS32/VMN32-40	7.5	117
VMS32/VMN32-50-2	11	170
VMS32/VMN32-50	11	171
VMS32/VMN32-60-2	11	176
VMS32/VMN32-60	11	176
VMS32/VMN32-70-2	15	206
VMS32/VMN32-70	15	207
VMS32/VMN32-80-2	15	208
VMS32/VMN32-80	15	209
VMS32/VMN32-90-2	18.5	225
VMS32/VMN32-90	18.5	226
VMS32/VMN32-100-2	18.5	230
VMS32/VMN32-100	18.5	231
VMS32/VMN32-110-2	22	270
VMS32/VMN32-110	22	271
VMS32/VMN32-120-2	22	275
VMS32/VMN32-120	22	276
VMS32/VMN32-130-2	30	395
VMS32/VMN32-130	30	395
VMS32/VMN32-140-2	30	400
VMS32/VMN32-140	30	400

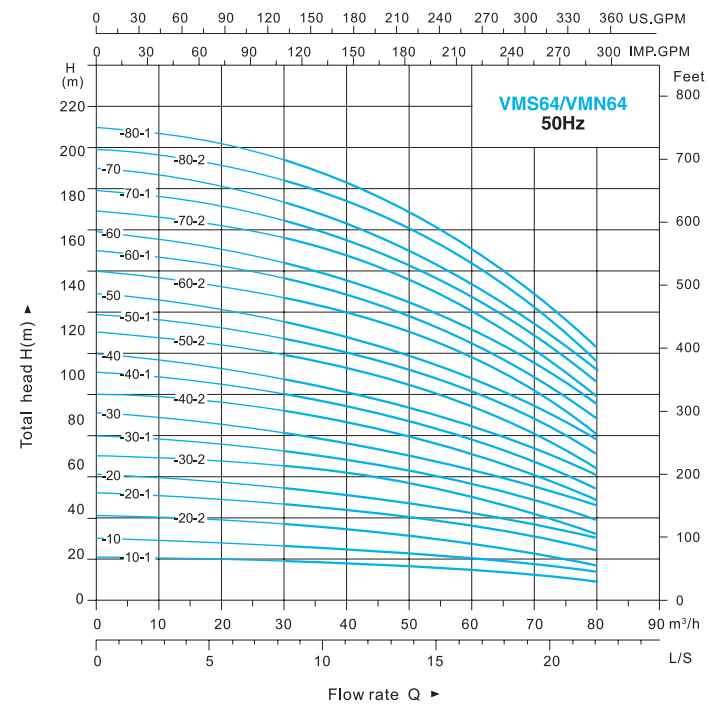


MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS45/VMN45-10-1	3.0	86
VMS45/VMN45-10	4.0	86
VMS45/VMN45-20-2	5.5	102
VMS45/VMN45-20	7.5	102
VMS45/VMN45-30-2	11	175
VMS45/VMN45-30	11	175
VMS45/VMN45-40-2	15	187
VMS45/VMN45-40	15	187
VMS45/VMN45-50-2	18.5	208
VMS45/VMN45-50	18.5	208
VMS45/VMN45-60-2	22	251
VMS45/VMN45-60	22	251
VMS45/VMN45-70-2	30	315
VMS45/VMN45-70	30	315
VMS45/VMN45-80-2	30	319
VMS45/VMN45-80	30	319
VMS45/VMN45-90-2	30	323
VMS45/VMN45-90	37	323
VMS45/VMN45-100-2	37	347
VMS45/VMN45-100	37	347
VMS45/VMN45-110-2	45	413
VMS45/VMN45-110	45	413
VMS45/VMN45-120-2	45	417
VMS45/VMN45-120	45	417
VMS45/VMN45-130-2	45	421

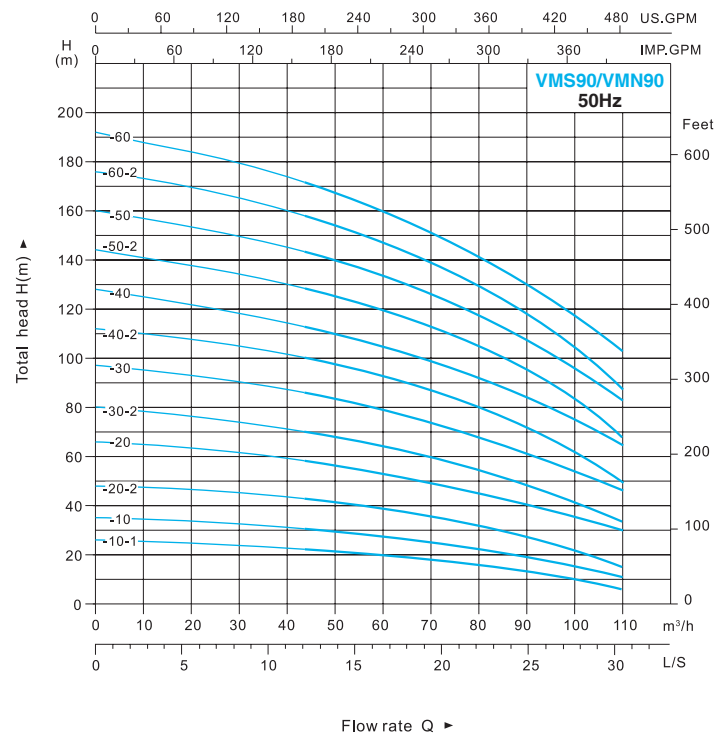


MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS64/VMN64-10-1	4.0	105
VMS64/VMN64-10	5.5	110
VMS64/VMN64-20-2	7.5	120
VMS64/VMN64-20-1	11	155
VMS64/VMN64-20	11	155
VMS64/VMN64-30-2	15	195
VMS64/VMN64-30-1	15	195
VMS64/VMN64-30	18.5	205
VMS64/VMN64-40-2	18.5	208
VMS64/VMN64-40-1	22	260
VMS64/VMN64-40	22	260
VMS64/VMN64-50-2	30	345
VMS64/VMN64-50-1	30	345
VMS64/VMN64-50	30	345
VMS64/VMN64-60-2	30	350
VMS64/VMN64-60-1	37	370
VMS64/VMN64-60	37	370
VMS64/VMN64-70-2	37	375
VMS64/VMN64-70-1	37	375
VMS64/VMN64-70	45	435
VMS64/VMN64-80-2	45	440
VMS64/VMN64-80-1	45	440

PERFORMANCE CHART AT n=2900 r/min



PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER(P2) (KW)	WEIGHT (kg)
VMS90/VMN90-10-1	5.5	120
VMS90/VMN90-10	7.5	122
VMS90/VMN90-20-2	11	165
VMS90/VMN90-20	15	198
VMS90/VMN90-30-2	18.5	212
VMS90/VMN90-30	22	265
VMS90/VMN90-40-2	30	348
VMS90/VMN90-40	30	348
VMS90/VMN90-50-2	37	375
VMS90/VMN90-50	37	375
VMS90/VMN90-60-2	45	438
VMS90/VMN90-60	45	438

## Surface Pump





# CM/CXA

## Standardized Centrifugal Pump

### Operating Limits:

- Max. operating pressure: 12 bar
- Head up to 95m
- Liquid temperature up to +105°C
- Max. ambient temperature: 40°C
- Max. altitude: 1000m

### Motor:

- Three phase induction motor
- Insulation Class B
- Protection IPX4
- Continuous duty
- Standard voltage:
  - Three-phase: 220/380-50Hz up to 3KW(4HP)
  - 380/660V-50Hz from 4KW(5.5HP) to 37KW(50HP)

### Material:

- Pump body: Cast Iron/ Stainless Steel
- Impeller: Cast Iron
- Motor Shaft: Stainless Steel
- Mechanical seal: SiC/Graphite
- Motor housing: Cast Iron

### Application:

- Circulation and transfer of clean, chemical non-aggressive water and other liquids
- Water supply & irrigation
- Water circulation in air conditioning systems



CM



CXA

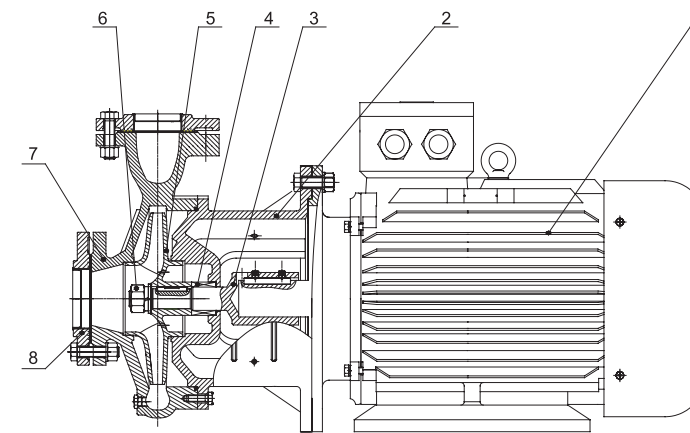
# CM/CXA

## Standardized Centrifugal Pump

### Application:

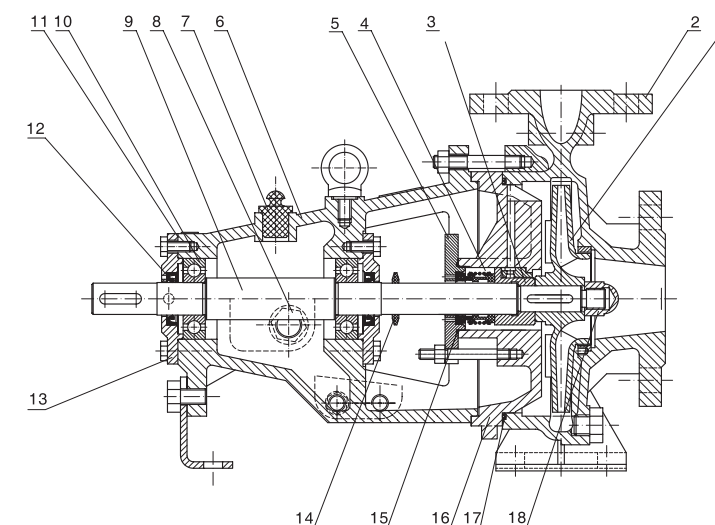
- Single-impeller centrifugal pump featuring axial intake and radial discharge
- Inlet and outlet DN in compliance with EN 733 (ex DIN 24255) and UNI 7467
- Flanges in compliance with UNI 2236 and DIN 2532
- Rear entry (impeller, control valve and motor can be extracted without disconnecting the pump body from the pipes.)

### Material CM:



NO.	NAME	MATERIAL
1	Motor	
2	Support	HT 200
3	Pump Shaft	Steel/AISI 304
4	Mechanical Seal	Carbon/Silicon carbide
5	Impeller	HT 200/Stainless Steel
6	Nut	AISI 304
7	Pump Body	HT 200
8	Flange	HT 200

### Material CXA:



NO.	NAME	MATERIAL
1	Impeller	Cast iron
2	Pump body	Cast iron
3	Padding seal cover	HT200
4	Mechanical seal	SiC/Graphite
5	Seal cover	HT200
6	Support	HT200
7	Oil plug	Plastic
8	Oil level mirror	Plastic
9	Shaft	Stainless steel
10	Bearing	
11	Gasket	
12	Skeleton oil seal	
13	Back cover	HT200
14	Slinger	Plastic
15	O-ring	NBR
16	Pump cover	HT200
17	O-ring	NBR
18	Impeller nut	Carbon steel













**Operating Limits:**

- Normal temperature: +15°C~+70°C
- Hot water type: +70°C~104°C
- Max. ambient temperature: ≤50°C
- Max. operating pressure: 1.0MPa

**Materials:**

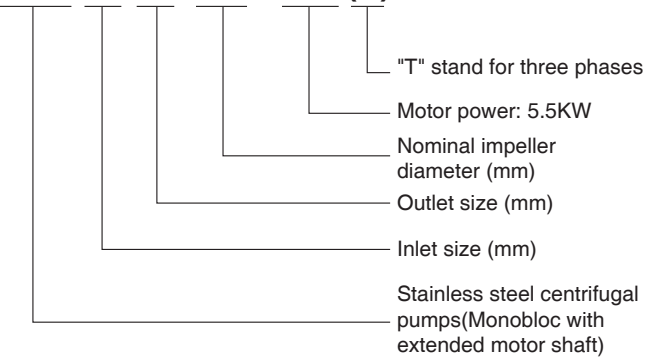
- Pump case adopt new manufacture technical as hydroforming, a volute fluid-flow design to achieve more efficiency.
- Low noise standard motor. With high-quality mechanical seal.
- Motor drawn out from pump design is easy for taking off the impeller without piping removal.
- Single phase motor mounted thermal protector (three-phase motor can be based on customer requirements to install thermal protector).
- CCA series with a lengthening shaft motor
- Standard DIN flange connection
- Insulation class: F
- Protection IP55

**Applications:**

- Civil, agricultural and Industrial water supplying system.
- Making wine and food system
- Central heating and airconditioner system
- Main pipe pressurizing and cooling tower
- Convery weak corrosive liquid
- Swimming pool system, drainage system, farmland irrigation system

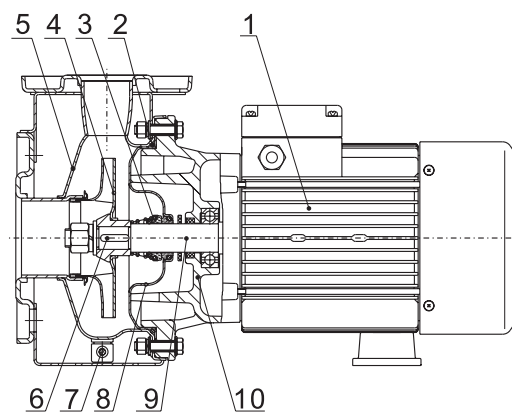
**Connotation of the Type:**

**CCA 65-50-160 / 5.5 (T)**



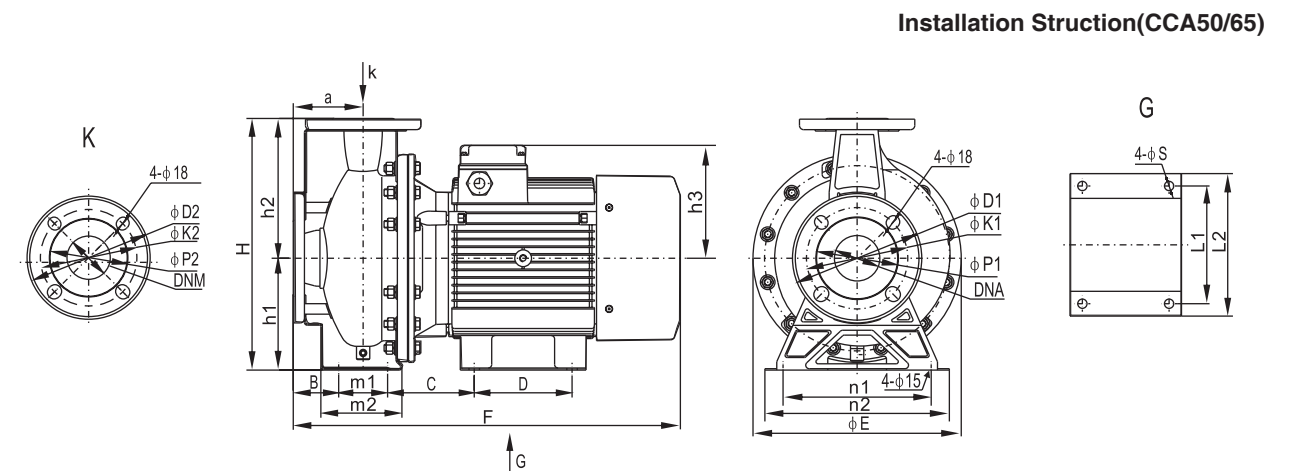
CCA65-50-160/5.5

**Structure Diagram:**



NO.	NAME	NO.	NAME	NO.	NAME	NO.	NAME
1	Motor	4	Impeller	7	Drainage	10	Former Swiss
2	O-ring	5	Pump body	8	Pump cover	11	Locking screw
3	Mechanical seal	6	Flat key	9	Pump shaft		

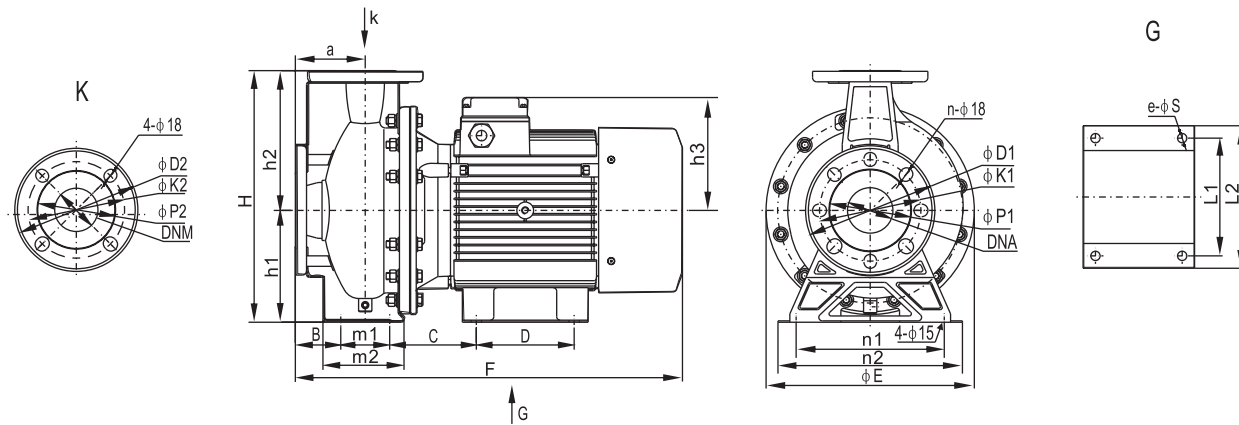
**Installation Dimensions**



MODEL	Power P <sub>2</sub> (kW)	φ E	F	H	h1	h2	h3	a	m1	m2	n1	n2	B	C	D	φ S	L1	L2	φ D1	φ k1	φ P1	φ D2	φ K2	φ P2	DNA	DNM
CCA50-32-160/1.1(T)	1.1	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	165	125	96	140	100	76	50	32
CCA50-32-160/1.5(T)	1.5	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	165	125	96	140	100	76	50	32
CCA50-32-160/2.2(T)	2.2	210	428	255	112	143	119	80	70	115	160	190	45	111	100	12	160	190	165	125	96	140	100	76	50	32
CCA50-32-200/3.0(T)	3.0	300	460	340	160	180	119	80	70	118	190	240	45	109	100	12	160	190	165	125	96	140	100	76	50	32
CCA50-32-200/4.0(T)	4.0	300	498	340	160	180	142	80	70	118	190	240	45	114	140	15	190	225	165	125	96	140	100	76	50	32
CCA50-32-200/5.5(T)	5.5	300	532	340	160	180	162	80	70	118	190	240	45	122	140	15	190	230	165	125	96	140	100	76	50	32
CCA50-32-200/7.5(T)	7.5	300	550	340	160	180	162	80	70	118	190	240	45	122	140	15	190	230	165	125	96	140	100	76	50	32
CCA65-40-125/1.5(T)	1.5	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	185	145	115	150	110	80	65	40
CCA65-40-125/2.2(T)	2.2	210	425	255	112	143	119	80	70	115	160	190	45	110	100	12	160	190	185	145	115	150	110	80	65	40
CCA65-40-125/3.0(T)	3.0	250	460	292	132	160	119	80	70	118	190	240	45	115	100	12	160	190	185	145	115	150	110	80	65	40
CCA65-40-160/4.0(T)	4.0	250	498	292	132	160	142	80	70	118	190	240	45	114	140	15	190	225	185	145	115	150	110	80	65	40
CCA65-40-200/5.5(T)	5.5	300	554	360	160	200	162	100	70	118	212	264	65	124	140	15	190	230	185	145	115	150	110	80	65	40
CCA65-40-200/7.5(T)	7.5	300	592	360	160	200	162	100	70	118	212	264	65	124	140	15	190	230	185	145	115	150	110	80	65	40
CCA65-40-200/11(T)	11	300	623	360	160	200	179	100	70	118	212	264	65	161	140	15	216	255	185	145	115	150	110	80	65	40
CCA65-50-125/3.0(T)	3.0	250	455	292	132	160	119	80	70	115	190	240	45	110	100	12	160	190	185	145	115	165	125	96	65	50
CCA65-50-125/4.0(T)	4.0	250	498	292	132	160	142	80	70	115	190	240	45	115	140	15	190	225	185	145	115	165	125	96	65	50
CCA65-50-160/5.5(T)	5.5	300	554	360	160	200	162	100	70	118	212	264	65	124	140	15	190	230	185	145	115	165	125	96	65	50
CCA65-50-200/7.5(T)	7.5	300	592	360	160	200	162	100	70	118	212	264	65	124	140	15	190	230	185	145	115	165	125	96	65	50
CCA65-50-200/9.2(T)	9.2	350	623	360	160	200	179	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50
CCA65-50-200/11(T)	11	350	623	360	160	200	179	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50
CCA65-50-200/15(T)	15	350	665	360	160	200	179	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50
CCA65-50-200/18.5(T)	18.5	350	725	360	160	200	255	100	70	118	212	264	65	147	254	15	254	320	185	145	115	165	125	96	65	50

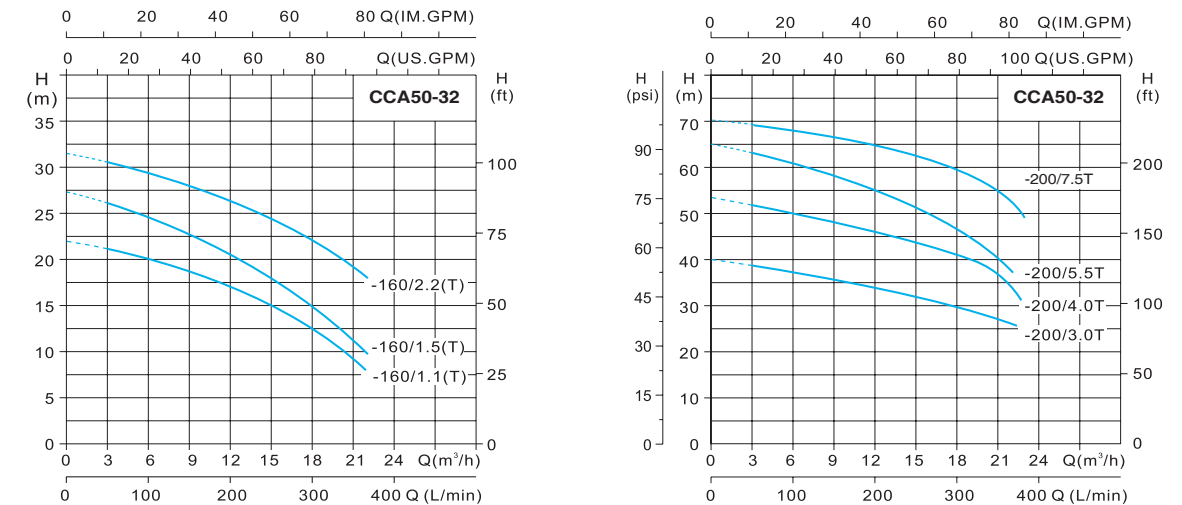


Installation Struction(CCA80/100)

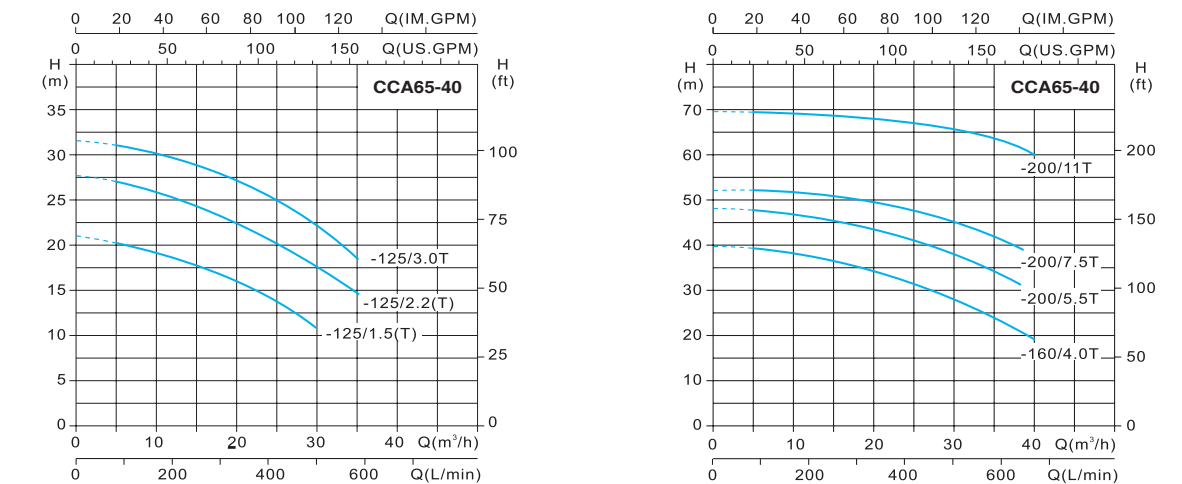


MODEL	Power P <sub>2</sub> (kW)	φ E	F	H	h1	h2	h3	a	m1	m2	n1	n2	B	C	D	e-φS	L1	L2	φD1	φK1	φP1	φD2	φK2	φP2	n	DNA	DNM
CCA 80-65-125/4(T)	4.0	256	514	340	160	180	162	100	95	152	212	250	53	105	140	4-φ15	190	230	200	160	132	185	145	115	4	80	65
CCA 80-65-125/5.5(T)	5.5	256	530	340	160	180	162	100	95	152	212	250	53	113	140	4-φ15	190	230	200	160	132	185	145	115	4	80	65
CCA 80-65-125/7.5(T)	7.5	256	568	340	160	180	162	100	95	152	212	250	53	113	140	4-φ15	190	230	200	160	132	185	145	115	4	80	65
CCA 80-65-125/9.2(T)	9.2	256	636	340	160	180	179	100	95	152	212	250	53	175	140	4-φ15	216	255	200	160	132	185	145	115	4	80	65
CCA 80-65-160/11(T)	11	300	620	360	160	200	179	100	95	152	212	250	53	152	140	4-φ15	216	255	200	160	132	185	145	115	4	80	65
CCA 80-65-160/15(T)	15	300	662	292	160	200	179	100	95	152	212	250	53	152	140	4-φ15	216	255	200	160	132	185	145	115	4	80	65
CCA 80-65-200/18.5(T)	18.5	350	748	405	180	225	255	100	95	148	250	290	53	456	—	2-φ15	254	320	200	160	132	185	145	115	4	80	65
CCA 80-65-200/22(T)	22	356	776	405	180	225	275	100	95	148	250	290	53	169	241	4-φ15	279	355	200	160	132	185	145	115	4	80	65
CCA 80-65-200/30(T)	30	400	844	425	200	225	308	100	95	148	250	290	53	177	305	4-φ18.5	318	386	200	160	132	185	145	115	4	80	65
CCA 100-80-160/11(T)	11	256	669	405	180	225	179	125	95	176	250	290	78	183	140	4-φ15	216	255	220	180	152	200	160	132	8	100	80
CCA 100-80-160/15(T)	15	256	711	405	180	225	179	125	95	176	250	290	78	183	140	4-φ15	216	255	220	180	152	200	160	132	8	100	80
CCA 100-80-160/18.5(T)	18.5	350	769	405	180	225	255	125	95	176	250	290	78	452	—	2-φ15	254	320	220	180	152	200	160	132	8	100	80
CCA 100-80-200/22(T)	22	356	811	430	180	250	275	125	95	176	280	320	78	180	241	4-φ15	279	355	220	180	152	200	160	132	8	100	80
CCA 100-80-200/30(T)	30	400	880	450	200	250	308	125	95	176	280	320	78	188	305	4-φ18.5	318	386	220	180	152	200	160	132	8	100	80
CCA 100-80-200/37(T)	37	400	880	450	200	250	308	125	95	176	280	320	78	188	305	4-φ18.5	318	386	220	180	152	200	160	132	8	100	80

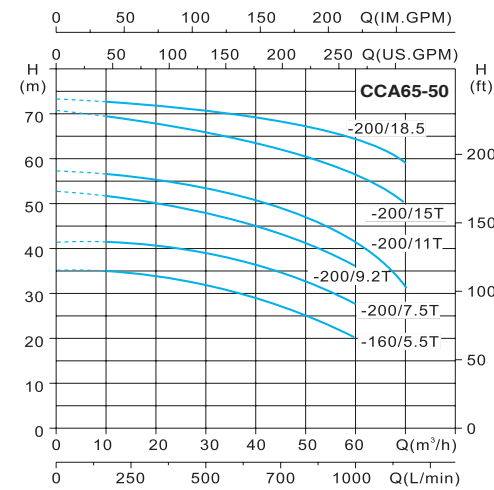
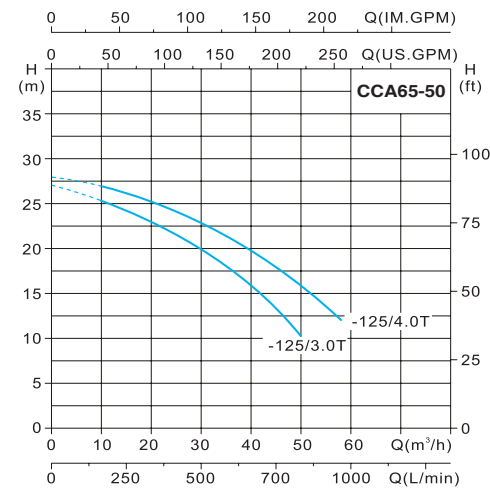
PERFORMANCE CURVE (n=2900r/min)



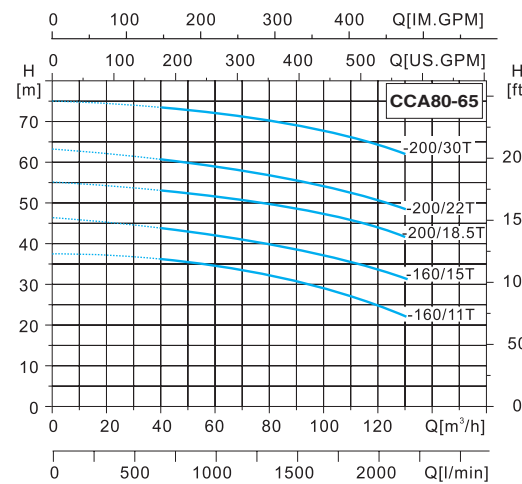
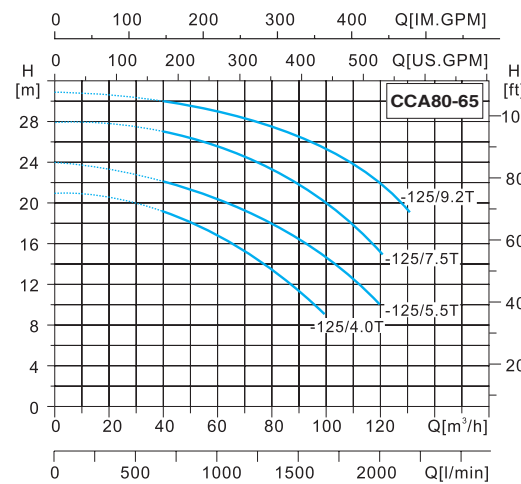
MODEL	POWER(P2) (kW)	Q (m <sup>3</sup> /h)	3	6	9	12.5	15	18	20	22
CCA50-32-160/1.1(T)	1.1	H (m)	21	20	18.5	16.5	15	12.5	10	8
CCA50-32-160/1.5(T)	1.5		26	24.5	22.5	20	18.5	15	12.5	9.5
CCA50-32-160/2.2(T)	2.2		30.5	29.5	27.5	26	24	22.5	20.5	18
CCA50-32-200/3.0T	3.0		38	37	35	34	32	30	28	26
CCA50-32-200/4.0T	4.0		51.5	50	48	45	43	41	39	30
CCA50-32-200/5.5T	5.5		62	60	58	54	52	47	42	37
CCA50-32-200/7.5T	7.5		67	65	64	62	60.5	58.5	57	55



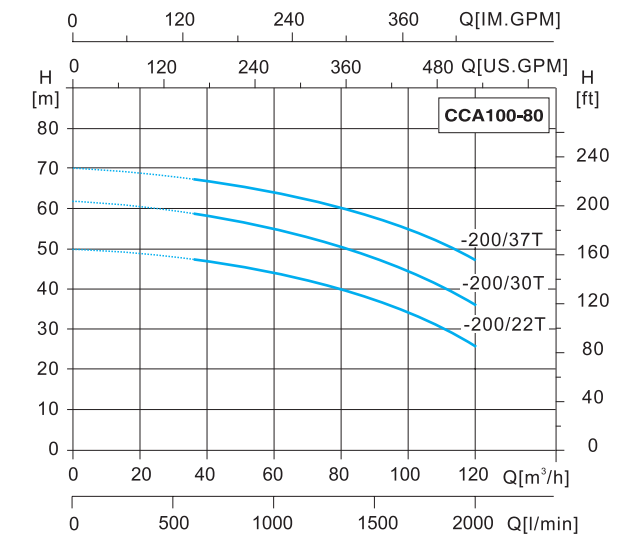
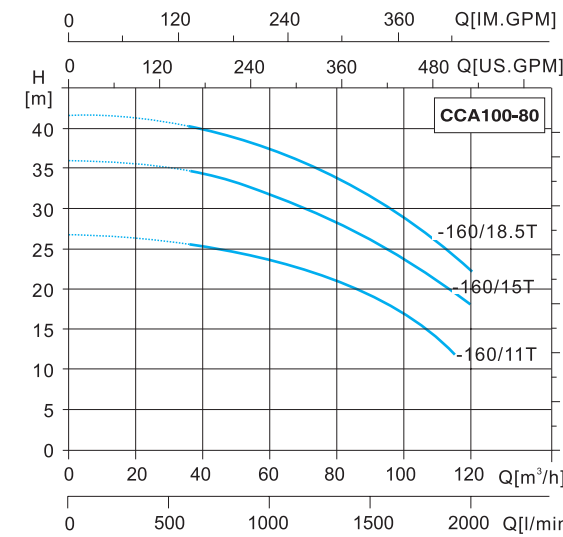
MODEL	POWER(P2) (kW)	Q (m <sup>3</sup> /h)	5	10	15	20	25	30	35	40
CCA65-40-125/1.5(T)	1.5	H (m)	20	19	17.5	16	13	10.5	—	—
CCA65-40-125/2.2(T)	2.2		27	26	24	22	20	17	14	—
CCA65-40-125/3.0T	3.0		31	30	29	27	25	22	18	—
CCA65-40-160/4.0T	4.0		39	38	36.5	34	31	28	24	19
CCA65-40-200/5.5T	5.5		47	46	45.5	44	41	38	34	30
CCA65-40-200/7.5T	7.5		52	51.5	51	50	48	45	42	38
CCA65-40-200/11T	11		69	69	68.5	68	68	66	64	60



MODEL	POWER(P2) (KW)	Q (m³/h)	5	10	20	30	40	50	60	70
CCA65-50-125/3.0T	3.0	H (m)	27	26	23	20	16	10	-	-
CCA65-50-125/4.0T	4.0		28	27	26	24	21	16	-	-
CCA65-50-160/5.5T	5.5		34.5	34.5	34	31.5	28.5	24	20	-
CCA65-50-200/7.5T	7.5		41	41	40.5	39	36	32	27.5	-
CCA65-50-200/9.2T	9.2		52	52	51	49	45	41	37	-
CCA65-50-200/11T	11		57	56	55	53	51	48	42	30
CCA65-50-200/15T	15		69	68	67	65	64	62	57	50
CCA65-50-200/18.5T	18.5		73	72	71	70	69	68	65	59



MODEL	POWER(P2) (KW)	Q (m³/h)	40	50	60	70	80	90	100	110	120	130
CCA80-65-125/4.0T	4.0	H (m)	19	18	17	15	13	11	9	-	-	-
CCA80-65-125/5.5T	5.5		22	21	20	19	18	17	15	13	10	-
CCA80-65-125/7.5T	7.5		27	26	25	24	23	22	20	18	15	-
CCA80-65-125/9.2T	9.2		30	29	29	28	27	26	25	23	22	19
CCA80-65-160/11T	11		36	35	34	33	32	31	29	27	25	22
CCA80-65-160/15T	15		44	43	42	40	39	38	37	36	34	32
CCA80-65-200/18.5T	18.5		53	52	51	50	49	48	47	45	44	41
CCA80-65-200/22T	22		60	59	58	57	56	55	54	53	51	49
CCA80-65-200/30T	30		72	72	71	70	69	68	67	66	65	63



MODEL	POWER(P2) (KW)	Q (m³/h)	40	50	60	70	80	90	100	110	120
CCA100-80-160/11T	11	H (m)	26	25	23	22	20	17	14	11	-
CCA100-80-160/15T	15		35	33	31	29	27	24	21	20	18
CCA100-80-160/18.5T	18.5		38	37	36	35	33	30	27	25	22
CCA100-80-200/22T	22		46	44	42	40	38	35	31	29	26
CCA100-80-200/30T	30		57	56	55	53	50	47	44	42	39
CCA100-80-200/37T	37		66	65	63	61	59	56	53	51	48



**Operating Limits:**

- Liquid temperature:
  - Normal temperature type +15°C~+70°C
  - Hot water type + 70°C ~105°C
- Max. ambient temperature: 40°C
- Max. operation pressure: 10 bar
- Max. inlet pressure is limited by Max. operation pressure
- Continuous duty

**Motor:**

- T.E.F.C. continuous duty
- Voltage: **50Hz:** 1x220~240V  
3x220~240V/380~415V
- **60Hz:** 1x220~240V  
3x220~240V/380~415V
- Insulation class: F
- Protection class: IP55
- Speed: 2900rpm
- Single-phase motor built in thermal protector

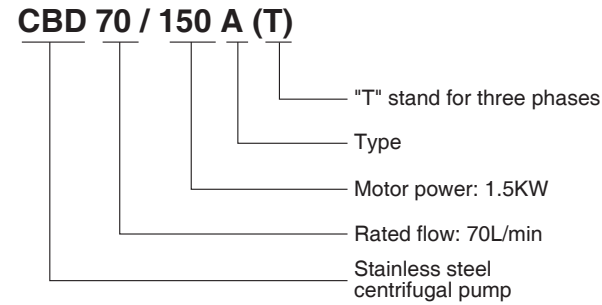
**Materials:**

- Pump body, back-cover, impeller, shaft and guide plate in AISI 304
- Bracket and motor casing: Aluminum
- Mechanical seal: Ceramic / Graphite / NBR

**Applications:**

- The pumps are suitable for transporting clean media which are non-aggressive to stainless steel AISI304 or AISI316.
- Water supply systems
  - Pressure boiler feeding
  - Pure water treating systems
  - Pharmaceutical & food stuff
  - Refining chemical industries
  - Washing and sprinkling

**Connotation of the Type:**

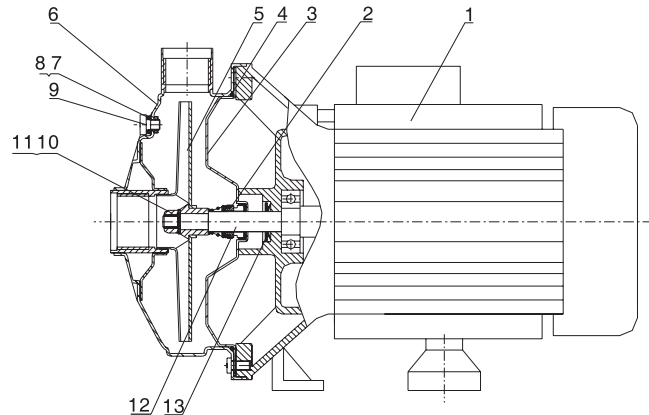


- CBD70/055A
- CBD70/075A
- CBD70/100A
- CBD120/075A
- CBD120/110A
- CBD120/150A
- CBD120/185A
- CBD200/110A
- CBD200/150A
- CBD200/185A
- CBD370/185A

CBD50/025A  
CBD50/037A

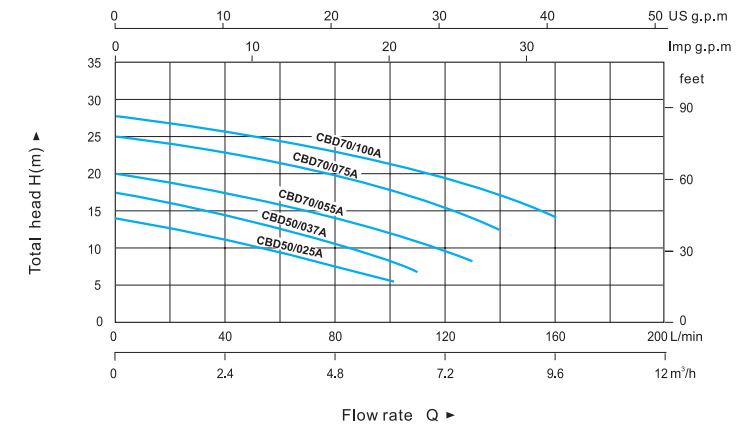
**Structure Diagram:**

**MATERIAL CBD**

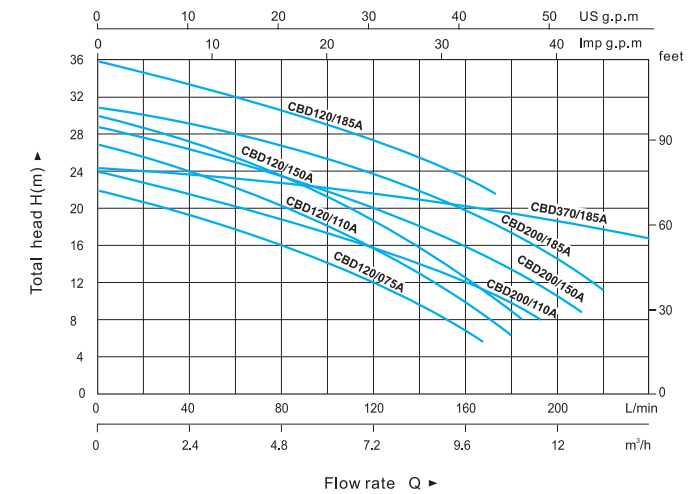


NO.	NAME	MATERIAL
1	Motor	
2	Mechanical seal	Cermic/Graphite/NBR
3	Back cover	Stainless steel AISI304
4	"O" ring	NBR
5	Impeller	Stainless steel AISI304
6	Pump body	Stainless steel AISI304
7	"O" ring	NBR
8	Washer	Stainless steel AISI304
9	Priming / Drain plug	Stainless steel AISI304
10	Impeller nut	Stainless steel AISI304
11	Spring washer	Stainless steel AISI304
12	Shaft	Stainless steel AISI304
13	Slinger	NBR

**PERFORMANCE CHART AT n=2900 r/min**



**PERFORMANCE CHART AT n=2900 r/min**



MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP						
CBD50/025A	CBD50/025AT	0.25	0.33	1¼"x1"	100	14	7	330x190x240	1800
CBD50/037A	CBD50/037AT	0.37	0.5	1¼"x1"	110	17	7.5	330x190x240	1800
CBD70/055A	CBD70/055AT	0.55	0.75	1¼"x1"	130	20	9.5	360x245x280	1140
CBD70/075A	CBD70/075AT	0.75	1	1¼"x1"	140	25	10.5	360x245x280	1140
CBD70/100A	CBD70/100AT	1.0	1.4	1¼"x1"	160	27	11	360x245x280	1140
CBD120/075A	CBD120/075AT	0.75	1	1¼"x1"	175	22	10.3	360x245x280	1140
CBD120/110A	CBD120/110AT	1.1	1.5	1¼"x1"	180	27	16	385x245x280	1070
CBD120/150A	CBD120/150AT	1.5	2	1¼"x1"	185	30	17	420x260x295	896
CBD120/185A	CBD120/185AT	1.85	2.5	1¼"x1"	170	36	18.5	420x260x295	896
CBD200/110A	CBD200/110AT	1.1	1.5	1¼"x1"	190	24	16	385x245x280	1070
CBD200/150A	CBD200/150AT	1.5	2	1½"x1"	210	29	19	420x260x295	1070
CBD200/185A	CBD200/185AT	1.85	2.5	1½"x1"	220	31	21	420x260x295	896
CBD370/185A	CBD370/185AT	1.85	2.5	2"x1½"	450	24	21.5	420x260x295	896

### Operating Limits:

- Normal temperature type +15°C~+70°C
- Max. ambient temperature: 40°C
- Max. operation pressure: 10 bar

### Motor:

- Motor: Permanent Magnet Brushless DC Motor(Without Hall)
- Controller: 32bit MCU / FOC / Sine Wave Current / MPPT
- Controller Shell: Die-cast Aluminum

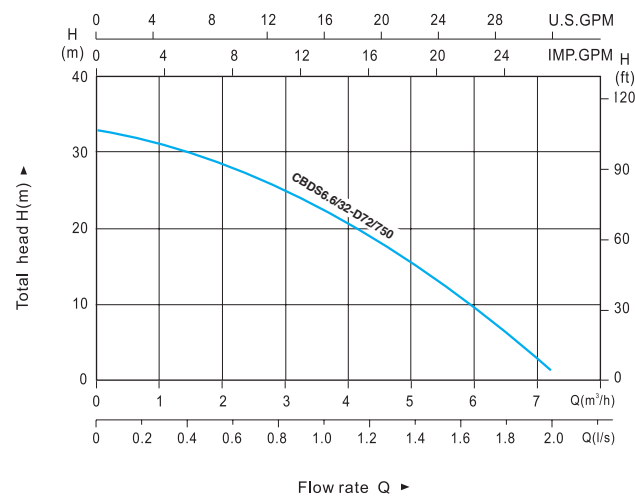
### Material:

- Inlet/Outlet: 304 Stainless Steel
- Pump Body: 304 Stainless Steel
- Impeller: 304 Stainless Steel
- Controller Shell: Die-cast Aluminum

### Application:

- The pumps are suitable for transporting clean media which are non-aggressive to stainless steel AISI304 or AISI316.
- Water supply systems
- Pressure boiler feeding
- Pure water treating systems
- Pharmaceutical & food stuff
- Refining chemical industries
- Washing and sprinkling

PERFORMANCE CHART AT DIFFRENT SPEED



MODEL	POWER P2(KW)	VOLTAGE (Vdc)	VOLTAGE RATE (Vdc)	MAX.FLOW (m³/h)	MAX.HEAD (m)	INLET/ OUTLET	MAX. SUCT (m)
CBDS6.6/32-D72/750	0.75	72	48-100	7.2	32	1¼"x1"	8

### Operating Limits:

- Liquid temperature:
  - Normal temperature type +15°C~+70°C
  - Hot water type + 70°C ~105°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Two-pole induction motor (n=2900 r/min)
- Insulation Class F
- Protection IP55

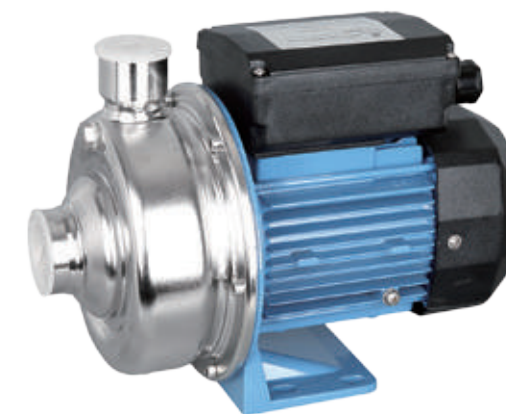
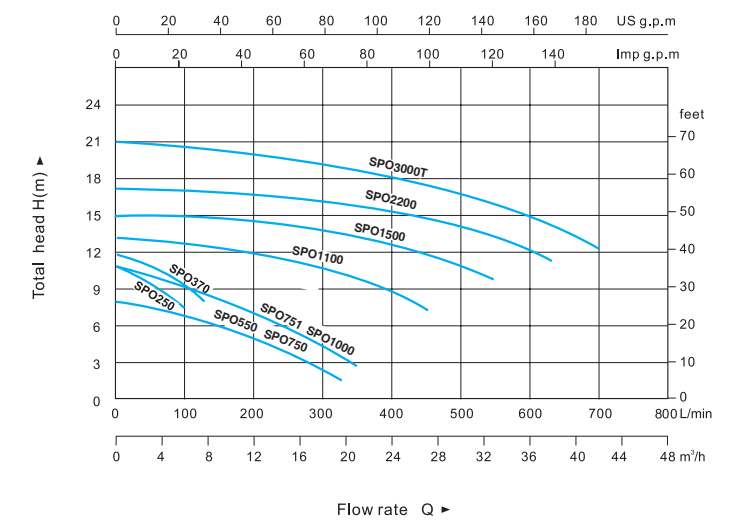
### Materials:

- Pump body, impeller, diffuser and casing cover in AISI 304 stainless steel
- Motor shaft: Stainless steel
- Mechanical seal: Ceramic / Graphite / NBR

### Applications:

- Open impeller centrifugal pumps with the hydraulic components manufactured from stainless steel AISI 304, suitable for suspended solids handling food process, e.g. bottles, jars, glasses and crates. Process applications such as painting plants and general dirty liquid handling.

PERFORMANCE CHART AT n=2900 r/min



Open Impeller



SPO250  
SPO370

SPO550  
SPO750  
SPO751  
SPO1000  
SPO1100  
SPO1500  
SPO2200  
SPO3000T

MODEL		POWER		INLET/ OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP						
SPO250	SPO250T	0.25	0.33	1¼"x1"	100	11	6.5	295x185x255	2010
SPO370	SPO370T	0.37	0.5	1¼"x1"	108	12	7	295x185x255	2010
SPO550	SPO550T	0.55	0.75	1½"x1½"	320	8	8	390x230x300	1077
SPO750	SPO750T	0.75	1	1½"x1½"	320	8	9	390x230x300	1077
SPO751	SPO751T	0.75	1	1½"x1½"	350	11	9.2	390x230x300	1077
SPO1000	SPO1000	1.0		1½"x1½"	350	11	11	390x230x300	1077
SPO1100	SPO1100T	1.1	1.5	2"x2"	450	13	16	410x210x325	1000
SPO1500	SPO1500T	1.5	2	2"x2"	550	15	17	410x210x325	1000
SPO2200	SPO2200T	2.2	3	2½"x2"	640	17	22	445x210x325	820
-	SPO3000T	3.0	4	2½"x2"	700	21	23	460x210x325	780



# SPC

## Stainless Steel Centrifugal Pump (Closed Impeller)

### Operating Limits:

- Liquid temperature:
  - Normal temperature type +15°C~+70°C
  - Hot water type + 70°C ~105°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

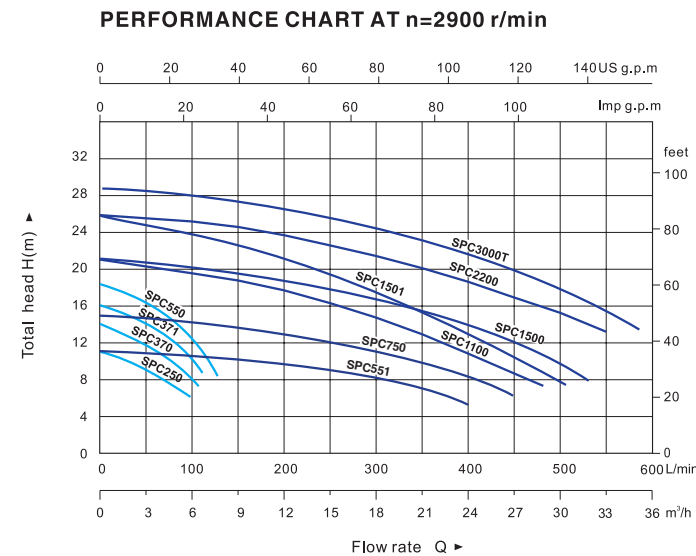
- Two-Pole induction motor (n=2900 r/min)
- Insulation Class F
- Protection IP55

### Materials:

- Pump body, impeller, diffuser and casing cover in AISI 304 stainless steel
- Motor shaft: Stainless steel
- Mechanical seal: Ceramic / Graphite / NBR

### Applications:

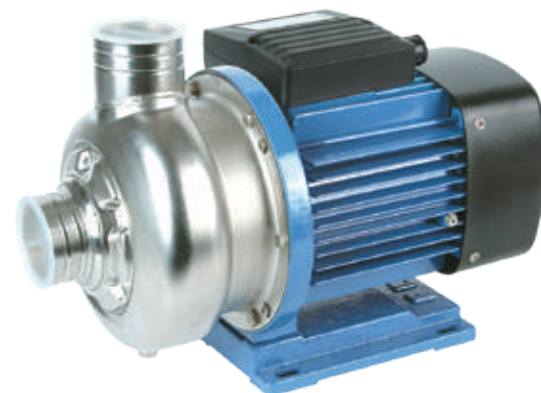
- This pump is suitable for water supply and general water pumping, refrigeration plants, conditioning and heating systems, cellars.



SPC250  
SPC370  
SPC371  
SPC550



Closed Impeller



SPC551  
SPC750  
SPC1100  
SPC1500  
SPC1501  
SPC2200  
SPC3000T

MODEL		POWER		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP						
SPC250	SPC250T	0.25	0.33	1½"x1"	100	11	7	295x185x255	2010
SPC370	SPC370T	0.37	0.5	1½"x1"	108	14	7.5	295x185x255	2010
SPC371	SPC371T	0.37	0.5	1½"x1"	110	16	7.5	295x185x255	2010
SPC550	SPC550T	0.55	0.75	1½"x1"	125	18	8	295x185x255	2010
SPC551	SPC551T	0.55	0.75	1½"x1½"	400	11	8.5	380x205x275	1300
SPC750	SPC750T	0.75	1	1½"x1½"	450	15	10	380x205x275	1300
SPC1100	SPC1100T	1.1	1.5	2"x2"	470	21	16.5	410x210x325	1000
SPC1500	SPC1500T	1.5	2	2"x2"	510	26	18	410x210x325	1000
SPC1501	SPC1501T	1.5	2	2"x2"	530	21	18	410x210x325	1000
SPC2200	SPC2200T	2.2	3	2"x2"	560	26	22	445x210x325	820
-	SPC3000T	3	4	2"x2"	590	29	23	460x210x325	780

# CJET

## Smart Self-priming Jet Pump

**NEW**

### Operating Conditions:

- The liquid temperature is as high as 80°C (including temperature protection function), the ambient temperature is as high as 40°C, and the maximum suction head distance is 9.5 meters.

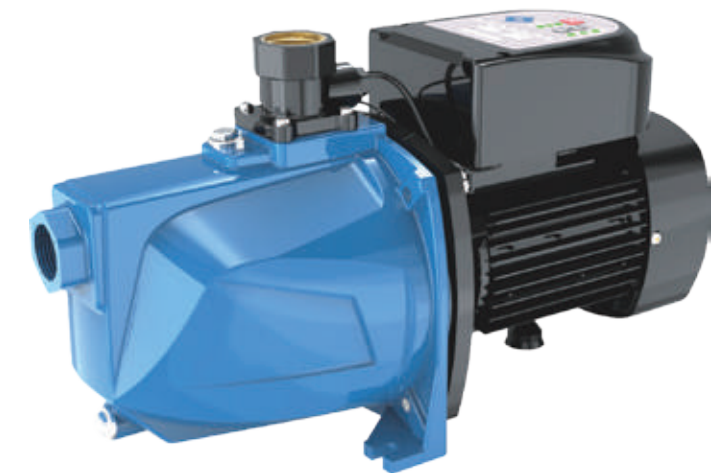
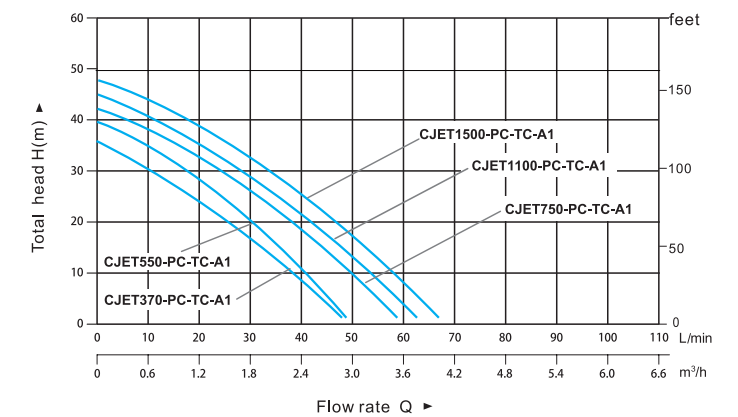
### Motor:

- Two-Pole induction motor(n=2900r/min)
- Insulation : Class F
- Protection: IP44
- Continuous service: S1
- Thermal protector
- Single-phase: 110-240V/50/60Hz

### Features:

- Linear pressure sensor is used to control the starting pressure of pump instead of traditional mechanical switch.
- Advanced flow control system.
- The functions of the pump include:
  1. Stepless pressure regulation
  2. Plug-and-play
  3. Intelligent overlapping
  4. Flow and pressure sensor control
  5. Water shortage protection
  6. Automatic opening of water supply
  7. Turn-off protection
  8. Electrophoresis rust prevention

PERFORMANCE CHART AT DIFFERENT MODEL



MODEL	POWER (P1)		INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	MAX. SUCT (m)	PACKING DIMENSION/UNIT (mm)
	KW	HP						
CJET370-PC-TC-A1	0.37	0.5	1" x 1"	110~240V 50/60Hz	35	2.8	9.5	480x200x278
CJET550-PC-TC-A1	0.55	0.75			40	3	9.5	480x200x278
CJET750-PC-TC-A1	0.75	1			42	3.6	9.5	480x200x278
CJET1100-PC-TC-A1	1.1	1.5			45	3.8	9.5	480x200x278
CJET1500-PC-TC-A1	1.5	2			48	4.0	9.5	480x200x278

# CPS-A

## Smart Multi-stage Centrifugal Pump



### Operating Conditions:

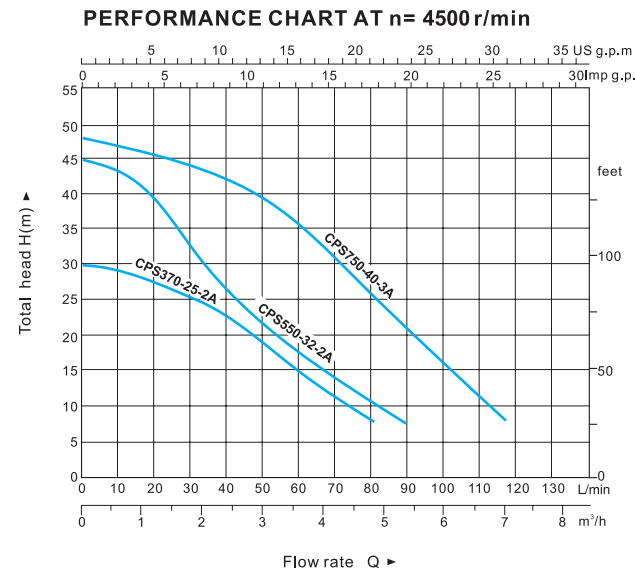
- Liquid: clean liquids without suspended solids, non-aggressive
- Liquid temperature: 0°C ~ 60°C
- Ambient temperature: <40°C
- Maximum pressure: 10 bar
- Continuous service: s1
- Insulation: Class B
- Protection: IP X4

### Motor:

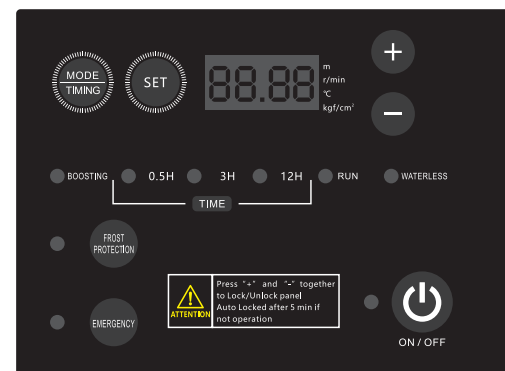
- Pump body: 304 stainless steel
- Impeller: PP plastic
- Motor shaft: 304 stainless steel
- Mechanical seal: graphite/silicon carbide

### Application:

- Domestic water supply
- Water pressure boosting
- Water transfer
- Cooling system
- Heating system
- Irrigation



### Control Panel:



MODEL	POWER(P1)		INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	MAX. SUCT (m)	PACKING DIMENSION/UNIT (mm)
	KW	HP						
CPS370-25-2A	0.37	0.5	1" x 1"	200V 50/60Hz	30	5.0	3	419×260×325
CPS550-32-2A	0.55	0.75			45	5.5	6	472×260×325
CPS750-40-3A	0.75	1			48	7.0	6	472×260×325

# CHV-X1

## Full Automatic Cold and Hot Water Self Suction Vortex Electric Pump

### Operating Limits:

- The temperature of pumping liquid does not exceed 100°C
- The ambient temperature does not exceed 40°C
- The maximum suction distance is 9m

### Motor:

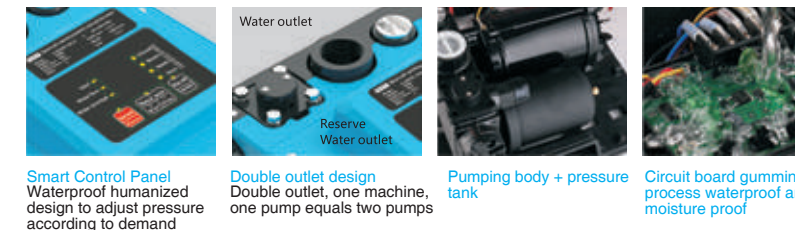
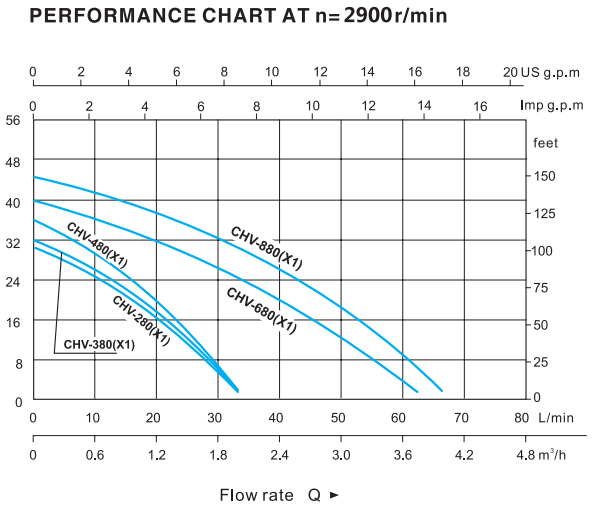
- Two-Pole induction motor(n=2900r/min)
- Insulation: Class F
- Protection: IP44
- Continuous service: S1
- Thermal protector
- Single-phase: 220V/50Hz

### Function:

- Linear pressure sensor is used to control the starting pressure of pump instead of traditional mechanical switch. At the same time, it has advanced flow control system.
- The functions of the pump include:
  1. Stepless voltage regulation;
  2. Plug-in and play;
  3. Intelligent learning;
  4. Intelligent overlapping;
  5. Flow control;
  6. Water shortage protection;
  7. Automatic opening of water supply;
  8. Timing function;
  9. Turn-off protection;
  10. Electrophoresis rust prevention

### Application:

- Suitable for well water pumping, family, hotel, hotel, canteen, garden irrigation and other clean water pressurization, but also solar energy, water heater, central air conditioning and other equipment supporting pressurization preferred.



MODEL	POWER(P1)		MAX.FLOW (m³/h)	MAX.HEAD (m)	MAX.SUCT (m)	INLET/OUTLET	PACKING DIMENSION/UNIT (mm)
	KW	HP					
CHV-280(X1)	0.28	0.4	2	30	8.5	1"	343×220×288
CHV-380(X1)	0.38	0.5	2	32	8.5		343×220×288
CHV-480(X1)	0.48	0.6	2	35	8.5		343×220×288
CHV-680(X1)	0.68	0.9	3.8	40	8.5		368×241×298
CHV-880(X1)	0.88	1.2	4	45	8.5		368×241×298

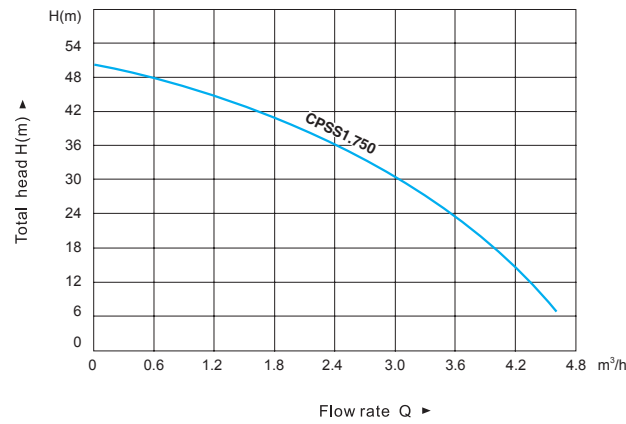
X1: intelligence



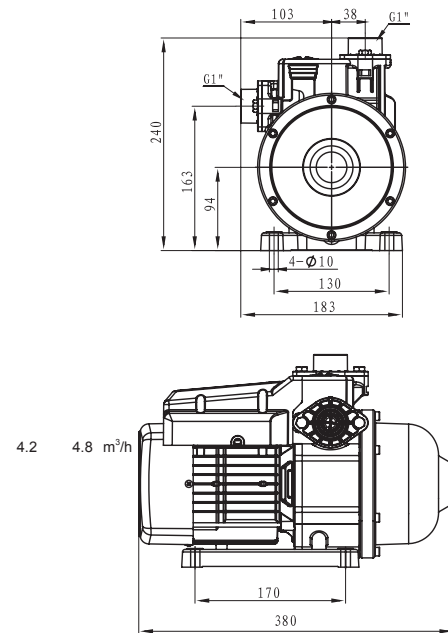
### Feature:

- Low to 1w standby power design, so that the energy-saving technology can be fully presented.
- The impeller adopts enhanced PPO, with copper insert structure to make it more rugged and durable.
- The rotor shaft adopts stainless steel welding technology to ensure that the water parts never rust.
- The Integrated pressure tank core diaphragm uses IIR material to Improve the gas tightness.
- Adopt the pressure sensors of world-class brands to Improve the reliability of the system.
- The system is Intergrated with the reverse stop valve stru ture,so that the internal pressure can be persisted under the condition of non water use in the pipe network system
- The system uses rare earth permanent magnet synchronous motor, ultrahigh energy efficiency and ultra-low power consumption.
- Adopt the world's most cutting-edge motor and non-inductive driving technology to fully realized zero maintenance of motor system.
- The human-computer interface of the Digital display and the most easily operated fool-type design, enable the system to communicate with users without obstacles.
- Constant pressure control system specially designed for the family, which is fully realized the constant water pressure so that users have the perfect water using experience.

PERFORMANCE CHART AT DIFFRENT SPEED



CPSS1 . 750  
 Power W  
 Pump name



MODEL	POWER (P1)		INLET/OUTLET	VOLTAGE FREQUENCY (V/Hz)	MAX. FLOW (m³/h)	MAX. HEAD (m)	PACKING DIMENSION/UNIT (mm)
	KW	HP					
CPSS1.750	0.75	1	1"	220V/50-60	4.7	50	420×220×300



### Operating Conditions:

- The medium temperature for conveying liquid is 0~100 °C. It shall be clean, non corrosive, free of solid particles or fibers, and shall not transport flammable, explosive and easily gasified liquids.
- The maximum pressure of pump chamber is 15bar
- Working environment: the temperature is 4-55 °C, which can be installed outdoors (exposed to the sun and rain), but avoid immersion in water or flooding.
- Its PH value is between 6.5-8.
- The frequency of input power supply shall be 50 / 60Hz, the single-phase AC voltage shall be 100 ~ 240V, and the DC voltage of motor shall be 24 / 36V. See the product nameplate for details.

### Materials:

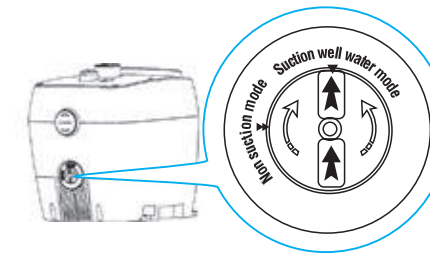
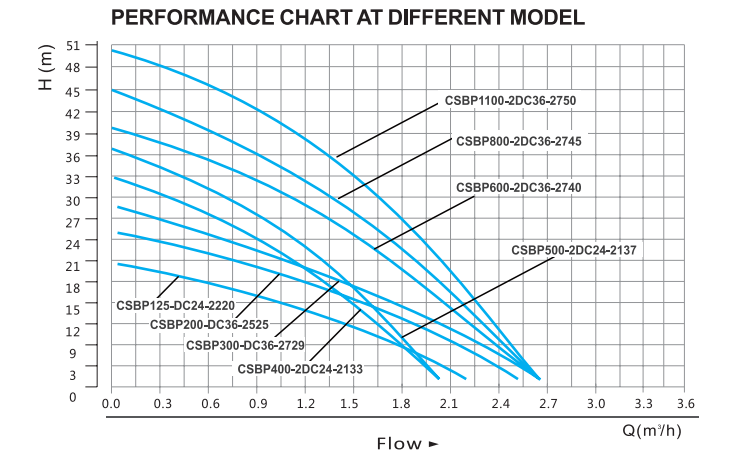
- Pump body: PA6 plastic
- Impeller: PPO
- Motor shaft: ceramic connection, silicon carbide

### Motor:

- Protection:IP55
- Insulation: H

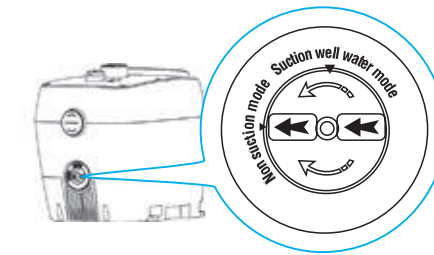
### Application:

- It is widely used in domestic water supply, tap water pressurization, combined water lifting, equipment supporting (air energy, solar energy, water heater, purified water, etc.), pipeline pressurization, garden irrigation, agricultural irrigation, aquaculture, industrial and mining, hotel, enterprise, canteen and high-rise building water supply, central air conditioning and central heating circulation system, etc.



#### A. Suction well water mode:

It is suitable for pumping water pressurization. In the shutdown state, rotate it 90 degrees clockwise and let the arrow rotate to the well suction mode. It is characterized by strong suction and 9.9m self suction.



#### B. Non suction mode:

It is a factory mode, suitable for secondary pressurization of tap water and water supply for water tower. It is characterized by light sound, high efficiency and 3-5M self suction.

MODEL	POWER (P1)	INLET/OUTLET DIAMETER	VOLTAGE (V)	MAX. HEAD (m)	MAX. FLOW (m³/h)	MAX. SUCT (m)	PACKING DIMENSION/UNIT (mm)
	W						
CSBP125-DC24-2220	96	1" × 1"	24	20	2.2	5	360×260×243
CSBP200-DC36-2525	126		36	25	2.5	5	360×260×243
CSBP300-DC36-2729	162		36	29	2.7	9.9	360×260×243
CSBP400-2DC24-2133	168		24+24	33	2.1	9.9	378×268×316
CSBP500-2DC24-2137	192		24+24	37	2.1	9.9	378×268×316
CSBP600-2DC36-2740	252		36+36	40	2.7	9.9	378×268×353
CSBP800-2DC36-2745	288		36+36	45	2.7	9.9	378×268×353
CSBP1100-2DC36-2750	324		36+36	50	2.7	9.9	378×268×353

**Operating Limits:**

- Ambient temperature: 40°C
- Liquid temperature < 75°C
- Protection: IPX5
- Insulation: Class F

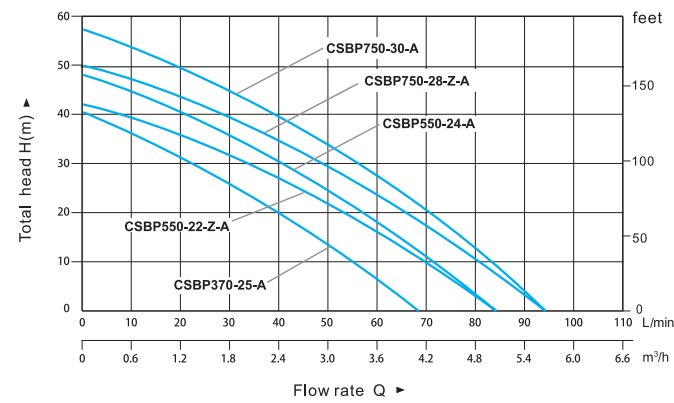
**Materials:**

- Pump body: 304 stainless steel
- Impeller: plastic
- Motor shaft: 304 stainless steel
- Mechanical seal: Graphite/Silicon Carbide

**Application:**

- Multi-function water supply system, it applies to apartment, villa, water and pipeline boosting, garden irrigation, floor heating, pipeline heating and hot-water circulation

PERFORMANCE CHART AT DIFFERENT MODEL



MODEL		POWER (P1)		INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	RATED HEAD (m)	RATED FLOW RATE (m³/h)	MAX. SUCT (m)
		KW	HP							
CSBP370-25-A	Silent	0.37	0.5	1" x 1"	160~260V 50/60Hz	40	4	25	1.8	5
CSBP550-24-A		0.55	0.75			48	5	24	3	5
CSBP750-30-A		0.75	1			58	5.5	30	3	5
CSBP550-22-Z-A	Self-priming	0.55	0.75			42	5	22	3	8
CSBP750-28-Z-A		0.75	1			50	5.5	28	3	8

**Operating Limits:**

- Ambient temperature: 40°C
- Liquid temperature < 75°C
- Protection: IPX5
- Insulation: Class F

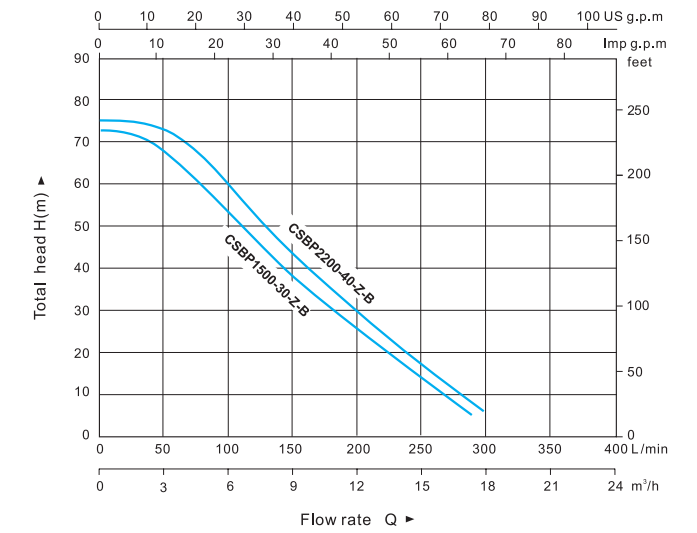
**Materials:**

- Pump body: 304 stainless steel
- Impeller: 304 stainless steel
- Motor shaft: 304 stainless steel
- Mechanical seal: Graphite/Silicon Carbide

**Application:**

- Multi-function water supply system, it applies to apartment, villa, water and pipeline boosting, garden irrigation, floor heating, pipeline heating and hot-water circulation

PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER (P1)		INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	RATED HEAD (m)	RATED FLOW RATE (m³/h)	MAX. SUCT (m)
	KW	HP							
CSBP1500-30-Z-B	1.5	2	2" x 2"	230/380V 60Hz	73	17	32	10	8
CSBP2200-40-Z-B	2.2	3	2" x 2"	230/380V 60Hz	75	18	40	10	8



# CSBP-A

## Smart Multi-stage Centrifugal Pump



### Operating Limits:

- Ambient temperature: 40°C
- Liquid temperature < 75°C
- Protection: IPX5
- Insulation: Class F

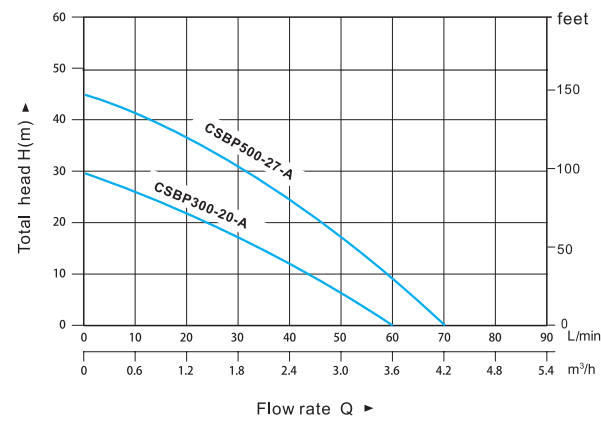
### Materials:

- Pump body: plastic
- Impeller: plastic
- Motor shaft: 304 stainless steel
- Mechanical seal: Graphite/Silicon Carbide

### Application:

- Home boosting

PERFORMANCE CHART AT DIFFERENT MODEL



MODEL	POWER (P1)	INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	RATED HEAD (m)	RATED FLOW RATE (m³/h)	MAX. SUCT (m)
	W							
CSBP300-20-A	300	1" x 1"	160~260V 50/60Hz	30	3.6	20	1.5	6
CSBP500-27-A	500			45	4.2	27	2	6

# CSBP-B

## Smart Multi-stage Centrifugal Pump



### Operating Limits:

- Ambient temperature: 40°C
- Liquid temperature < 75°C
- Protection: IPX5
- Insulation: Class F

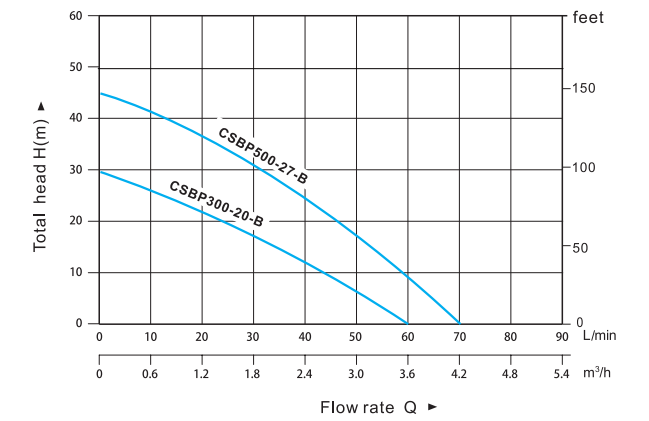
### Materials:

- Pump body: plastic
- Impeller: plastic
- Motor shaft: 304 stainless steel
- Mechanical seal: Graphite/Silicon Carbide

### Application:

- Home boosting

PERFORMANCE CHART AT DIFFERENT MODEL



MODEL	POWER (P1)	INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	RATED HEAD (m)	RATED FLOW RATE (m³/h)	MAX. SUCT (m)
	W							
CSBP300-20-B	300	1" x 1"	160~260V 50/60Hz	30	3.6	20	1.5	6
CSBP500-27-B	500			45	4.2	27	2	6

# CSBP-A

## Smart Multi-stage Centrifugal Pump

**NEW**

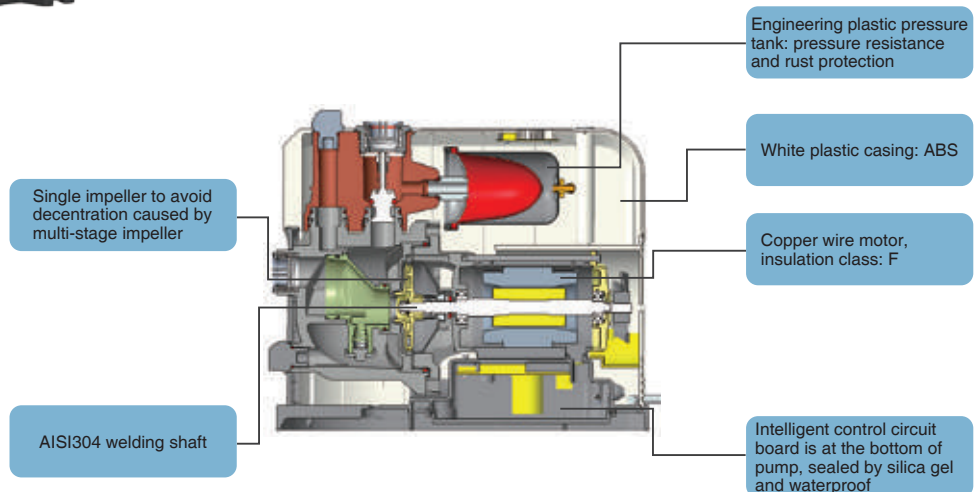
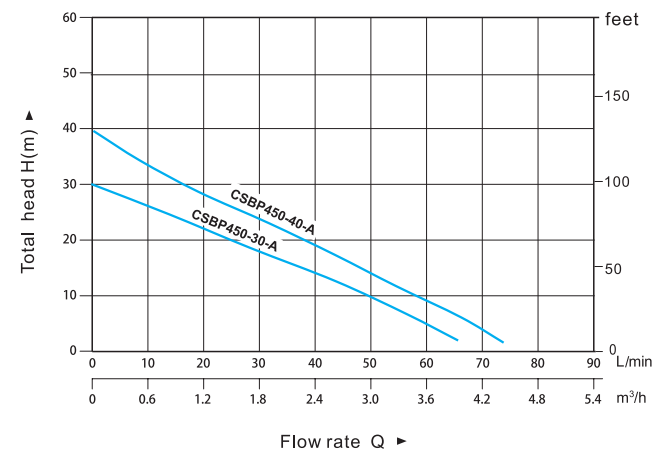
### Operating Limits:

- Ambient temperature: 40°C
- Liquid temperature: 5 - 70°C
- The PH value is 6.5 - 8.5
- Protection: IPX4
- Insulation: Class F
- Starting voltage 220V ~ 240V

### Application:

- Household water supply
- Water supply system
- Boosting system

PERFORMANCE CHART AT DIFFERENT MODEL



MODEL	POWER (P1)		INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	MAX. SUCT (m)	PACKING DIMENSION/UNIT (mm)
	kW	HP						
CSBP350-30-A	0.35	0.48	1" x 1"	220~240V 50/60Hz	30	4.0	6	381×246×320
CSBP450-40-A	0.45	0.6			40	4.5	6	381×246×320

# CPS-B

## Smart Multi-stage Centrifugal Pump

**NEW**

### Operating Conditions:

- Liquid: clean liquids without suspended solids, non-aggressive
- Liquid temperature: 0°C ~ 60°C
- Ambient temperature: <40°C
- Maximum pressure: 10 bar
- Continuous service: s1
- Insulation: Class B
- Protection: IP X4

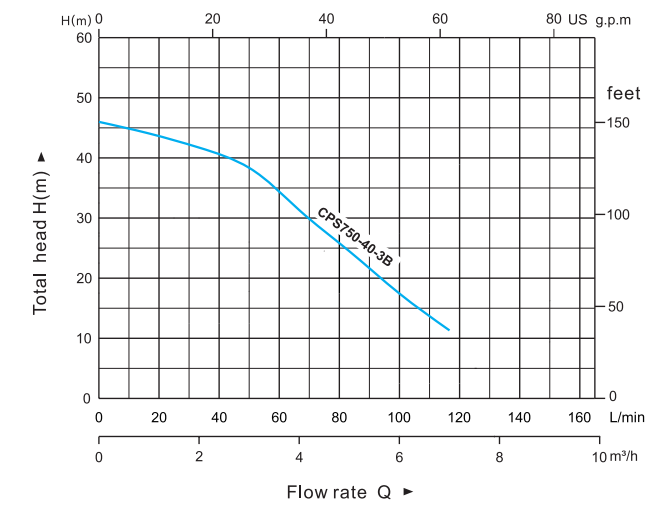
### Motor:

- Pump body: 304 stainless steel
- Impeller: PP plastic
- Motor shaft: 304 stainless steel
- Mechanical seal: Graphite/Silicon Carbide

### Application:

- Domestic water supply
- Water pressure boosting
- Water transfer
- Cooling system
- Heating system
- Irrigation

PERFORMANCE CHART AT n= 4500 r/min



### Control Panel:



MODEL	POWER(P1)		INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	MAX. SUCT (m)	PACKING DIMENSION/UNIT (mm)
	KW	HP						
CPS750-40-3B	0.75	1	1" x 1"	220V/50/60Hz	45	6.0	6.0	462×291×313





### Operating Conditions:

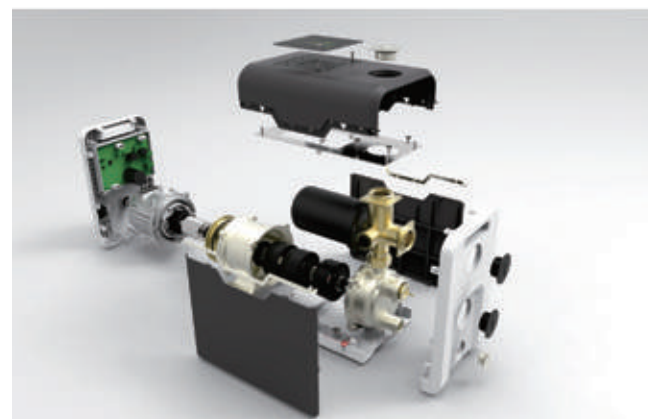
- Max. system pressure: 10 bar
- Ambient temperature: 0°C-40°C
- Liquid temperature ≤ 95°C
- Liquid: Clean, non-corrosive and non-explosive liquids, without any particle, fiber or mineral oil.
- The PH value is 6.5 - 8.5
- Rated rotate speed: 4500rpm
- Max. Suction: 8m ( within 3 minutes)
- Low noise ≤ 60 dB
- Protection: IPX4
- Insulation: Class F

### Features:

- Meet the CE standard
- Canned motor structure, water-cooled motor and ceramic bearing
- Permanent magnet synchronous motor epoxy coating for motor and converter
- Iron casting pump with nickel finish
- 4-stage PPO impellers
- Wide range of voltage: 220V, and stable running without motor breakdown
- LCD, and multi-mode option, easy to set up and operate
- The plug is with home electric appliances design, easy to plug in and off
- Energy saving, low noise, no leakage, compact structure and nice appearance, running safely and simple to install
- Temperature control, constant pressure control, memory function, motor shaft lock protection, over/under pressure protection, temperature anomaly warning, dry running protection and water leakage protection

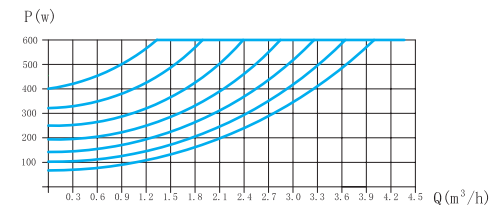
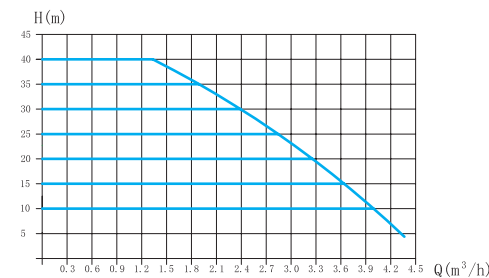
### Application:

- Multi-function water supply system, it applies to apartment, villa, water and pipeline boosting, garden irrigation, floor heating, pipeline heating and hot-water circulation

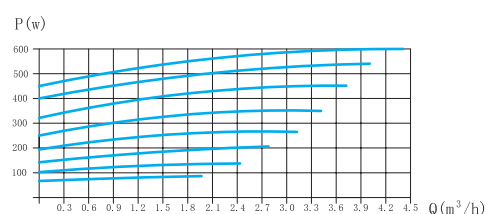
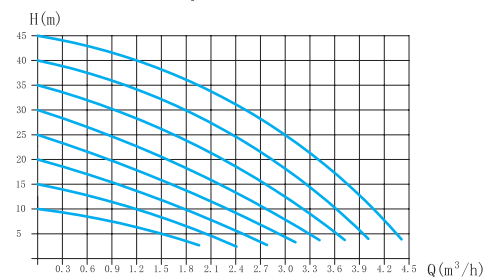


PERFORMANCE CHART AT DIFFERENT MODEL

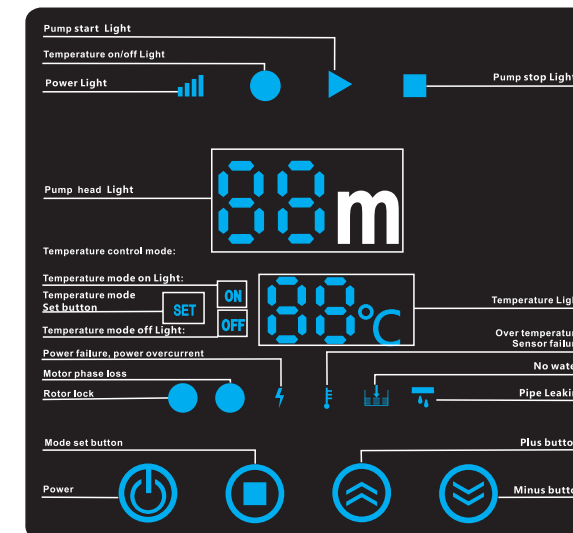
#### Constant Mode:



#### Demand Response Mode:



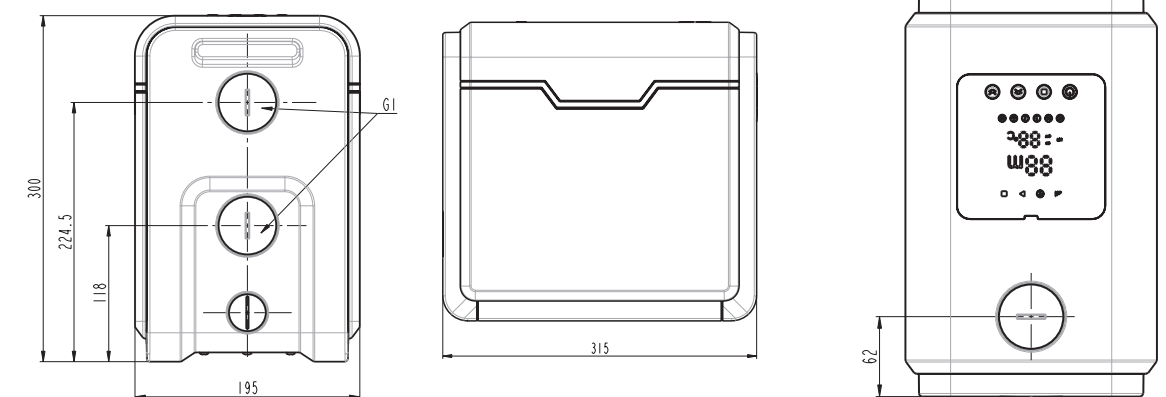
### Control Panel Instruction



### Humanized design, easy to plug in and off



### Product Size



MODEL	POWER (P1)		INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	RATED HEAD (m)	RATED FLOW RATE (m³/h)	MAX. SUCT (m)	PACKING DIMENSION/UNIT (mm)
	KW	HP								
CPS-W1-4/30	0.6	0.8	1" x 1"	220V/50Hz	45	4.5	25	2.5	8	315×195×300

# CPSS2

## Intelligent Water Booster Pump

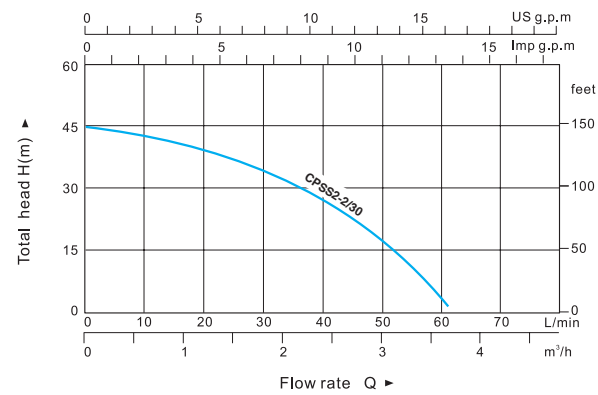
### Material:

- Impeller: Cu
- Motor shaft: AISI304/Carbon steel

### Features:

- Innovative integrated design, it is more effective to achieve the full working condition (whether peak or low-peak water), all-weather (whether sunny or rainy), the whole environment (whether indoor or outdoor) without differences in the terms of use!
- The whole system has 2 years warranty, which provides customers with a strong service guarantee and support system.
- The system uses rare earth permanent magnet synchronous motor; Ultra-high energy efficiency & ultra-low-power consumption
- As low as 1w of standby power design, energy-saving technology is perfectly presented:
- Zero-maintenance of complete motor system with the world's most advanced motor non-inductive drive technology
- The completely innovative motor driving algorithm and flow channel design completely avoid the natural defect of the traditional vortex water pump with high power consumption at low flow rate. It is perfectly close to the centrifugal pump with low power consumption, large flow, high head, and low noise characteristics.
- The innovative design of the centrifugal fan blade for the cooling air blades, which effectively reduce the wind noise while obviously enhances the heat dissipation performance of the motor.
- The rotor shaft adopts stainless steel butt welding technology to ensure the over-current components never rust.
- The integrated pressure tank core diaphragm is IIR material. Durability and air tightness can be qualitatively improved. Actually achieved maintenance-free in two years.
- The man-machine interface with LCD display, the most easy-to-operate foolproof design. Enables the barrier-free communication between the system and the user.
- Adopt world-class brand pressure sensors to improve the system reliability
- The system integrated reverse valve structure makes the internal pressure persists when pipe network system under non-water condition.
- Constant pressure control system to achieve water pressure constant, while the user has a perfect water experience.

PERFORMANCE CHART AT DIFFERENT SPEED



MODEL	POWER (P1)		INLET/OUTLET	VOLTAGE FREQUENCY (V/Hz)	MAX. FLOW (m³/h)	MAX. HEAD (m)	PACKING DIMENSION/UNIT (mm)
	KW	HP					
CPSS2-2/30	0.8	1.1	1"	220V/50-60	3.7	45	355x250x355

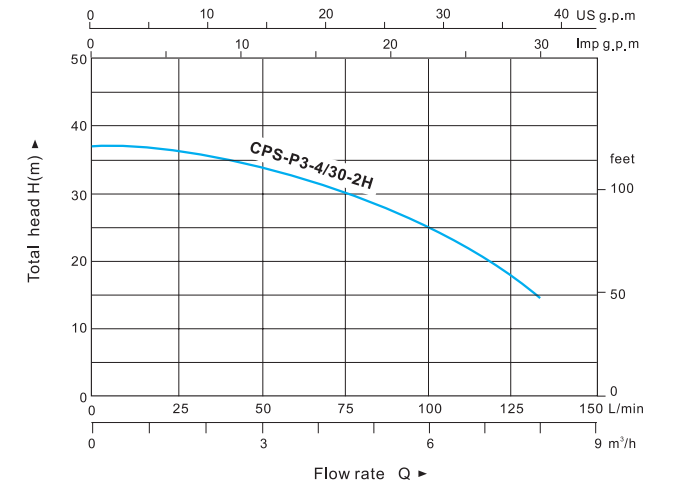
# CPS-P3

## Intelligent Water Booster Pump

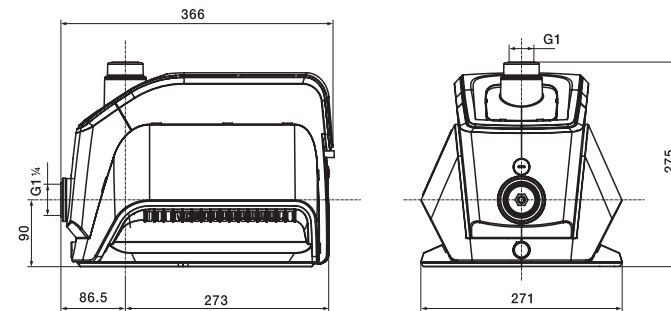
### Operating Limits:

- Liquid: clean liquids without suspended solids, non-aggressive
- Liquid temperature: 0°C-60°C
- Ambient temperature: <40°C
- Maximum pressure: 10 bar
- Continuous service: S1
- Insulation: B
- Protection: IPX4

PERFORMANCE CHART AT n=4000r/min



### Outline Size:



MODEL	POWER(P1)		OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. FLOW (m³/h)	MAX. HEAD (m)	PACKING DIMENSION/UNIT (mm)
	KW	HP					
CPS-P3-4/30-2H	0.75	1	1"	220V/50	8	37	433x330x320



# CPS-P4

## Smart Self-priming Jet Pump

### Operating Limits:

- Liquid: clean liquids without suspended solids, non-aggressive
- Liquid temperature: 0°C-60°C
- Ambient temperature: <40°C
- Max. pressure: 10 bar
- Continuous service: S1

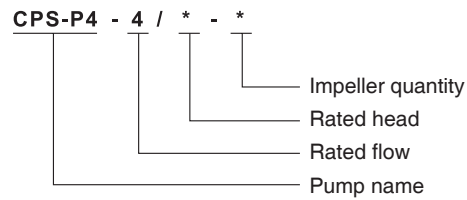
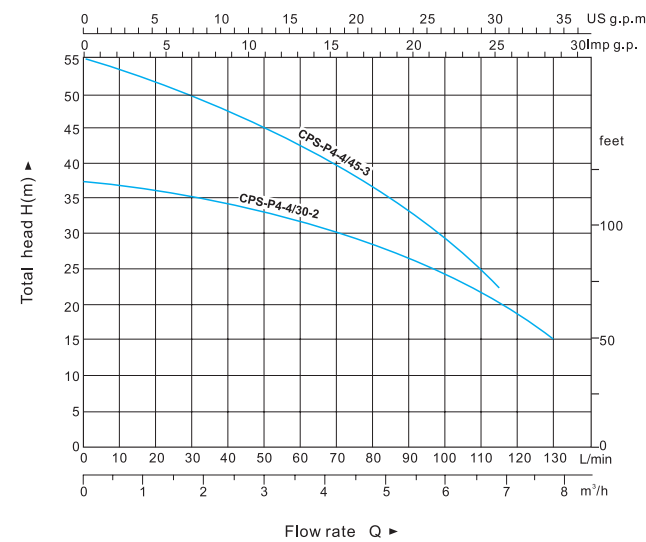
### Motor:

- Insulation: B
- Protection: IPX4

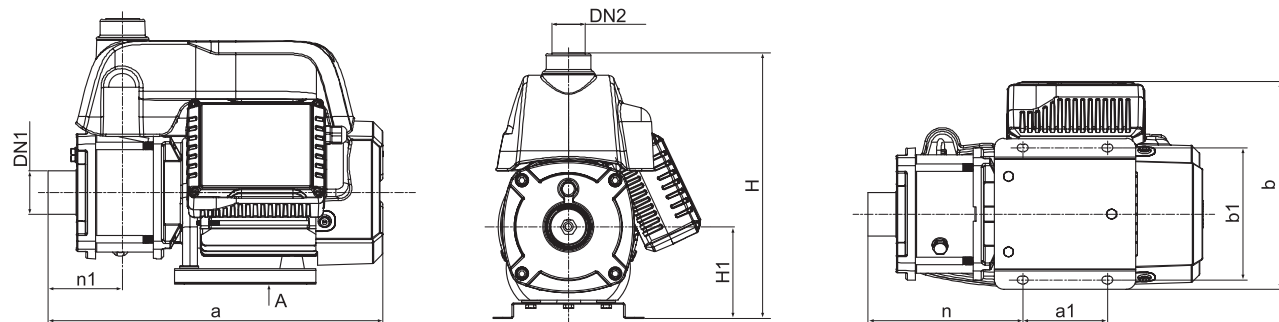
### Application:

- Household water supply
- Water supply system
- Cooling system
- Boost system

PERFORMANCE CHART AT n=4000 r/min



### Outline Size:



MODEL	POWER(P1)		VOLTAGE FREQUENCY (V/Hz)	SIZE(mm)								DN1	DN2	MAX. FLOW (m³/h)	MAX. HEAD (m)	PACKING DIMENSION/UNIT (mm)
	KW	HP		a	b	a1	b1	h	h1	n	n1					
CPS-P4-4/30-2	0.75	1	220V/50/60	356	220	90	140	282	97	165	79	G¼"	G1"	8	37	394×260×330
CPS-P4-4/45-3	1.5	2	220V/50/60	410	220	90	140	282	97	165	79	G¼"	G1"	8	55	450×260×330

# CFL

## The Stainless Steel Automatic Booster Pump

### Working Condition:

- Clean Water or Physical and Chemical characteristics' liquid similar to water
- Medium Temperature: 0°C - 50°C
- Environmental Temperature: ≤50°C
- Max. working pressure: 0.6Mpa

### Features:

- In tetrating pressure sensors, pressure tank, Circuit board, Easy to installation.
- Low noise, Long life.
- Pressure can be adjusted.

### Functions:

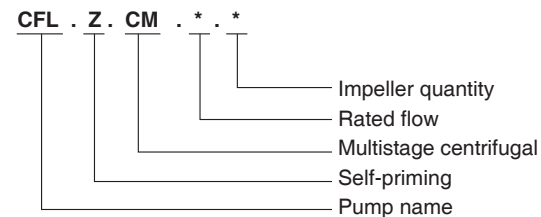
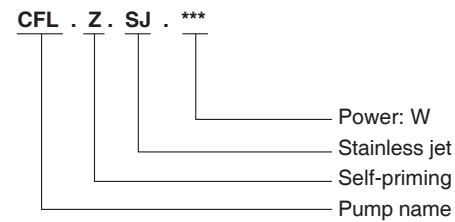
- De lay start
- No water protection and check
- Stop when outlet close
- Automatic boost
- Power off reset
- Prevent stuck
- Small flow start



**Jet Pump**  
CFL. SJ. 037  
CFL. SJ. 060  
CFL. SJ. 075  
CFL. SJ. 100  
CFL. SJ. 150

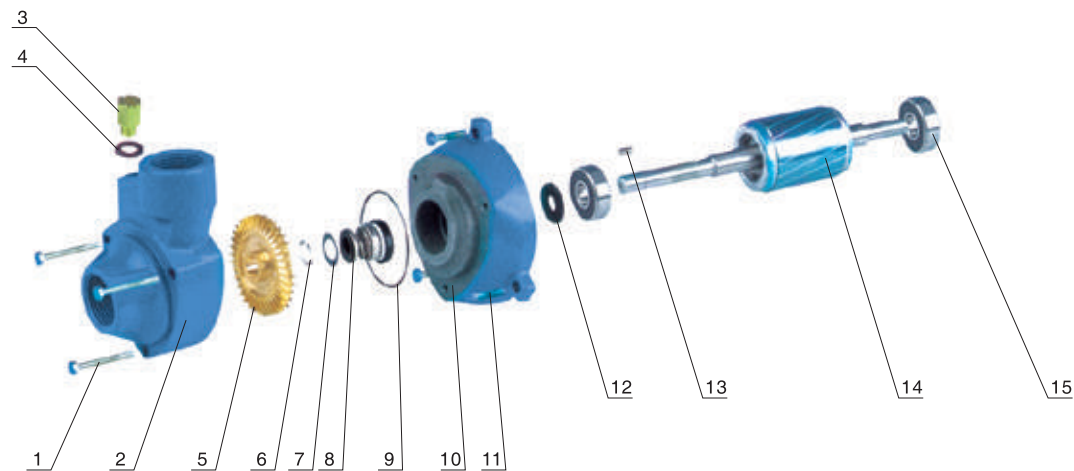
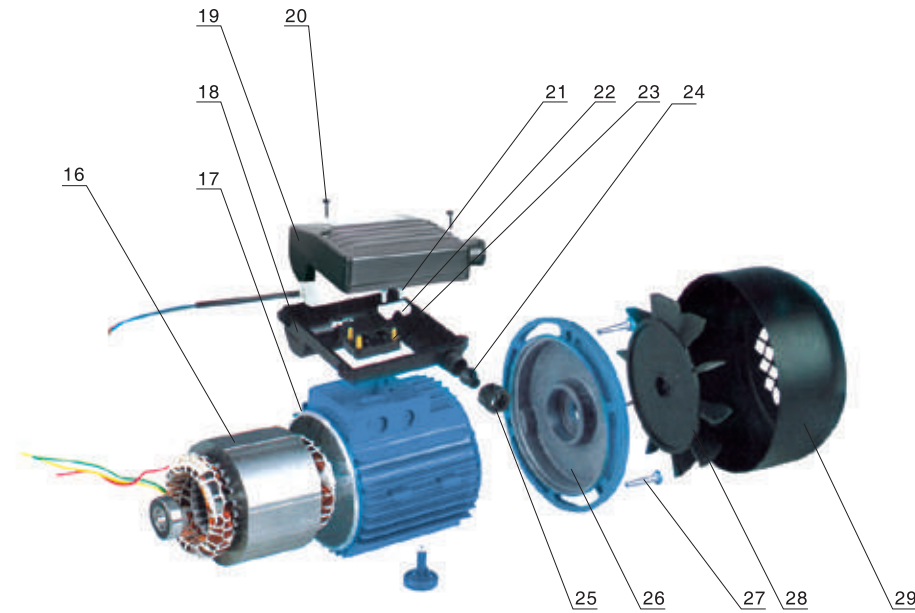


**Multistage Centrifugal Pump**  
CFL. CM. 2. 2  
CFL. Z. CM. 2. 2  
CFL. CM. 2. 3  
CFL. Z. CM. 2. 3  
CFL. CM. 2. 4  
CFL. Z. CM. 2. 4  
CFL. CM. 2. 5  
CFL. CM. 2. 6



MODEL	POWER		Amps 380V/50Hz	INLET/ OUTLET	RATED FLOW (m³/h)	RATED HEAD (m)	PACKING DIMENSION/UNIT (mm)
	(KW)	(HP)					
CFL. SJ. 037	0.37	0.5	2.4	1"x1"	1.5	20	385×225×310
CFL. SJ. 060	0.55	0.75	3.8	1"x1"	1.5	25	385×255×310
CFL. SJ. 075	0.55	0.75	3.8	1"x1"	2.2	22	380×235×330
CFL. SJ. 100	0.75	1	5.2	1"x1"	2.4	25	380×235×330
CFL. SJ. 150	1.0	1.3	6.2	1"x1"	3.0	30	445×245×340
CFL. CM. 2. 2	0.25	0.3	2.0	1"x1"	2.0	16	375×240×315
CFL. Z. CM. 2. 2							
CFL. CM. 2. 3	0.37	0.5	2.4	1"x1"	2.0	24	375×240×315
CFL. Z. CM. 2. 3							
CFL. CM. 2. 4	0.55	0.75	3.8	1"x1"	2.0	32	375×240×315
CFL. Z. CM. 2. 4							
CFL. CM. 2. 5	0.55	0.75	3.8	1"x1"	2.0	40	410×240×315
CFL. CM. 2. 6							

Diagram



NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	Pump Body Screw	12	Splash Guard	23	Cable Presser
2	Pump Body	13	Key	24	Waterproof Fairlead
3	Filling Plug	14	Shaft and Rotor	25	Adjustable Ring
4	"O" Ring for Filling Plug	15	Ball Bearing	26	Motor Cover
5	Impeller	16	Stator	27	Motor Cover-motor Case Screw
6	Circlip	17	Motor Case	28	Fan
7	Plain Washer	18	Terminal Board	29	Fan Cover
8	Mechanical Seal	19	Terminal Cover		
9	"O" Ring for Pump Body	20	Screw for Terminal Box Fixing		
10	Motor Bracket	21	Screw for Cable Presser		
11	Screw for Motor Bracket	22	Capacitor		

Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

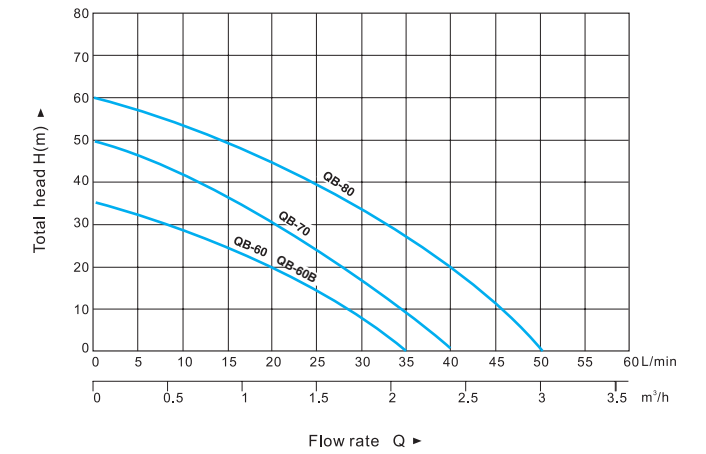
Material:

- Pump Body: Cast Iron
- Motor Bracket: Cast Iron (or with Brass / S.S. Insert)
- Impeller: Brass
- Motor Shaft: Carbon Steel (or Stainless Steel)
- Mechanical Seal: Ceramic / Graphite

Installation and Use:

- They are recommended for pumping clean water without abrasive particles and liquids that are chemically non aggressive to the materials from which the pump is made.
- For their reliability, simplicity of use and economy they are suitable for domestic use and in particular for distributing water in combination with small pressure sets, for irrigating gardens.
- The pumps must be installed in closed places, or at least protected against inclement weather.

PERFORMANCE CHART AT n=2900 r/min



Optional



QB-60



Optional



QB-60B

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
QB-60	QB-60T	0.37	0.5	1"x1"	35	35	8	34.5	490x310x390/6pcs	3240
QB-70	QB-70T	0.55	0.75	1"x1"	40	50	8	8.8	330x180x220	1900
QB-80	QB-80T	0.75	1	1"x1"	50	60	8	10.5	350x190x220	1700
QB-60B	QB-60BT	0.37	0.5	1"x1"	35	35	8	27	485x295x375/6pcs	3240



### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

### Material:

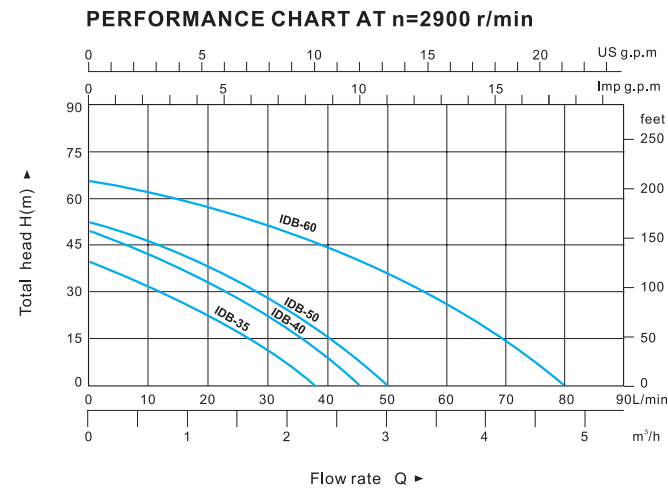
- Pump Body: Cast Iron
- Motor Bracket: Cast Iron (or with Brass / S.S. Insert)
- Impeller: Brass
- Motor Shaft: Carbon Steel (or Stainless Steel)
- Mechanical Seal: Ceramic / Graphite

### Installation and Use:

- They are recommended for pumping clean water without abrasive particles and liquids that are chemically non aggressive to the materials from which the pump is made.
- For their reliability, simplicity of use and economy they are suitable for domestic use and in particular for distributing water in combination with small pressure sets, for irrigating gardens.
- The pumps must be installed in closed places, or at least protected against inclement weather.



IDB-35



MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
IDB-35	IDB-35T	0.37	0.5	1"x1"	38	36	8	5.4	290x155x182/6pcs	3100
IDB-40	IDB-40T	0.55	0.75	1"x1"	45	50	8	9.6	335x185x200	1900
IDB-50	IDB-50T	0.75	1	1½"x1½"	50	55	8	10.2	335x185x200	1730
IDB-60	IDB-60T	1.1	1.5	1½"x1½"	80	70	8	22	415x190x230	820

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Motor: Permanent Magnet Brushless DC
- Motor(Without Hall)
- Controller: 32bit MCU/FOC/Sine Wave Current/MPPT
- Controller Shell: Die-cast Aluminum

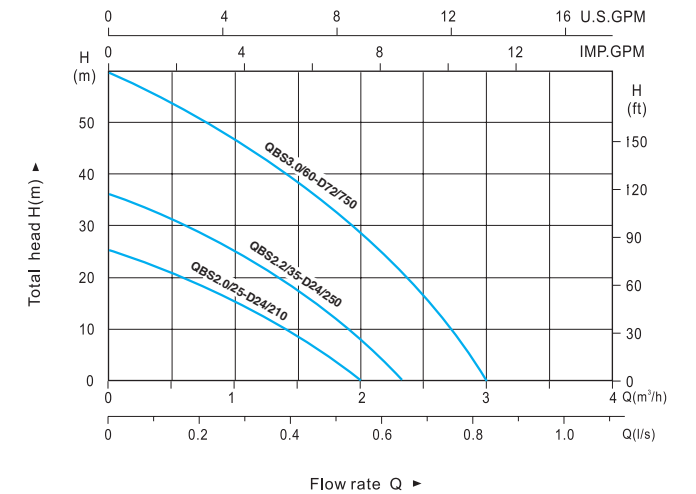
### Material:

- Inlet/Outlet: 304 Stainless Steel
- Pump Body: 304 Stainless Steel
- Impeller: 304 Stainless Steel
- Controller Shell: Die-cast Aluminum

### Application:

- They are recommended for pumping clean water without abrasive particles and liquids that are chemically non aggressive to the materials from which the pump is made.
- For their reliability, simplicity of use and economy they are suitable for domestic use and in particular for distributing water in combination with small pressure sets, for irrigating gardens.
- The pumps must be installed in closed places, or at least protected against inclement weather.

PERFORMANCE CHART AT DIFFERENT SPEED



MODEL	POWER P2(W)	VOLTAGE (Vdc)	VOLTAGE RATE (Vdc)	MAX.FLOW (m³/h)	MAX.HEAD (m)	INLET/OUTLET	MAX. SUCT (m)
QBS2.0/25-D24/210	210	24	17-50	2.0	25	1"x1"	8
QBS2.2/35-D24/250	250	24	17-60	2.2	35	1"x1"	8
QBS3.0/60-D72/750	750	72	46-100	3.0	60	1"x1"	8

### Operating Limits:

- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Max. suction: 9m

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation class B
- Protection class IPX4

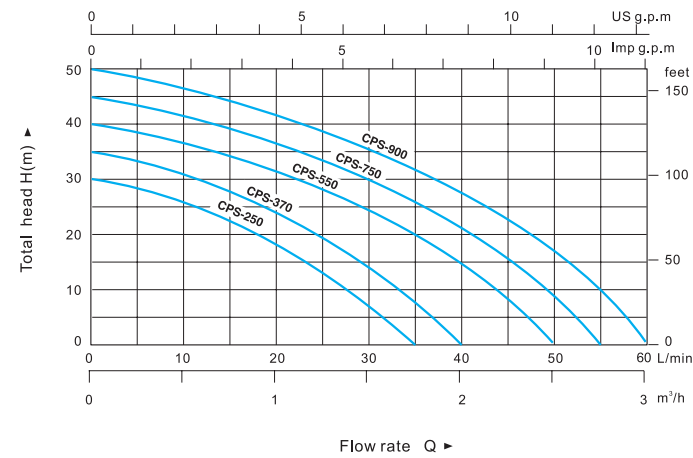
### Material:

- Pump Body: Cast Iron
- Impeller: Brass
- Motor Shaft: Carbon Steel (or Stainless Steel)
- Mechanical Seal: Ceramic / Graphite

### Application:

- It can be used to transfer clean water or other liquids similar to water in physical and chemical properties. It is suitable for small living water supply, automatic water sprinkler system, small air conditioner system or supporting equipment, etc.

PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER(P2)		INLET/OUTLET	MAX. FLOW (L/min)	MAX. HEAD (m)	MAX. SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CPS-250	0.25	0.34	1"x1"	35	30	9	9.5	285x200x275	1800
CPS-370	0.37	0.5	1"x1"	40	35	9	10	285x200x275	1800
CPS-550	0.55	0.75	1"x1"	50	40	9	12	310x235x285	1450
CPS-750	0.75	1	1"x1"	55	45	9	13	310x235x285	1450
CPS-900	0.9	1.2	1"x1"	60	50	9	14	310x235x285	1450

### Operating Limits:

- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Max. suction: 9m

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation class B
- Protection class IPX4

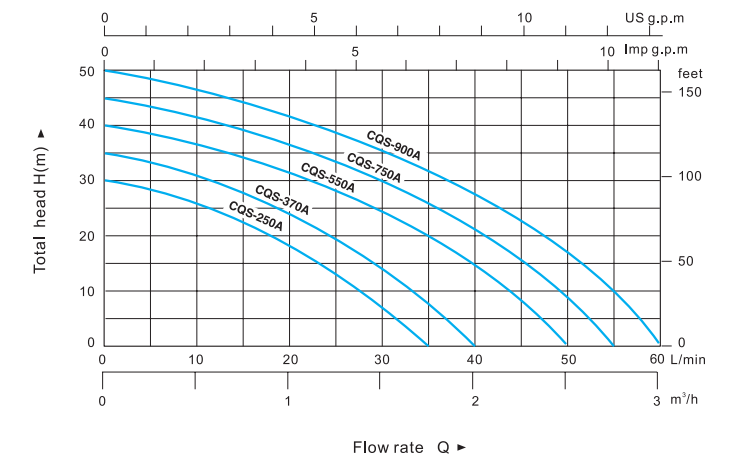
### Material:

- Pump Body: Cast Iron
- Motor Bracket: Cast Iron
- Impeller: Brass
- Motor Shaft: Carbon Steel (or Stainless Steel)
- Mechanical Seal: Ceramic / Graphite

### Application:

- These automatic self-priming water pumps are suitable for pumping clean water. Consisted of a water pump, a tank and a pressure switch, this series is relatively simple construction, not expensive but reliable and safe. It is suitable to grant the correct pressure to modern domestic and industrial water systems.

PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER(P2)		INLET/OUTLET	MAX. FLOW (L/min)	MAX. HEAD (m)	MAX. SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CQS-250A	0.25	0.34	1"x1"	35	30	9	10	285x200x275	1800
CQS-370A	0.37	0.5	1"x1"	40	35	9	10.5	285x200x275	1800
CQS-550A	0.55	0.75	1"x1"	50	40	9	12.5	310x235x285	1450
CQS-750A	0.75	1	1"x1"	55	45	9	13.5	310x235x285	1450
CQS-900A	0.9	1.2	1"x1"	60	50	9	14	310x235x285	1450



### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

### Material:

- Pump Body: Cast Iron
- Motor Bracket: Cast Iron
- Impeller: Brass
- Motor Shaft: Carbon Steel (or Stainless Steel)
- Mechanical Seal: Ceramic / Graphite

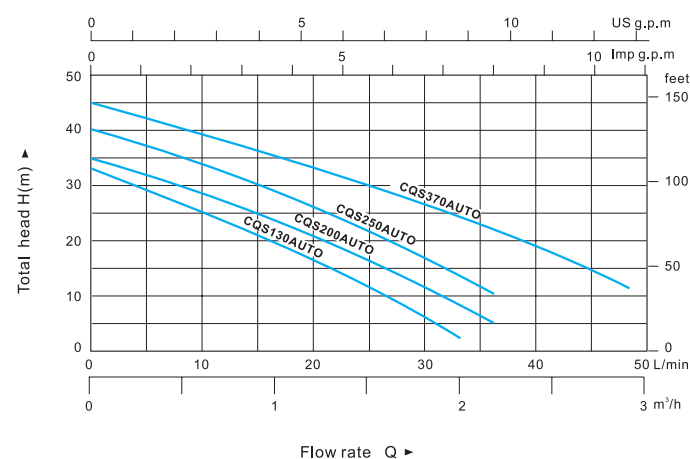
### Installation and Use:

■ These automatic self-priming water pumps are suitable for pumping clean water. Consisted of a water pump, a tank and a pressure switch, this series is relatively simple construction, not expensive but reliable and safe. It is suitable to grant the correct pressure to modern domestic and industrial water systems.



CQS130AUTO  
CQS200AUTO

PERFORMANCE CHART AT n=2900 r/min



CQS250AUTO  
CQS370AUTO

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
CQS130AUTO	CQS130TAUTO	0.18	0.25	1"x1"	33	33	8	10.3	275x200x290	1700
CQS200AUTO	CQS200TAUTO	0.25	0.35	1"x1"	36	35	8	11.0	275x200x290	1700
CQS250AUTO	CQS250TAUTO	0.25	0.35	1"x1"	36	40	8	12	290x210x300	1500
CQS370AUTO	CQS370TAUTO	0.37	0.5	1"x1"	48	45	8	13.5	300x210x305	1500

### Operating Limits:

- The temperature of pumping liquid does not exceed 100°C
- The ambient temperature does not exceed 40°C
- The maximum suction distance is 9m

### Motor:

- Two-Pole induction motor(n=2900r/min)
- Insulation: Class F
- Protection: IP44
- Continuous service: S1
- Thermal protector
- Single-phase: 220V/50Hz

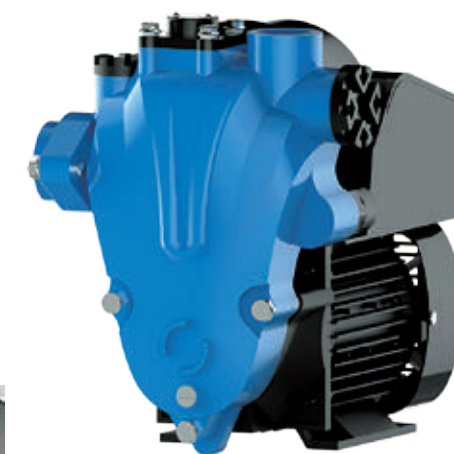
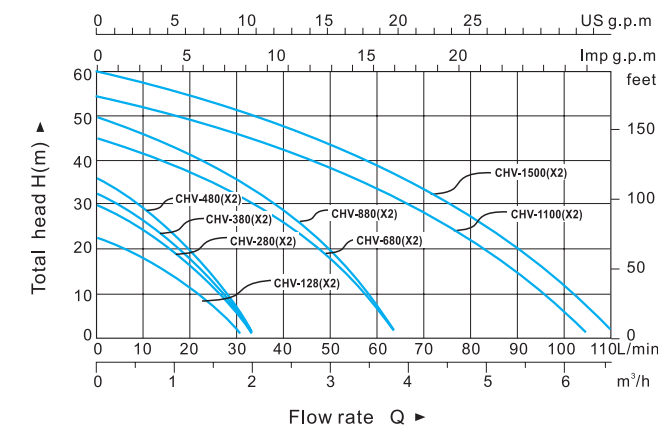
### Function:

- Linear pressure sensor is used to control the starting pressure of pump instead of traditional mechanical switch. At the same time, it has advanced flow control system.
- The functions of the pump include:
  1. Stepless voltage regulation;
  2. Plug-in and play;
  3. Intelligent learning;
  4. Intelligent overlapping;
  5. Flow control;
  6. Water shortage protection;
  7. Automatic opening of water supply;
  8. Timing function;
  9. Turn-off protection;
  10. Electrophoresis rust prevention

### Application:

■ Suitable for well water pumping, family, hotel, hotel, canteen, garden irrigation and other clean water pressurization, but also solar energy, water heater, central air conditioning and other equipment supporting pressurization preferred.

PERFORMANCE CHART AT n= 2900r/min



Smart Control Panel  
Waterproof design to adjust the start pressure according to demand



High-precision pressure sensors  
Application of linear pressure sensor, 0-100 meters stepless pressure regulation  
Automatic control, steady pressure.



Waterproof motherboard  
Application of advanced gumming technology to realize the dust-proof waterproofing of electronic components IP67



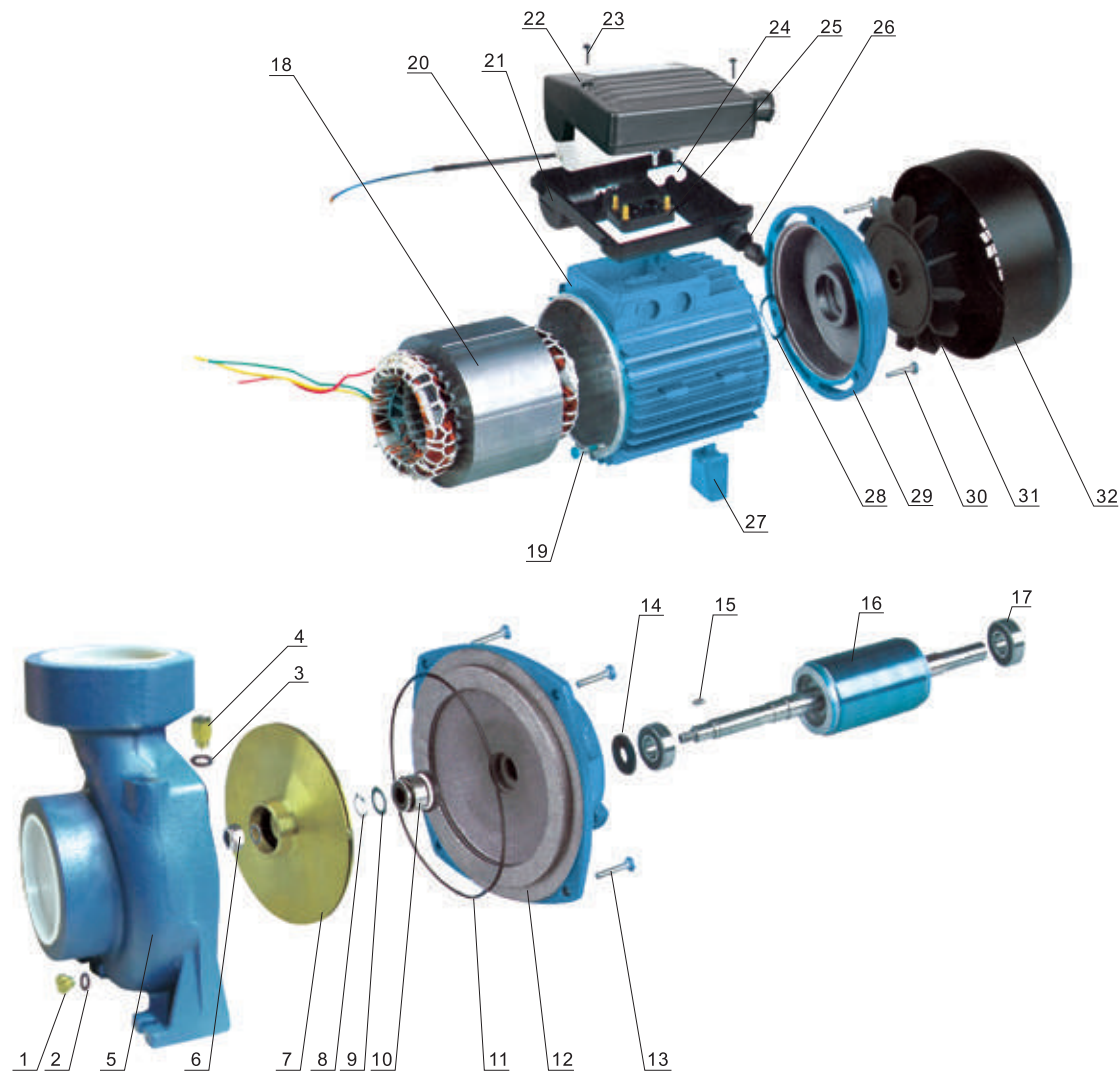
Flow switch

MODEL	POWER(P1)		MAX.FLOW (m³/h)	MAX.HEAD (m)	MAX.SUCT (m)	INLET/OUTLET	PACKING DIMENSION/UNIT (mm)
	KW	HP					
CHV-128(X2)	0.13	0.2	1.8	22	8	1"	283 × 170 × 247
CHV-280(X2)	0.28	0.4	2	30	9		310 × 206 × 269
CHV-380(X2)	0.38	0.5	2	32	9		310 × 206 × 269
CHV-480(X2)	0.48	0.6	2	35	9		310 × 206 × 269
CHV-680(X2)	0.68	0.9	3.8	45	9		352 × 219 × 299
CHV-880(X2)	0.88	1.2	3.8	50	9		352 × 219 × 299
CHV-1100(X2)	1.1	1.5	6.3	55	9	1 1/2"	368 × 223 × 336
CHV-1500(X2)	1.5	2	6.6	60	9		368 × 223 × 336

X2: intelligence

# Centrifugal Pump

## Diagram



NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	Drain Plug	12	Motor Bracket	23	Screw for Terminal Box Fixing
2	"O" Ring for Drain Plug	13	Screw for Motor Bracket	24	Screw for Cable Presser
3	"O" Ring for Filling Plug	14	Splash Guard	25	Cable Presser
4	Filling Plug	15	Key	26	Water Proof Fairlead
5	Pump Body	16	Shaft and Rotor	27	Foot
6	Nut for Impeller / Impeller Stop Nut	17	Ball Bearing	28	Adjusting Ring
7	Impeller	18	Stator	29	Motor Cover
8	Snap Ring	19	Motor Bracket -motor Case Screw	30	Motor Cover-motor Case Screw
9	Plain Washer	20	Motor Case	31	Fan
10	Mechanical Seal	21	Terminal Board	32	Fan Cover
11	"O" Ring for Pump Body	22	Terminal Cover		

# CCP

# Centrifugal Pump

## Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

## Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

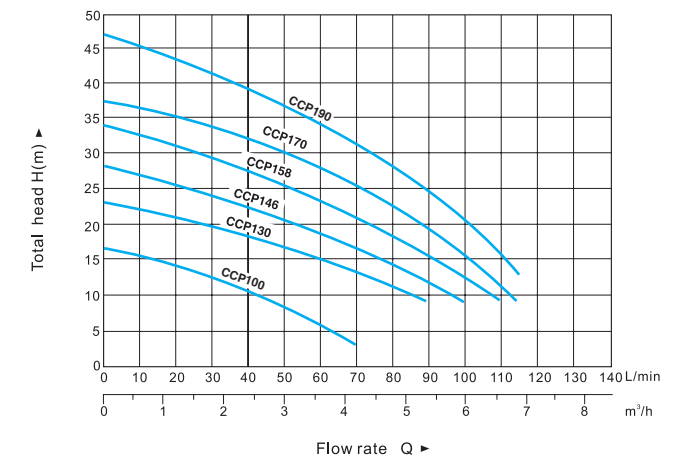
## Material:

- Pump body: Cast Iron
- Impeller: Brass (or plastic)
- Motor Shaft: Carbon Steel / AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical seal: Ceramic / Graphite

## Installation and Use:

- They are recommended for pumping clean water and liquids that are chemically non aggressive to the materials from which the pump is made.
- Reliable and maintenance free they are widely used in the domestic and civil sector, in particular for water distribution in combination with small or medium pressure sets, for transfer in general, for irrigating gardens.
- The pumps must be installed in closed places, or at least protected against inclement weather.

PERFORMANCE CHART AT n=2900 r/min



Optional



CCP158

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	kW	HP							
CCP100	CCP100T	0.25	0.33	1"x1"	70	16	8	8.4	300x180x230	2150
CCP130	CCP130T	0.37	0.5	1"x1"	90	22	8	10	300x180x230	1800
CCP146	CCP146T	0.55	0.75	1"x1"	100	28	8	11.5	340x205x260	1550
CCP158	CCP158T	0.75	1	1"x1"	110	32	8	14	340x205x260	1280
CCP170	CCP170T	1.1	1.5	1"x1"	115	37	8	20.7	390x250x330	870
CCP190	CCP190T	1.5	2	1"x1"	115	47	8	22	390x250x330	820



# 2CCP

## Two-stage Centrifugal Pump (back to back impellers)

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

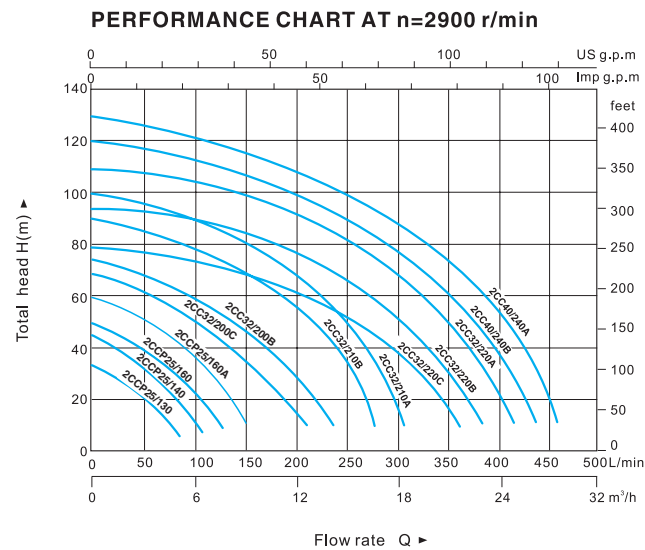
### Material:

- Pump Body: Cast Iron
- Impeller: Brass
- Motor Shaft: Carbon steel / Stainless Steel
- Mechanical Seal: Carbon / Ceramic / Stainless Steel

### Installation and Use:

- They are recommended for pumping clean water and liquids that are chemically non aggressive to the materials from which the pump is made.
- Their high efficiency and adaptability to the most varied, even unusual applications, make them the ideal choice in the domestic, civil and industrial field; in particular for distributing water in combination with pressure sets, for increasing pressure in the mains, for fire fighting sets.
- The pumps must be installed in closed places, or at least protected against inclement weather.

Two stages pump recognised for their high efficiency versatility and quiet running.



2CCP25/130

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
2CCP25/130	-	0.75	1.0	1½"×1"	90	35	8	18.8	370×200×255	1470
2CCP25/140	-	1.1	1.5	1½"×1"	105	45	8	23.5	435×250×320	800
2CCP25/160	-	1.5	2.0	1½"×1½"	130	50	8	25	435×250×320	800
2CCP25/160A	-	2.2	3.0	1½"×1½"	150	60	8	31.0	475×250×340	690
-	2CC32/200C	3	4.5	1½"×1½"	215	68	8	45.5	580×330×370	395
-	2CC32/200B	4	5.5	1½"×1½"	235	75	8	47.5	580×330×370	395
-	2CC32/210B	5.5	7.5	2"×1½"	260	87	8	62.0	480×290×350	290
-	2CC32/210A	7.5	10	2"×1½"	280	103	8	62.0	570×290×360	290
-	2CC32/220C	7.5	10	2"×1½"	345	75	8	68.0	570×290×360	260
-	2CC32/220B	9	12.5	2"×1½"	368	93	8	82.0	570×290×360	220
-	2CC32/220A	11	15	2"×1½"	402	105	8	85.0	570×290×360	210
-	2CC40/240B	13	17.5	2"×1½"	425	117	8	110.0	600×320×400	165
-	2CC40/240A	15	20	2"×1½"	440	122	8	120.0	600×320×400	150

# CHF

## Centrifugal Pump

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

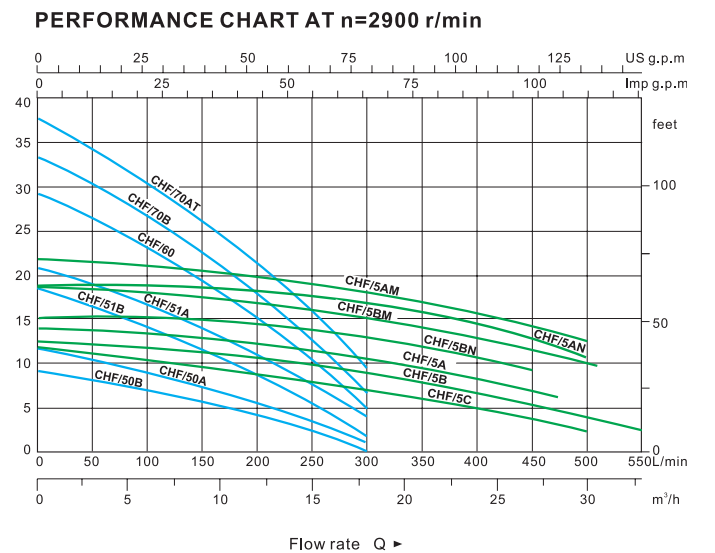
- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

### Material:

- Pump Body: Cast Iron
- Impeller: Brass
- Motor Shaft: Carbon Steel / AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical Seal: Ceramic / Graphite

### Installation and Use:

- The CHF series is recommended for civil, agricultural and industrial applications. The high flow rates and continuous rating make it ideal for irrigation with flowing and sprinkling water, for drawing water from lakes, rivers, wells, or for industrial applications that need to achieve large flow rates at medium-low heads.
- The pumps must be installed in enclosed places, or at least protected against inclement weather.



CHF/60



CHF/5BN  
CHF/5AN

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
CHF/50B	CHF/50BT	0.37	0.50	1½"×1½"	300	9	8	8.2	300×195×230	2080
CHF/50A	CHF/50AT	0.55	0.75	1½"×1½"	300	12	8	8.4	300×195×230	2080
CHF/51B	CHF/51BT	0.60	0.80	1½"×1½"	300	18	8	15.1	330×220×255	1200
CHF/51A	CHF/51AT	0.75	1	1½"×1½"	300	21	8	12.1	330×220×255	1200
CHF/60	CHF/60T	1.1	1.5	1½"×1½"	300	29	8	19.3	400×246×300	930
-	CHF/70AT	2.2	3	1½"×1½"	300	37	8	22.8	400×246×300	780
CHF/5C	CHF/5CT	0.6	0.8	2"×2"	500	12	8	14.8	362×220×285	1220
CHF/5B	CHF/5BT	0.75	1	2"×2"	600	13	8	15.7	362×220×285	1145
CHF/5A	CHF/5AT	1.1	1.5	2"×2"	460	14	8	16.3	362×220×285	1100
CHF/5BM	CHF/5BMT	1.1	1.5	2"×2"	520	18	8	21.2	417×252×296	850
CHF/5AM	CHF/5AMT	1.5	2	2"×2"	500	22	8	23.6	417×252×296	760
CHF/5BN	CHF/5BNT	1.1	1.5	2"×2"	450	15	8	21.2	417×252×296	850
CHF/5AN	CHF/5ANT	1.5	2	2"×2"	500	18	8	23.6	417×252×296	760

# CHF

## Centrifugal Pump (High Flow Rates)

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

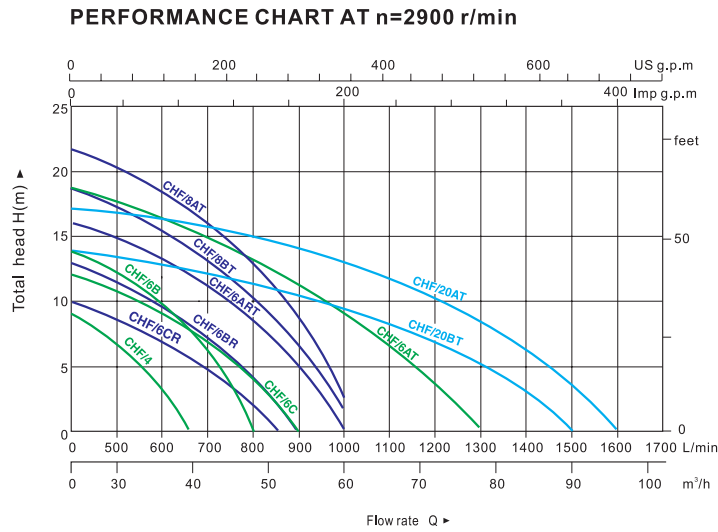
- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

### Material:

- Pump Body: Cast Iron
- Impeller: Brass
- Motor Shaft: Carbon Steel / AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical Seal: Ceramic / Graphite

### Installation and Use:

- The CHF series is recommended for civil, agricultural and industrial applications. The high flow rates and continuous rating make it ideal for irrigation with flowing and sprinkling water, for drawing water from lakes, rivers, wells, or for industrial applications that need to achieve large flow rates at medium-low heads.
- The pumps must be installed in enclosed places, or at least protected against inclement weather.



CHF/6B

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
CHF/4	CHF/4T	0.75	1	2"×2"	650	9	8	14.5	353×220×270	1240
CHF/6C	CHF/6CT	1.1	1.5	3"×3"	900	12	8	26.2	441×270×342	687
CHF/6B	CHF/6BT	1.5	2	3"×3"	800	14	8	28.5	441×270×342	630
-	CHF/6AT	2.2	3	3"×3"	1300	18	8	29.4	441×270×342	615
CHF/6CR	CHF/6CRT	1.1	1.5	4"×4"	850	10	8	29.5	441×270×342	615
CHF/6BR	CHF/6BRT	1.5	2	4"×4"	900	13	8	31.4	441×270×342	575
-	CHF/6ART	2.2	3	4"×4"	1000	16	8	32.3	441×270×342	560
-	CHF/8BT	3	4	4"×4"	1000	18	8	36.1	490×275×345	498
-	CHF/8AT	4	5.5	4"×4"	1000	22	8	41	490×275×345	440
-	CHF/20BT	3	4	4"×4"	1500	14	8	35.3	490×275×345	510
-	CHF/20AT	4	5.5	4"×4"	1600	17	8	40.5	490×275×345	445

# CVCP

## Vertical Centrifugal Pump

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

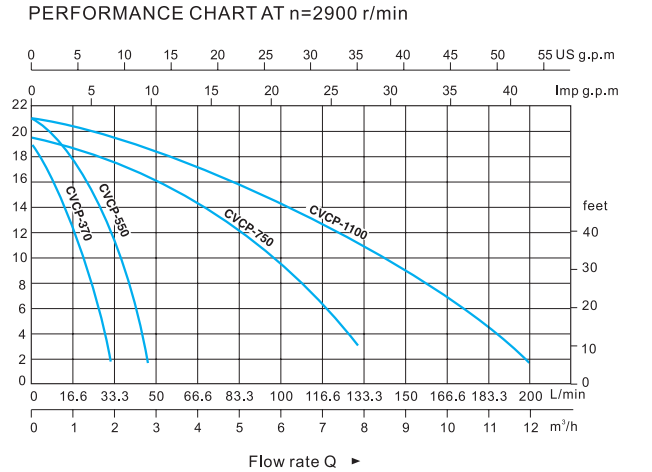
- Two-Pole induction motor(n=2900 r.p.m.)
- Insulation Class B-Protection IPX4

### Material:

- Pump Body: Cast Aluminum
- Impeller: Cast Aluminum
- Motor Shaft: Hi-Cr plated 45# Steel
- Mechanical Seal: Ceramic / Graphite

### Installation and Use:

- Centrifugal single impeller low head water pumps for flow irrigation systems.
- The pump major function is to boost and maintain pressure in domestic water supply systems. The water source can be a well or a water tank. Pressure boost in municipal water supply systems is allowed on condition the total summing pressure in the system does not exceed 4 Bar.
- Suitable to pump clean water or non-aggressive liquids charged with small solid impurities. Sand content is allowed up to 40 mg/m<sup>3</sup>. Higher concentration of solid impurities lead to shortening of pump life.
- To be used in flow irrigation systems in gardening and agriculture.



CVCP-370



CVCP-550



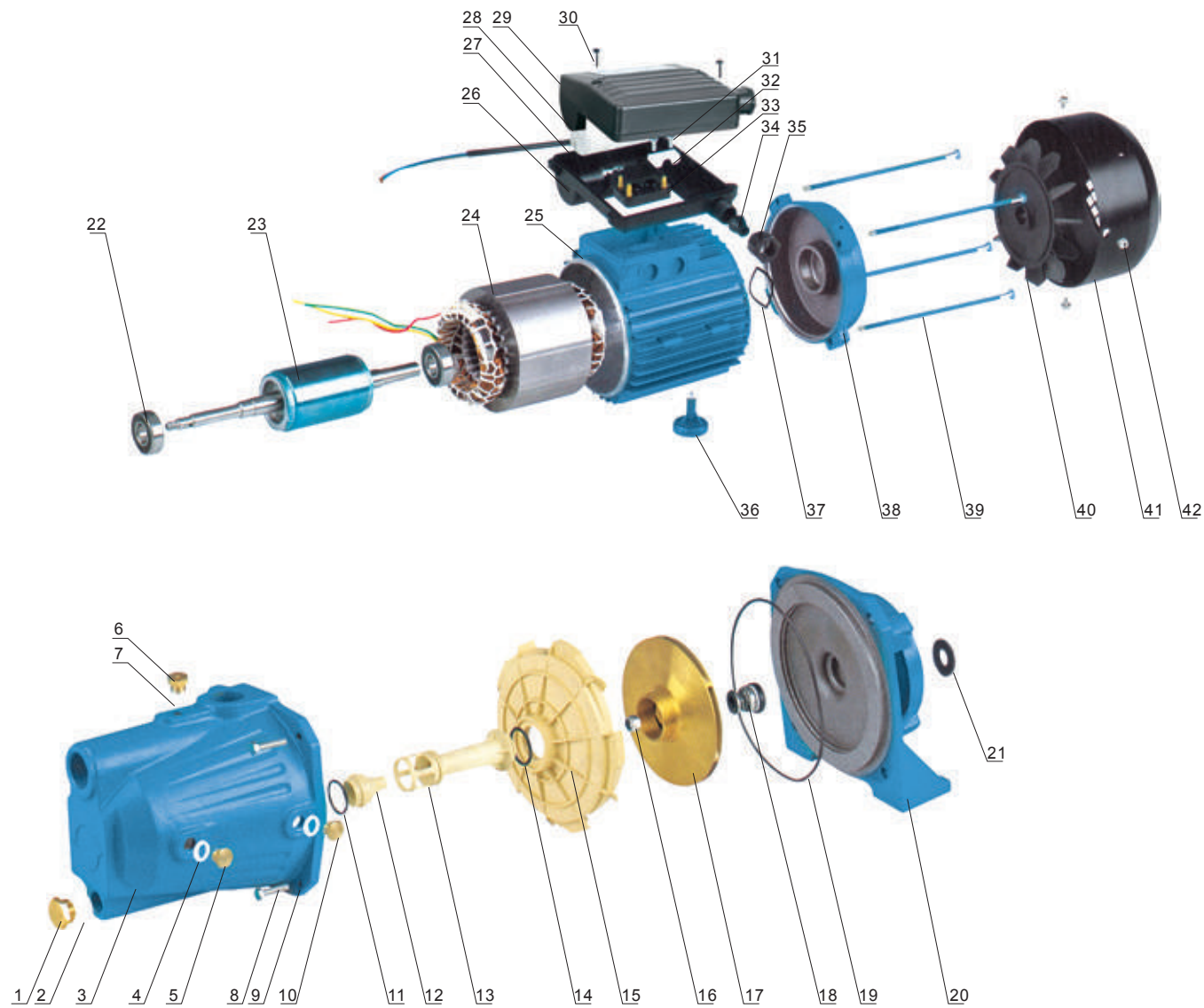
CVCP-750

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
CVCP-370	CVCP-370T	0.37	0.5	¾"×¾"	33	19	8	6.5	250×250×320	1400
CVCP-550	CVCP-550T	0.55	0.75	¾"×¾"	43	21	8	9	352×239×243	1370
CVCP-750	CVCP-750T	0.75	1	1"×1"	130	19.5	8	10	390×239×243	1250
CVCP-1100	CVCP-1100T	1.1	1.5	1¼"×1¼"	200	21	8	11	440×246×255	1000



# Self-priming Jet Pump Series

## Diagram



NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	Drain Plug	15	Diffuser	29	Terminal Cover
2	"O" Ring for Drain Plug	16	Impeller Stop Nut	30	Screw for Terminal Box Fixing
3	Pump Body	17	Impeller	31	Screw for Cable Presser
4	"O" Ring for Gauge Plug	18	Mechanical Seal	32	Cable Presser
5	Gauge plug	19	"O" Ring for Pump Body	33	Terminal Board
6	"O" Ring for Filling Plug	20	Motor Bracket	34	Outlet Hole
7	Filling Plug	21	Splash Guard	35	Waterproof Fairlead
8	Screw for Pump Body	22	Pump Side Ball Bearing	36	Foot
9	"O" Ring for Switch Plug	23	Shaft and Rotor	37	Adjusting Ring
10	Switch Plug	24	Stator	38	Motor Cover
11	"O" Ring for Nozzle	25	Motor Case	39	Motor Tie-rod
12	Nozzle	26	Capacitor Holding Box	40	Fan
13	Venturi	27	Washer for Terminal Board	41	Fan Cover
14	"O" Ring for Diffuser	28	Capacitor	42	Screw for Fan Cover

# CJCT

# Self-priming Jet Pump

## Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

## Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

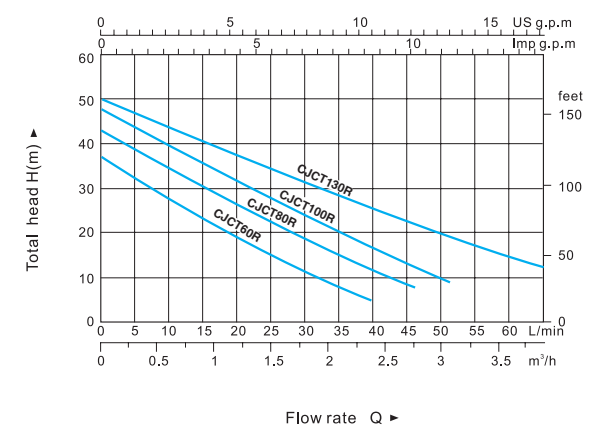
## Material:

- Pump Body: Stainless steel
- Impeller: Stainless Steel/Brass/Plastic
- Motor Bracket: Cast Iron (or Cast Aluminum)
- Motor Shaft: AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical Seal: Ceramic / Graphite

## Installation and Use:

- They are recommended for pumping clean water and liquids that are chemically non aggressive to the materials from which the pump is made.
- Due to their reliability and quiet running, they are suitable for domestic applications including water supplier (as a pressure set), garden irrigation, etc.
- The pumps must be installed in closed places, or at least protected against inclement weather.

PERFORMANCE CHART AT n=2900 r/min



CJCT100R



Optional

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
CJCT60R	CJCT60RT	0.37	0.5	1"x1"	40	38	8	9.5	420x220x230	1900
CJCT80R	CJCT80RT	0.55	0.75	1"x1"	46	42	8	10.5	420x220x230	1320
CJCT100R	CJCT100RT	0.75	1	1"x1"	52	48	8	11.5	420x220x230	1320
CJCT130R	CJCT130RT	0.9	1.2	1"x1"	65	50	8	12.5	420x220x230	1320

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 50°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

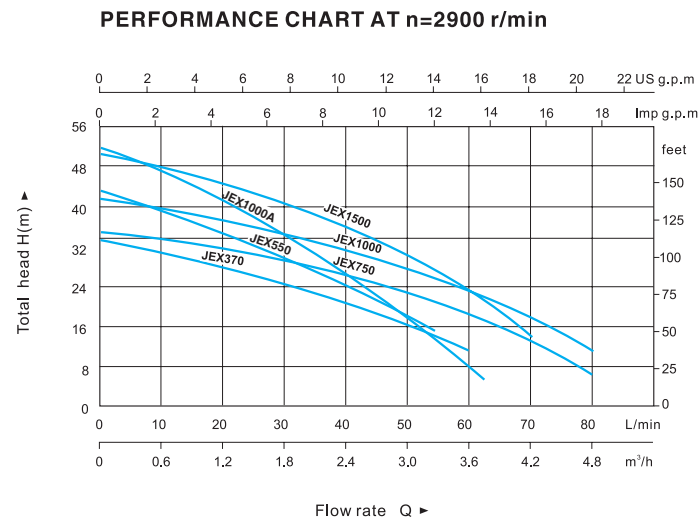
- Two-Pole induction motor (n=2900 r/min)
- Insulation Class F
- Protection IP55

### Material:

- Pump Body: AISI 304 Stainless steel
- Impeller: Stainless Steel / Plastic
- Motor Shaft: Stainless Steel
- Mechanical Seal: Ceramic / Graphite / NBR

### Installation and Use:

- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis.
- Booster systems
- Washing systems, garden irrigation, fountains
- Pumping from wells or tanks



JEX370



JEX750  
JEX1000  
JEX1000A



Pump with presscontrol

MODEL		POWER(P2)		IN LET / OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
JEX370	JEX370T	0.37	0.5	1"x1"	60	32	8	7.5	390x195x220	1570
JEX550	JEX550T	0.55	0.75	1"x1"	55	42	8	7.5	390x195x230	1570
JEX750	JEX750T	0.55	0.75	1"x1"	80	34	8	10	385x200x280	1300
JEX1000	JEX1000T	0.75	1	1"x1"	80	41	8	11	385x200x280	1300
JEX1000A	JEX1000AT	0.75	1	1"x1"	63	51	8	11	385x200x280	1300
JEX1500	JEX1500T	1.0	1.5	1"x1"	70	50	8	12	460x215x315	900

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

### Material:

- Pump Body: Cast Iron
- Impeller: Brass/Plastic/Stainless Steel
- Motor Shaft: Carbon Steel / AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical Seal: Ceramic / Graphite

### Installation and Use:

- They are recommended for pumping clean water and liquids that are chemically non aggressive to the materials from which the pump is made.
- They are designed for suction lifts and can be positioned above the water source, including applications with air entrained in the water. Due to their reliability and low maintenance, they are recommended for domestic use, including water distribution (as part of a pressure set), garden irrigation, etc.
- The pumps must be installed in closed places, or at least protected against inclement weather.



JETXXXLB



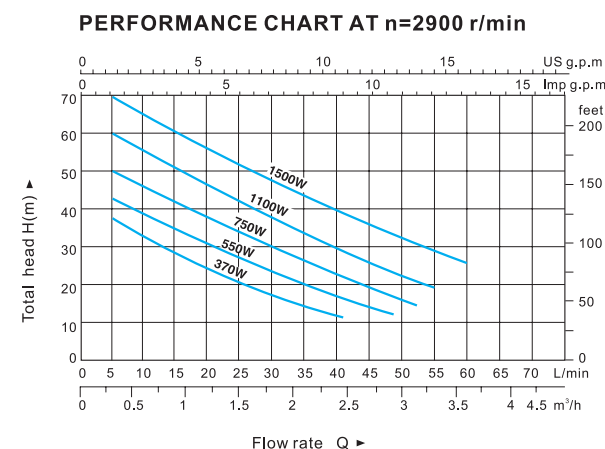
Optional



JETXXXL



JETXXXLC



MODEL		POWER(P2)		INLET / OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
JET60L(B,C)	JET60L(B,C)T	0.37	0.5	1"x1"	40	38	8	13.2	480x210x220	1200
JET80L(B,C)	JET80L(B,C)T	0.55	0.75	1"x1"	46	42	8	15.3	480x210x220	1020
JET100L(B,C)	JET100L(B,C)T	0.75	1	1"x1"	52	48	8	16.8	480x210x220	970
JET120LC	JET120LCT	1.1	1.5	1½"x1¼"	55	60	8	32.5	590x255x288	560
JET140LC	JET140LCT	1.5	2	1½"x1¼"	60	70	8	34.5	590x255x288	520



### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 35°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

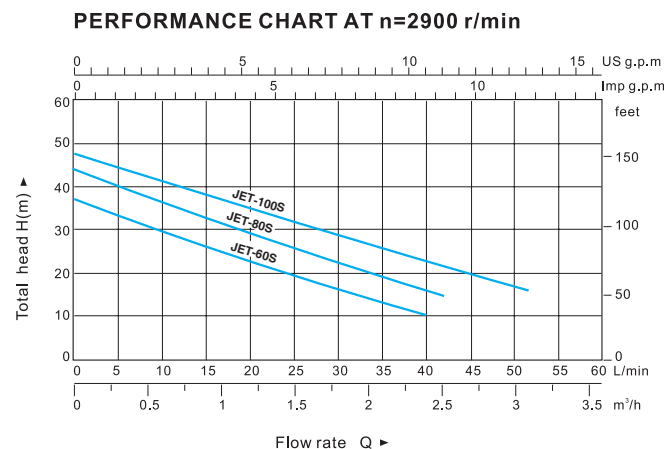
- Two-Pole induction motor(n=2900 r/min)
- Insulation Class B
- Protection IPX4

### Material:

- Pump Body: Cast Iron
- Impeller: Brass/Plastic/Stainless Steel
- Motor Shaft: Carbon Steel / AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical Seal: Ceramic / Graphite

### Installation and Use:

- They are recommended for pumping clean water and liquids that are chemically non aggressive to the materials from which the pump is made. Jet self-priming pumps are designed for suction lifts and can be positioned above the water source, including applications with air entrained in the water. Due to their reliability and low maintenance, they are recommended for domestic use, including water distribution (as part of a pressure set), garden irrigation, etc.



JET-100S



Optional

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
JET-60S	JET-60ST	0.37	0.5	1"x1"	40	38	8	11.5	480x210x220	1350
JET-80S	JET-80ST	0.55	0.75	1"x1"	46	42	8	14.5	480x210x220	1240
JET-100S	JET-100ST	0.75	1	1"x1"	52	48	8	16.5	480x210x220	1100

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

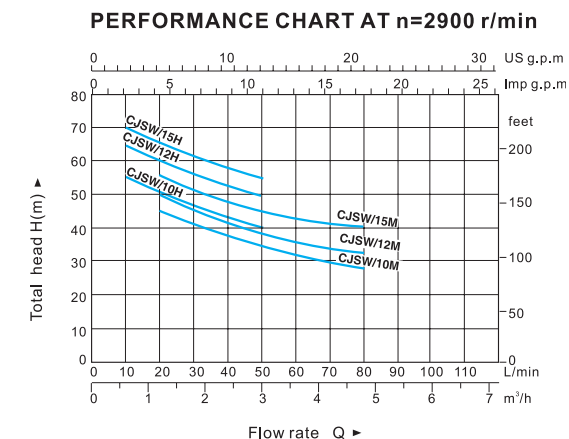
- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

### Material:

- Pump Body: Cast Iron
- Impeller: Brass / Plastic / Stainless Steel
- Motor Shaft: Carbon Steel / AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical Seal: Ceramic / Graphite

### Installation and Use:

- They are recommended for pumping clean water and liquids that are chemically non aggressive to the materials from which the pump is made.
- They are designed for suction lifts and can be positioned above the water source, including applications with air entrained in the water. Due to their reliability and low maintenance, they are recommended for domestic use, including water distribution (as part of a pressure set), garden irrigation, etc.
- The pumps must be installed in closed places, or at least protected against inclement weather.



CJSW/10M

MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
CJSW/10H	CJSW/10HT	0.75	1	1"x1"	45	50	8	16	445x205x220	1125
CJSW/12H	CJSW/12HT	0.9	1.25	1"x1"	50	55	8	16.7	445x205x220	1050
CJSW/15H	CJSW/15HT	1.1	1.5	1"x1"	55	55	8	18	445x205x220	1000
CJSW/10M	CJSW/10MT	0.75	1	1"x1"	60	40	8	16	445x205x220	1125
CJSW/12M	CJSW/12MT	0.9	1.25	1"x1"	65	45	8	16.7	445x205x220	1050
CJSW/15M	CJSW/15MT	1.1	1.5	1"x1"	70	50	8	18	445x205x220	1000

### Operating Limits:

- Max. suction head: 8m
- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

### Material:

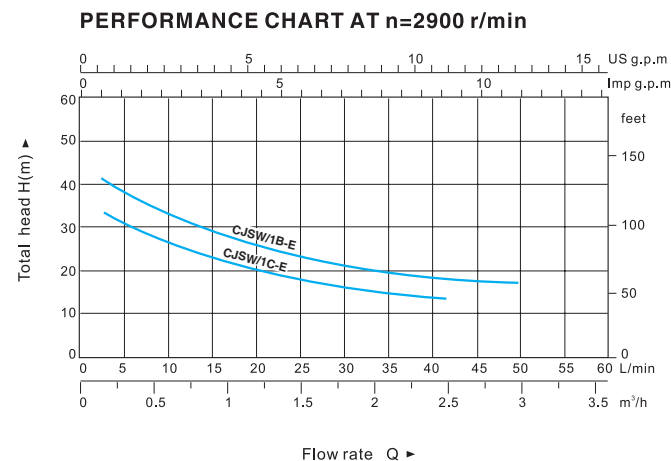
- Pump Body: Cast Iron
- Impeller: Brass / Plastic / Stainless Steel
- Motor Shaft: Carbon Steel / AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical Seal: Ceramic / Graphite

### Installation and Use:

- They are recommended for pumping clean water and liquids that are chemically non aggressive to the materials from which the pump is made.
- They are designed for suction lifts and can be positioned above the water source, including applications with air entrained in the water. Due to their reliability and low maintenance, they are recommended for domestic use, including water distribution (as part of a pressure set), garden irrigation, etc.
- The pumps must be installed in closed places, or at least protected against inclement weather.



CJSW/1C-E



MODEL		POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP							
CJSW/1C-E	CJSW/1C-ET	0.37	0.5	1"x1"	42	35	8	10.5	395x186x214	1700
CJSW/1B-E	CJSW/1B-ET	0.55	0.75	1"x1"	45	40	8	10.8	395x186x214	1665

### Operating Conditions:

- The liquid temperature is as high as 80 (including temperature protection function), the ambient temperature is as high as 40, and the maximum suction distance is 9.5 meters.

### Motor:

- Two-Pole induction motor(n=2900r/min)
- Insulation : Class F
- Protection: IP44
- Continuous service: S1
- Thermal protector
- Single-phase: 220V/50Hz

### Function:

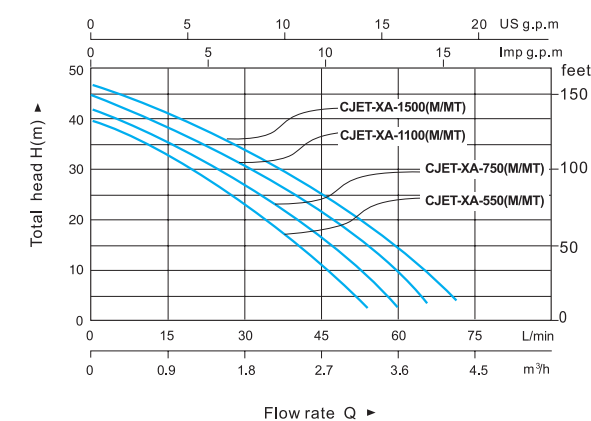
- Linear pressure sensor is used to control the starting pressure of pump instead of traditional mechanical switch.
- At the same time, it has advanced flow control system.
- The functions of the pump include:
  1. Stepless voltage regulation
  2. Plug-and-play
  3. Intelligent overlapping
  4. Flow control
  5. Water shortage protection
  6. Automatic opening of water supply
  7. Turn-off protection
  8. Electrophoresis rust prevention

### Application:

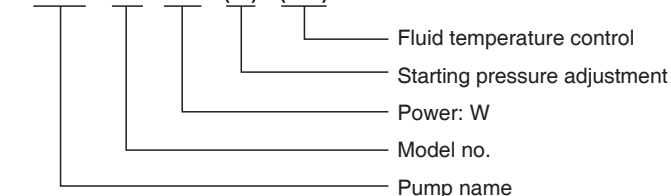
- Suitable for well water pumping, family, hotel, canteen, garden irrigation and other clean water pressurization, but also solar energy, water heater, central air conditioning and other equipment supporting pressurization preferred.

Linear pressure sensor controls start and end real implementation of intelligent stepless voltage regulation

PERFORMANCE CHART AT n=2900r/min



CJET . XA . 370 . (M) / (MT)



MODEL	POWER(P1)		MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. SUCT (m)	INLET/OUTLET	PACKING DIMENSION/UNIT (mm)
	KW	HP					
CJET-XA-550(M)	0.55	0.75	3	40	9.8	1"	480x200x278
CJET-XA-750(M)	0.75	1	3.6	42	9.8		480x200x278
CJET-XA-1100(M)	1.1	1.5	3.8	45	9.8		480x200x278
CJET-XA-1500(M)	1.5	2	4	48	9.8		480x200x278
CJET-XA-550(MT)	0.55	0.75	3	40	9.8		480x200x278
CJET-XA-750(MT)	0.75	1	3.6	42	9.8		480x200x278
CJET-XA-1100(MT)	1.1	1.5	3.8	45	9.8		480x200x278
CJET-XA-1500(MT)	1.5	2	4	48	9.8		480x200x278



**Operating Limits:**

- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

**Motor:**

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX4

**Material:**

- Pump Body: Cast Iron
- Impeller: Brass / Plastic
- Motor Shaft: Carbon Steel / AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical Seal: Ceramic / Graphite

**Application:**

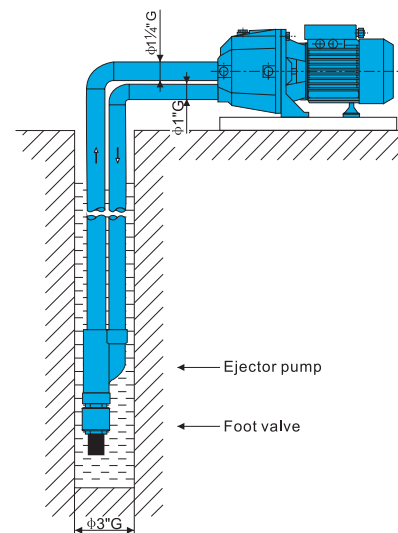
- The CQ series pumps are regarded as one of the best surface pumps for deep well water priming. It consists of two pumps connected in series, one is ejector pump and the other is centrifugal pump. The ejector pump is lowered in a 3" well and connected to the centrifugal pump body by two pipes. For working principle, please refer to the pipe connection below.
- Usually, these pumps are used with a set of TANK-AUTO system include the tank, the pressure gauge, the pressure switch, the foot valve, etc. The TANK-AUTO system is another most significant merit of this pump, which make the pumps more convenient for using.
- These pumps are suitable for pumping clean water and chemical onaggressive fluid. They are extremely reliable, economical to use in domestic applications. To ensure adequate counter-pressure, it is always better to install a foot valve with a filter on the suction end. These pumps should be installed in a covered area, protected against the weather.



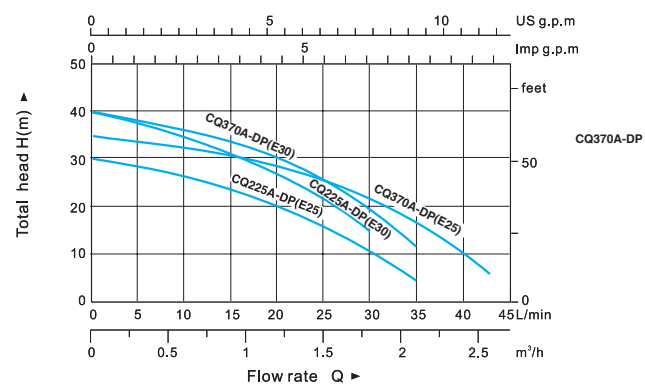
Optional



CQ370A-DP



PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER(P2)		INLET/OUTLET	EJECTOR TYPE	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP								
CQ225A-DP	0.55	0.75	1"x1"	E25	35	30	15	16.5	430x300x230	940
	0.75	1	1"x1"	E30	30	40	15			
CQ370A-DP	0.55	0.75	1"x1"	E25	43	35	15	17	430x300x230	1050
	0.75	1	1"x1"	E30	35	40	21			

**Operating Limits:**

- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Continuous duty

**Motor:**

- Two-Pole induction motor(n=2900 r/min)
- Insulation Class B
- Protection IPX4

**Material:**

- Pump Body: Cast Iron
- Impeller: Brass / Plastic
- Motor Shaft: Carbon Steel / AISI 420 Stainless Steel / AISI 304 Stainless Steel
- Mechanical Seal: Ceramic / Graphite

**Application:**

- The CQJ pumps are regarded as one of the best surface pumps for deep well in water priming. With two back to back impellers to gain good performance in suction and head output. It consists of two pumps connected in series, one is ejector pump and the other is centrifugal pump. The ejector pump is lowered in a 4" well and connected to the centrifugal pump body by two pipes. For working principle, please refer to the pipe connection below.
- Usually, these pumps are used with a set of TANK-AUTO system include the tank, the pressure gauge, the pressure switch, the foot valve, etc. The TANK-AUTO system is another most significant merit of this pump, which make the pumps more convenient for using. These pumps are suitable for pumping clean water and chemical non aggressive fluid. They are extremely reliable, economical to use, in domestic applications.
- To ensure adequate counter-pressure, it is always better to install a foot valve with a filter on the suction end. These pumps should be installed in a covered area, protected against the weather.



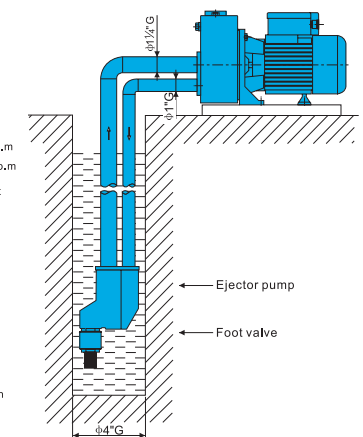
Optional



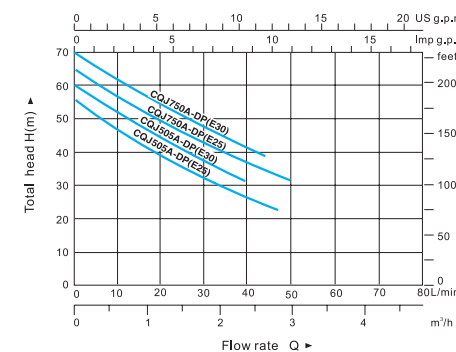
CQJ505A-DP



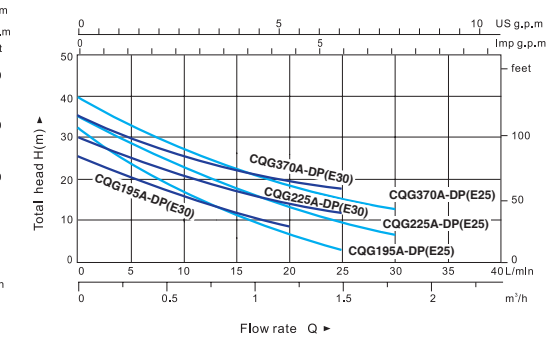
CQG370A-DP



PERFORMANCE CHART AT n=2900 r/min



PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER(P2)		INLET/OUTLET	EJECTOR TYPE	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP								
CQJ505A-DP	1.1	1.5	1 1/4"x1"x1"	E25	48	55	21	31	525x250x300	710
				E30	40	60	27			
CQJ750A-DP	1.5	2	1 1/4"x1"x1"	E25	50	65	24	32	525x250x300	710
				E30	45	70	27			
CQG195A-DP	0.46	0.6	1 1/4"x1"x1"	E25	25	32	15	16	430x300x230	700
				E30	20	26	20			
CQG225A-DP	0.55	0.75	1 1/4"x1"x1"	E25	30	35	20	16.5	430x300x230	700
				E30	25	30	25			
CQG370A-DP	0.75	1	1 1/4"x1"x1"	E25	30	40	20	17	430x300x230	700
				E30	25	35	25			

# Submersible Pump

**OPP**

**Submersible Pump**

### Operating Limits:

- Max. Depth: 5m
- Max. fluid temperature: 40°C
- Max. passage of suspended solid body:  $\Phi$  10mm
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900r/min)
- Insulation Class F
- Protection IPX8
- With capacitor and thermal overload protection

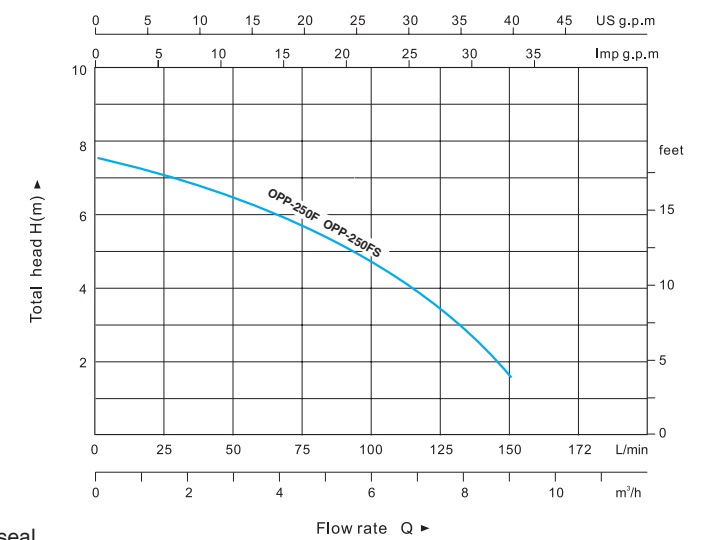
### Material:

- Pump body / Motor casing: AISI 304 Stainless steel
- Impeller: Plastic (OPP-250F)  
Stainless Steel (OPP-250FS)
- Motor shaft: Stainless Steel
- Silicon carbide Mechanical seal closed in oil chamber and lip seal

### Application:

- This pump is used for draining wells, garages, cellars or places subject to flood, garden irrigation.
- Ceramic coated shaft sleeve.

PERFORMANCE CHART AT n=2900 r/min



### For clean water



OPP-250F  
Impeller  
(PPO)



OPP-250FS  
Impeller  
(SUS304)



OPP-250F Strainer  
Max. grain 10mm



OPP-250F(Plastic impeller)  
OPP-250FS(Stainless steel impeller)

MODEL	POWER P2(KW)	IMPELLER MATERIAL	MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. DIA. OF PARTICLE (mm)	OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
OPP-250F	0.25	Plastic	9	7.5	10	1¼"	6.4	200x200x300	2250
OPP-250FS	0.25	Stainless Steel	9	7.5	10	1¼"	6.7	200x200x300	2250



# OPS

## Submersible Pump

### Operating Limits:

- Maximum liquid temperature: 50°C
- Maximum immersion: 5 m
- Maximum passage of solids: 10 mm

### Motor:

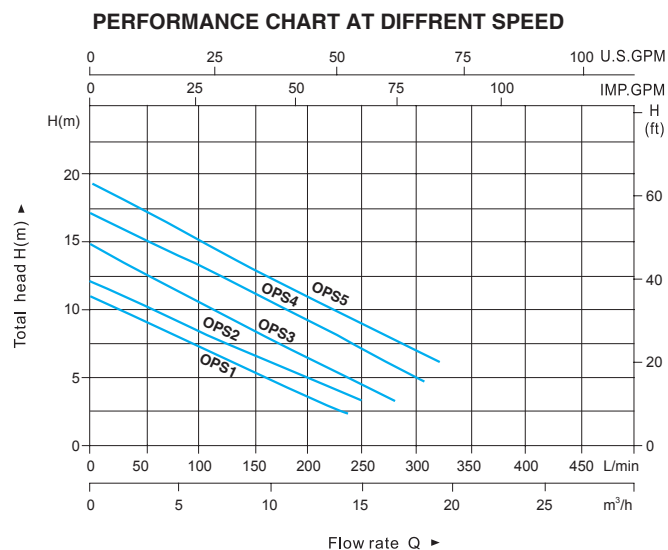
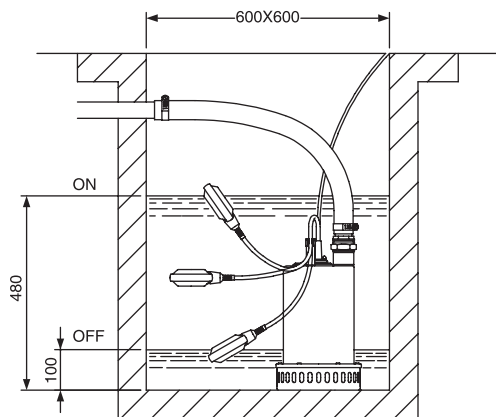
- Two-Pole induction motor (n=2900r/min)
- Insulation Class F
- Protection IPX8
- 1~230V ± 10%, 50Hz - 3~400V ± 10%, 50Hz
- Single-phase: permanent split capacitor and automatic thermal overload protection
- Three-phase: thermal protection

### Material:

- Pump casing, impeller, strainer, cover, casing cover and motor casing in AISI 304
- Shaft in AISI 304
- Double mechanical seal with interposed oil chamber upper in carbon-ceramic/NBR

### Application:

- Submersible sump pump is made of stainless steel AISI 304, its double mechanical seals ensure long life and reliability. Suitable for draining wells, plant room sump, lift shaft emptying, pools, sumps, irrigation, and water displays. Options include with - without float switch. Solids handling up to 10 mm



MODEL		POWER P2(KW)	MAX. FLOW (m³/h)	MAX. HEAD (m)	OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
Single-phase	Three-phase							
OPS1M	OPS1	0.37	13	11	1½"	9.5	425×260×300	840
OPS2M	OPS2	0.55	15	12	1½"	10	425×260×300	840
OPS3M	OPS3	0.75	16	15	1½"	10.5	425×260×300	840
OPS4M	OPS4	1.1	18	17	1½"	11	425×260×300	840
OPS5M	OPS5	1.5	19	19	1½"	12	425×260×300	840

# CSP F

## Submersible Pump

**NEW**

### Operating Limits:

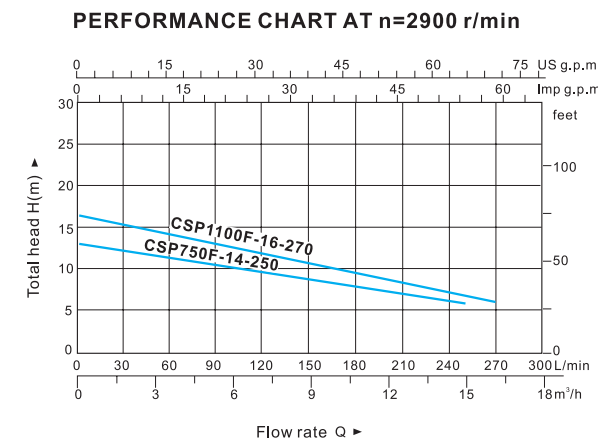
- The maximum immersion depth is 5m;
- Water temperature range is 0~40°C;
- The PH scope of water is 4~10;
- Passage of suspended solids in water is less than 4mm
- Protection: IPX8

### Materials:

- Pump body: 304 stainless steel
- Impeller: 304 stainless steel
- Motor shaft: 304 stainless steel
- Mechanical seal: nitrile graphite and ceramic/fluoro rubber and silicon carbide

### Application:

- The pump is suitable for using in seawater and common corrosive medium similar to water in density and viscosity.
- It is characterized by flexibility in usage, rust free, corrosion resistant and so on. With the change of liquid level, the float switch starts or stop the pump automatically.
- The built-in motor protector can cut off power automatically when it over current or over heat which guarantee the safe reliability when the pump operate in the atrocious environment.



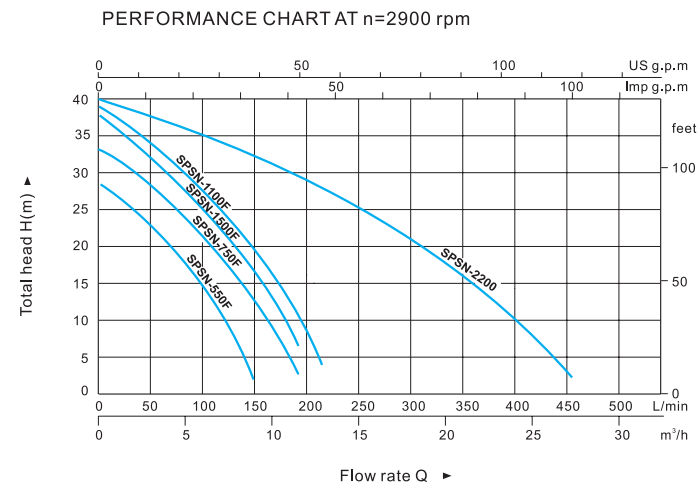
MODEL	POWER (P1)		INLET/ OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	PACKING DIMENSION/UNIT (mm)
	KW	HP					
CSP750F-14-250	0.75	1	1½"	220V 50Hz	14	15	235×275×403
CSP1100F-16-270	1.1	1.5	1½"	220V 50Hz	16	16.2	235×275×403

# SPSN

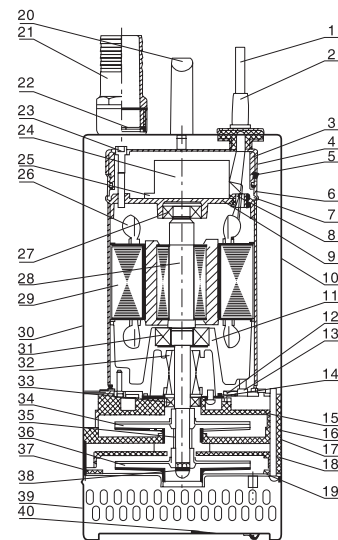
## Two-stage Stainless Steel Submersible Pump (All in S.S.)



SPSN-550F



**Diagram:**



NO.	DESCRIPTION	NO.	DESCRIPTION
1	Cable	21	Out-let connector
2	Cable protector	22	Gasket
3	Capacitor cover	23	"O"ring
4	Terminal box	24	Capacitor
5	"O"ring	25	Earthing terminal
6	Motor cover	26	Thermal Protector
7	Snap ring	27	Bearing
8	Line protector	28	Rotor
9	Upper bearing seat	29	Stator
10	Pump shell	30	Nameplate
11	Lower bearing seat	31	Bearing
12	Screw	32	Mechanical seal
13	Washer	33	Oil seal
14	"O"ring	34	Impeller
15	Upper diffuser	35	Shaft sleeve
16	Plate	36	Impeller
17	"O"ring	37	"O"ring
18	Lower diffuser	38	Nut
19	Impeller cover	39	Filter mesh
20	Handle	40	Bolt

MODEL		POWER P2(KW)	MAX. FLOW (m <sup>3</sup> /h)	MAX. HEAD (m)	MAX. DIA. OF PARTICLE (mm)	DIA. OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
W/FLOAT SWITCH	W/O FLOAT SWITCH									
SPSN-550F	SPSN-550	0.55	9	29	4	2"	H05RN-F 3G0.75mm <sup>2</sup>	13.5	210x210x450	1300
SPSN-750F	SPSN-750	0.75	11	33	4	2"	H05RN-F 3G0.75mm <sup>2</sup>	15.3	210x210x450	1150
SPSN-1100F	SPSN-1100	1.1	11	38	4	2"	H05RN-F 3G0.75mm <sup>2</sup>	17	210x210x470	1060
SPSN-1500F	SPSN-1500	1.5	12	39	4	2"	H05RN-F 3G1.0mm <sup>2</sup>	17.5	210x210x495	1050
-	SPSN-2200	2.2	27	40	4	2"	H05RN-F 3G1.5mm <sup>2</sup>	28	210x210x540	650

# SPS

## Stainless Steel Submersible Pump (S.S Case Only)

### Operating Limits:

- Max. depth: 5m
- Max. fluid temperature: 40°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

- Two-pole induction motor (n=2900 r/min)
- Insulation class F
- Protection IPX8
- Single-phase motor with built-in thermal protector

### Material:

- Pump body: Cast Iron
- Impeller: Cast Iron
- Motor shaft: Stainless Steel
- Mechanical seal: Ceramic / Graphite

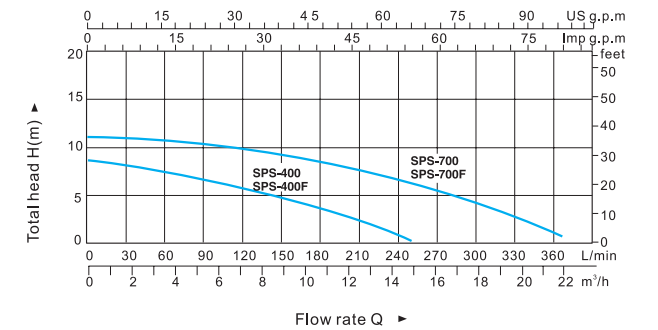
### Application:

- It is suitable in the field of industrial and mining establishments, construction sites and farming industries. It can be used to transfer liquid medicine, beverage, seawater, liquids physically close to water, and light corrosive liquids. The water-cooled design protects motor from overheating after a long time operation.
- Long service life, easy & convenient for maintenance and use, and complete drainage. A float switch automatically turns the pump on/off according to the change of the liquid level. A protector in the motor automatically shuts off the pump in case of overheating or over-current which ensures security and reliability even in an unfavorable environment.

### Dual seal and oil bath

- This pumps have ultimate motor protection with double mechanical seals, an additional lip seal and oil bath. This enables the seals to work reliably keeping water out of the motor.

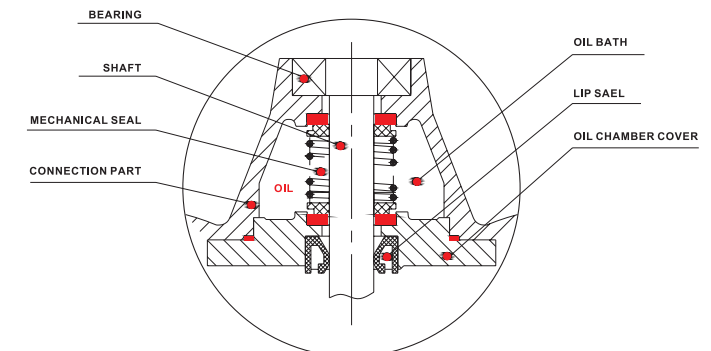
PERFORMANCE CHART AT n=2900 r/min



Impeller



SPS-400



MODEL		POWER P2(KW)	MAX. FLOW (m <sup>3</sup> /h)	MAX. HEAD (m)	MAX. DIA. OF PARTICLE (mm)	DIA. OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
W/FLOAT SWITCH	W/O FLOAT SWITCH									
SPS-400F	SPS-400	0.4	15	9	10	2"	H05RN-F 3G0.75mm <sup>2</sup>	17	230x230x445	1100
SPS-700F	SPS-700	0.7	22	11	10	2"	H05RN-F 3G0.75mm <sup>2</sup>	18	230x230x445	1100



**CSP**

**Submersible Pump**

**NEW**

**Operating Limits:**

- Water temperature range is 0~45°C;
- Insulation: Class B
- Max Dia. of particle: <8mm

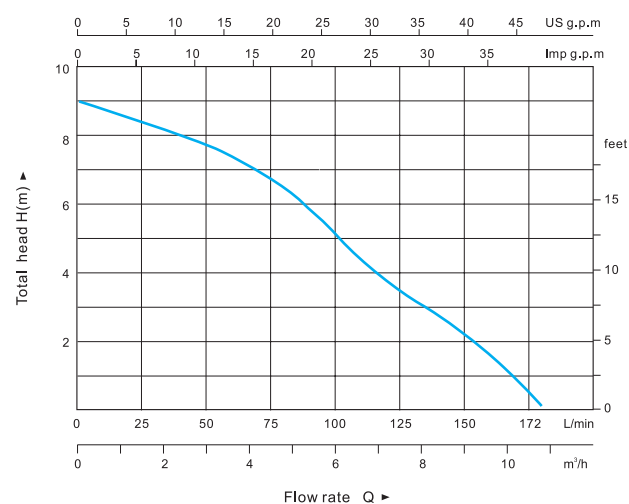
**Materials:**

- Pump body: plastic
- Impeller: plastic
- Motor shaft: SUS316 stainless steel
- Mechanical seal: graphite/SUS316 stainless steel / aluminium oxide

**Features:**

- Motor with built-in thermal protector to avoid motor from overheat
- High- flow and high-head design
- Strong plastic impeller configuration, ideal for a long time in the water with not rust
- SUS316 stainless steel motor casing, all parts that contact water will not produce rusted water, and make long service life in sewage or sea water
- Motor casing is filled with oil to make excellent cooling of the motor.
- Adjustable float level to adjust the start water level.

PERFORMANCE CHART AT n=2900 r/min



**MSP**

**Multistage Submersible Pump**

**NEW**

**Operating Limits:**

- 8m maximum immersion depth
- Liquid temperature up to 35°C
- Maximum ambient temperature 40°C
- Two-pole induction motor(n=2850 rpm)
- Insulation: Class B
- Protection IP68
- Continuous service S1
- Thermal protector
- Single-phase 220V /50Hz,60Hz available

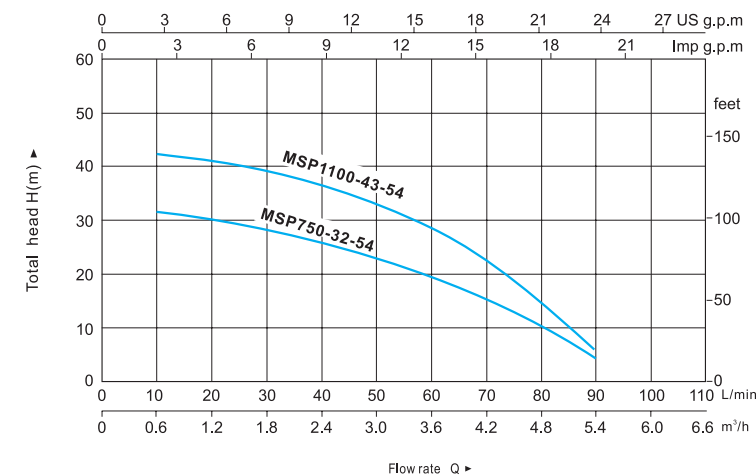
**Motor:**

- Pump body: plastic
- Impeller: plastic
- Motor shaft: steel/304 stainless steel
- Mechanical seal: Graphite/Silicon Carbide

**Application:**

- Suitable for clean water which does not contain abrasive particles.
- As a result of their reliability and the fact that they are easy to use, and suitable for use in applications such as domestic, gardening, irrigation and emptying tanks.

PERFORMANCE CHART AT n=2900 r/min



CSP250-9-180



CSP250F-9-180



CSP250FD-9-180

MODEL	POWER (P1)		INLET/ OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	PACKING DIMENSION/UNIT (mm)
	KW	HP					
CSP250-9-180	0.25	1/3	1½"	220V/50Hz	9	10.8	260×200×350
CSP250F-9-180	0.25	1/3	1½"		9	10.8	260×200×350
CSP250FD-9-180	0.25	1/3	1½"		9	10.8	260×200×350



MODEL	POWER (P1)		OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	PACKING DIMENSION/UNIT (mm)	G.W (kg)
	KW	HP						
MSP750-32-54	0.75	1	1" x 1"	220V 50Hz	32	5.4	161x152x460	15
MSP1100-43-54	1.1	1.5			43	5.4	161x152x505	16.2

### Operating Limits:

- Max. depth: 5m
- Max. fluid temperature: 40°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

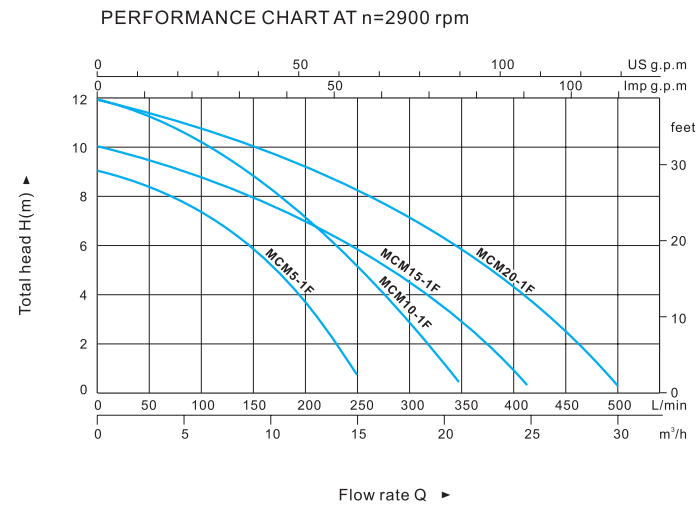
- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX8

### Material:

- Pump body: AISI 304 Stainless Steel
- Impeller: AISI 304 Stainless Steel
- Motor shaft: AISI 304 Stainless Steel
- Motor sleeve: AISI 304 Stainless Steel
- Mechanical seal: Ceramic / Graphite

### Application:

■ MCM submersible pump is designed to handle dirty water and sewage in domestic and civil applications. It is fitted with a stainless steel double vane impeller, and is suitable for pumping liquids containing suspended solids, including short fibres. It is particularly recommended for the transfer of domestic sludge, reflux and surface water, water mixed with mud in areas such as: domestic housing, industrial applications and underground car parks. This pump is particularly dependable in fixed installations intended for automatic use.



MCM10-1F



Impeller

MODEL		POWER P2(KW)	MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. DIA. OF PARTICLE (mm)	OUTLET	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
W/FLOAT SWITCH	W/O FLOAT SWITCH									
MCM5-1F	MCM5-1	0.55	15	9	50	2"	H05RN-F 3G0.75mm²	11	150x150x520	1180
MCM10-1F	MCM10-1	0.75	25	10	50	2"	H05RN-F 3G0.75mm²	12	150x150x560	1140
MCM15-1F	MCM15-1	1.1	20	12	50	2"	H05RN-F 3G0.75mm²	13	150x150x630	1110
MCM20-1F	MCM20-1	1.5	30	12	50	2"	H07RN-F 3G1.0mm²	14	150x150x630	1090

### Operating Limits:

- Max. Depth: 5m
- Max. liquid temperature: 40°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

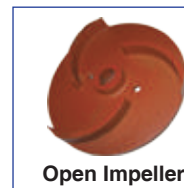
- Two-pole induction motor (n=2900 r/min)
- Insulation class F
- Protection IPX8
- Single-phase motor with built-in thermal protector

### Material:

- Pump body: NBR(SPA-450/450A/500F/750BF)  
Cast Iron(other items)
- Impeller: Rubber(SPA-450/450A/500F/750BF)  
Cast Iron(other items)
- Motor shaft: Stainless Steel
- Mechanical seal: Ceramic / Graphite

### Application:

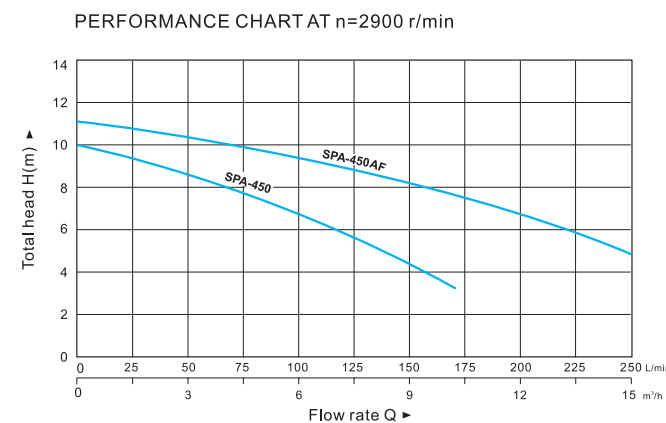
■ The clean water submersible pump is vastly used for aquariums, mine enterprises, gardens, family spray and irrigation, watering flower and flush. The portable power irrigation and drainage equipment is compact and light. The float switch can automatically control on and off with the change of the liquor level. The protector in the motor can automatically cut off the power when it overheating or over-current, thus guarantee the security and reliability of pump's operation even in the atrocious environment.



Open Impeller



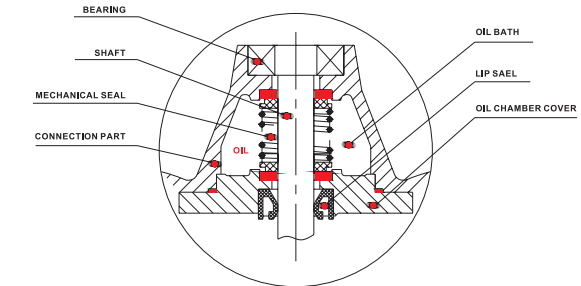
Shrouded Impeller



MODEL		POWER P2(KW)	MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. DIA. OF PARTICLE (mm)	DIA. OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
W/FLOAT SWITCH	W/O FLOAT SWITCH									
SPA-450AF	SPA-450A	0.45	15	11	2	2"	H05RN-F 3G0.75mm²	11.0	230x230x350	1650
SPA-450	-	0.45	10	10	2	1"	H05RN-F 3G0.75mm²	9.5	230x230x350	1900

### Dual seal and oil bath

"SPA"series pumps have ultimate motor protection with double mechanical seals,an additional lip seal and oil bath.This enables the seals to work reliably keeping water out of the motor.



SPA-450

The outlet can rotate by 90°degree.

Pumping up residual water up to 1mm!!



SPA-450AF

The outlet can rotate by 90°degree.



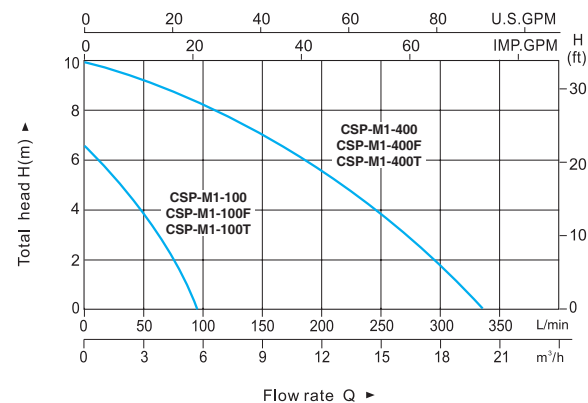
### Features:

- Utility submersible pump
- For clean water and sea water
- New design
- Manual-automatic water Level Switch
- Korean imported reinforced plastic material with good aging resistance
- Italian imported mechanical seal, improve the reliability of pump structure
- With thermal protection switch to protect the motor effectively
- The base of M-100 is designed for sucking the residual water lowest 2mm off the ground
- The new A type manual-automatic water Level Switch can be used matching with M-100 and M-400
- Automatic (A) : When the indicator is in the "A" position, the built-in float switch automatically starts and stops the pump
- Manual (B) : If need to start the pump, locate the switch knob to the indicator M position
- Different voltages and frequency of motors can be manufactured according to requirement

### Application:

- Sea water use: mariculture fishery place and marine equipment
- Suitable for circulating water in ponds and gardens
- Commercial parking lots, road shops, swimming pools, water reservoir and depression drainage
- Water discharge in civil engineering and construction
- M-100 is a suction type of low water level ,suitable for drainage of household roof, garage, wine cellar, basement and etc.

PERFORMANCE CHART AT DIFFRENT SPEED



CSP-M1-100T



CSP-M1-400F

MODEL	POWER P1(W)	MAX. FLOW (L/min)	MAX. HEAD (m)	OUTLET	MODEL	POWER(P2) (W)	MAX. FLOW (L/min)	MAX. HEAD (m)	OUTLET
CSP-M1-100	100	95	6.5	¾", 1"	CSP-M1-400	400	330	10	2"
CSP-M1-100F	100	95	6.5	¾", 1"	CSP-M1-400F	400	330	10	2"
CSP-M1-100T	100	95	6.5	¾", 1"	CSP-M1-400T	400	330	10	2"

### Operating Limits:

- Max. Depth: 5m
- Max. liquid temperature: 40°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

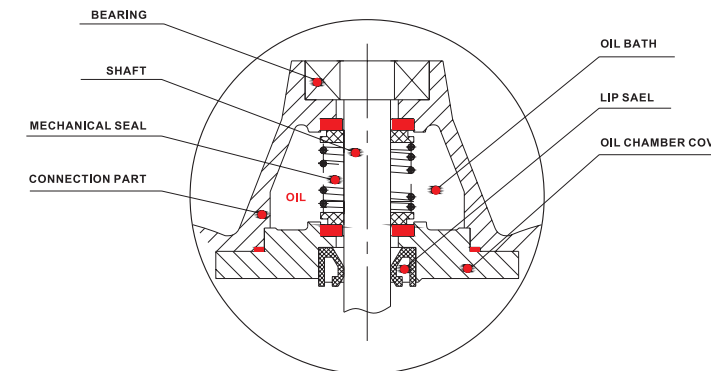
- Two-pole induction motor (n=2900 r/min)
- Insulation class B
- Protection IPX8
- Single-phase motor with built-in thermal protector

### Material:

- Pump body: Cast Iron
- Impeller: Plastic(V180, V250)  
Cast Iron(other models)
- Motor shaft: Stainless Steel
- Mechanical Seal: Ceramic/Graphite

### Dual seal and oil bath

- "V" series pumps have ultimate motor protection with double mechanical seals,an additional lip seal and oil bath.This enables the seals to work reliably keeping water out of the motor.



### Application:

- Single-phase sewage submersible pump is an advanced and ideal drainage helper. With the distinct design of wetted parts, it can work safely and efficiently at a wide flow range with the feature of total head (non-overload). Impeller, large channel and anti clogging, which makes the pump efficiently transfer liquids with solids up to 35 mm and long fibers. Bottom suction structure makes complete drainage; stainless steel and special cast iron material make it anti-corrosive. A float switch automatically turns the pump on/off according to the change of the liquid level. A protector in the motor automatically shuts off the pump in case of overheating or over-current security and reliability even in an unfavorable environment.

### Open Impeller

- Good at handling solids as the open design allows a semi cutting action to clear the pump. Used where there is a possibility that solids need to be pumped and clog the pump.



V180 Impeller



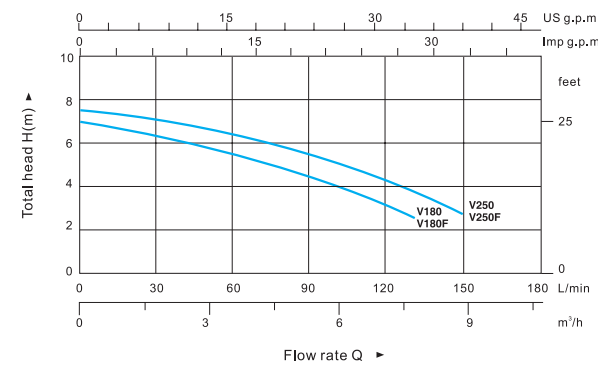
V2200 Impeller



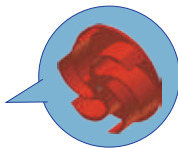
V180F/V250F



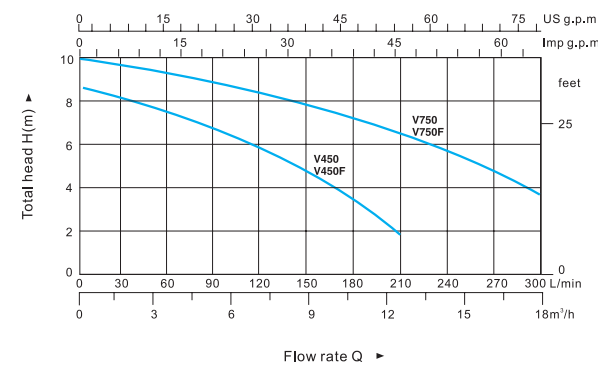
PERFORMANCE CHART AT n=2900 r/min



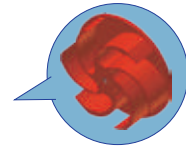
V450F



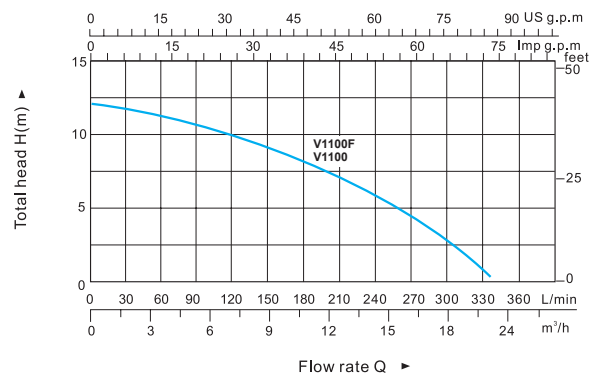
PERFORMANCE CHART AT n=2900 r/min



V1100F



PERFORMANCE CHART AT n=2900 r/min

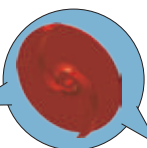


MODEL		POWER P2(KW)	MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. DIA. OF PARTICLE (mm)	DIA. OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
W/FLOAT SWITCH	W/O FLOAT SWITCH									
V180F	V180	0.18	8	7	15	1", 1¼", 1½"	H05RN-F 3G0.75mm²	8.5	185×180×360	2200
V250F	V250	0.25	9	7.5	15	1", 1¼", 1½"	H05RN-F 3G0.75mm²	9.5	185×180×380	2000
V450F	V450	0.45	12	8.5	25	2"	H05RN-F 3G0.75mm²	18.5	260×195×495	1050
V750F	V750	0.75	18	10	25	2"	H05RN-F 3G1.0mm²	19.5	260×195×535	1000
V1100F	V1100	1.1	23	12	35	2"	H07RN-F 3G1.5mm²	23.5	275×225×555	840

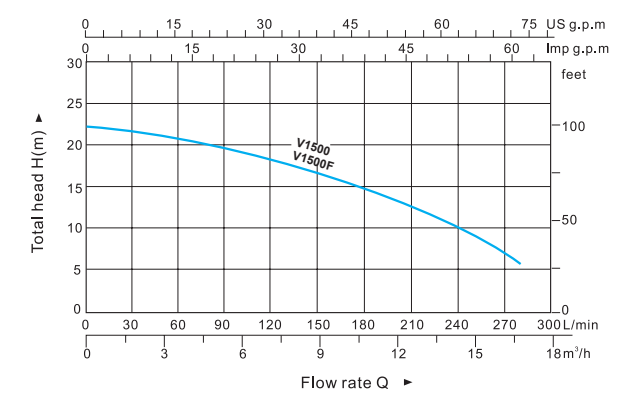


V1500F

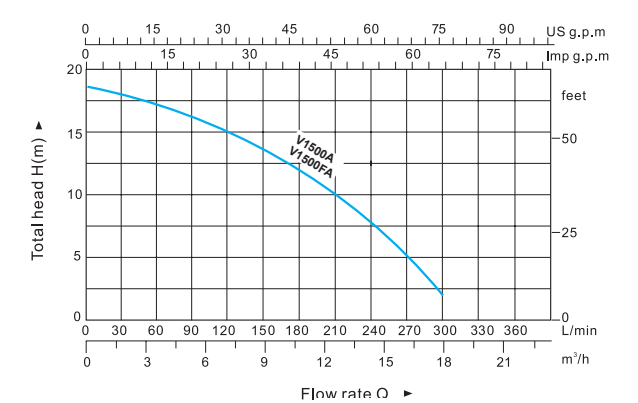
V1500FA



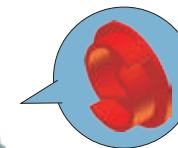
PERFORMANCE CHART AT n=2900 r/min



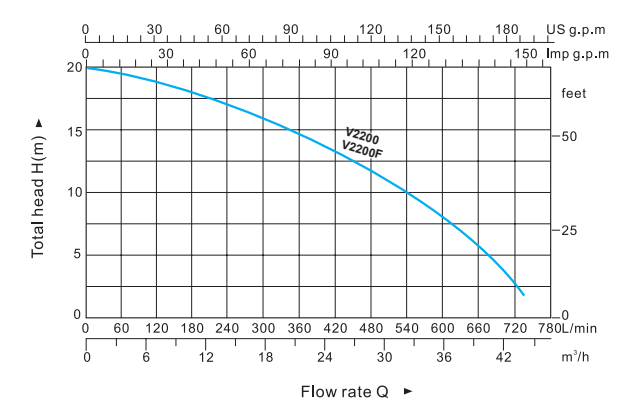
PERFORMANCE CHART AT n=2900 r/min



V2200F



PERFORMANCE CHART AT n=2900 r/min



MODEL		POWER P2(KW)	MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. DIA. OF PARTICLE (mm)	DIA. OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
W/FLOAT SWITCH	W/O FLOAT SWITCH									
V1500F	V1500	1.5	17	22	10	2"	H07RN-F 3G2.0mm²	26.5	350×250×590	540
V1500FA	V1500A	1.5	28	18	10	2"	H07RN-F 3G2.0mm²	26.5	350×250×590	540
V2200F	V2200	2.2	43	20	20	2"	H07RN-F 3G2.0mm²	35	350×250×590	540



**Operating Limits:**

- Max. Depth: 5m
- Max. liquid temperature: 40°C
- Max. ambient temperature: 40°C
- Continuous duty

**Motor:**

- Two-pole induction motor (n=2900 r/min)
- Insulation class F
- Protection IPX8
- Single-phase motor with built-in thermal protector

**Material:**

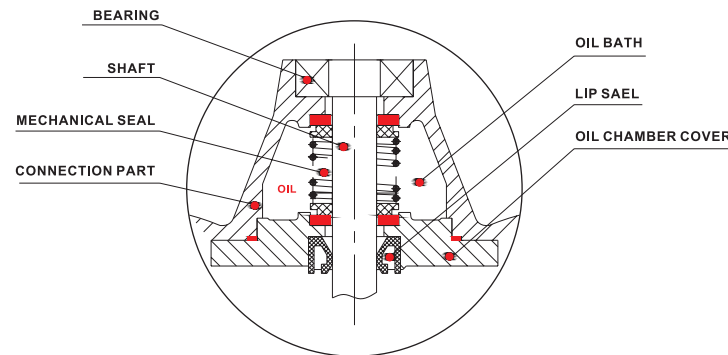
- Pump body: Cast Iron
- Impeller: Cast Iron
- Motor shaft: Stainless Steel
- Mechanical Seal: Ceramic/Graphite

**Application:**

■ Sewage submersible pumps with cutting blades are ideal for sewage disposal. A high speed cutting system in the pump inlet can efficiently cut off impurities containing long fiber and solids, and prevents impeller from clogging. It is suitable for sewage disposal in public health, industrial and mining establishments, and families. A float switch automatically turns the pump on/off according to the change of the liquid level. A protector in the motor automatically shuts off the pump in case of overheating or over-current which ensures security and reliability even in an unfavorable environment.

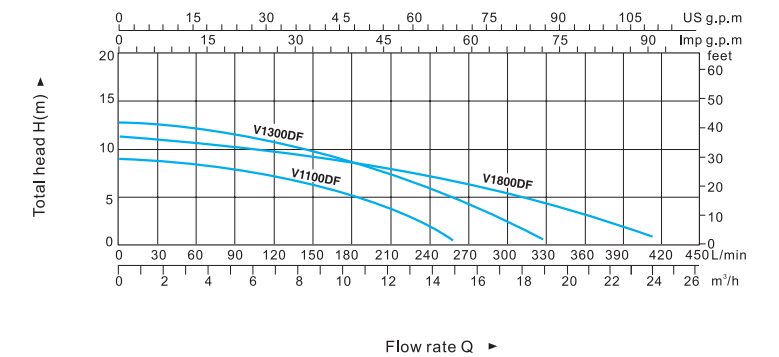
**Dual seal and oil bath**

"V"series pumps have ultimate motor protection with double mechanical seals, an additional lip seal and oil bath. This enables the seals to work reliably keeping water out of the motor.

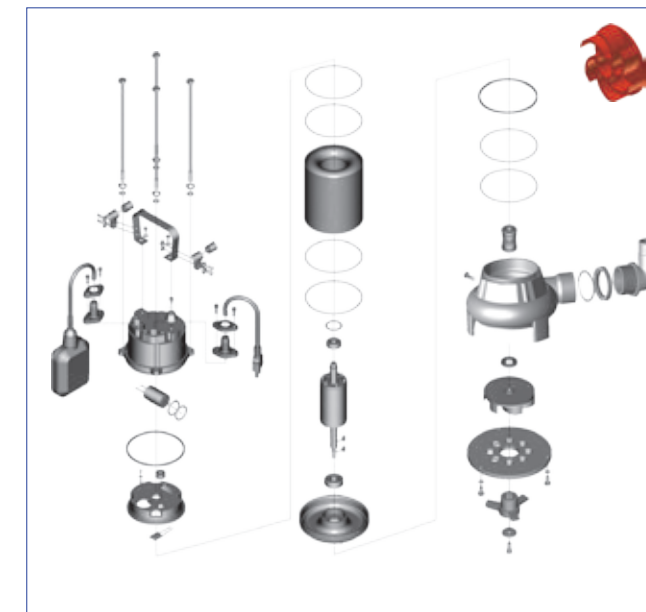


V1100DF

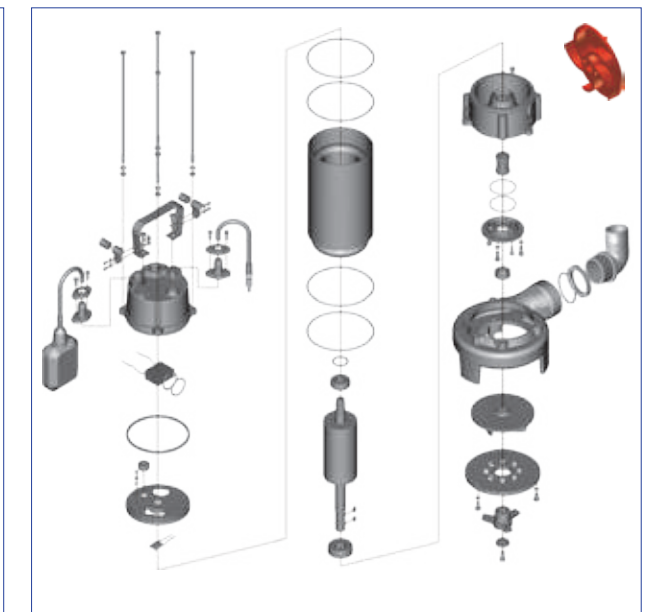
PERFORMANCE CHART AT n=2900 r/min



V1100DF



V1300DF/V1800DF



MODEL		POWER P2(KW)	MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. DIA. OF PARTICLE (mm)	DIA. OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
W/FLOAT SWITCH	W/O FLOAT SWITCH									
V1100DF	V1100D	1.1	15	9	30	2"	H07RN-F 3G1.5mm²	22.5	565x305x215	750
V1300DF	V1300D	1.3	19	13	30	2"	H07RN-F 3G1.5mm²	25	570x310x215	730
V1800DF	V1800D	1.8	24	11	30	2"	H07RN-F 3G1.5mm²	27.5	585x350x215	630



## Sewage Pump with Grinding System

### Operating Limits:

- Max. Depth: 5m
- Max. fluid temperature: 40°C
- Max. passage of suspended solid body:  $\Phi$ 30mm
- Continuous duty

### Motor:

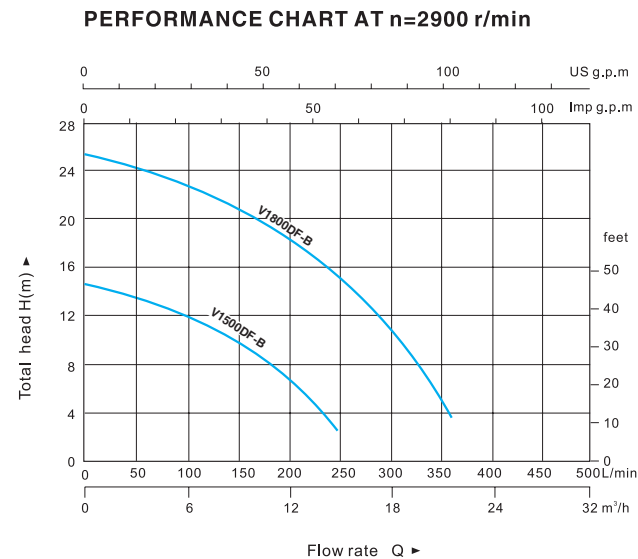
- Two-Pole induction motor (n=2900 r/min)
- Insulation Class B
- Protection IPX8
- With capacitor and thermal overload protection

### Material:

- Pump body: Cast Iron
- Impeller: Cast Iron, heavy-duty open impeller
- Motor shaft: Stainless Steel
- Mechanical seal: Silicon carbide / Graphite, with oil barrier chamber and inner lip seal to protect the seal in the event of dry running.

### Application:

- V submersible sewage grinder pumps are designed with a grinder system which grinds solids into small pieces so that they can be led away through pipes of a relatively small diameter.
- V pumps are used in pressurized systems, e.g. in hilly areas, and for similar applications.
- Pumps are designed for pumping wastewater with discharge from water closets.
- Sewage from restaurants, hotels, camping sites, etc.
- The compact design makes the pumps suitable for both temporary and permanent installation. The pumps can be installed on an auto-coupling system or stand freely on the bottom of the pit.



V1500DF-B

MODEL		POWER P2(KW)	MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. DIA. OF PARTICLE (mm)	OUTLET	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
W/FLOAT SWITCH	W/OFLOAT SWITCH									
V1500DF-B	V1500D-B	1.5	15	14.5	31.5	1½"	6	31.5	590x355x250	530
V1800DF-B	V1800D-B	1.8	21	25	38	1½"	6	38	590x355x250	530



## Sewage Pump with Grinding System

### Operating Limits:

- Max. Depth: 5m
- Max. liquid temperature: 40°C
- Max. ambient temperature: 40°C
- Continuous duty

### Motor:

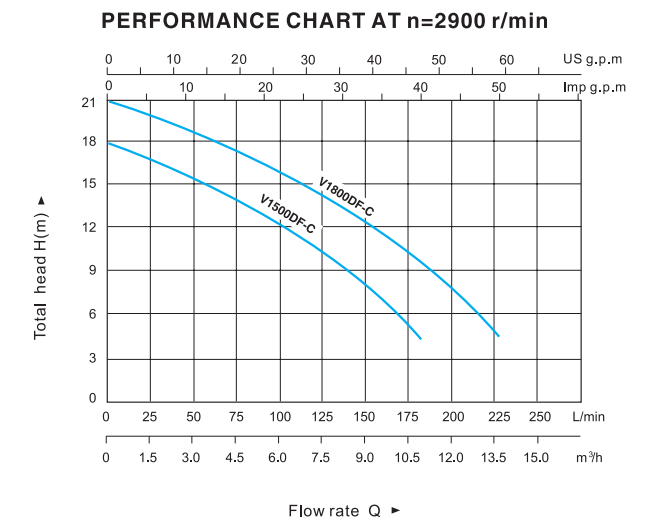
- Two-pole induction motor (n=2900r/min)
- Insulation class: B
- Protection class: IPX8
- With capacitor and thermal overload protection

### Material:

- Pump body: Stainless steel
- Pump casing: Cast iron
- Impeller: Cast iron
- Motor shaft: Stainless steel
- Mechanical seal: Silicon / Silicon+Ceramic / Graphite

### Application:

- Wastewater drainage in factories, construction sites and commercial facilities
- Drainage system in municipal sewage treatment plants
- Drainage station in residential quarters
- Municipal projects
- Methane pools and field irrigation in countryside



MODEL	POWER P2(KW)	OUTLET DIAMETER (mm)	MAX. FLOW (L/min)	MAX. HEAD (m)	CABLE (m)	OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
V1500DF-C	1.5	40	180	18	6	1½"	31	600x360x260	500
V1800DF-C	1.8	50	230	21	6	2"	34.5	600x360x260	500



### Operating Limits:

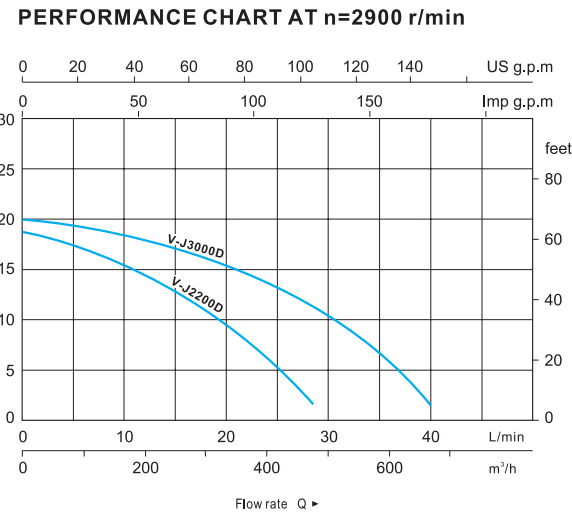
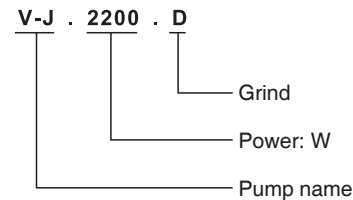
- Max. Depth: 5m
- Max. liquid temperature: 40°C
- Liquid kinematic viscosity:  $1.2 \times 10^{-3} \text{kg/m}^3$
- Liquid PH value: 4-10

### Material:

- Pump body: Cast Iron
- Impeller: Cast Iron
- Motor shaft: Stainless Steel/Carbon steel

### Application:

- V submersible sewage grinder pumps are designed with a grinder system which grinds solids into small pieces so that they can be led away through pipes of a relatively small diameter.
- V pumps are used in pressurized systems, e.g. in hilly areas, and for similar applications.
- Pumps are designed for pumping wastewater with discharge from water closets.
- Sewage from restaurants, hotels, camping sites, etc.
- The compact design makes the pumps suitable for both temporary and permanent installation. The pumps can be installed on an auto-coupling system or stand freely on the bottom of the pit.



MODEL	POWER P2(KW)	VOLTAGE FREQUENCY (V/Hz)	MAX. FLOW (m³/h)	MAX. HEAD (m)	OUTLET (mm)	G.W (kg)	PACKING DIMENSION/UNIT (mm)
V-J2200D	2.2	380/50	29	18	50	37.8	605x310x235
V-J3000D	3	380/50	40	20	65	39	605x310x235

### Operating Limits:

- Max: immersion depth: 5m
- Max: liquid temperature: +40°C
- Liquid PH value: 5-9

### Motor:

- Copper winding
- Built-in thermal protector
- Insulation class: B
- Protection class: IPX8

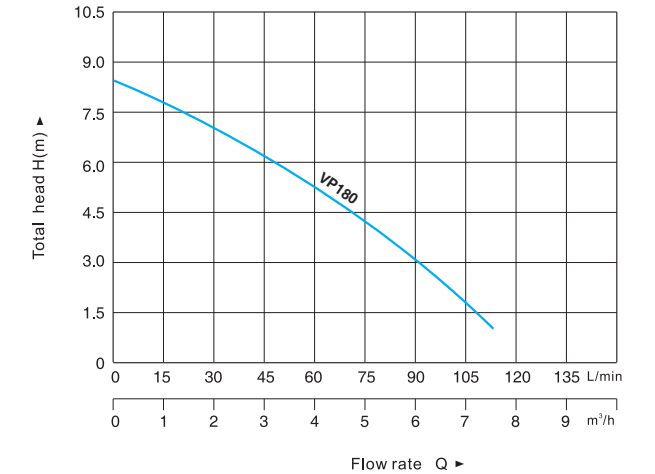
### Material:

- Capacitor Cover, impeller, Oil cylinder, Pump body, Oil cylinder cover in PA66

### Application:

- Wastewater drainage in factories, construction sites and commercial facilities
- Drainage system in municipal sewage treatment plants
- Drainage station in residential quarters
- Municipal projects
- Methane pools and field irrigation in countryside

PERFORMANCE CHART AT n=2860 r/min



MODEL	POWER P2(KW)	OUTLET DIAMETER (mm)	VOLTAGE FREQUENCY (V/Hz)	MAX.FLOW (L/min)	MAX.HEAD (m)	G.W (kg)	MAX. DIAMETER OFPARTICLE (mm)	PACKING DIMENSION/UNIT (mm)
VP180	0.18	32	220/50	142	8.5	10	6	40x227.5x219.5

**Operating Limits:**

- Max immersion depth: 5m
- Max liquid temperature: +40°C
- Liquid PH value: 5-9
- Liquid kinematic viscosity:  $7 \times 10^{-6}$  -  $23 \times 10^{-6}$  m<sup>2</sup>/s
- Max liquid density:  $1.2 \times 10^3$  kg/m<sup>3</sup>

**Motor:**

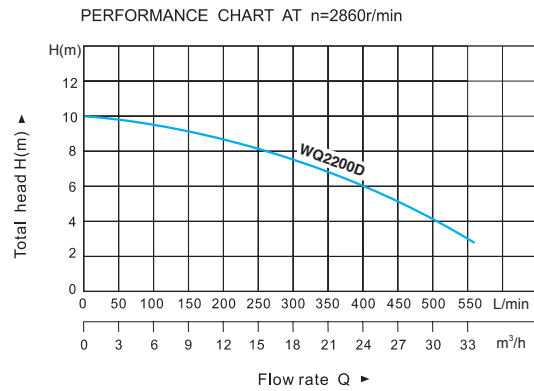
- Copper winding
- Built-in thermal protector
- Stainless steel welded shaft
- Insulation class: B
- Protection class: IPX8

**Material:**

- Pump body: HT200
- Motor casing: AISI201
- Impeller: HT200
- Oil seal: NBR
- Double mechanical seal: NBR

**Application:**

- Wastewater drainage in factories, construction sites and commercial facilities
- Drainage system in municipal sewage treatment plants
- Drainage station in residential quarters
- Municipal projects
- Methane pools and field irrigation in countryside



MODEL	POWER P2(KW)	OUTLET DIAMETER (mm)	MAX. FLOW (L/min)	MAX. HEAD (m)	CABLE (m)	OUTLET (mm)	G.W (kg)	PACKING DIMENSION/UNIT (mm)
WQ2200D	2.2	75	520	10	6	75	32	590x355x250



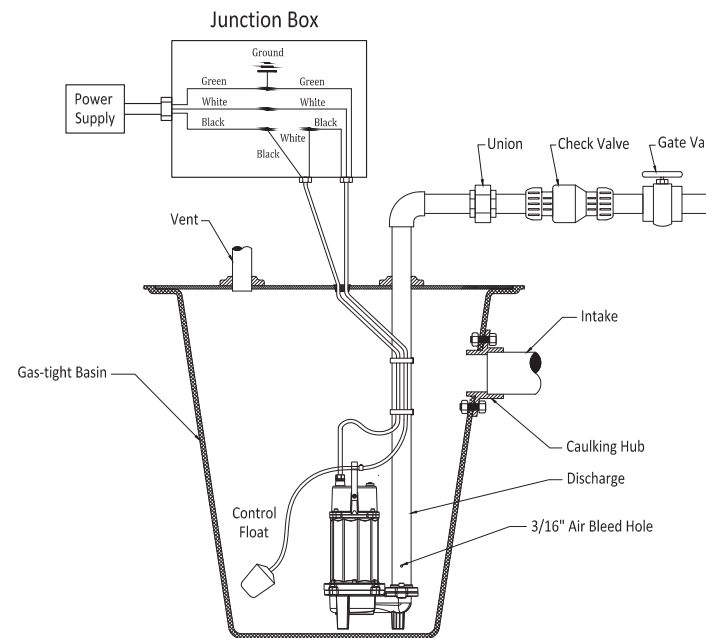
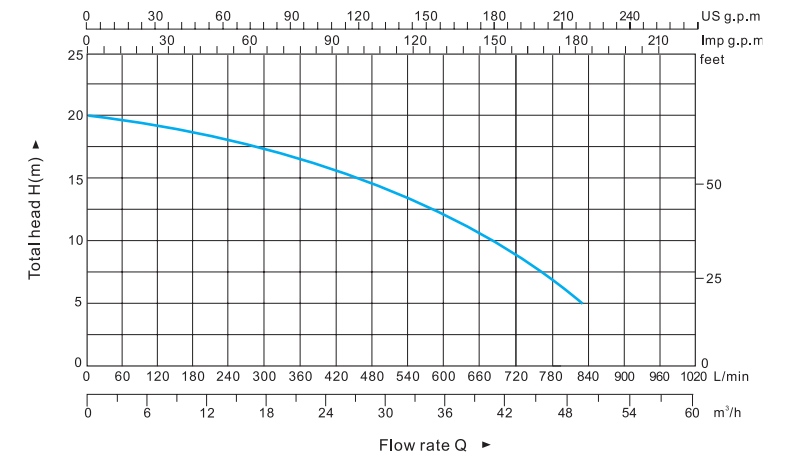
**Materials:**

- Case - cast iron
- 2" NPT discharge flange
- Impeller - cast Iron, enclosed
- Hardware - stainless steel

**Motor:**

- 2850 RPM 50Hz
- 1PH 208-230 V
- 3PH 208-230/460/575 V
- 25' of power cable
- Cast iron construction
- Thermally protected
- Stainless steel shaft
- Single two-value capacitor asynchronous motor
- Three-phase asynchronous motor

PERFORMANCE CHART AT n= 2850 r/min



MODEL	POWER (P1)		INLET/ OUTLET DIAMETER	PERFORMANCE-CUBIC METER PER HOUR AT DISCHARGE HEAD IN METER			MAX. HEAD (m)	MAX. FLOW (m³/h)
	kW	HP		9.2m	12.2m	15.2m		
CA04-001(T)	3.2	4.4	2" x 2"	40 m³/h	32.7 m³/h	22.7 m³/h	20	50





**Features:**

- Dual flow channel impeller
- Cable assembly is designed uniquely, the cable can not be pulled out easily
- Copper wire motor with strong power and high performance

**Motor:**

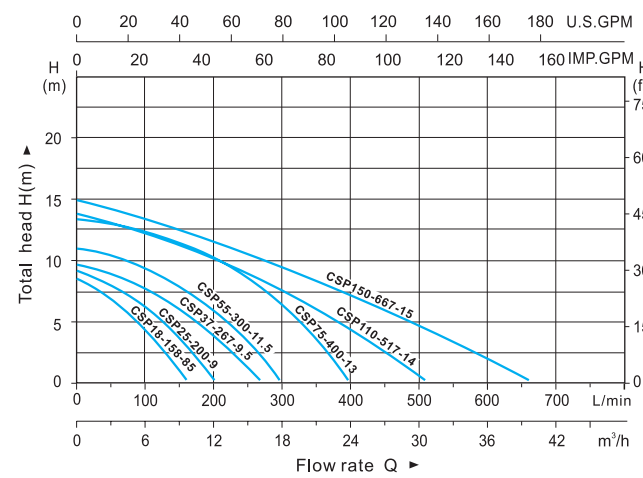
- Insulation: Class F
- Protection class: IPX8
- Single-phase motor thermal protector
- Pump casing: Cast iron

**Application:**

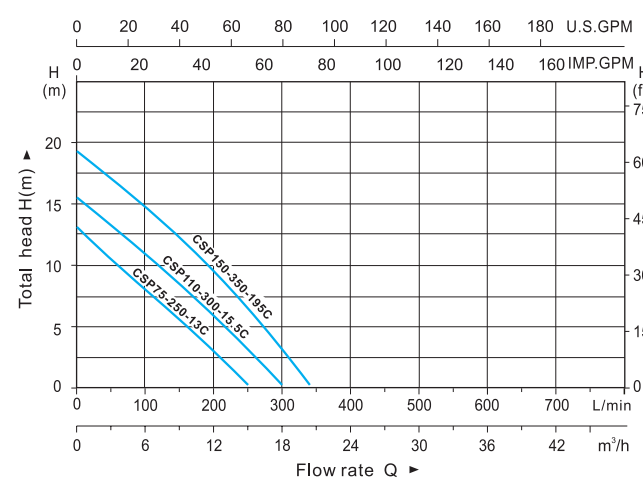
- River / field / farm / fountain / factory



PERFORMANCE CHART AT DIFFERENT MODEL



PERFORMANCE CHART AT DIFFERENT SPEED



MODEL	POWER (kW)	INLET/OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	MAX.PASSAGE OF SOLIDS (mm)
CSP18-158-85	0.18	1½"	220V/50Hz	8.5	9.5	15
CSP25-200-9	0.25	1½"		9	12	15
CSP37-267-9.5	0.37	1½"		9.5	16	20
CSP55-300-11.5	0.55	2"		11.5	18	25
CSP75-400-13	0.75	2"		13	24	25
CSP110-517-14	1.1	2"		14	31	30
CSP150-667-15	1.5	2"		15	40	30
CSP75-250-13C	0.75	2"		13	15	With Cutter
CSP110-300-15.5C	1.1	2"		15.5	18	With Cutter
CSP150-350-195C	1.5	2"	19.5	21	With Cutter	

**Operating Limits:**

- Max. depth: 5m
- Max. liquid temperature: 40°C
- Max .passage of suspended solid body: 0.2mm
- Liquid PH value: 6.5-8.5

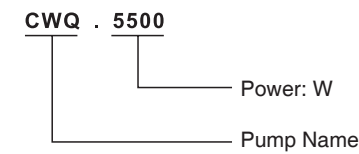
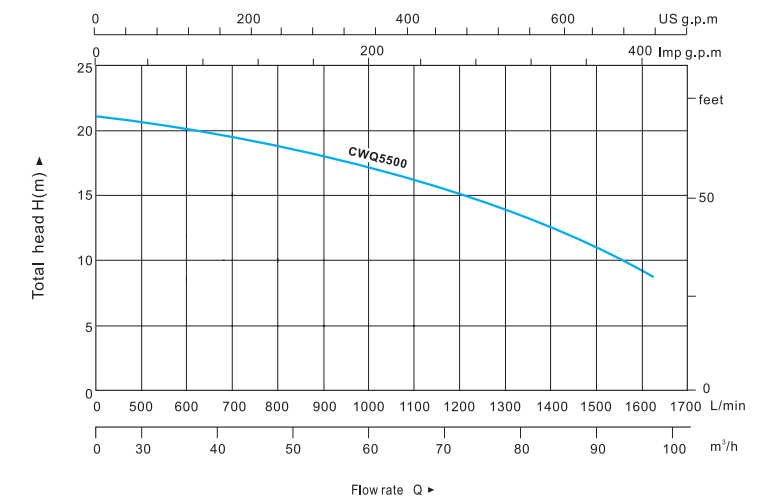
**Material:**

- Pump body: Cast Iron
- Impeller: Cast Iron
- Motor shaft: Stainless Steel/Carbon steel

**Application:**

- This submersible pump for clean water is widely used for farmland, breed aquatics, mining, construction site, and vessel's water supply and drainage. with characters of big capacity, high efficiency, green, easily moving and installing and so on.

PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER P2(KW)	VOLTAGE FREQUENCY (V/Hz)	MAX. FLOW (m³/h)	MAX. HEAD (m)	OUTLET (mm)	G.W (kg)	PACKING DIMENSION/UNIT (mm)
CWQ5500	5.5	380/50	97.8	21	75	80	610x410x430

# CWQX

## Submersible Pump (Aluminum / Cast Iron Housing)

### Operating Limits:

- Max.depth: 5m
- Max.fluid temperature: 40°C
- Max.ambient temperature: 40°C
- Continuous duty
- PH: 6.5-8.5
- Solid/Liquid: d<0.1%
- Max.Dia.of particle: <2mm

### Motor:

- Two-Pole induction motor(n=2900r/min)
- Insulation Class: B
- Protection grade: IPX8

### Material:

- Pump body: Aluminum / Cast iron
- Impeller: Aluminum / Plastic
- Motor shaft: Stainless Steel / Carbon steel
- Mechanical seal: Mechanical seal ceramic-graphite-NBR, with oil barrier chamber and inner lip seal to protect the seal in the event of dry running.

### Application:

- They are recommended for pumping clean water without abrasive particles and liquids that are chemically non-aggressive to the material of which the pump is made.
- Mainly used for well pumping, river pumping, farm irrigation, water supply, drainage in breeding industry.



CWQX.370.16.A.F  
CWQX.550.20.A.F  
CWQX.750.32.A.F  
CWQX.750.18.A.F  
CWQX.750.16.A.F  
CWQX.750.10.A.F  
CWQX.750.6.A.F



CWQX.370.16.C.F  
CWQX.550.20.C.F  
CWQX.750.32.C.F

CWQX . 370 . 16 . A (C) . F

- Float switch
- A: Aluminum
- C: Cast iron
- Rated. head(m)
- Power: W
- Pump name

MODEL	POWER(P2)		RATED. FLOW (m <sup>3</sup> /h)	RATED. HEAD (m)	DIA.OF PIPE
	(KW)	(HP)			
CWQX.370.16.A(C).F	0.37	0.5	1.5	16	25
CWQX.550.20.A(C).F	0.55	0.75	3	20	25
CWQX.750.32.A(C).F	0.75	1	1.5	32	25
CWQX.750.18.A.F	0.75	1	7	18	40
CWQX.750.16.A.F	0.75	1	10	16	50
CWQX.750.10.A.F	0.75	1	15	10	63
CWQX.750.6.A.F	0.75	1	30	6	75

# QDP/WDP

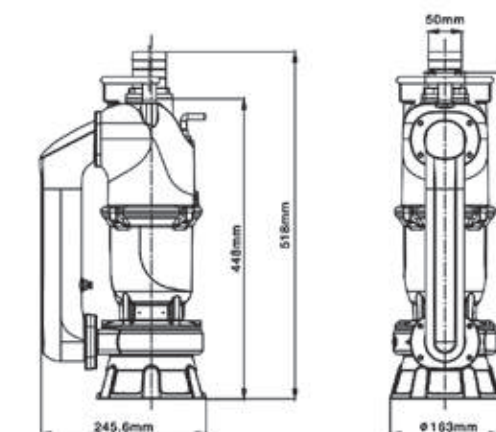
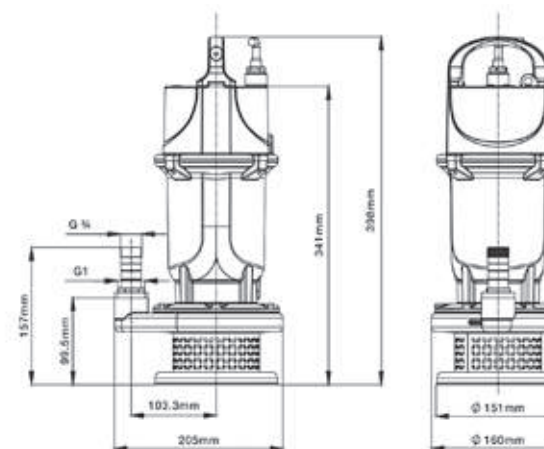
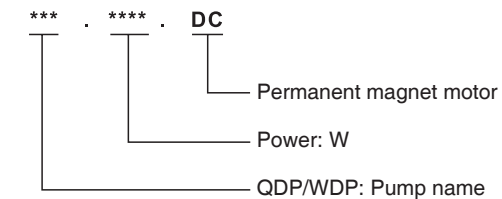
## Permanent Magnet Inverter Motor Submersible Pump

### Features:

- Permanent magnet motor
- High efficient motor
- Dry running protection
- Overheat protection
- Smaller size
- High flow rate
- Energy saving
- Low noise

### Application:

- Abrasive particles and liquids that are chemically nonaggressive to the material of which the pump is made. Mainly used for well pumping, river pumping, farm irrigation, water supply, drainage in breeding industry.



QDP



WDP

MODEL	POWER(P1)		VOLTAGE FREQUENCY (V/Hz)	RATED. FLOW (m <sup>3</sup> /h)	RATED. HEAD (m)	OUTLET	SPEED (r/min)
	KW	HP					
QDP.1100.DC	1.1	1.5	220/50/60	1.5	45	1"	5500
WDP.1100.DC	1.1	1.5	220/50/60	10	15	2"	4200



**Operating Limits:**

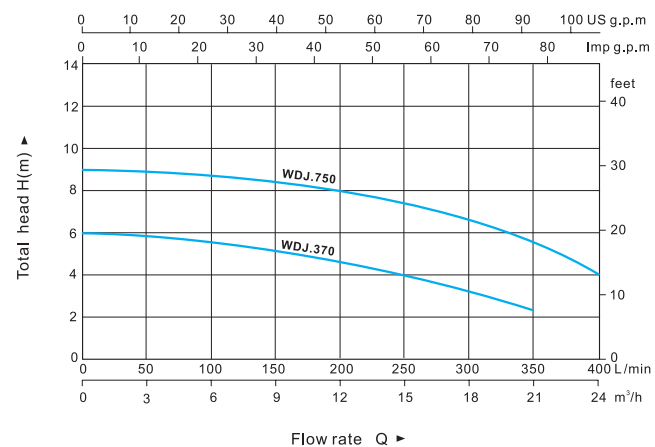
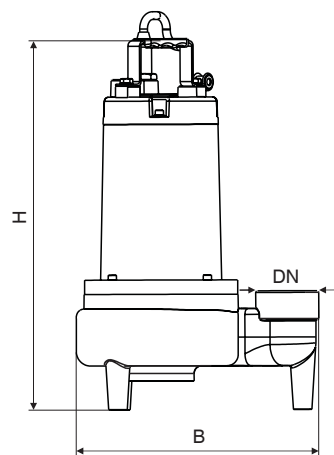
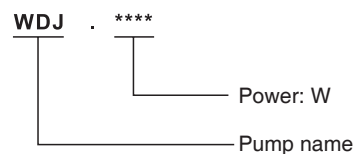
- Max. depth: 5m
- Max. liquid temperature: 40°C
- Liquid PH value: 6-8
- Liquid kinematics viscosity:  $7 \times 10^{-7} \sim 23 \times 10^{-6} \text{m}^2/\text{s}$
- Max liquid density:  $1.2 \times 10^3 \text{kg/m}^3$

**Material:**

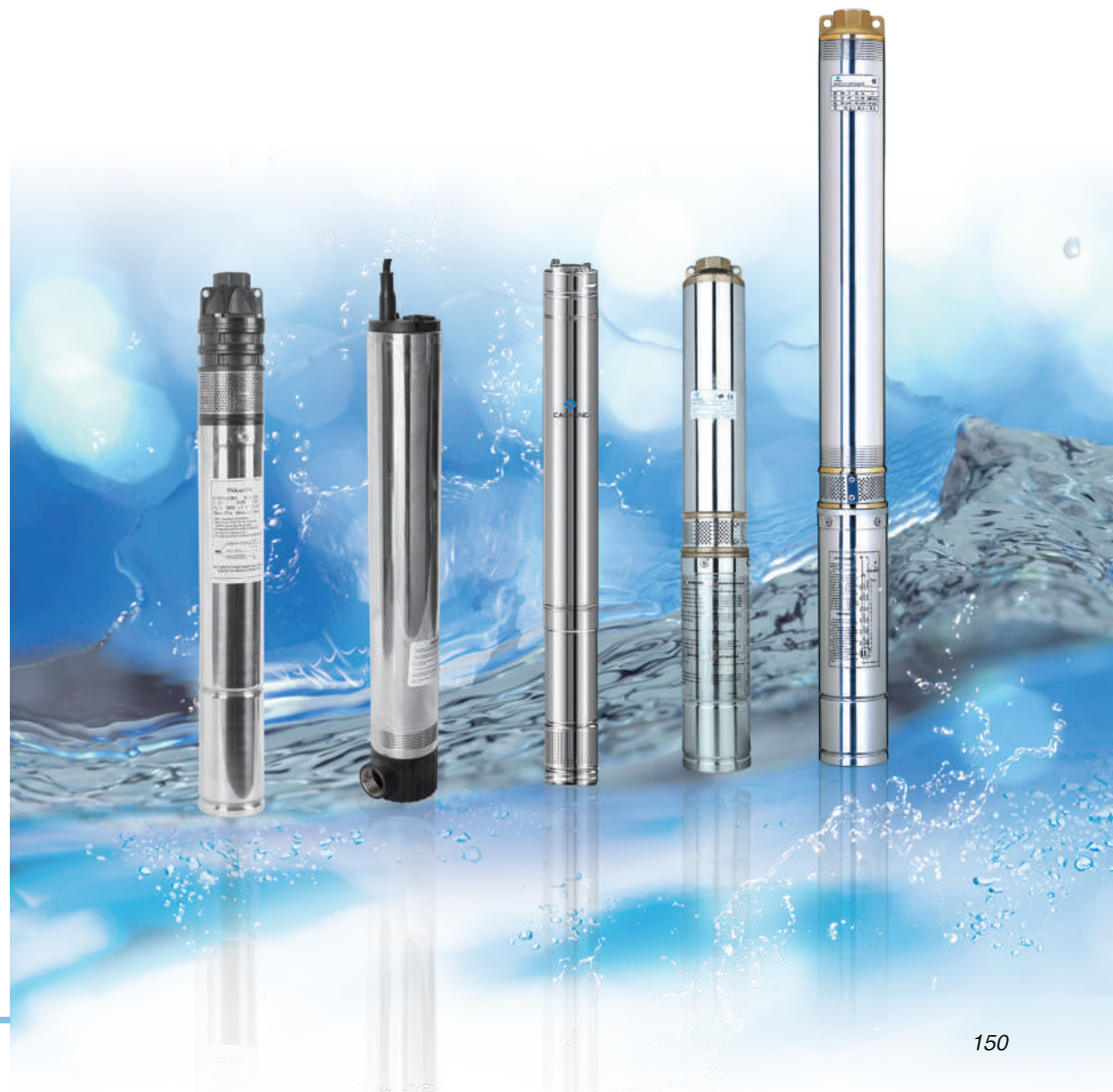
- Pump body: Cast Iron
- Impeller: Cast Iron
- Motor shaft: Stainless Steel/Carbon steel

**Application:**

■ The pump is characterized by sturdy and durable, steady running, smooth line, large flow and long service life. It is suitable for handling various kinds of wastewater. The wide tunnel design of impeller helps to easily transfer long fiber and solids whose diameter is less than 38mm. With the change of liquid level, the float switch starts or stop the pump automatically. The built-in motor protector can cut off power automatically when it over current or overheat which guarantee the safe reliability when the pump operate in atrocious environment.



# Submersible Borehole Pump



MODEL	POWER P2(KW)	VOLTAGE FREQUENCY (V/Hz)	MAX. FLOW (m³/h)	MAX. HEAD (m)	DN	SPEED (r/min)	B (mm)	H (mm)	G.W (kg)	PACKING DIMENSION/UNIT (mm)
WDJ.370	0.37	220/50	21	6	2"	1400	290	455	25.8	290x215x500
WDJ.750	0.75	220/50	24	9	2"	2900	280	463	26.3	290x215x510

# 3CSK

## 3" Submersible Borehole Pump

### Operating Limits:

- Max. liquid temperature: 40°C
- Max. immersion depth: 70m
- Min. diameter of well:  $\Phi$ 75mm

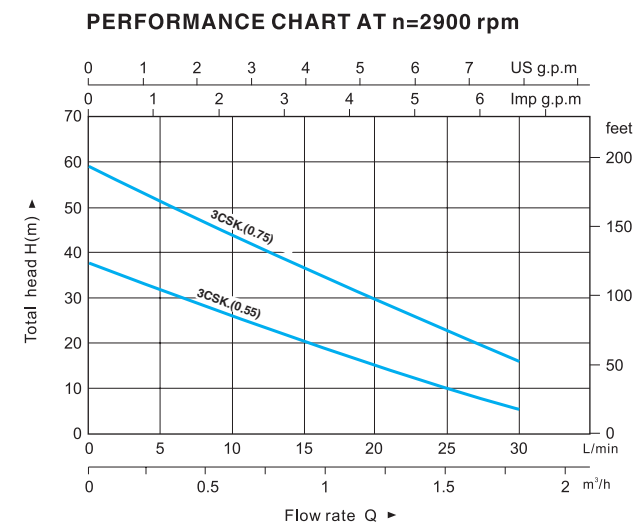
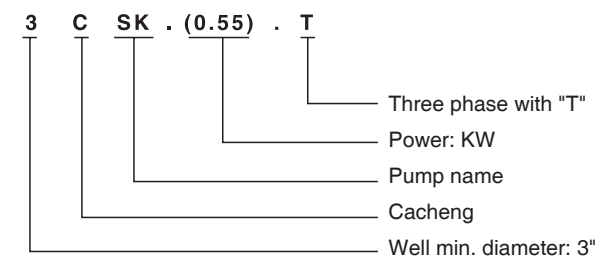
### Motor:

- Rewindable enclosed induction motor or full obturated screen coil motor (n=2900r.p.m.)
- Built-in thermal overload protector with automatic reset
- Insulation Class B
- Protection IP68
- With control box

### Application:

- Multistage submersible water pumps for 3" deep wells particularly suitable for civilian and industrial purposes such as application to sprinkler and food plants, fire installation, etc.
- Water supply from wells or reservoirs, for garden use and irrigation

### Model code:



MODEL		POWER(P2)		OUTLET	CAPACITY AND HEAD							
SINGLE PHASE	THREE PHASE	KW	HP		Q	0	5	10	15	20	25	30
3CSK.(0.55)	3CSK.(0.55).T	0.55	0.75	1"	L/min	0	5	10	15	20	25	30
					m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8
					H(m)	38	32	26	20	15	10	5
3CSK.(0.75)	3CSK.(0.75).T	0.75	1			59	51	44	37	30	23	16



# 4CSK

## 4" Submersible Borehole Pump

### Operating Limits:

- Max. liquid temperature: 40°C
- Max. immersion depth: 70m
- Min. diameter of well:  $\Phi$ 100mm

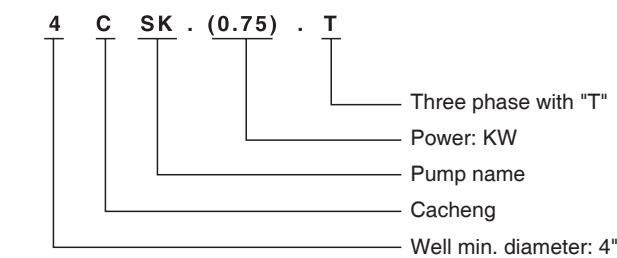
### Motor:

- Rewindable enclosed induction motor or full obturated screen coil motor (n=2900r.p.m.) continuous service
- Power: 0.55-1.5kW
- Insulation Class: B
- Protection grade: IP68

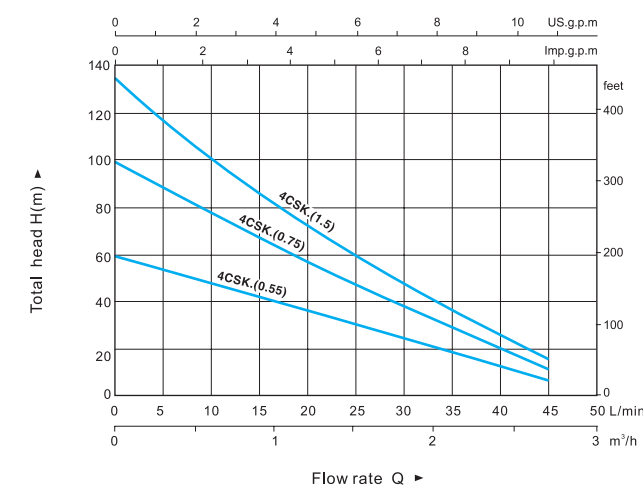
### Application:

- multistage submersible water pumps for 4" deep wells particularly suitable for civilian and industrial purposes such as application to sprinkler and food plants, fire installation, etc.
- Water supply from wells or reservoirs, for garden use and irrigation

### Model code:



PERFORMANCE CHART AT n=2900 rpm



MODEL		POWER(P2)		OUTLET	CAPACITY AND HEAD										
SINGLE PHASE	THREE PHASE	KW	HP		Q	0	5	10	15	20	25	30	35	40	45
4CSK.(0.55)	4CSK.(0.55).T	0.75	1	1"	L/min	0	5	10	15	20	25	30	35	40	45
					m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
					H(m)	60	55	49	44	38	32	25	19	13	7
4CSK.(0.75)	4CSK.(0.75).T	1.1	1.5			100	89	78	68	57	47	37	28	19	10
4CSK.(1.5)	4CSK.(1.5).T	1.5	2			135	120	103	88	74	60	47	35	24	13





Features and benefits:

- 3" small size with high performance, head up to 180m, flow up to 10m<sup>3</sup>/h
- Permanent magnet synchronous motor, rated efficiency ≥88%
- Built-in brushless drive and control
- Integrated water cooling system
- All stainless steel exterior design, AISI 304/AISI 316
- High pump efficiency, MEI>0.7
- Wide voltage range
- Soft start, high starting torque
- Wear resistance and reliability:
  - Sic bearings and stainless steel shaft with tungsten-carbide coating
  - Thrust bearing, Graphite and Sic, wear resistance
  - Floating Impeller, tungsten Carbide and aluminium oxide thrust bearing for each stage
- Built-in protection and automatic restart:
  - Over voltage and undervoltage protection
  - Over load protection
  - Over temperature protection
  - Dry-running protection

Application:

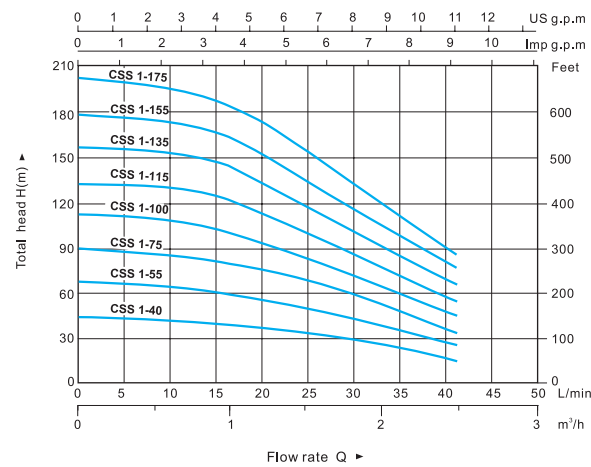
- Domestic water supply
- Groundwater
- Irrigation system
- Pressure boosting



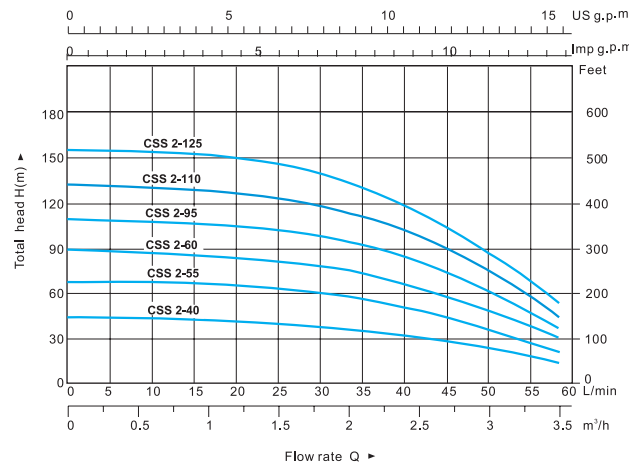
High performance

Φ75

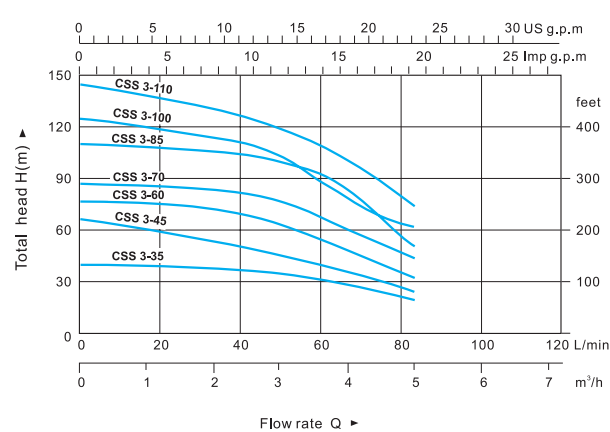
PERFORMANCE CHART AT n=8000 r/min



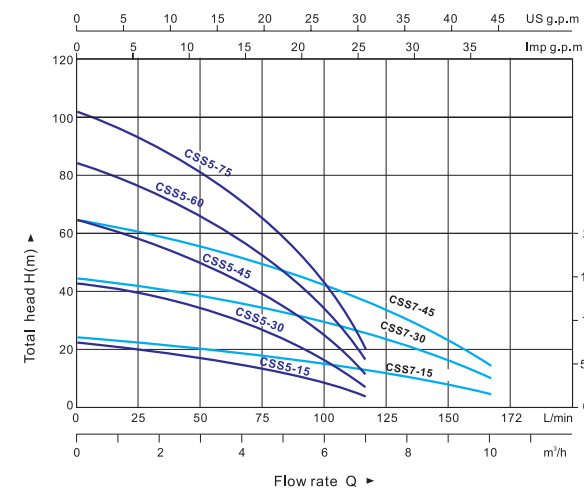
PERFORMANCE CHART AT n=8000 r/min



PERFORMANCE CHART AT n=8000 r/min



PERFORMANCE CHART AT n=8000 r/min



MODEL	STAGE	POWER(P2)			FLOW (m³/h)	0	0.5	1	1.5	2	2.5	OUTLET
		KW	HP	A		0	0.5	1	1.5	2	2.5	
CSS 1-40	2	0.75	1	3.5	H(m)	43	42	38	34	26	15	1 1/4"
CSS 1-55	3	0.75	1	5		66	65	58	53	38	25	
CSS 1-75	4	0.75	1	6.5		90	88	79	70	52	35	
CSS 1-100	5	0.75	1	8		112	110	102	85	65	45	
CSS 1-115	6	0.75	1	9.5		132	130	123	100	78	55	
CSS 1-135	7	1.5	2	11		156	154	144	117	92	65	
CSS 1-155	8	1.5	2	12.5		180	177	165	135	106	75	
CSS 1-175	9	1.5	2	14		203	200	182	152	120	85	

MODEL	STAGE	POWER(P2)			FLOW (m³/h)	0	0.5	1	1.5	2	2.5	3	3.5	OUTLET
		KW	HP	A		0	0.5	1	1.5	2	2.5	3	3.5	
CSS 2-40	2	0.75	1	4.5	H(m)	44	43	42	40	37	30	25	12	1 1/4"
CSS 2-60	3	0.75	1	6.5		68	66	65	62	57	48	36	20	
CSS 2-75	4	0.75	1	8.5		90	87	85	80	76	65	48	30	
CSS 2-95	5	1.5	2	10		110	108	106	102	95	82	60	38	
CSS 2-110	6	1.5	2	12		132	130	129	125	113	100	72	45	
CSS 2-125	7	1.5	2	14		155	154	152	145	132	115	85	54	

MODEL	STAGE	POWER(P2)			FLOW (m³/h)	0	1.5	2	2.5	3	3.5	4	5	OUTLET
		KW	HP	A		0	1.5	2	2.5	3	3.5	4	5	
CSS 3-35	2	0.75	1	5.5	H(m)	40	38	37	36	35	32	28	20	1 1/4"
CSS 3-45	3	0.75	1	6.5		58	55	53	50	48	42	36	25	
CSS 3-60	4	0.75	1	8.5		77	74	72	70	66	56	48	35	
CSS 3-70	4	1.5	2	10		87	85	83	80	77	70	60	45	
CSS 3-85	5	1.5	2	12.8		112	107	106	105	100	95	85	50	
CSS 3-100	6	1.5	2	13		125	117	113	110	104	90	78	62	
CSS 3-110	7	1.5	2	15		145	136	130	125	120	105	90	73	

MODEL	STAGE	POWER(P2)			FLOW (m³/h)	0	1.5	2	2.5	3	3.5	4	5	OUTLET
		KW	HP	A		0	1.5	2	2.5	3	3.5	4	5	
CSS 5-15	1	0.75	1	3	H(m)	22	21	20	19	17	16	10	4	1 1/2"
CSS 5-30	2	0.75	1	5.5		43	40	38	36	32	30	20	8	
CSS 5-45	3	0.75	1	7.5		65	60	55	52	48	45	30	12	
CSS 5-60	4	1.5	2	10		85	80	75	70	65	60	40	16	
CSS 5-75	5	1.5	2	12.5		105	100	92	85	80	75	50	20	

MODEL	STAGE	POWER(P2)			FLOW (m³/h)	0	1	2	3	4	5	6	7	8	9	10	OUTLET
		KW	HP	A		0	1	2	3	4	5	6	7	8	9	10	
CSS 7-15	1	0.75	1	3.5	H(m)	23	22	21	20	19	18	16.5	15	12	8	5	1 1/2"
CSS 7-30	2	0.75	1	6.5		45	43	40	38	37	35	32	28	20	15	10	
CSS 7-45	3	1.5	2	10		65	62	68	55	52	50	47	43	32	20	15	

**Operating Limits:**

- Max. fluid temperature: 40°C
- Max. passage of suspended solid body: Φ2mm
- Continuous duty

**Motor:**

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class F
- Protection IPX8
- With capacitor and thermal overload protection

**Material:**

- Inlet and outlet body: Plastic
- Impeller: Plastic
- Motor shaft: Stainless Steel
- Double mechanical seals separated by an oil chamber
- Mechanical seal: Ceramic / Graphite

**MULTISTAGE (High Head)**



**Product Advantages:**

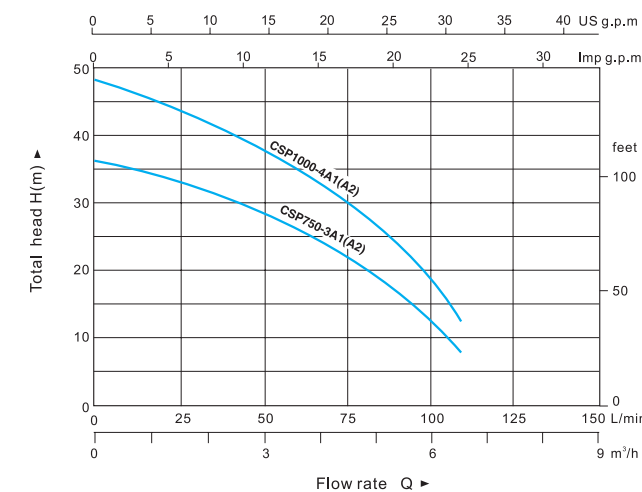
- Integrated pump control
- Integrated dry run protection
- Compact design
- Medium-cooled motor
- Corrosion-resistant



**Product Description:**

- This pump is a multistage, medium-cooled submersible pump for garden and domestic water supply. It can be used to reliably supply rain water from a rainwater storage tank for toilets, washing machines and garden watering. The intelligent pump controller recognizes if the pump is running dry. In this event the pump will try to start again, if there is still no water available the pump turns off. This guarantees safe operation and high efficiency. The electronics also protects the pump against defects in the non-return valve that generally occur due to dirt or sand encrustations.
- The advanced submersible pump concept incorporates many years of proven pump technology with a sophisticated control to produce a compact and highly reliable product.

PERFORMANCE CHART AT n=2900 r/min



MODEL		POWER P2(KW)	IMPELLERS	OUTLET	MAX.FLOW (m³/h)	MAX.HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
Inlet(side)	Inlet(bottom)									
CSP750-3A1	CSP750-3A2	0.75	3	1"	6.5	36	15	14	620x200x225	1000
CSP1000-4A1	CSP1000-4A2	1.0	4	1"	6.5	48	15	15	640x200x225	900



**Operating Limits:**

- Max. liquid temperature: 35°C
- Min. well diameter:  $\Phi$ 73mm
- Max. immersion depth: 20m
- Max. sand content: 0.15%
- Continuous duty

**Motor:**

- Two-Pole induction motor(n=2900r.p.m.)
- Built-in thermal overload protector with automatic reset
- Insulation Class B
- Protection IPX8

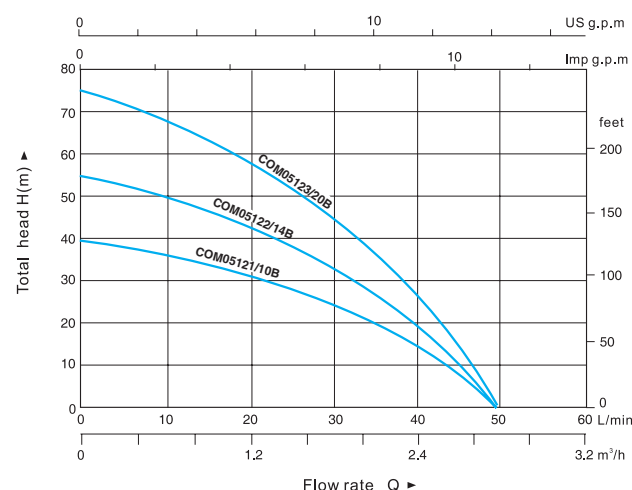
**Material:**

- Pump casing: Stainless Steel
- Impeller: Plastic (POM)
- Motor shaft: Stainless Steel
- Diffuser: Plastic (PC)
- Double mechanical seals: One: Silicon Carbide / Graphite  
Another: Ceramic / Graphite
- Pump base: Plastic
- Discharge body: Plastic

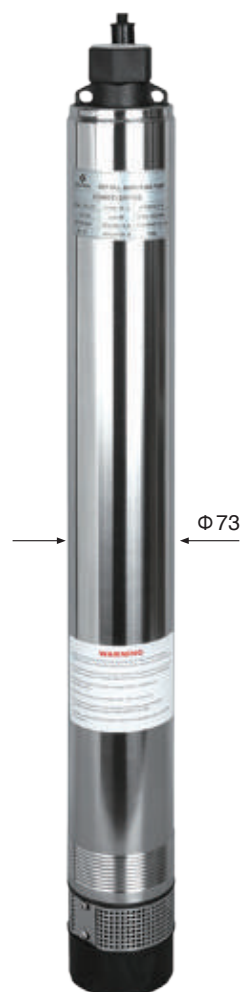
**Application:**

- Multistage submersible water pumps for 3" deep wells.
- Particularly suitable for civilian and industrial purposes, such as application to sprinkler and food plants, fire installations, etc.
- Water supply for wells or reservoirs, for garden utilization and irrigation.

PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER P2(KW)	IMPELLERS	OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
COM05121/10B	0.25	10	1"	48	40	7	125x135x650	2500
COM05122/14B	0.37	14	1"	48	53	8	125x135x800	2200
COM05123/20B	0.55	20	1"	48	75	9	125x135x950	1700



**Operating Limits:**

- Max. liquid temperature: 35°C
- Min. well diameter:  $\Phi$ 100mm
- Max. immersion depth: 30m
- Max. sand content: 0.15%
- Continuous duty

**Motor:**

- Two-Pole induction motor(n=2900r.p.m.)
- Built-in thermal overload protector with automatic reset
- Insulation Class F
- Protection IPX8

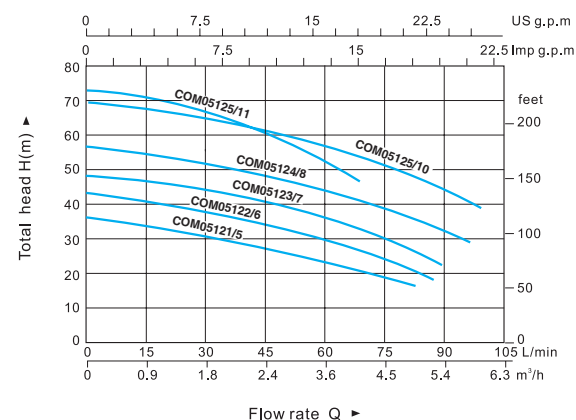
**Material:**

- Pump casing: AISI Stainless Steel
- Motor shaft: AISI Stainless Steel
- Diffuser: Plastic (PC)
- Double mechanical seals: One: Silicon Carbide / Graphite  
Another: Ceramic / Graphite
- Pump base: Plastic
- Discharge body: Plastic

**Application:**

- Multistage submersible water pumps for 4" deep wells.
- Particularly suitable for civilian and industrial purposes, such as application to sprinkler and food plants, fire installations, etc.
- Water supply from wells or reservoirs, for garden utilization and irrigation.

PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER(P2)	IMPELLERS	OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	KW	HP						
COM05121/5	0.37	0.5	1 1/4"	85	36	10	150x160x650	1800
COM05122/6	0.6	0.8	1 1/4"	88	42	11	150x160x740	1600
COM05123/7	0.8	1.1	1 1/4"	90	49	12	150x160x800	1400
COM05124/8	1.1	1.5	1 1/4"	98	57	13	150x160x850	1200
COM05125/10	1.1	1.5	1 1/4"	100	70	14	150x160x920	1200
COM05125/11	0.9	1.2	1 1/4"	68	73	14.5	150x160x960	1200



### Operating Limits:

- Max. liquid temperature: 35°C
- Min. well diameter:  $\Phi$  100mm
- Max. immersion depth: 30m
- Max. sand content: 0.15%
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900r.p.m.)
- Built-in thermal overload protector with automatic reset
- Insulation Class B
- Protection IPX8

### Material:

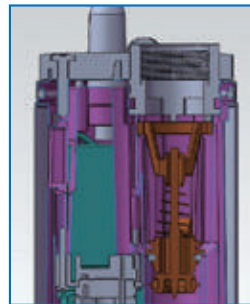
- Pump casing: Stainless Steel
- Impeller: Plastic (POM)
- Motor shaft: Stainless Steel
- Diffuser: Plastic (PC)
- Double mechanical seals: One: Silicon Carbide / Graphite  
Another: Ceramic / Graphite
- Pump base: Plastic
- Discharge body: Plastic

### Product Advantages:

- Integrated pump control
- Integrated dry run protection
- Compact design
- Medium-cooled motor
- Corrosion-resistant

### Product Description:

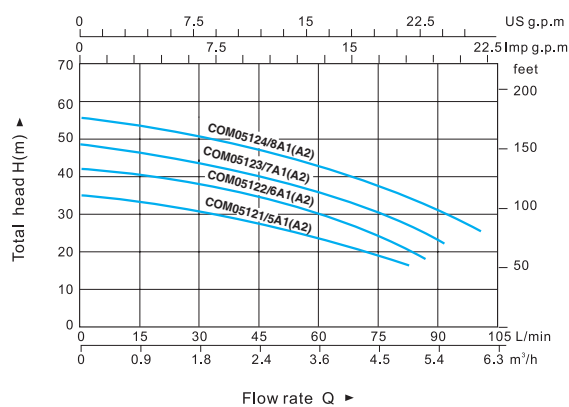
- The COM is a multistage, medium-cooled submersible pump for garden and domestic water supply. It can be used to reliably supply rain water from a rainwater storage tank for toilets, washing machines and garden watering. The intelligent pump controller recognizes if the pump is running dry. In this event the pump will try to start again, if there is still no water available the pump turns off. This all guarantees safe operation and high efficiency. The electronics also protects the pump against defects in the non-return valve that generally occur due to dirt or sand encrustations.
- The advanced submersible pump concept incorporates many years of proven pump technology with a sophisticated control to produce a compact and highly reliable product.



**The inlet is located at side (1 1/4")**  
**COM05121/5A1**  
**COM05122/6A1**  
**COM05123/7A1**  
**COM05124/8A1**

**The inlet is located on the bottom**  
**COM05121/5A2**  
**COM05122/6A2**  
**COM05123/7A2**  
**COM05124/8A2**

PERFORMANCE CHART AT n=2900 r/min



### Operating Limits:

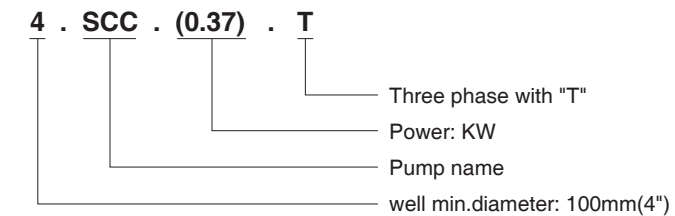
- MAX.liquid temperature: 35°C
- Max.immersion depth: 20m
- Min.diameter of well:  $\Phi$  100mm

### Motor:

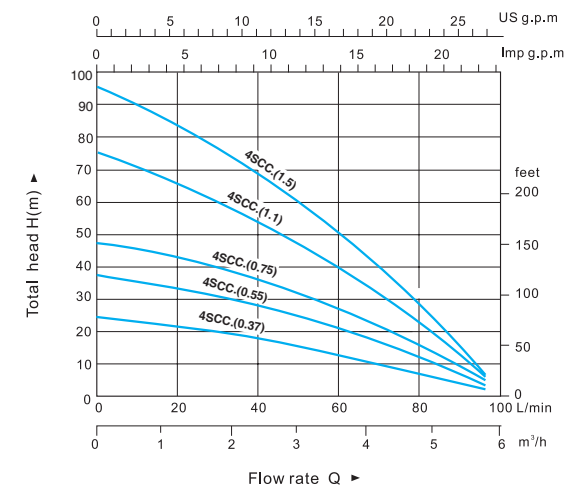
- Rewindable enclosed induction motor or full obturated screen coil motor (n=2900r.p.m.)
- Continuous service
- Power: 0.37-1.5kW
- Insulation Class: B
- Protection grade: IP68

### Application:

- Multistage submersible water pumps for 4" deep wells particularly suitable for civilian and industrial purposes such as application to sprinkler and food plants, fire installation, etc.
- Water supply from wells or reservoirs, for garden use and irrigation



PERFORMANCE CHART AT n=2850 r/min



MODEL		POWER P2(KW)	IMPELLERS	OUTLET	MAX. FLOW (L/min)	MAX. HEAD (m)	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
INLET(SIDE)	INLET(BOTTOM)									
COM05121/5A1	COM05121/5A2	0.37	5	1"	86	34	H07RN-F 3G1.0mm <sup>2</sup>	10	150x160x650	1800
COM05122/6A1	COM05122/6A2	0.6	6	1"	89	41		11	150x160x740	1600
COM05123/7A1	COM05123/7A2	0.8	7	1"	92	48		12	150x160x800	1400
COM05124/8A1	COM05124/8A2	1.1	8	1"	98	56		13	150x160x950	1200

MODEL		POWER(P2)		OUTLET	Q L/min m³/h	H (m)									
SINGLE PHASE	THREE PHASE	KW	HP			0	17	25	33	50	58	67	75	97	
4SCC(0.37)	4SCC(0.37).T	0.37	0.5	1"	H (m)	0	1	1.5	2	3	3.5	4	4.5	5.8	
4SCC(0.55)	4SCC(0.55).T	0.55	0.75	1"		27	25	24	23	20	15	14	13	3	
4SCC(0.75)	4SCC(0.75).T	0.75	1	1"		38	36	35	33	28	25	21	16	4	
4SCC(1.1)	4SCC(1.1).T	1.1	1.5	1"		47	46	45	43	36	31	26	20	5	
4SCC(1.5)	4SCC(1.5).T	1.5	2	1"		75	72	68	67	56	50	46	32	5	
					94	87	85	82	70	62	52	40	6		



**Operating Limits:**

- Max. liquid temperature: 35°C
- Min. well diameter:  $\Phi$  125mm
- Max. immersion depth: 20m
- Max. sand content: 0.15%
- Continuous duty

**Motor:**

- Two-Pole induction motor(n=2900r.p.m.)
- Built-in thermal overload protector with automatic reset
- Insulation Class F
- Protection IPX8
- Single phase model with floating switch

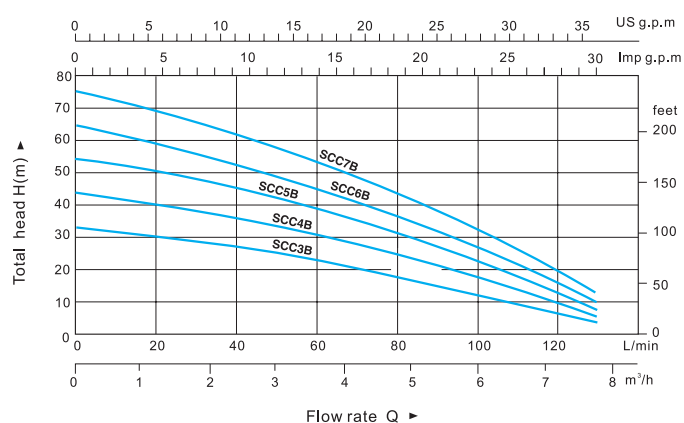
**Material:**

- Pump casing: AISI Stainless Steel
- Impeller and diffusers: Plastic(PPO)
- Bearing brackets: Brass
- Shaft: AISI Stainless Steel
- Mechanical seal: Ceramic / Graphite

**Application:**

- Multistage centrifugal submersible pump is applied to clean water drainage, especially widely used in irrigation system, drinking water supply, washing and similar application where increased pressure is in need.
- It's stainless steel pump body and motor provide rust-resistance.

PERFORMANCE CHART AT n=2850 r/min



MODEL		POWER(P2)		IMPELLERS	OUTLET	MAX. FLOW (L/min)	MAX. HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP								
SCC3B	SCC3BT	0.55	0.75	3	1 1/4"	130	32	15	14	500x200x180	1290
SCC4B	SCC4BT	0.75	1	4	1 1/4"	130	43	15	15	540x200x180	1200
SCC5B	SCC5BT	0.9	1.2	5	1 1/4"	130	54	15	16	570x200x180	1100
SCC6B	SCC6BT	1.1	1.5	6	1 1/4"	130	65	15	17	610x200x180	1050
SCC7B	SCC7BT	1.5	2	7	1 1/4"	130	75	15	18	670x200x180	1000

**Operating Limits:**

- Max. liquid temperature: 35°C
- Max. immersion depth: 20m
- Max. sand content: 0.15%
- Continuous duty

**Motor:**

- Two-Pole induction motor (n=2900r/min)
- Built-in thermal overload protector with automatic reset
- Insulation Class F
- Protection IPX8
- Single phase model with floating switch

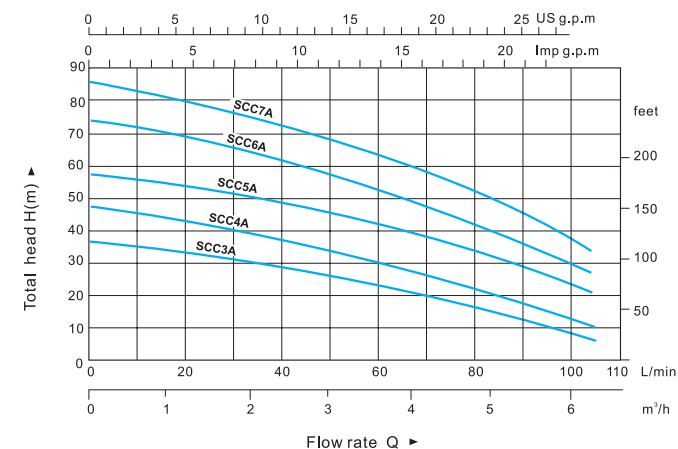
**Material:**

- Pump casing: AISI 304 Stainless Steel
- Impeller and diffusers: Plastic (PPO)
- Shaft: Stainless Steel
- Double Mechanical seals separated by an oil chamber  
Mechanical seal: Ceramic / Graphite

**Application:**

- These pumps are used in lifting and pressurisation systems for water from primary collection tanks or wells and are suitable for providing pressurised water in domestic systems, small-scale farming and sprinkler systems for gardens and vegetable gardens. The pump is extremely silent and this feature makes it suitable for use with pressurisation systems in unventilated rooms or in areas prone to flooding.

PERFORMANCE CHART AT n=2900 r/min



SCC5A

MODEL		POWER(P2)		IMPELLERS	OUTLET	MAX. FLOW (L/min)	MAX. HEAD (m)	CABLE LENGTH (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
SINGLE PHASE	THREE PHASE	KW	HP								
SCC3A	SCC3AT	0.5	0.7	3	1 1/4"	105	37	15	14	500x200x180	1290
SCC4A	SCC4AT	0.6	0.8	4	1 1/4"	105	48	15	15	540x200x180	1200
SCC5A	SCC5AT	0.8	1.0	5	1 1/4"	105	59	15	16	570x200x180	1100
SCC6A	SCC6AT	1.0	1.3	6	1 1/4"	105	73	15	17	610x200x180	1050
SCC7A	SCC7AT	1.2	1.6	7	1 1/4"	105	85	15	18	670x200x180	1000

# 50QJ

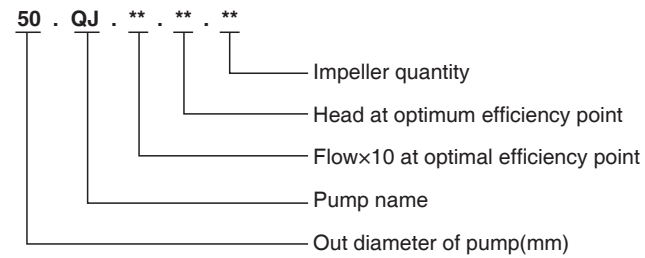
## 2" Submersible Borehole Pump

### Operating Limits:

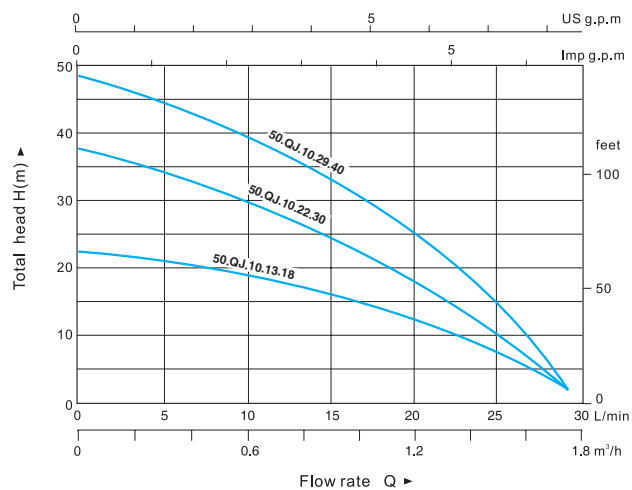
- MAX.liquid temperature: 35°C
- Max.immersion depth: 40m
- Min.diameter of well: Φ53mm

### Motor:

- Rewindable enclosed induction motor or full obturated screen coil motor (n=2900r.p.m.)
- Continuous service
- Insulation Class: B
- Protection grade: IP68



PERFORMANCE CHART AT n=2900 r/min



MODEL	POWER(P2)		OUTLET	Q	CAPACITY AND HEAD						
	KW	HP			L/min	0	8	13	17	20	25
50.QJ.10.13.18	0.18	0.24	½"-¾"	H(m)	22	18	15	13	11	6	1
50.QJ.10.22.30	0.25	0.33	½"-¾"		37	30	25	22	19	10	1
50.QJ.10.29.40	0.37	0.5	½"-¾"		49	40	33	29	25	13	1



# 75QJ

## 3" Submersible Borehole Pump

### Operating Limits:

- Max. liquid temperature: 40°C
- Max. immersion depth: 70m
- Min. diameter of well: Φ75mm

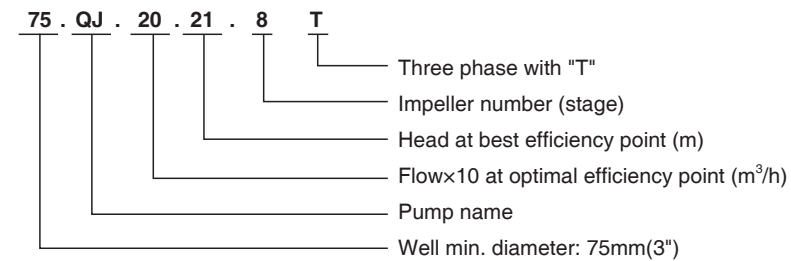
### Motor:

- Rewindable enclosed induction motor or full obturated screen coil motor (n=2900r.p.m.)
- Continuous service
- Power: 0.18-1.5kW (Single phase)
- Power: 0.18-1.5kW (Three phase)
- Insulation class: B
- Protection grade: IP68

### Application:

- Multistage submersible water pumps for 3" deep wells particularly suitable for civilian and industrial purposes such as application to sprinkler and food plants, fire installation, etc water supply from wells or reservoirs, for garden use and irrigation

### Model code:



MODEL		POWER(P2)		OUTLET	CAPACITY AND HEAD																	
SINGLE PHASE	THREE PHASE	KW	HP		Q	L/min	0	5	10	15	20	25	30	35	40	45	50	60	70	80		
75.QJ.10.28.8	75.QJ.10.28.8.T	0.18	0.25	1"-1½"	H(m)	33	32	30	29	26	23	19	14	9								
75.QJ.10.35.10	75.QJ.10.35.10.T	0.25	0.33			41	40	38	36	33	29	23	18	12								
75.QJ.10.52.15	75.QJ.10.52.15.T	0.37	0.5			62	59	57	54	49	43	35	27	18								
75.QJ.10.78.22	75.QJ.10.78.22.T	0.55	0.75			90	87	84	80	73	63	51	39	26								
75.QJ.10.105.30	75.QJ.10.105.30.T	0.75	1			123	119	114	109	99	86	70	54	35								
75.QJ.10.140.40	75.QJ.10.140.40.T	1.1	1.5			164	158	152	145	132	114	94	71	47								
75.QJ.10.175.50	75.QJ.10.175.50.T	1.5	2			205	198	191	181	165	143	117	89	59								
75.QJ.20.17.6	75.QJ.20.17.6.T	0.18	0.25			26	26	25	24	23	21	19	16	11	7							
75.QJ.20.22.8	75.QJ.20.22.8.T	0.25	0.33			35	34	33	32	31	29	25	21	15	10							
75.QJ.20.31.11	75.QJ.20.31.11.T	0.37	0.5			48	47	46	45	43	39	35	29	21	14							
75.QJ.20.49.17	75.QJ.20.49.17.T	0.55	0.75			74	72	71	69	66	61	54	44	32	21							
75.QJ.20.68.24	75.QJ.20.68.24.T	0.75	1			104	102	100	97	93	86	76	63	46	30							
75.QJ.20.90.33	75.QJ.20.90.33.T	1.1	1.5			144	140	137	134	128	118	104	86	63	41							
75.QJ.20.110.40	75.QJ.20.110.40.T	1.5	2			174	170	167	162	155	143	127	104	76	49							
75.QJ.30.13.4	75.QJ.30.13.4.T	0.18	0.25			16		16		15		15		14		13	11	8	5			
75.QJ.30.19.6	75.QJ.30.19.6.T	0.25	0.33			24		24		23		22		21		19	16	12	7			
75.QJ.30.29.9	75.QJ.30.29.9.T	0.37	0.5			36		35		35		34		32		29	25	18	11			
75.QJ.30.42.13	75.QJ.30.42.13.T	0.55	0.75			52		51		50		49		46		42	36	27	16			
75.QJ.30.58.18	75.QJ.30.58.18.T	0.75	1			71		71		69		67		64		58	49	37	21			
75.QJ.30.71.22	75.QJ.30.71.22.T	1.1	1.5			87		86		85		82		78		71	60	45	26			
75.QJ.30.84.26	75.QJ.30.84.26.T	1.5	2			103		102		100		97		92		84	71	53	31			



# 90QJ

## 3.5" Submersible Borehole Pump

### Operating Limits:

- Max. liquid temperature: 40°C
- Max. immersion depth: 70m
- Min. diameter of well:  $\Phi$ 90mm

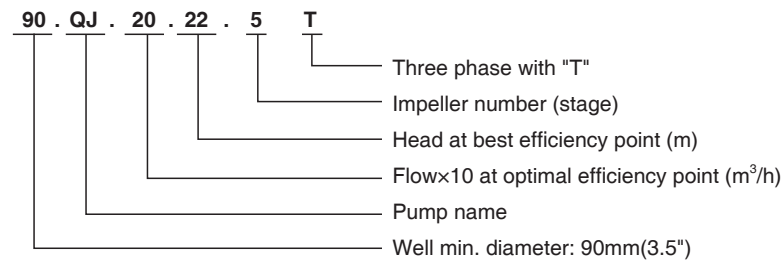
### Motor:

- Rewindable enclosed induction motor or full obturated screen coil motor (n=2900r.p.m.)
- Continuous service
- Power: 0.18-1.5kW (Single phase)
- Power: 0.18-1.5kW (Three phase)
- Insulation class: B
- Protection grade: IP68

### Application:

- Multistage submersible water pumps for 3.5" deep wells particularly suitable for civilian and industrial purposes such as application to sprinkler and food plants, fire installation, etc water supply from wells or reservoirs, for garden use and irrigation

### Model code:



$\Phi$  90

MODEL		POWER(P2)		OUTLET	Q	CAPACITY AND HEAD												
SINGLE PHASE	THREE PHASE	KW	HP			L/min	0	10	20	30	40	50	60	70	80	90	100	
90.QJ.20.26.5	90.QJ.20.26.5.T	0.25	0.33	1"-1½"	H(m)	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6		
90.QJ.20.36.7	90.QJ.20.36.7.T	0.37	0.5			34	32	30	28	24	20	15						
90.QJ.20.58.10	90.QJ.20.58.10.T	0.55	0.75			47	45	43	39	34	28	20						
90.QJ.20.68.13	90.QJ.20.68.13.T	0.75	1			67	65	61	56	49	40	29						
90.QJ.20.90.17	90.QJ.20.90.17.T	1.1	1.5			87	84	79	72	63	52	38						
90.QJ.20.115.22	90.QJ.20.115.22.T	1.5	2			114	110	104	95	83	68	49						
90.QJ.30.21.5	90.QJ.30.21.5.T	0.25	0.33			148	142	134	123	107	88	64						
90.QJ.30.30.7	90.QJ.30.30.7.T	0.37	0.5			28	27	26	25	23	21	18	15	11				
90.QJ.30.38.9	90.QJ.30.38.9.T	0.55	0.75			39	37	36	34	33	30	26	21	15				
90.QJ.30.55.12	90.QJ.30.55.12.T	0.75	1			50	48	46	44	42	38	33	27	20				
90.QJ.30.72.17	90.QJ.30.72.17.T	1.1	1.5			72	69	67	64	60	55	48	39	28				
90.QJ.30.98.23	90.QJ.30.98.23.T	1.5	2			94	90	87	84	79	72	63	51	37				
90.QJ.40.16.4	90.QJ.40.16.4.T	0.25	0.33			127	122	118	113	107	98	85	69	50				
90.QJ.40.24.6	90.QJ.40.24.6.T	0.37	0.5			23	23	22	21	20	19	17	15	13	10	7		
90.QJ.40.33.8	90.QJ.40.33.8.T	0.55	0.75			35	34	33	32	30	29	26	23	20	15	11		
90.QJ.40.40.10	90.QJ.40.40.10.T	0.75	1			46	45	44	42	41	38	35	31	26	21	15		
90.QJ.40.58.14	90.QJ.40.58.14.T	1.1	1.5			58	56	54	53	51	48	44	38	33	26	18		
90.QJ.40.78.19	90.QJ.40.78.19.T	1.5	2			81	79	76	74	71	67	61	54	46	36	26		
						110	107	103	100	96	91	83	73	62	49	35		

# 100QJ

## 4" Submersible Borehole Pump

### Operating Limits:

- Max. liquid temperature: 40°C
- Max. immersion depth: 70m
- Min. diameter of well:  $\Phi$ 100mm

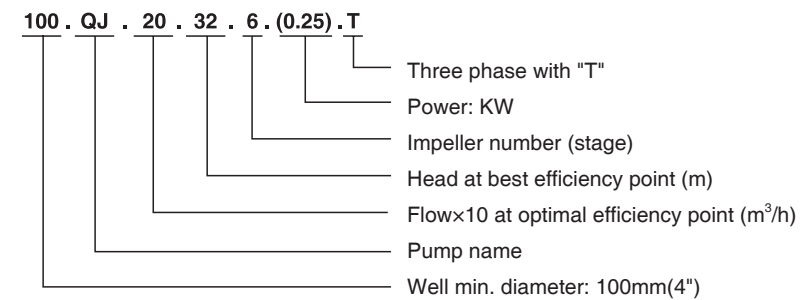
### Motor:

- Rewindable enclosed induction motor or full obturated screen coil motor (n=2900r.p.m.)
- Continuous service
- power: 0.25-2.6kW(single phase)
- power: 0.25-7.5kW(Three phase)
- Insulation Class: B
- protection grade: IP68

### Application:

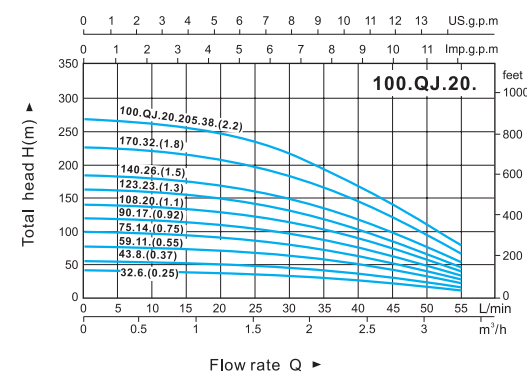
- Multistage submersible water pumps for 4" deep wells particularly suitable for civilian and industrial purposes such as application to sprinkler and food plants, fire installation, etc water supply from wells or reservoirs, for garden use and irrigation

### Model code:

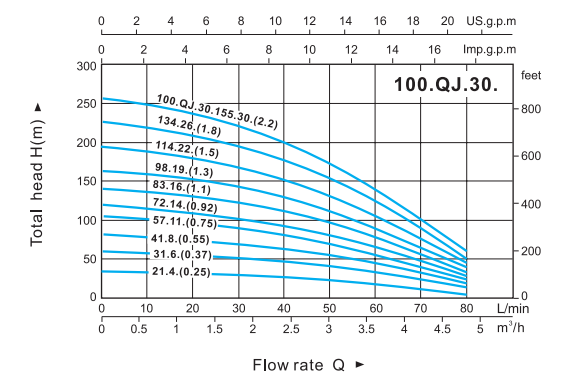


$\Phi$  100

PERFORMANCE CHART AT n=2900 r/min



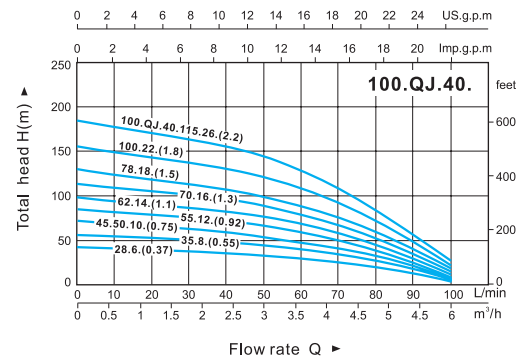
PERFORMANCE CHART AT n=2900 r/min



# 100QJ

## 4" Submersible Borehole Pump

PERFORMANCE CHART AT n=2900 r/min



MODEL		POWER(P2)		OUTLET	Q	CAPACITY AND HEAD											
SINGLE PHASE	THREE PHASE	KW	HP			L/min	0	5	10	15	20	25	30	35	40	45	50
100.QJ.20.32.6(0.25)	100.QJ.20.32.6(0.25).T	0.25	0.35	1¼"-2"	H(m)	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3
100.QJ.20.43.8(0.37)	100.QJ.20.43.8(0.37).T	0.37	0.5			42	42	41	40	39	37	35	31	27	23	18	13
100.QJ.20.59.11(0.55)	100.QJ.20.59.11(0.55).T	0.55	0.75			57	56	55	54	52	50	46	41	36	30	24	17
100.QJ.20.75.14(0.75)	100.QJ.20.75.14(0.75).T	0.75	1			78	77	76	74	72	68	63	57	50	42	32	23
100.QJ.20.90.17(0.92)	100.QJ.20.90.17(0.92).T	0.92	1.25			99	98	97	94	91	87	81	72	63	53	41	30
100.QJ.20.108.20(1.1)	100.QJ.20.108.20(1.1).T	1.1	1.5			120	119	117	115	111	106	98	88	77	64	50	36
100.QJ.20.123.23(1.3)	100.QJ.20.123.23(1.3).T	1.3	1.75			142	140	138	135	131	124	115	104	91	75	59	43
100.QJ.20.140.26(1.5)	100.QJ.20.140.26(1.5).T	1.5	2			163	161	159	155	150	143	132	119	104	87	68	49
100.QJ.20.170.32(1.8)	100.QJ.20.170.32(1.8).T	1.8	2.5			184	182	179	175	170	161	150	135	118	98	77	55
100.QJ.20.205.38(2.2)	100.QJ.20.205.38(2.2).T	2.2	3			227	225	221	216	209	199	184	166	145	121	94	68
						269	267	262	256	248	236	219	197	172	143	112	81

MODEL		POWER(P2)		OUTLET	Q	CAPACITY AND HEAD									
SINGLE PHASE	THREE PHASE	KW	HP			L/min	0	10	20	30	40	50	60	70	80
100.QJ.30.21.4(0.25)	100.QJ.30.21.4(0.25).T	0.25	0.35	1¼"-2"	H(m)	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	
100.QJ.30.31.6(0.37)	100.QJ.30.31.6(0.37).T	0.37	0.5			30	29	28	26	23	21	17	12	7	
100.QJ.30.41.8(0.55)	100.QJ.30.41.8(0.55).T	0.55	0.75			45	44	42	39	35	31	25	18	11	
100.QJ.30.57.11(0.75)	100.QJ.30.57.11(0.75).T	0.75	1			60	58	55	52	47	41	33	24	14	
100.QJ.30.72.14(0.92)	100.QJ.30.72.14(0.92).T	0.92	1.25			83	80	76	71	65	57	46	33	20	
100.QJ.30.83.16(1.1)	100.QJ.30.83.16(1.1).T	1.1	1.5			106	102	97	91	82	72	58	42	25	
100.QJ.30.98.19(1.3)	100.QJ.30.98.19(1.3).T	1.3	1.75			121	116	111	103	94	83	67	48	29	
100.QJ.30.114.22(1.5)	100.QJ.30.114.22(1.5).T	1.5	2			143	138	132	123	112	98	79	57	34	
100.QJ.30.134.26(1.8)	100.QJ.30.134.26(1.8).T	1.8	2.5			166	160	153	142	129	114	92	66	40	
100.QJ.30.155.30(2.2)	100.QJ.30.155.30(2.2).T	2.2	3			196	189	180	168	153	134	109	78	47	
						226	218	208	194	176	155	125	90	54	

MODEL		POWER(P2)		OUTLET	Q	CAPACITY AND HEAD													
SINGLE PHASE	THREE PHASE	KW	HP			L/min	0	10	20	30	40	50	60	70	80	90	100		
100.QJ.40.28.6(0.37)	100.QJ.40.28.6(0.37).T	0.37	0.5	1¼"-2"	H(m)	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6			
100.QJ.40.35.8(0.55)	100.QJ.40.35.8(0.55).T	0.55	0.75			42	41	39	38	36	33	30	25	19	13	6			
100.QJ.40.45.10(0.75)	100.QJ.40.45.10(0.75).T	0.75	1			57	55	53	50	48	44	40	33	26	17	9			
100.QJ.40.55.12(0.92)	100.QJ.40.55.12(0.92).T	0.92	1.25			71	68	66	63	60	55	50	42	32	21	11			
100.QJ.40.62.14(1.1)	100.QJ.40.62.14(1.1).T	1.1	1.5			85	82	79	76	72	67	59	50	39	26	13			
100.QJ.40.70.16(1.3)	100.QJ.40.70.16(1.3).T	1.3	1.75			99	96	92	88	84	78	69	58	45	30	15			
100.QJ.40.78.18(1.5)	100.QJ.40.78.18(1.5).T	1.5	2			113	109	105	101	96	89	79	67	51	34	17			
100.QJ.40.100.22(1.8)	100.QJ.40.100.22(1.8).T	1.8	2.5			127	123	118	114	108	100	89	75	58	39	19			
100.QJ.40.115.26(2.2)	100.QJ.40.115.26(2.2).T	2.2	3			156	150	144	139	132	122	109	92	71	47	23			
								184	177	171	164	156	144	129	109	83	56	28	

# CAH

## High Speed Submersible Borehole Pump

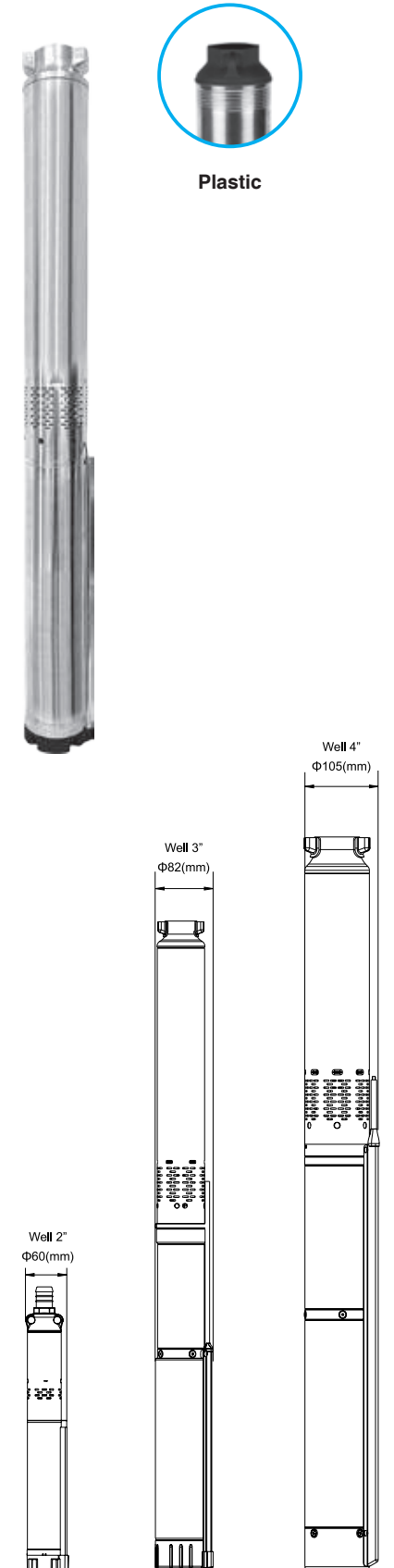
**NEW**

### Features:

- High speed with 12,000 RPM.
- Small size and light weight, it is just 1/5 on size and weight compares with traditional pumps in the same power, 1/3 on size and weight compares with 6,000RPM pumps.
- High performance, contactless seal, the pump efficiency is higher 10% than other conventional pumps.
- Good sand-resistance and applies to various working conditions.
- The pump parts are environment-friendly and anti-corrosive, they are applied to all kinds of acid and alkali water.
- The impeller is suspension-type structure, and almost no wear-out.
- The head of single stage is 20-40 meter, which specially meets high head requirement.
- Simple structure and easy to install and maintain.
- Small vibration, low noise, safe and stable running.
- High efficiency due to PM motor.
- Water lubricated plain bearing is used in motor, it makes motor life longer.
- Shield structure, no leakage, long life.
- The cooling water is not connected with outside, it applies to various water.
- Internal forced circulation of cooling water improves cooling effect and reduces temperature rise.
- Easy to operate, power-and-go and visible speed regulation.
- Multiple protection: over current, over temperature, over voltage, under voltage, short circuit, blocking, lack of phase, water shortage, lightning protection, soft start, etc.
- Wide voltage platform: single-phase, three-phase, solar and DC can be adapted.
- The standard design system, components selection and product testing as per automobile level, reliability and failure rate shall be implemented in accordance with the automobile standard.
- Independent intellectual property rights, 60 national patents and 4 international patents.

### Application:

- Domestic water supply
- Groundwater
- Irrigation system
- Pressure boosting





Model	POWER (P1) (kW)	Voltage of Power Supply (V)	Frequency (Hz)	Voltage Range (V)	Rated Flow (m <sup>3</sup> /h)	Rated Head (m)	Max Flow (m <sup>3</sup> /h)	Max Head (m)	Outlet Material	Well (mm)	Outlet Dia	Max Submerg Depth(m)				
CAH2QJ1-18-0.2TI	0.3	Solar/AC/DC	50/60	60-265	1	18	1.5	24	N	Φ 60	1"	75				
CAH2QJ1-18-0.2EI	0.3	Solar		36-60		18		24	N			75				
CAH2QJ1-18-0.2DI	0.3	220	50/60	150-265		18		24	N			75				
CAH2QJ1-18-0.2ZI	0.3	DC		36-60		18		24	N			75				
CAH2QJ1-32-0.37TI	0.5	Solar/AC/DC	50/60	60-265		32		40	N			75				
CAH2QJ1-32-0.37EI	0.5	Solar		60		32		40	N			75				
CAH2QJ1-32-0.37DI	0.5	220	50/60	150-265		32		40	N			75				
CAH2QJ1-32-0.37ZI	0.5	DC		60		32		40	N			75				
CAH2QJ1.5-15-0.2TI	0.3	Solar/AC/DC	50/60	150-265		1.5		15	2.5			22	N	Φ 60	1"	75
CAH2QJ1.5-15-0.2EI	0.3	Solar		36-60				15				22	N			75
CAH2QJ1.5-15-0.2DI	0.3	220	50/60	150-265	15		22	N		75						
CAH2QJ1.5-15-0.2ZI	0.3	DC		36-60	15		22	N		75						
CAH2QJ2-25-0.37TI	0.5	Solar/AC/DC	50/60	60-265	2	25	2.8	32	N	Φ 60	1"	75				
CAH2QJ2-25-0.37EI	0.5	Solar		60		25		32	N			75				
CAH2QJ2-25-0.37DI	0.5	220	50/60	150-265		25		32	N			75				
CAH2QJ2-25-0.37ZI	0.5	DC		60		25		32	N			75				
CAH3QJ2-32-0.55TI	0.75	Solar/AC/DC	50/60	90-265	2	32	4.5	42	304 S / N	Φ 82	1 1/4"	75				
CAH3QJ2-32-0.55EI	0.75	Solar		90		32		42	304 S / N			75				
CAH3QJ2-32-0.55DI	0.75	220	50/60	150-265		32		42	304 S / N			75				
CAH3QJ2-32-0.55ZI	0.75	DC		60		32		42	304 S / N			75				
CAH3QJ2-50-0.75TI	1	Solar/AC/DC	50/60	90-265		50		60	304 S / N			75				
CAH3QJ2-50-0.75EI	1	Solar		90		50		60	304 S / N			75				
CAH3QJ2-50-0.75DI	1	220	50/60	150-265		50		60	304 S / N			75				
CAH3QJ2-65-1.1TI	1.5	Solar/AC/DC	50/60	150-265		65		80	304 S / N			75				
CAH3QJ2-65-1.1EI	1.5	Solar		180		65		80	304 S / N			75				
CAH3QJ2-65-1.1DI	1.5	220	50/60	150-265		65		80	304 S / N			75				
CAH3QJ2-35-0.75DI	1	220	50/60	150-265	3	35	6	42	304 S / N	Φ 82	1 1/4"	75				
CAH3QJ2-65-1.1DI	1.5	220	50/60	150-265		65		86	304 S / N			75				
CAH3QJ2-65-1.1EO	1.5	Solar		180		65		86	304 S / N			75				
CAH3QJ2-100-1.5DI	1.8	220	50/60	150-265		100		120	304 S			150				
CAH3QJ2-125-2.2DI	3	220	50/60	150-265		125		145	304 S			150				
CAH3QJ2-125-2.2TI	3	380	50/60	300-460		125		145	304 S			150				
CAH3QJ2-32-0.75DI	1	220	50/60	150-265		5		32	8			40	304 S / N	Φ 82	1 1/2"	75
CAH3QJ2-48-1.1DI	1.8	220	50/60	150-265				48				63	304 S			150
CAH3QJ2-64-1.5DI	2.2	220	50/60	150-265				64				86	304 S			150
CAH3QJ2-80-2.2DI	3	220	50/60	150-265				80				103	304 S			150
CAH3QJ2-80-2.2TI	3	380	50/60	300-460	80		103	304 S		150						

Model	POWER (P1) (kW)	Voltage of Power Supply (V)	Frequency (Hz)	Voltage Range (V)	Rated Flow (m <sup>3</sup> /h)	Rated Head (m)	Max Flow (m <sup>3</sup> /h)	Max Head (m)	Outlet Material	Well (mm)	Outlet Dia	Max Submerg Depth(m)
CAH4QJ2-200-3SI	3.6	380	50/60	300-460	2	200	4.5	245	304 S	Φ105	1 1/4"	150
CAH4QJ3-200-3SI	3.6		50/60			155		232			1 1/4"	150
CAH4QJ3-210-4SI	4.6		50/60			210		255			1 1/4"	150
CAH4QJ3-288-5.5SI	6.4		50/60			288		310			1 1/4"	150
CAH4QJ5-105-3SI	3.6		50/60		105	5	14	120			1 1/2"	150
CAH4QJ5-140-4SI	4.6		50/60		140			160			1 1/2"	150
CAH4QJ5-175-5.5SI	6.4		50/60		175			200			1 1/2"	150
CAH4QJ5-280-7.5SI/O	9		50/60		280			320			1 1/2"	150
CAH4QJ5-385-11SO	13		50/60		385	440	1 1/2"	150				
CAH4QJ10-75-4SI	4.6		50/60		75	10	16	84			2"	150
CAH4QJ10-75-4SO	4.6		50/60		75			84			2"	150
CAH4QJ10-148-5.5SI	6.4		50/60		148			168			2"	150
CAH4QJ10-170-7.5SI	9		50/60		170			210			2"	150
CAH4QJ10-170-7.5SO	9		50/60		170	210	2"	150				
CAH4Q10-265-11SO	13		50/60		265	318	2"	150				
CAH4QJ15-55-4SI	4.6		50/60		55	14	20	86			2"	150
CAH4QJ15-105-5.5SI	6.4		50/60		105			170			2"	150
CAH4QJ15-128-7.5SI/O	9		50/60		128			220			2"	150
CAH4QJ15-205-11SI	13		50/60		205			320			2"	150
CAH4QJ20-68-5.5SI	6.4		50/60		68	20	26	84			3"	150
CAH4QJ20-100-7.5SI/O	9	50/60	100	126	3"			150				
CAH4QJ20-136-11SO	13	50/60	136	168	3"			150				

### Features:

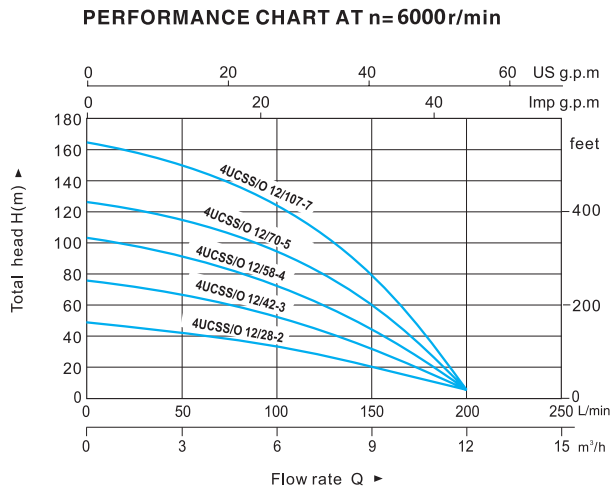
- High efficiency
- High head
- Small size
- Low weight
- High ratio of power density
- Soft start
- High starting torque
- Blocking protection
- Overload protection
- Short circuit protection
- Low-voltage protection, automatic starting when voltage is normal
- Over-voltage protection, automatic starting when voltage is normal
- Anti-lightning protection
- Automatic reverse rotary and remove impurities if rotor is stuck
- Phase lacking protection for output
- Continue working if phase lacking occurs
- Dry-run protection, timing start
- Over-temperature protection, automatic starting when temperature is normal
- Low noise
- Environmental protection, nice appearance, easy to install

### Application:

- Agriculture irrigation, home water supply

### Operating Conditions:

- Power: 380V, 50Hz/60Hz AC 3-phase / 500V DC
- Water depth: ≤250 m
- Insulation class: F
- Protection level: IP68
- Liquid flow temperature: range of water temperature is 0-30°C (static water), it can be 0-40°C if flow speed is 1.5m/s
- The motor must be 5-meter high from well bottom, the water level should 1-meter high from water outlet, insure the water immerse into motor, or the dry-run protection works
- Input liquid: water PH range is 6.5-8.5, sand content ≤0.25%, diesel and gasoline is strictly forbidden used in pumps. If the pumps apply in the circumstance of high sand content, the use life of pump will be lower.



MODEL	POWER P2(KW)	OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX.FLOW (m³/h)	MAX. HEAD (m)	PACKING DIMENSION/UNIT (mm)
4UCSS/O 12/28-2	1.5	2"	AC(380V/50/60)	12	49	Φ 100×1166
4UCSS/O 12/42-3	2.2				76	Φ 100×1230
4UCSS/O 12/58-4	3				101	Φ 100×1295
4UCSS/O 12/70-5	4				127	Φ 100×1369
4UCSS/O 12/107-7	5.5				165	Φ 100×1520



### Features:

- With MPPT AC/DC Controller
- AISI304 impeller and diffuser
- AISI304 oil chamber
- NSK bearing
- High efficiency PMSM brushless motor (PMSM: Permanent Magnet Synchronous Motor)

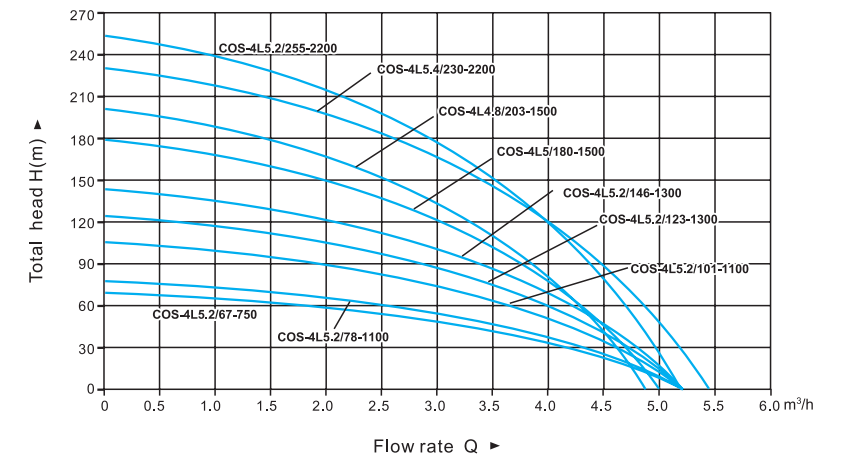
### MPPT AC/DC Controller:

- Can be used for both AC and DC power supply
- Protection class: IP55
- Ambient temperature: -15~ 60°C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

### Application:

- Agriculture irrigation, livestock feeding
- Domestic water lifting
- Clear water supply from wells or reservoirs
- Off grid solar pumping system

PERFORMANCE CHART AT DIFFERENT MODEL



MODEL	POWER (W)	VOLTAGE		MAX. FLOW (m³/h)	MAX. HEAD (m)	INLET/OUTLET DIAMETER	CABLE (m)	RECOMMENDED SOLAR PANEL	
		AC (V)	DC (V)					OPEN CIRCUIT VOLTAGE (VOC)	POWER
COS-4L5.2/67-750	750	80-280	90-430	5.2	67	1 1/4"	2	<430	≥ 1.3*Pump Power
COS-4L5.2/78-1100	1100	80-280	90-430	5.2	78	1 1/4"	2	<430	≥ 1.3*Pump Power
COS-4L5.2/101-1100	1100	80-280	90-430	5.2	101	1 1/4"	2	<430	≥ 1.3*Pump Power
COS-4L5.2/123-1300	1300	80-280	90-430	5.2	123	1 1/4"	2	<430	≥ 1.3*Pump Power
COS-4L5.2/146-1300	1300	80-280	90-430	5.2	146	1 1/4"	2	<430	≥ 1.3*Pump Power
COS-4L5/180-1500	1500	80-280	90-430	5	180	1 1/4"	2	<430	≥ 1.3*Pump Power
COS-4L4.8/203-1500	1500	80-280	90-430	4.8	203	1 1/4"	2	<430	≥ 1.3*Pump Power
COS-4L5.4/230-2200	2200	80-280	90-430	5.4	230	1 1/4"	2	<430	≥ 1.3*Pump Power
COS-4L5.2/255-2200	2200	80-280	90-430	5.2	255	1 1/4"	2	<430	≥ 1.3*Pump Power



### With Built-in Inverter

#### Application:

- Remote areas where grid power supply is non-existent or instable
- Agriculture irrigation, livestock feeding, domestic water lifting
- Clear water supply from wells or reservoirs
- Off grid solar pumping system material features

#### Intelligent Inverter:

- MPPT - Maximum Power Point Tracking function - Save solar panel. (Maximizing utilization of power generated by solar panels)
- VFD - Variable Frequency Drive function have Max Speed 6000rpm
- Can be powered by both AC and DC power supply
- Suitable for Solar panel, Battery, Grid power supply, Generators
- Multi-protection function
- Dry-run protection, Over Current Protection
- Phase loss protection, Soft start

#### Input Voltage:

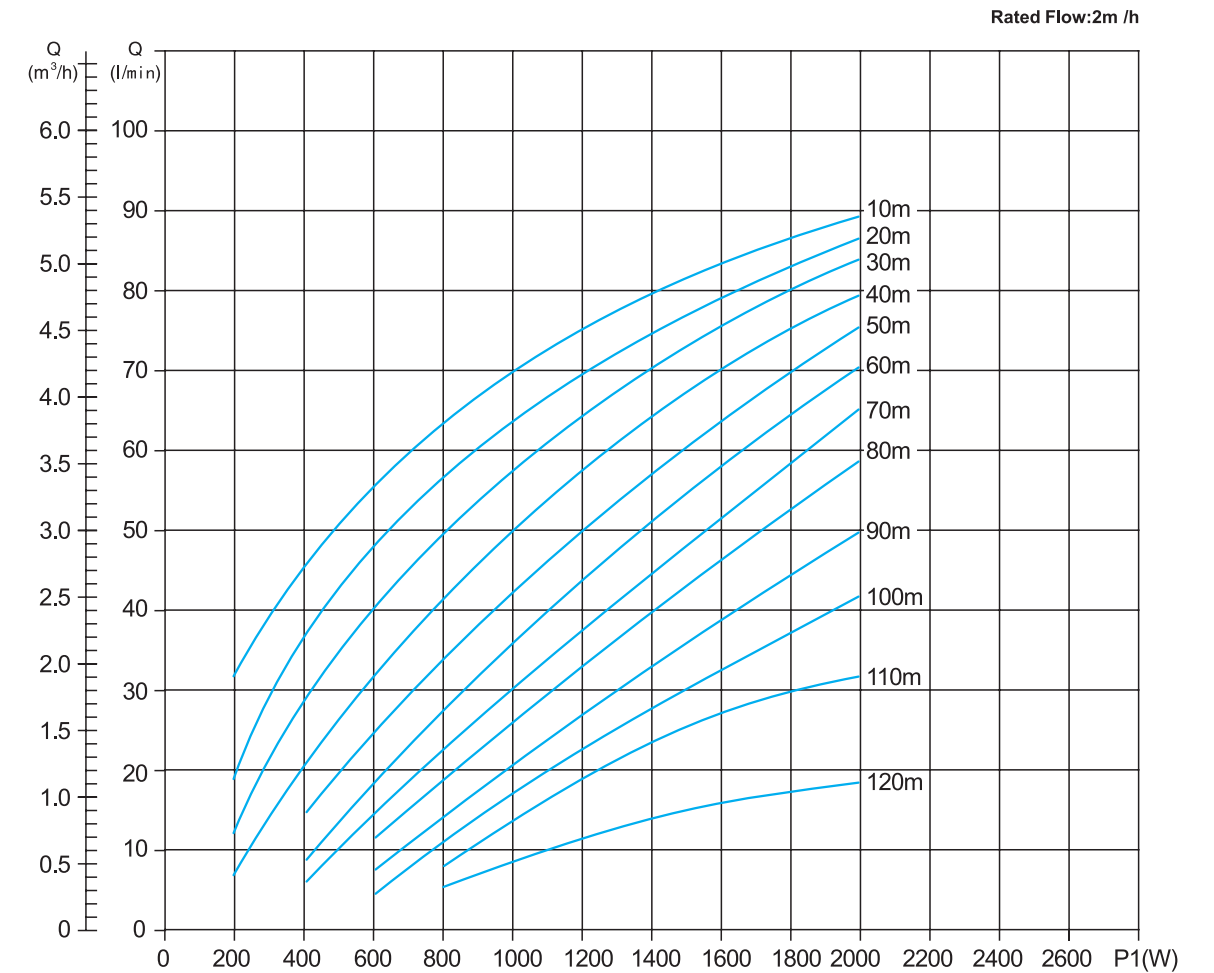
- AC Voltage Range: 1-Phase, 60~300V AC, 50~60Hz
- DC Voltage Range: 60 ~ 400V
- Solar Panel Open Circuit Voltage (VOC): 60 ~ 410V
- Solar Panel Open Circuit Voltage (VOC): 95 ~ 410V

#### Input Power Range:

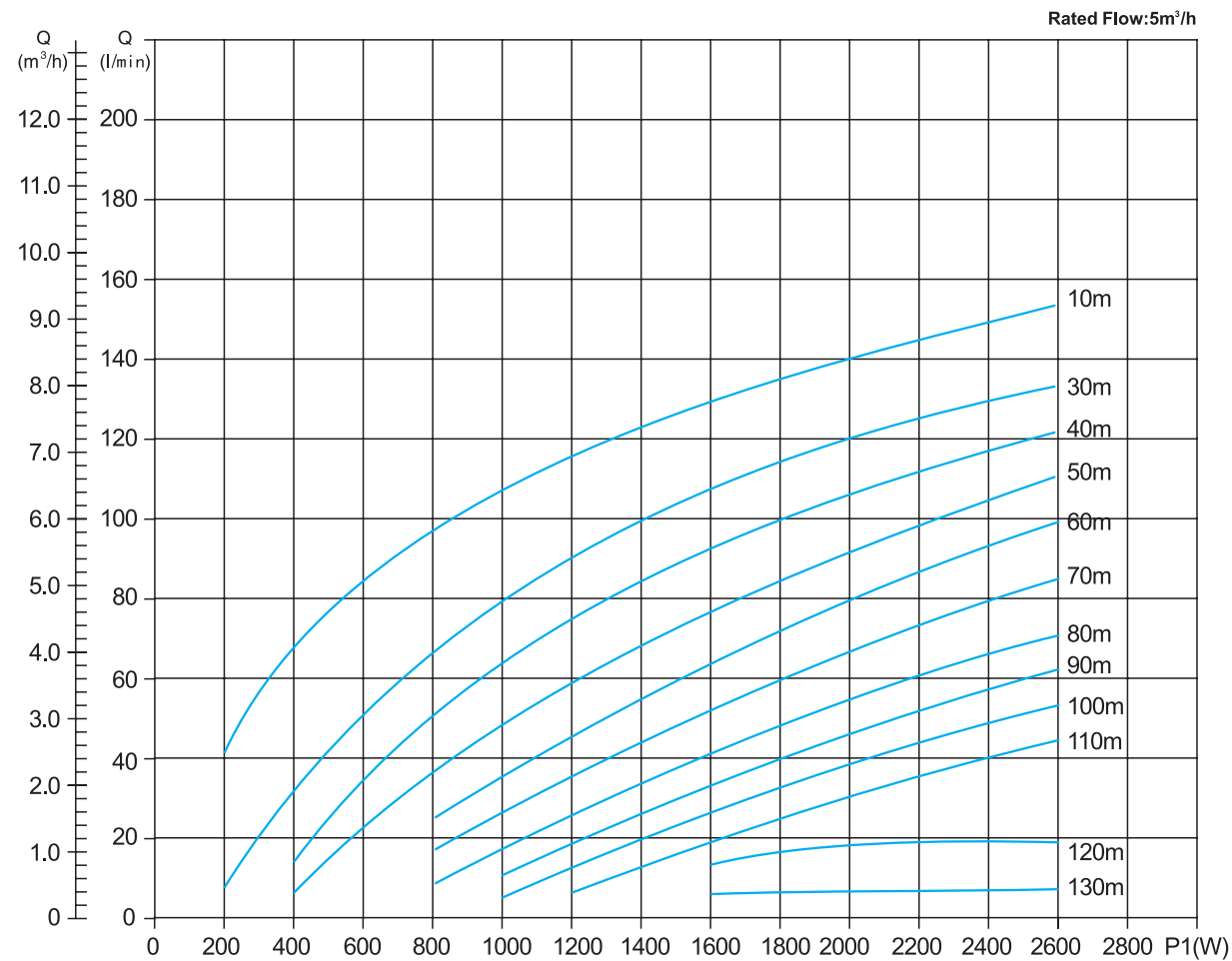
- DC Supply: 0.37 ~ 3kw
- AC Supply: 0.37 ~ 2.2kw



Intelligent inverter



MODEL	INPUT POWER(W)										
	200	400	600	800	1000	1200	1400	1600	1800	2000	
<b>COS-4L5.6/132-2200</b>	Q(m³/h)										
<b>H(m)</b>	10	1.86	2.76	3.24	3.84	4.14	4.44	4.74	4.98	5.28	5.4
	20	1.14	2.16	3	3.48	3.84	4.2	4.5	4.74	5.04	5.22
	30	0.72	1.56	2.46	3	3.42	3.84	4.14	4.44	4.8	5.04
	40	0.42	1.2	1.92	2.52	3	3.42	3.84	4.14	4.44	4.8
	50	/	0.9	1.5	2.04	2.52	3	3.48	3.78	4.08	4.56
	60	/	0.48	1.26	1.74	2.1	2.52	3	3.36	3.72	4.26
	70	/	0.3	0.9	1.44	1.8	2.22	2.58	2.94	3.36	3.96
	80	/	/	0.66	1.14	1.44	1.92	2.28	2.58	2.88	3.54
	90	/	/	0.48	0.9	1.26	1.62	1.92	2.34	2.64	3
	100	/	/	0.24	0.66	0.96	1.38	1.68	2.04	2.28	2.52
	110	/	/	/	0.48	0.78	1.14	1.44	1.68	1.8	1.92
	120	/	/	/	0.36	0.54	0.78	0.96	1.02	1.08	1.08
<b>Rated Power</b>	2.0HP		<b>Outlet</b>		1 1/4"		<b>MOTOR</b> 1~60Hz Automatic adjustment				
<b>Max Input Power</b>	2.2KW		<b>Pump size</b>		4"						
<b>DC Voltage range</b>	60-400V		<b>Max head</b>		132m						
<b>AC Voltage range</b>	1X60-300V,50/60Hz		<b>Max flow</b>		5,6 (m³/h)						

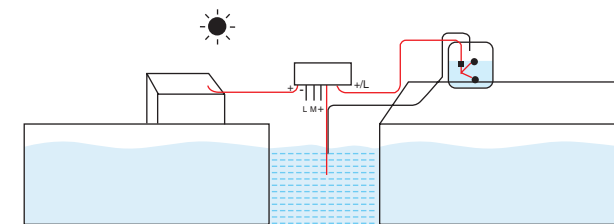


MODEL	INPUT POWER(W)											
	200	400	800	1000	1200	1600	1800	2000	2200	2400	2600	
<b>COS-4L10.2/136-2500</b>	Q(m³/h)											
H(m)	10	2.46	3.06	5.88	6.42	6.96	7.8	8.04	8.34	8.64	8.94	9.24
	30	0.48	1.62	4.02	4.62	5.4	6.36	6.72	7.08	7.38	7.74	8.04
	40	/	0.84	2.88	3.6	4.44	5.52	5.94	6.3	6.72	7.02	7.32
	50	/	0.42	2.04	2.82	3.48	4.68	5.1	5.58	6	6.36	6.66
	60	/	/	1.56	2.1	2.7	3.84	4.2	4.74	5.22	5.58	5.94
	70	/	/	1.02	1.56	2.1	3.06	3.36	3.78	4.38	4.74	5.1
	80	/	/	0.54	1.14	1.56	2.52	2.88	3.24	3.6	3.96	4.26
	90	/	/	/	0.66	1.14	2.04	2.28	2.76	3.12	3.42	3.72
	100	/	/	/	0.3	0.72	1.56	1.86	2.28	2.64	2.94	3.18
	110	/	/	/	/	0.42	1.2	1.5	1.8	2.16	2.34	2.64
	120	/	/	/	/	/	0.78	1.02	1.14	1.14	1.14	1.14
	130	/	/	/	/	/	0.36	0.42	0.42	0.42	0.42	0.42
	<b>Rated Power</b>	2.5HP		<b>Outlet</b>	1½"							
<b>Max Input Power</b>	3.0KW		<b>Pump size</b>	4"								
<b>DC Voltage range</b>	60-400V		<b>Max head</b>	136m								
<b>AC Voltage range</b>	1X60-300V,50/60Hz		<b>Max flow</b>	10.2 (m³/h)								
				MOTOR 1~60Hz Automatic adjustment								

Powered with both AC and DC sources without making any modifications to the pump or adding additional equipment.  
Max. power output is 2200 W. The speed range for the motor is 500-3600rpm depending on the power input and the load.

### Main Function:

- Brushless, permanent magnet double shielded motor, frequency converter and motor controller inside
- Soft start running make system life longer
- Powered by AC/DC
- Supply voltage range: 90-360 VDC or 90-240 VAC at 50/60 Hz, 90-440 VOC
- 50Hz and 60Hz both working
- Very easy installation
- MPPT efficiency high, motor efficiency high, dry protection, reverse protection,
- Over head protection, overload protection, over-current protection, over-voltage
- Protection, losing-phase protection, missing-voltage protection



### System Components:

- The Solar water pumping system includes
- Sampling solar pump set
- Solar panel and it's mounting structure
- Cable
- Pipes
- Monitor (Non-compulsory)
- Variety of flow available in 5 to 400 lpm
- Motor and drive ratings available in 0.5 to 3 HP



MODEL	POWER P2(KW)	MAX. FLOW (L/min)	MAX. HEAD (m)	IMPELLERS	OUTLET	MOTOR	MAX DIAMETER OF PUMP
4CCS 14-2	2	420	24	2	2"	4"	4"
4CCS 14-3	2.8	435	36	3	2"	4"	4"
4CCS 8-5	2.5	280	55	5	2"	4"	4"
4CCS 5-6	1.8	166	66	6	1½"	4"	4"
4CCS 8-7	2.8	270	77	7	2"	4"	4"
4CCS 8-8	3	250	88	8	2"	4"	4"
4CCS 2-9	1.5	90	95	9	1¼"	4"	4"
4CCS 5-10	3	166	110	10	1½"	4"	4"
4CCS 5-12	2.5	166	134	12	2"	4"	4"
4CCS 5-15	3	166	165	15	1½"	4"	4"
4CCS 3-18	3	100	185	18	1¼"	4"	4"
5CCS 25-1	1.6	650	14	1	2½"	4"	5"
5CCS 25-2	2.6	710	25	2	2½"	4"	5"
5CCS 25-3	3	678	38	3	2½"	4"	5"
5CCS 10-4	3	440	49	4	2½"	4"	5"



# COS-3L

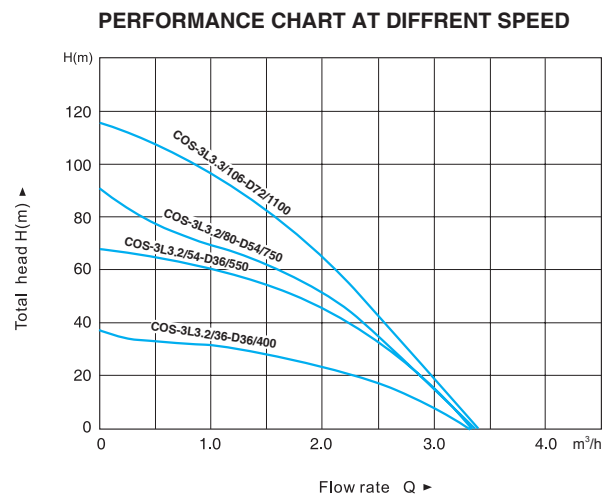
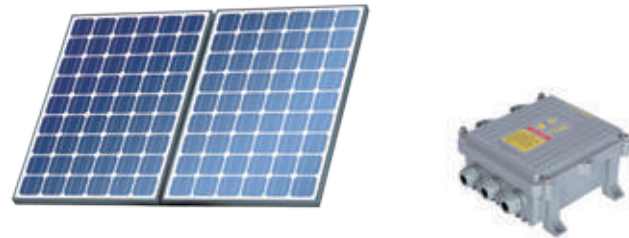
## 3" Solar Power Submersible Borehole Pump

### Material:

- Outlet: Brass
- Pump Body: Stainless Steel
- Impeller: Plastic
- Motor Body: Stainless Steel
- Motor: Full Oil Permanent Magnet Brush less DC Motor (Without Hall)
- Controller: 32bit MCU/FOC/Sine Wave Current/MPPT
- Controller Shell: Die-cast Aluminum(IP67)

### Application:

- The system consists of solar modules, solar pump controller, solar pump, reservoir and water equipment tube, using solar power to pump water to meet the daily water needs of families(optional water purification system), with no need of electricity, diesel generators or batteries.
- It replaces energy storage with water storage, especially suitable for those areas in shortage of water and electricity.



MODEL	POWER P2(W)	VOLTAGE (Vdc)	VOLTAGE RATE (Vdc)	MAX.FLOW (m³/h)	MAX.HEAD (m)	OUTLET
COS-3L3.2/36-D36/400	400	36	20-68	3.2	36	1"
COS-3L3.2/54-D36/550	550	36	20-68	3.2	54	1"
COS-3L3.2/80-D54/750	750	54	30-80	3.2	80	1"
COS-3L3.3/106-D72/1100	1100	72	46-100	3.3	106	1"

# CSH-3L

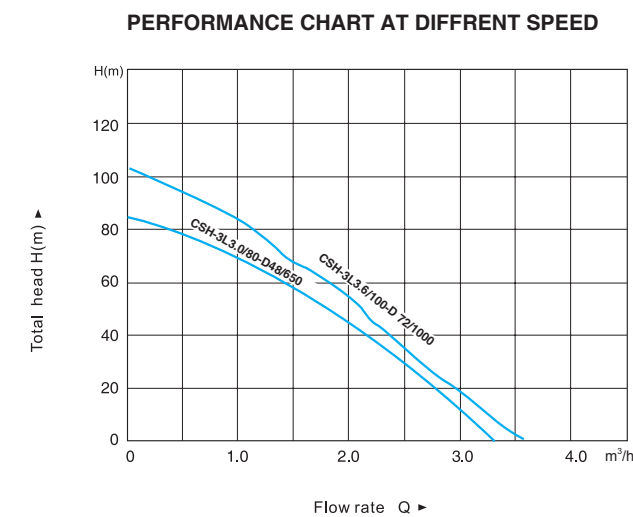
## 4" Solar Power Submersible Screw Pump

### Material:

- Outlet: Stainless Steel
- Pump Body: Stainless Steel
- Motor Body: Stainless Steel
- Motor: Full Oil Permanent Magnet Brushless DC Motor(Without Hall)
- Controller: 32bit MCU/FOC/Sine Wave Current/MPPT
- Controller Shell: Die-cast Aluminum(IP67)

### Application:

- The system consists of solar modules, solar pump controller, pump, micro-irrigation system and reservoir. The system uses solar power to pump water to meet the water needs of plants and animals, with no need of electricity, diesel generators and batteries. It replaces energy storage with water storage.
- The whole system is fully automated, maintenance-free economic and environment friendly.



MODEL	POWER P2(W)	VOLTAGE (Vdc)	VOLTAGE RATE(Vdc)	MAX.FLOW (m³/h)	MAX.HEAD (m)	OUTLET
CSH-3L3.0/80-D48/650	650	48	36-80	3	80	1"
CSH-3L3.6/100-D 72/1000	1000	72	46-100	3.6	100	1"

# COS-4L

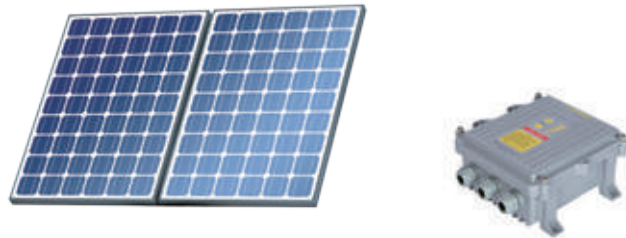
## 4" Solar Power Submersible Borehole Pump

### Material:

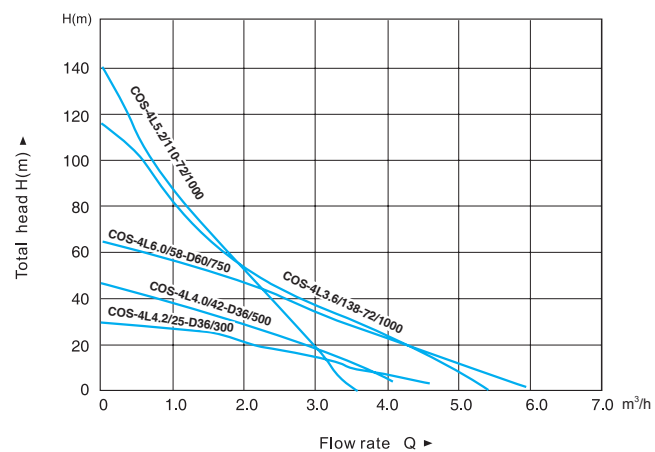
- Outlet : Brass
- Pump Body: Stainless Steel
- Impeller: Stainless Steel
- Motor Body: Stainless Steel
- Motor : Full Oil Permanent Magnet Brushless DC Motor (Without Hall)
- Controller: 32bit MCU/FOC/Sine Wave Current/MPPT

### Application:

- The system consists of solar modules, solar pump controller, solar pump, reservoir and water equipment tube, using solar power to pump water to meet the daily water needs of families(optional water purification system), with no need of electricity, diesel generators or batteries.
- It replaces energy storage with water storage, especially suitable for those areas in shortage of water and electricity.



PERFORMANCE CHART AT DIFFRENT SPEED



MODEL	POWER P2(W)	VOLTAGE (Vdc)	VOLTAGE RATE(Vdc)	MAX.FLOW (m³/h)	MAX.HEAD (m)	OUTLET
COS-4L4.2/25-D36/300	300	36	20-68	4.2	25	1½"
COS-4L4.0/42-D36/500	500	36	20-68	4.0	42	1¼"
COS-4L6.0/58-D60/750	750	54	30-80	6.0	58	1½"
COS-4L3.6/138-72/1000	1000	72	46-100	3.6	138	1¼"
COS-4L5.2/110-72/1000	1000	72	46-100	5.2	110	1½"

# COS-5L

## 5" Solar Power Submersible Borehole Pump

### Material:

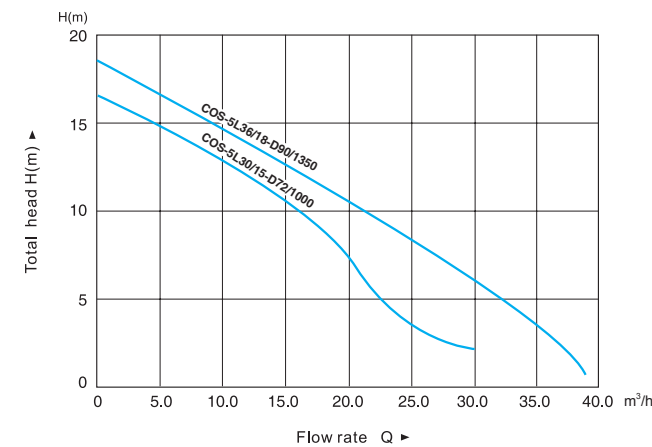
- Outlet: 304 Stainless Steel
- Pump Body: 304 Stainless -Steel
- Pump Body: 304 Stainless Steel
- Impeller: 304 Stainless Steel
- Motor Body: 304 Stainless Steel
- Motor: Full Oil Permanent Magnet Brushless DC Motor (Without Hall)
- Controller: 32bit MCU/FOC/Sine Wave Current/MPPT
- Controller Sheel : Die-cast Aluminum(IP67)

### Application:

- The system consists of solar modules, solar pump controller, solar pump, reservoir and water equipment tube, using solar power to pump water to meet the daily water needs of families(optional water purification system), with no need of electricity, diesel generators or batteries.
- It replaces energy storage with water storage, especially suitable for those areas in shortage of water and electricity.



PERFORMANCE CHART AT DIFFRENT SPEED



MODEL	POWER P2(W)	VOLTAGE (Vdc)	VOLTAGE RATE(Vdc)	MAX.FLOW (m³/h)	MAX.HEAD (m)	OUTLET
COS-5L30/15-D72/1000	1000	72	46-100	30	15	3"
COS-5L36/18-D90/1350	1350	90	48-120	36	18	3"



CNFP4 Series canned submersible motor is the newest product developed by which can be used advanced production echnology and equipment, the high-quality stator winding withm special self-healing resin fxd in the fully sealed stainless steel stator shell, because of fxd and not contact with liquid, stator winding avoids possible water impact and wear, and has been good mechanical protection, And the special resin has good heat conduction performance to improve the motor cooling conditions with organic environmental cooling liquid as a lubrication system, through the check-valve filter system in the motor running process at any time from the well automatically replenished. The application of this technology avoids the problem of water pollution caused by sealing problem. Therefore,the motor has the advantages of energy saving, environmental protection and durability.

### Features:

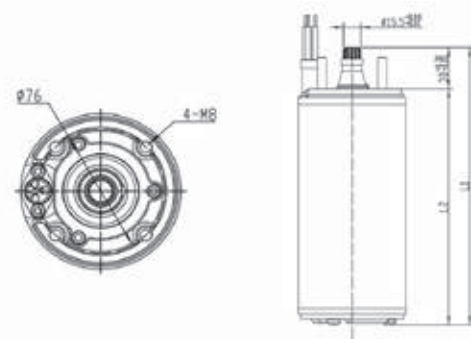
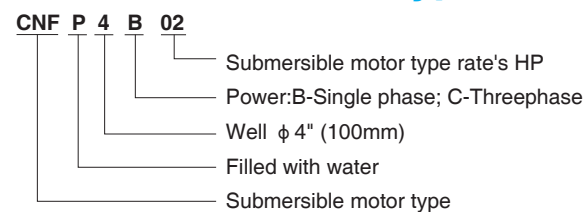
- Equipping With 4 " submersible pump, it is applicable to 4" or above the wells
- Meet the drinking water standard, 304ss motor case body
- Single-phase motor with lightning protection function
- Plug-in cable
- Low power silicon steel laminated plate ensure high start-up torque
- A thrust bearing designed with maintenance-free water lubrication can withstand high strength axial thrust load
- Automatic replenishment of the check valve filtration system
- 100% simulated 250m water work condition insulation test
- Special Epoxy resin perfusion, high efficiency heat conduction to ensure longer service life

### Motor:

- Power range: Single-phase motor power: 0.5HP-3HP  
Three-phase motor power: 0.5HP-10HP
- Rated voltage and frequency: 380V-400V-415V/50Hz  
380V-460V/60Hz  
210V-220V-230V/50Hz
- Connection mode: 4 " NEMA standard
- Protection Rating: IP68
- Insulation Grade: F
- Maximum startup times: 30 times / h
- Ambient temperature: 35°C
- Cabc wire specification: XHHW-2 AWG14
- Cooling flow: Min. 0.08m/s
- Starting mode: 0.5-10HP start directly
- PH range of media: 6.5-8.0
- Lower thrust load: 3500N, 4000N, 6800N
- Mounting mode: Vertical/Tilt (Customizable horizontal installation)



### Submersible Motor Type:



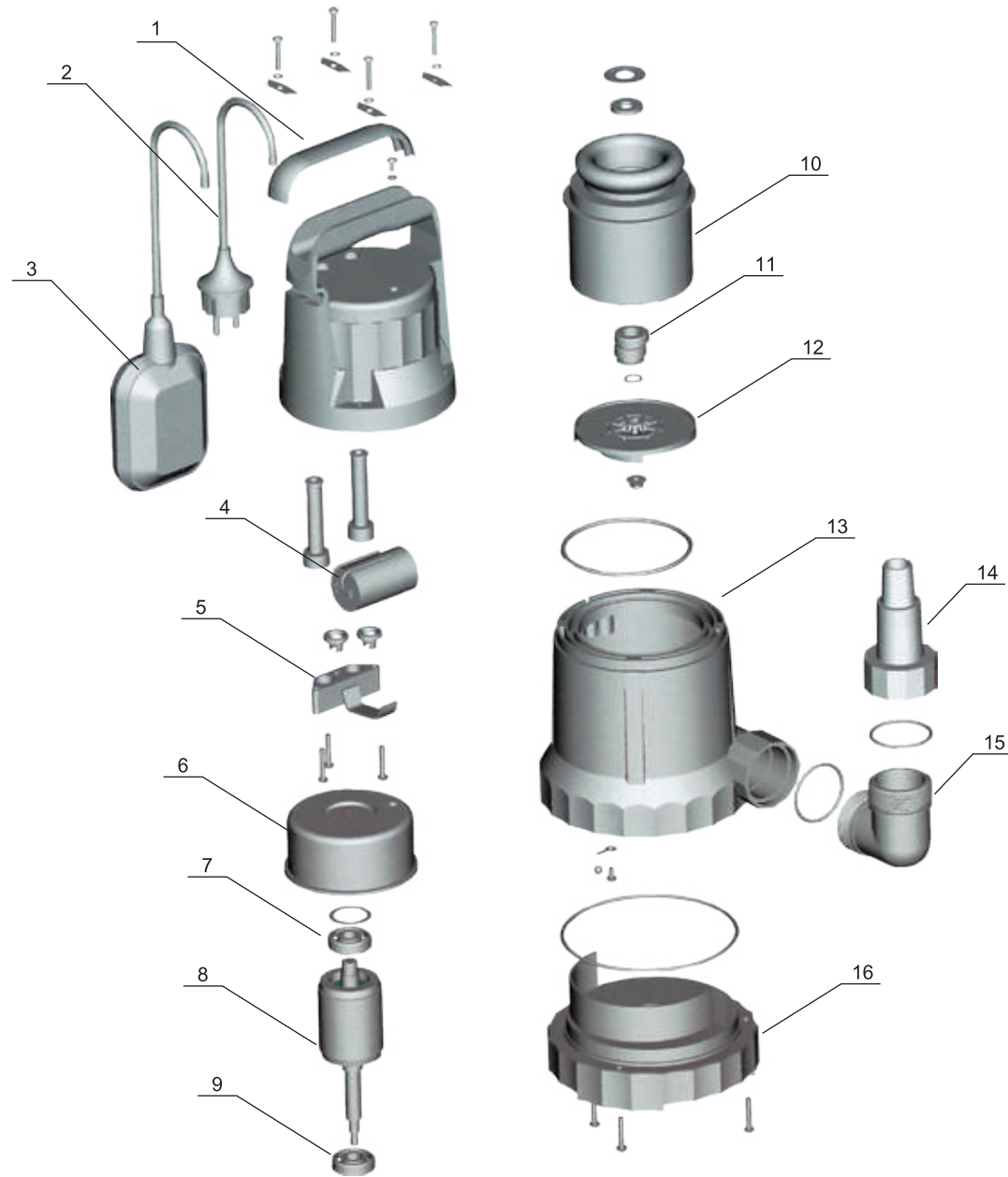
MODEL	POWER P2( KW )	VOLTAGE ( Vdc )	RATED CURRENT(A)	SPEED ( r/min )	POWER FACTOR ( COS $\phi$ )	L1 ( mm )	L2 ( mm )	WEIGHT ( kg )
CNFP4B02	0.37	220	2.67	2825	0.99	264	226	7.2
CNFP4B03	0.55	220	3.8	2833	0.99	289	251	8.3
CNFP4B04	0.75	220	5.05	2824	0.99	309	271	9.2
CNFP4B05	1.1	220	7.3	2822	0.99	344	306	10.8
CNFP4B06	1.5	220	9.67	2842	0.99	399	361	13.2
CNFP4B07	2.2	380	14.1	2827	0.99	459	421	15.8
CNFP4C02	0.37	380	1.16	2819	0.69	254	216	6.8
CNFP4C03	0.55	380	1.61	2817	0.74	274	236	7.6
CNFP4C04	0.75	380	2.17	2829	0.73	299	261	8.8
CNFP4C05	1.1	380	3.05	2810	0.75	324	286	9.8
CNFP4C06	1.5	380	4.05	2818	0.75	369	331	11.8
CNFP4C07	2.2	380	5.98	2811	0.73	414	376	14
CNFP4C08	3	380	7.18	2834	0.83	544	506	19
CNFP4C09	4	380	9.69	2834	0.82	609	571	22
CNFP4C10	5.5	380	13.11	2829	0.82	709	671	26
CNFP4C11	7.5	380	17.7	2826	0.83	844	806	32

## Garden Submersible Pump





Diagram

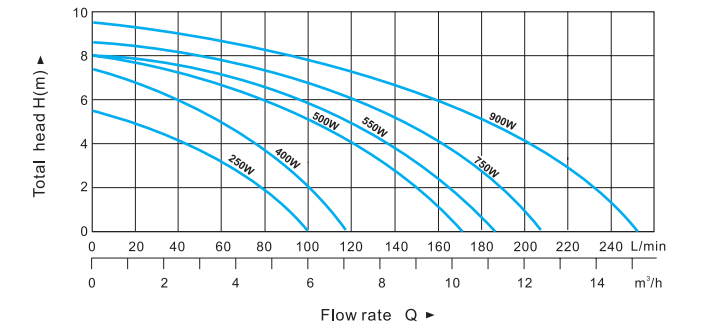


NO.	DESCRIPTION	NO.	DESCRIPTION
1	Handle Grip	9	Ball Bearing
2	Plug & Cable	10	Motor Stator
3	Float Switch	11	Mechanical Seal
4	Capacitor	12	Impeller
5	Wire Clip	13	Pump Housing
6	Upper Lid	14	Universal Fitting
7	Ball Bearing	15	Connector
8	Rotor Shaft	16	Pump Base

Features:

- Max Dia. of particle: 5mm
- Max immersion depth: 5m
- Insulation class: B

PERFORMANCE CHART AT n=2900 r/min



CSP-XX0P



CSP-XX1P

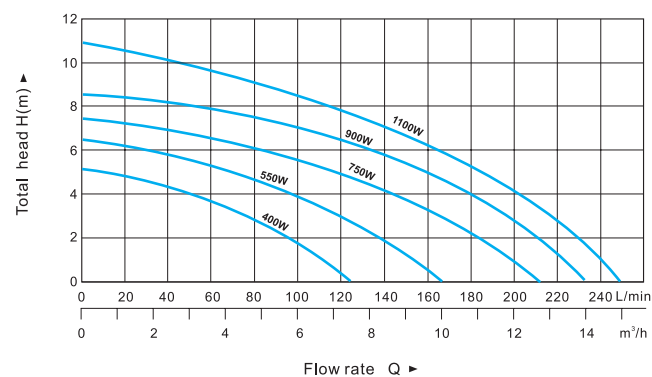
MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA.OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP-250P / CSP-251P	250	100	5.5	1", 1¼", 1½"	H05RN-F3G0.75mm <sup>2</sup>	16	460x340x330/4pcs	2300
CSP-400P / CSP-401P	400	118	7.5		H05RN-F3G0.75mm <sup>2</sup>	17	460x340x330/4pcs	2300
CSP-500P / CSP-501P	500	168	8		H05RN-F3G0.75mm <sup>2</sup>	21	460x340x350/4pcs	2300
CSP-550P / CSP-551P	550	185	8		H05RN-F3G0.75mm <sup>2</sup>	21	460x340x350/4pcs	2040
CSP-750P / CSP-751P	750	210	8.5		H05RN-F3G1.0mm <sup>2</sup>	22	460x340x350/4pcs	2040
CSP-900P / CSP-901P	900	250	9.5		H05RN-F3G1.0mm <sup>2</sup>	24	460x340x350/4pcs	2040



**Features:**

- Max Dia. of particle: 35mm
- Max immersion depth: 5m
- Insulation class: B

PERFORMANCE CHART AT n=2900 r/min



CSP-XX0PW



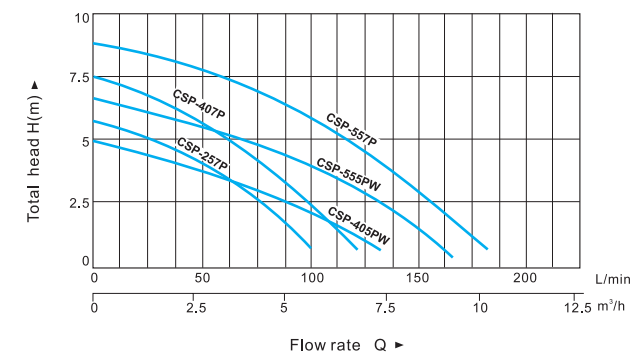
CSP-XX1PW

MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA.OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP-400PW / CSP-401PW	400	125	5	1", 1¼", 1½"	H05RN-F3G0.75mm <sup>2</sup>	16.5	460x340x370/4pcs	2040
CSP-550PW / CSP-551PW	550	168	6.5		H05RN-F3G1.0mm <sup>2</sup>	19.5	460x340x370/4pcs	2020
CSP-750PW / CSP-751PW	750	216	7.5		H07RN-F3G1.0mm <sup>2</sup>	20.5	460x340x385/4pcs	2020
CSP-900PW / CSP-901PW	900	235	8.5		H07RN-F3G1.0mm <sup>2</sup>	22.5	460x340x385/4pcs	2020
CSP-1101PW	1100	250	11		H07RN-F3G1.0mm <sup>2</sup>	23	460x340x385/4pcs	2020

**Features:**

- Max Dia. of particle: 5mm
- Max immersion depth: 5m
- Insulation class: B
- Mechanical built-in automatic water level control

PERFORMANCE CHART AT n=2900 r/min



CSP-257P  
Clean Water

**Features:**

- Max Dia. of particle: 35mm
- Max immersion depth: 5m
- With mechanical seal
- Mechanical built-in automatic water level control



CSP-555PW  
Dirty Water

MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA.OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP-257P	250	100	5.5	1", 1¼", 1½"	H05RN-F3G0.75mm <sup>2</sup>	16.5	460x340x370/4pcs	2040
CSP-407P	400	118	7.5		H05RN-F3G0.75mm <sup>2</sup>	17.3	460x340x370/4pcs	2040
CSP-557P	550	185	8		H05RN-F3G1.0mm <sup>2</sup>	21.3	460x340x370/4pcs	2040
CSP-405PW	400	135	5		H05RN-F3G0.75mm <sup>2</sup>	17.8	460x340x380/4pcs	2020
CSP-555PW	550	168	6.8		H05RN-F3G1.0mm <sup>2</sup>	21.8	460x340x385/4pcs	2020

Features:

- Max Dia. of particle:35mm
- Max immersion depth:5m
- Protection: IP X8
- Insulation: Class F



CSP250-60-92A



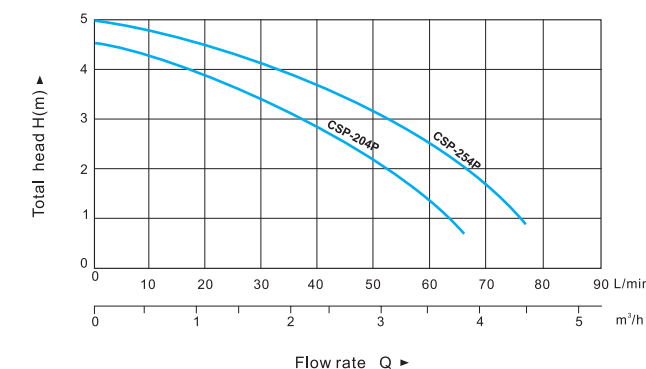
CSP400-50-133A

MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA.OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP250-60-92A	250	92	6	1"1/4" / 1 1/2"	H05RN-F 3G0.75mm <sup>2</sup>	15.8	220×180×310	2300
CSP400-75-133A	400	133	7.5		H05RN-F 3G0.75mm <sup>2</sup>	16.6	220×180×310	2300
CSP550-85-175A	550	175	8.5		H05RN-F 3G1.0mm <sup>2</sup>	18.2	220×180×310	2300
CSP750-105-208A	750	208	10.5		H05RN-F 3G1.0mm <sup>2</sup>	20.2	220×180×310	2040
CSP900-110-241A	900	241	11		H05RN-F 3G1.0mm <sup>2</sup>	22.2	220×180×330	2040
MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA.OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP400-50-133A	400	133	5	1"1/4" / 1 1/2"	H05RN-F 3G0.75mm <sup>2</sup>	16.6	220×180×340	2040
CSP550-70-183A	550	183	7		H05RN-F 3G0.0mm <sup>2</sup>	18.2	220×180×340	2040
CSP750-80-225A	750	225	8		H05RN-F 3G1.0mm <sup>2</sup>	20.2	220×180×360	2040
CSP900-90-250A	900	250	9		H05RN-F 3G1.0mm <sup>2</sup>	22.2	220×180×360	2040
CSP1100-100-266A	1100	266	10		H05RN-F 3G1.0mm <sup>2</sup>	24.6	220×180×370	2040

Features:

- Max Dia. of particle: 5mm
- Max immersion depth: 5m
- Insulation class: B

PERFORMANCE CHART AT n=2900 r/min



CSP-204P  
CSP-254P

MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA.OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP-204P	200	66	4.5	1"	H05RN-F3G0.75mm <sup>2</sup>	15.2	510×340×330/6pcs	2800
CSP-254P	250	75	5		H05RN-F3G0.75mm <sup>2</sup>	16	510×340×330/6pcs	2800



**Operating Conditions:**

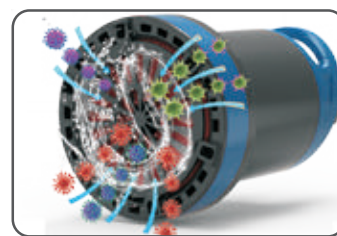
- Operating Limits: ≤35°C
- Insulation: Class B
- Protection: IP X8

**Materials:**

- Pump body: ABS
- Impeller: POM
- Motor shaft: Ceramic
- Mechanical seal: Silicon Carbide

**Features:**

- Suitable for seafood storage, garden watering, rocky circulation water supply, swimming pool drainage etc.
- Low water level pumping design, pumping as low as 3mm, to ensure pumping water cleaner.
- Wear resistant ceramic shaft core and sleeve, acid and alkali resistance, corrosion resistance, low resistance to reduce noise.
- Pump motor sealed with high-quality resin glue, good insulation, safe to use.
- Portable handle, easy to carry.
- Filter bottom cover design, anti-blocking and anti-adsorption.
- Break the traditional water chamber structure, can quickly remove the air from pump body and pipe, pumping water faster.



360° Inlet



P-m rotor, low noise



Pumping as low as 3mm

MODEL	POWER (P1) (W)	OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	PACKING DIMENSION/UNIT (mm)
CSP1000-65-7	100	¾" / 1" / 1¼"	220V/50Hz	6.5	7	156×159×224

**Operating Conditions:**

- Operating Limits: ≤35°C
- Insulation: Class B
- Protection: IP X8

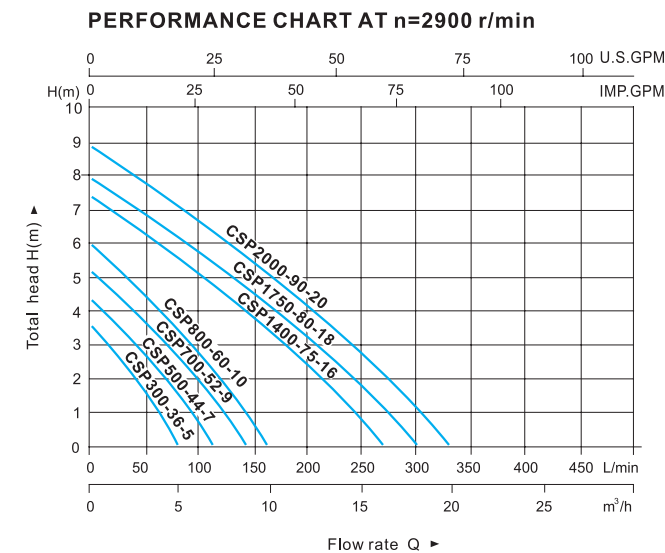
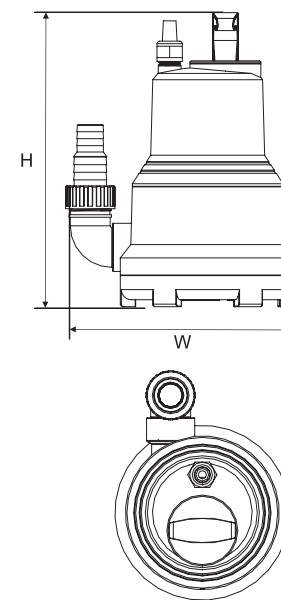
**Materials:**

- Pump body: ABS
- Impeller: POM
- Motor shaft: Ceramic
- Mechanical seal: Silicon Carbide

**Application:**

- Suitable for seafood storage, garden watering, rocky circulation water supply, swimming pool drainage etc

**Outline Size:**



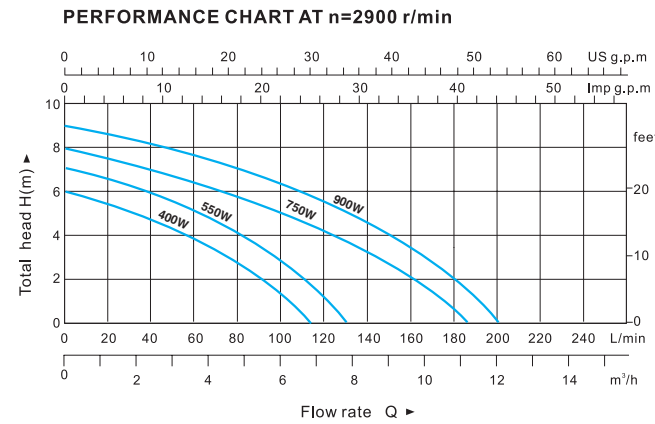
CSP800-60-10

CSP300-36-5

MODEL	POWER (P1) (W)	OUTLET DIAMETER	VOLTAGE FREQUENCY (V/Hz)	MAX. HEAD (m)	MAX. FLOW (m³/h)	CABLE LENGTH (m)	H (mm)	W (mm)
CSP300-36-5	30	¾" / 1" / 1¼"	220~240V 50Hz	3.6	5	5	232	185
CSP500-44-7	50	¾" / 1" / 1¼"		4.4	7	5	232	185
CSP700-52-9	70	¾" / 1" / 1¼"		5.2	9	5	232	185
CSP800-60-10	80	1" / 1¼" / 1½" / 2"		6.0	10	10	250	222
CSP1400-75-16	140	1" / 1¼" / 1½" / 2"		7.5	16	10	250	222
CSP1750-80-18	175	1" / 1¼" / 1½" / 2"		8.0	18	10	250	222
CSP2000-90-20	200	1" / 1¼" / 1½" / 2"		9.0	20	10	250	222

### Features:

- Max Dia. of particle: 5mm
- Max immersion depth: 8m
- Insulation class: B



CSP-XX0S



CSP-XX1S



CSP-XX2S



CSP-XX3S



CSP-XX0SW



CSP-XX5SW



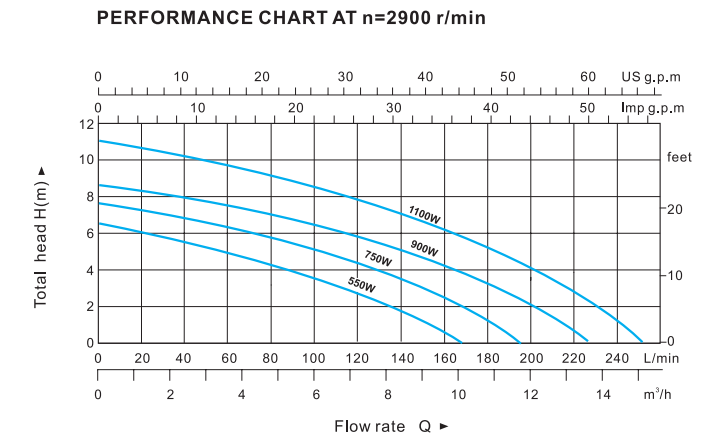
CSP-XX0PSW



CSP-XX2PSW

### Features:

- Max Dia. of particle: 35mm
- Max immersion depth: 5m
- Insulation class: B



MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA.OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP-40X (0, 1, 2, 3)S	400	117	6	1", 1¼", 1½"	H07RN-F3G1.0mm²	18.2	460×340×330/4pcs	2300
CSP-55X (0, 1, 2, 3)S	550	133	7		H07RN-F3G1.0mm²	21.3	460×340×330/4pcs	2300
CSP-75X (0, 1, 2, 3)S	750	183	8		H07RN-F3G1.0mm²	23.6	460×340×330/4pcs	2300
CSP-90X (0, 1, 2, 3)S	900	200	9		H07RN-F3G1.0mm²	25.3	460×340×330/4pcs	2300

MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA.OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP-55X (0, 1, 2, 3)SW	550	166	6.5	1", 1¼", 1½"	H05RN-F3G1.0mm²	25	460×380×385	1800
CSP-75X (0, 1, 2, 3)SW	750	190	7.5		H07RN-F3G1.0mm²	26	460×380×385	1800
CSP-90X (0, 1, 2, 3)SW	900	225	8.5		H07RN-F3G1.0mm²	28	460×380×385	1800
CSP-110X (0, 1, 2, 3)SW	1100	250	11		H07RN-F3G1.0mm²	31	460×380×385	1800



# CSP/CIP

## Multi-stage Submersible Pump (High Head)

### Operating Limits:

- Max. fluid temperature: 40°C
- Max. passage of suspended solid body:  $\Phi$ 2mm
- Continuous duty

### Motor:

- Two-Pole induction motor (n=2900 r/min)
- Insulation Class F
- Protection IPX8
- With capacitor and thermal overload protection
- Copper wire motor

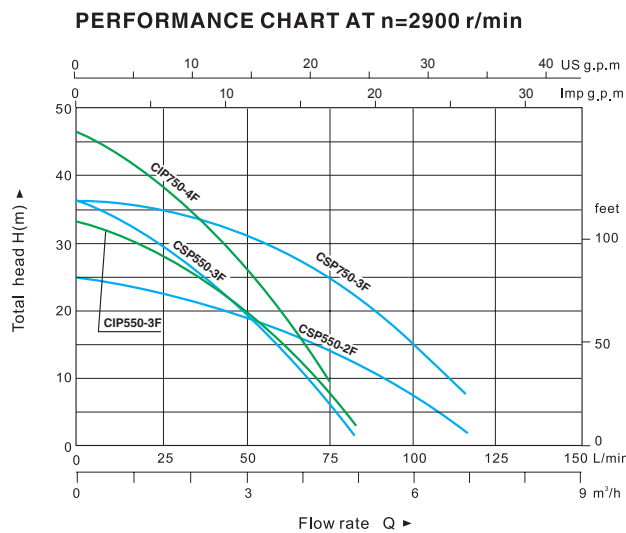
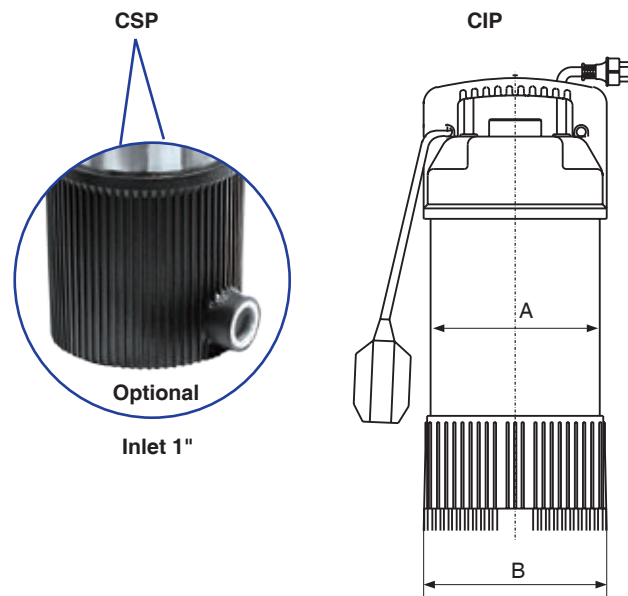
### Material:

- Inlet and outlet body: Plastic
- Impeller: Plastic
- Motor shaft: Stainless Steel
- Double Mechanical seals separated by an oil chamber
- Mechanical seal: Ceramic / Graphite

### Application:

- These pumps are used when the level of water to be drawn off is located at a distance higher than 9 meters. Submerged, they offer the advantage of being invisible, silent and less subject to the risk of freezing. These pumps are supplied with a safety system using a buoyancy device which ensures the pump to stop automatically, if the well dries up.

## MULTISTAGE (High Head)



MODEL		POWER(P2)		IMPELLERS	OUTLET	MAX. FLOW (m³/h)	MAX. HEAD (m)	SIZE (mm)		CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
W/FLOAT SWITCH	W/O FLOAT SWITCH	kW	HP					A	B				
CSP550-2F	CSP550-2	0.55	0.75	2	1"	7	25	φ 146	φ 158	10	11	395x220x215	1450
CSP550-3F	CSP550-3	0.55	0.75	3	1"	5	36				13	420x220x215	1550
CSP750-3F	CSP750-3	0.75	1	3	1"	7	36				12	435x220x215	1400
CIP550-3F	CIP550-3	0.55	0.75	3	1"	5	34	φ 128	φ 148	10	9	410x210x205	1650
CIP750-4F	CIP750-4	0.75	1	4	1"	5	46				10	445x200x205	1500

# MSP

## Multistage Submersible Pump

### Operating Limits:

- Max. depth: 8m
- Max. liquid temperature: 35°C
- Max. ambient temperature: 40°C

### Motor:

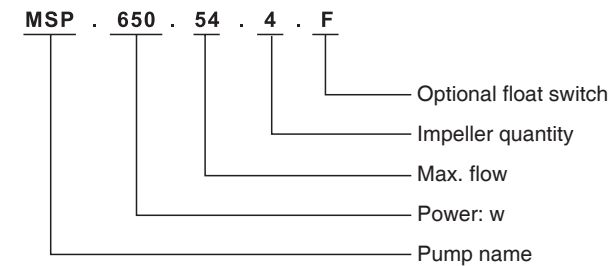
- Two-pole induction motor(n=2900 r/min)
- Insulation class B
- Protection IP68
- Continuous service S1
- Thermal protector
- Single-phase 220V/50Hz, 60Hz if request

### Material:

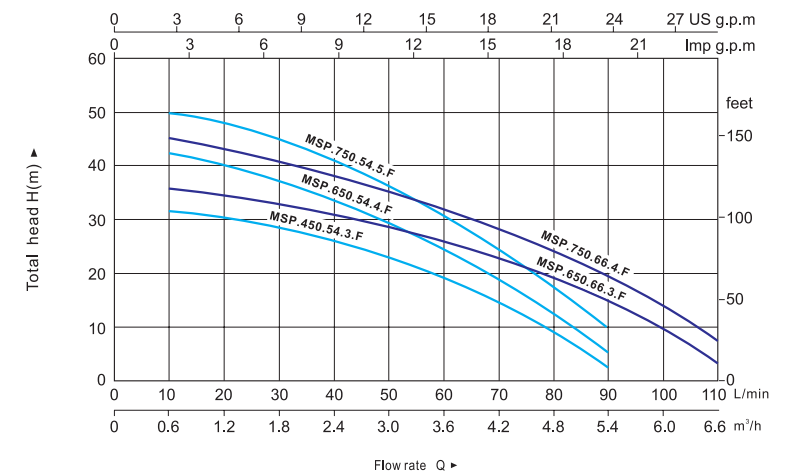
- Pump body: Stainless steel/Technopolymer
- Suction filter: Stainless steel
- Impeller: Noryl
- Motor shaft: Stainless steel
- Mechanical seal: Ceramic/Graphite
- Bearings: 6201 RZ/6202 RZ

### Application:

- Suitable for use with clean water that does not contain abrasive particles.
- As a result of their reliability and the fact that they are easy to use, and suitable for use in applications such as domestic, gardening, irrigation and emptying tanks.



PERFORMANCE CHART AT n=2900 r/min

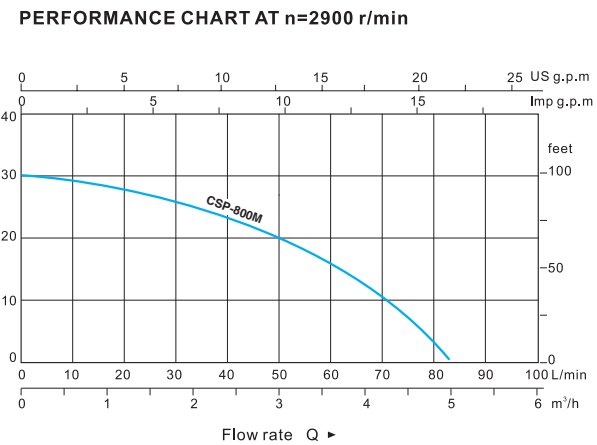


MODEL		POWER P2(KW)	MAX.FLOW (m³/h)	MAX. HEAD (m)	OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)
W/FLOAT SWITCH	W/O FLOAT SWITCH						
MSP.450.54.3.F	MSP.450.54.3	0.45	5.4	32	1"	9.3	245x195x540
MSP.650.54.4.F	MSP.650.54.4	0.65	5.4	42	1"	10	245x195x565
MSP.750.54.5.F	MSP.750.54.5	0.75	5.4	50	1"	10.7	245x195x590
MSP.650.66.3.F	MSP.650.66.3	0.65	6.6	35	1"	9.8	245x195x540
MSP.750.66.4.F	MSP.750.66.4	0.75	6.6	45	1"	10.5	245x195x565

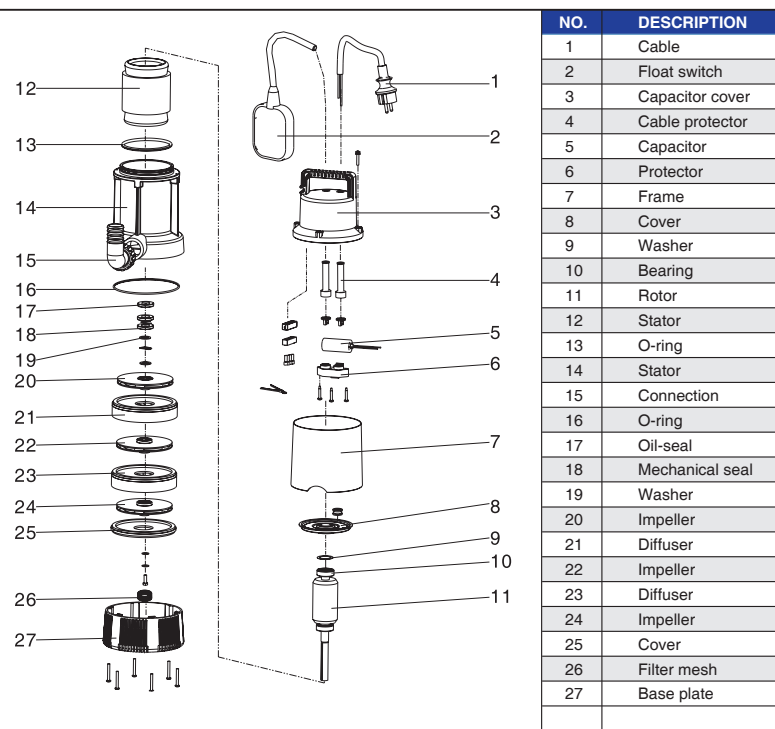


**Features:**

- Max Dia. of particle: 0.5mm
- Max immersion depth: 5m
- With mechanical seal



CSP-800M



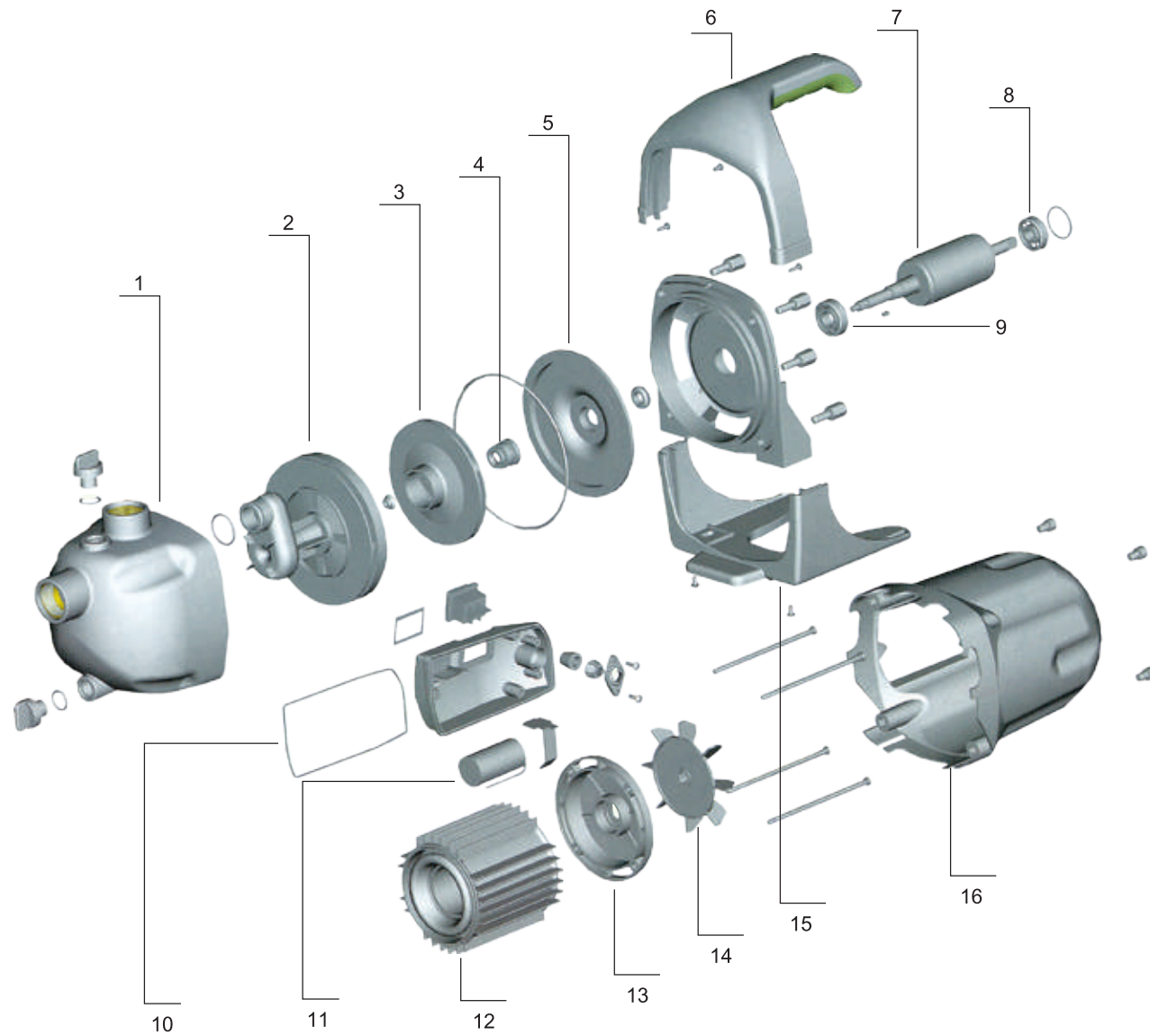
MODEL	POWER P1(W)	IMPELLERS	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA.OF PIPE	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP-800M	800	3	83	30	1¼"	H07RN-F3G1.0mm²	30	460x340x370	2040

# Garden Jet Pump



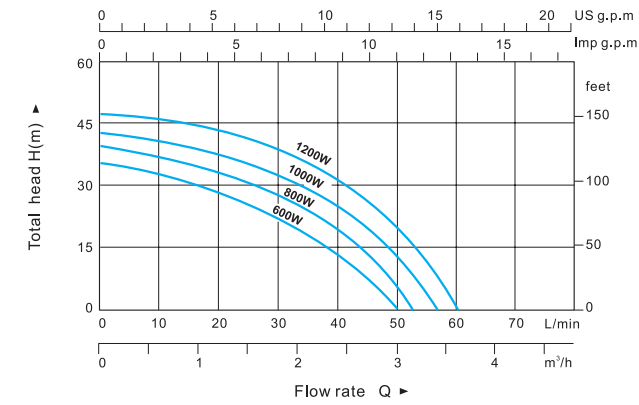


Diagram



NO.	DESCRIPTION	MATERIAL	NO.	DESCRIPTION	MATERIAL
1	Pump Body	Technopolymer or Stainless Steel	9	Ball Bearing	
2	Ejector	Noryl	10	Seal Ring	NBR
3	Impeller	Noryl	11	Capacitor	
4	Mechanical Seal	Carbon/Ceramic	12	Motor Stator	
5	Seal Holder	ABS	13	End Plate	AL-2L 102
6	Handle	ABS	14	Fan	ABS
7	Rotor Shaft		15	Pump Base	ABS
8	Ball Bearing		16	Motor Shell	ABS

PERFORMANCE CHART AT n=2900 r/min



CJP-XX0P



CJP-XX1P

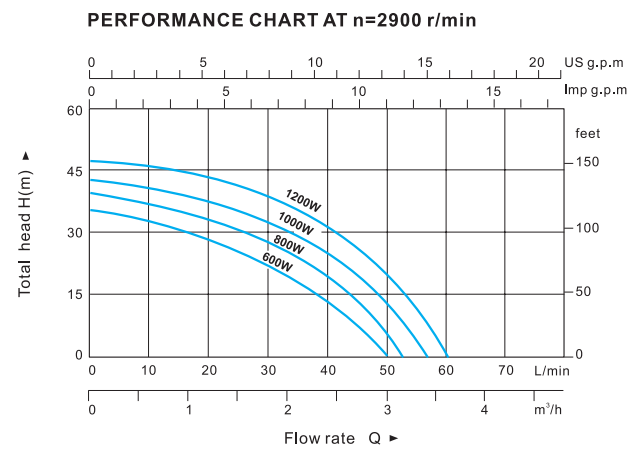


CJP-XX2P



CJP-XX3P

MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	INLET/OUTLET	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CJP-60X(0, 1, 2, 3)P	600	50	35	1"×1"	H07RN-F3G1.0mm <sup>2</sup>	6.3	370×230×260	1440
CJP-80X(0, 1, 2, 3)P	800	53	40			6.9	370×230×260	1440
CJP-100X(0, 1, 3)P	1000	57	44			7.5	370×230×260	1440
CJP-120X(0, 1, 3)P	1200	60	47			7.8	370×230×260	1440



CJP-XX0S



CJP-XX1S



CJP-XX4S

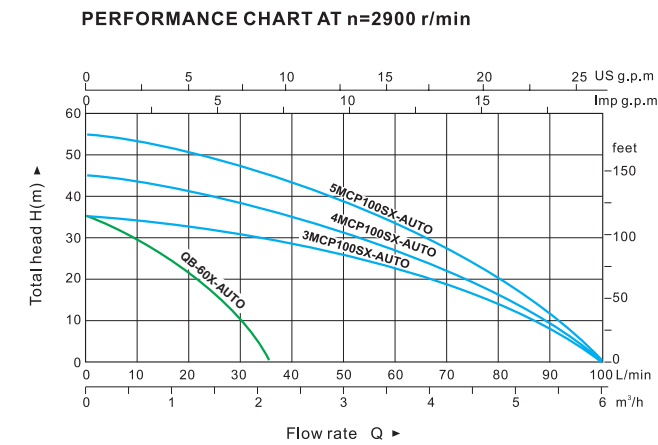


CJP-XX5S

MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	INLET/OUTLET	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CJP-60X(0, 1, 4, 5)S	600	50	35	1"×1"	H07RN-F3G1.0mm <sup>2</sup>	6.3	370×230×260	1440
CJP-80X(0, 1, 4, 5)S	800	53	40			6.9	370×230×260	1440
CJP-100X(0, 1, )S	1000	57	44			7.5	370×230×260	1440
CJP-120X(0, 1, )S	1200	60	47			7.8	370×230×260	1440

### Features:

- Impeller: Plastic (MCP Model)  
Brass (QB Model)
- Motor Shaft: Carbon Steel ( or Stainless Steel)
- Mechanical Seal: Ceramic / Graphite
- Connector: Brass ( or Plastic)



Optional

3MCP100SX-AUTO  
4MCP100SX-AUTO  
5MCP100SX-AUTO



Optional



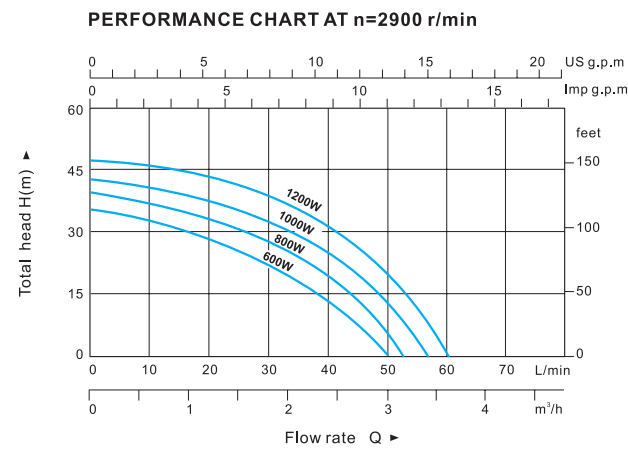
QB-60X-AUTO

MODEL	POWER P2(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	MAX.SUCT (m)	INLET/OUTLET	CABLE	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
3MCP100SX-AUTO	600	100	35	8	1"×1"	H07RN-F3G1.0mm <sup>2</sup>	13.3	410×240×410	700
4MCP100SX-AUTO	750	100	45	8			14.8	410×240×410	700
5MCP100SX-AUTO	900	100	55	8			16.3	410×240×410	700
QB-60X-AUTO	370	35	35	8			6.8	520×190×190	1500



### Features:

- With 19L tank
- With stainless steel flexible hose



AUGP600PL  
AUGP800PL  
AUGP1000PL  
AUGP1200PL

AUGP601PL  
AUGP801PL  
AUGP1001PL  
AUGP1201PL

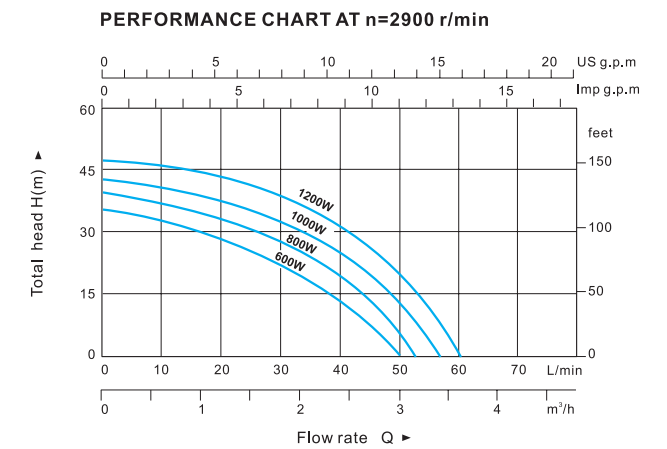
AUGP602PL  
AUGP802PL  
AUGP1002PL  
AUGP1202PL

AUGP603PL  
AUGP803PL  
AUGP1003PL  
AUGP1203PL

MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	INLET/ OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
AUGP600PL / AUGP601PL	600	50	35	1"x1"	12.8	460x280x550	400
AUGP602PL / AUGP603PL					13.6		
AUGP800PL / AUGP801PL	800	53	40	1"x1"	13	460x280x550	400
AUGP802PL / AUGP803PL					13.9		
AUGP1000PL / AUGP1001PL	1000	57	44	1"x1"	13.4	460x280x550	400
AUGP1002PL / AUGP1003PL					14.2		
AUGP1200PL / AUGP1201PL	1200	60	47	1"x1"	13.6	460x280x550	400
AUGP1202PL / AUGP1203PL					14.5		

### Features:

- With 19L tank
- With stainless steel flexible hose



AUGP600SL  
AUGP800SL  
AUGP1000SL  
AUGP1200SL

AUGP601SL  
AUGP801SL  
AUGP1001SL  
AUGP1201SL

AUGP602SL  
AUGP802SL  
AUGP1002SL  
AUGP1202SL

AUGP603SL  
AUGP803SL  
AUGP1003SL  
AUGP1203SL

MODEL	POWER P1(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	INLET/ OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
AUGP600SL / AUGP601SL	600	50	35	1"x1"	12.8	460x280x550	400
AUGP602SL / AUGP603SL					13.7		
AUGP800SL / AUGP801SL	800	53	40	1"x1"	13.1	460x280x550	400
AUGP802SL / AUGP803SL					14		
AUGP1000SL / AUGP1001SL	1000	57	44	1"x1"	13.4	460x280x550	400
AUGP1002SL / AUGP1003SL					14.3		
AUGP1200SL / AUGP1201SL	1200	60	47	1"x1"	13.7	460x280x550	400
AUGP1202SL / AUGP1203SL					14.6		

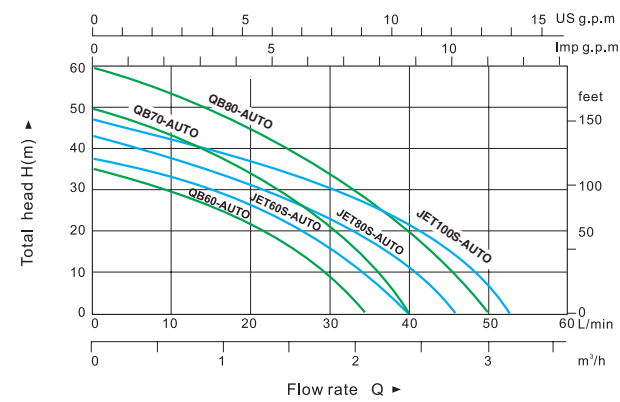
# QB/JET

## Automatic Working Pressure System

### Features:

- Impeller: Brass / Plastic / S.S (JET Model)  
Brass (QB Model)
- Motor Shaft: Carbon Steel
- Mechanical Seal: Ceramic / Graphite
- JET model with 19L tank  
QB model with 8L tank
- With stainless steel flexible hose

PERFORMANCE CHART AT n=2900 r/min



QBXX-AUTO



JETXXS-AUTO

MODEL	POWER P2(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	INLET/OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
QB60-AUTO	370	35	35	1"x1"	24	460x280x520	420
QB70-AUTO	550	40	50	1"x1"	38	460x280x520	420
QB80-AUTO	750	50	60	1"x1"	40	460x280x520	420
JET60S-AUTO	370	40	38	1"x1"	18	525x280x540	350
JET80S-AUTO	550	46	42	1"x1"	20	525x280x540	350
JET100S-AUTO	750	52	48	1"x1"	21	525x280x540	350

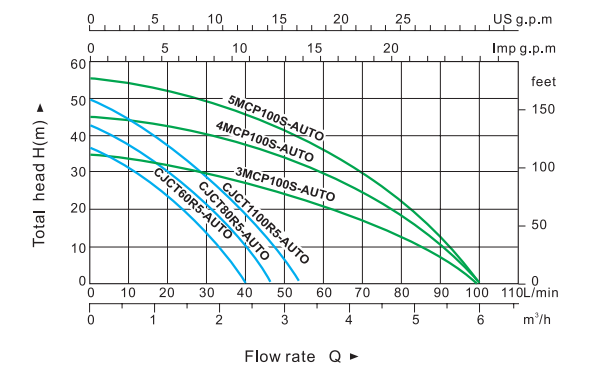
# CJCT/MCP

## Automatic Working Pressure System

### Features:

- Impeller: Brass / Plastic / S.S (CJCT Model)  
Plastic (MCP Model)
- Motor Shaft: Carbon Steel (or Stainless Steel)
- Mechanical Seal: Ceramic / Graphite
- Connector: Brass (or Plastic)
- With 19L tank
- With stainless steel flexible hose

PERFORMANCE CHART AT n=2900 r/min



CJCT60RS-AUTO  
CJCT80RS-AUTO  
CJCT100RS-AUTO



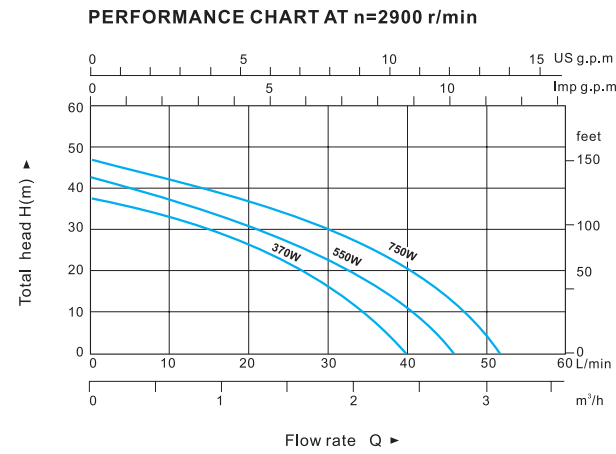
3MCP100S-AUTO  
4MCP100S-AUTO  
5MCP100S-AUTO

MODEL	POWER P2(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	INLET/OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CJCT60RS-AUTO	370	40	38	1"x1"	9.2	525x280x540	350
CJCT80RS-AUTO	550	46	42	1"x1"	13.5	525x280x540	350
CJCT100RS-AUTO	750	52	48	1"x1"	14.5	525x280x540	350
3MCP100S-AUTO	370	100	35	1"x1"	17.5	530x280x600	310
4MCP100S-AUTO	550	100	45	1"x1"	19	530x280x600	310
5MCP100S-AUTO	750	100	55	1"x1"	20.5	530x280x600	310



### Features:

- Impeller: Brass
- Motor Shaft: Carbon Steel
- Mechanical Seal: Ceramic / Graphite
- With 19L tank
- With stainless steel flexible hose



MODEL	POWER P2(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	INLET/OUTLET	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
JET60LB -AUTO	370	40	38	1"x1"	17	525x280x540	350
JET80LB -AUTO	550	46	42	1"x1"	20.3	525x280x540	350
JET100LB -AUTO	750	52	48	1"x1"	21.3	525x280x540	350

# Pumps For Swimming Pool, SPA, Pond





## Filter Pumps for Swimming Pool

### Diagram



NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	Plug	13	Impeller	25	Screw
2	"O" ring	14	Snap ring	26	Capacitor
3	Pump Body	15	Mechanical Seal	27	Cable Guard
4	Brass Pin	16	"O" ring	28	Bearing
5	Filter	17	Front cover	29	Spring Ring
6	Plastic cover "O" ring	18	Support	30	End cover
7	Plastic cover	19	Screw	31	Screw
8	Bolt	20	Bearing	32	Washer
9	"O" ring	21	Rotor	33	Screw
10	Diffuser	22	Stator	34	Fan
11	Screw	23	Terminal block	35	Fan cover
12	Washer	24	Terminal cover		

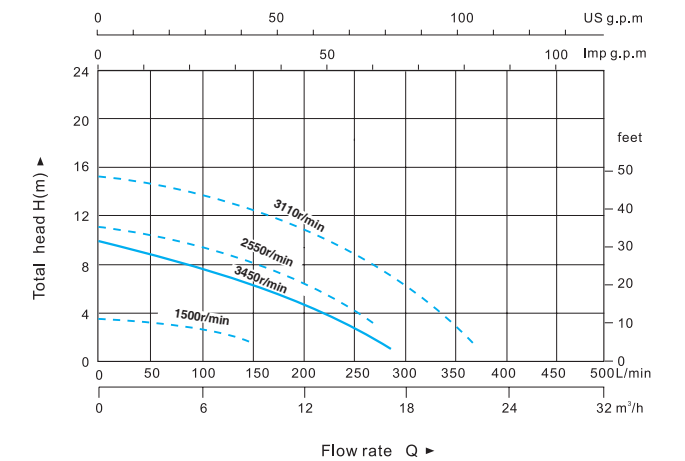
## CSPA-I High efficiency intelligent Swimming Pool Pump

Energy efficiency, extended service life. Due to highly innovative motor technology, the self-priming circulation pump is revolutionizing energy consumption, operating costs, water quality and lower CO<sub>2</sub> emissions in swimming pools. All these advantages are through by two key innovations. First, use an exclusive permanent magnet motor, a fundamental more energy efficient design compared to traditional induction motors. Another includes a variable speed capability, along with digital controls and proprietary software that allows custom programming of optimum pump speeds for specific needs.

### Features:

- Suitable for various pool sizes
- Innovative diffuser and high-efficient impeller maximize water flow and energy efficiency while minimizing noise and operating costs.
- All components molded of corrosion-proof reinforced thermoplastic for extra durability and long life.
- See-through lid makes inspection fast and easy-engineered polymer remains clear and strong. Besides lid is easy to remove and quickly locked in place with a quarter-turn
- Programmable speeds
  - Schedule
  - Duration
  - Manual
  - Four speed modes
- LCD display
- Massive strainer basket for ease of maintenance
- American design mechanical seal using carbon to ceramic sealing surfaces
- Stainless steel shaft
- Fully factory tested
- Easier maintenance
- Self-priming

PERFORMANCE CHART AT DIFFRENT SPEED



MODEL	POWER(P2) (KW)	INLET/ OUTLET	MAX.FLOW (m³/h)	MAX.HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSPA-1100I	1.1	1½"×1½"	17	10	1.5	12	600×310×340	450



### Operating Limits:

- Max. fluid temperature from +5°C-50°C
- Max. ambient temperature up to 50°C
- Max. working pressure: 2.5Bar

### Motor:

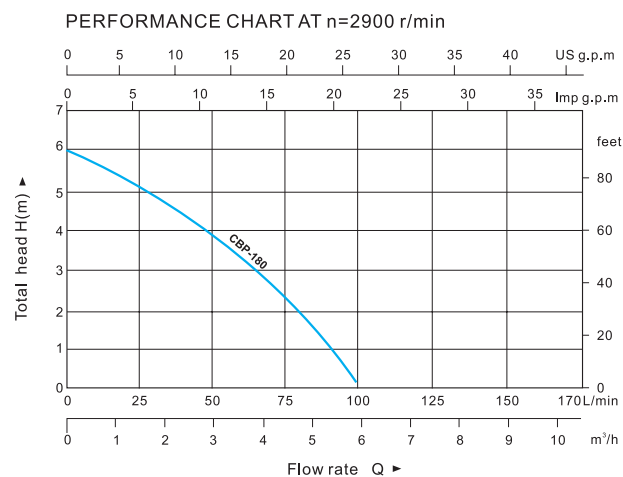
- 2-pole induction motor
- Built-in thermal protection
- Insulation class B
- Protection IPX5
- Continuous duty

### Material:

- Pump body, seal mounting, pump foot and diffuser in lassfiber and polypropylene mixed
- Impeller in glassfiber and nylon mixed
- Mechanical seal in graphite and ceramic
- Motor housing in aluminium

### Application:

- CBP-180: Recycling of water from small tranportable pools



CBP-180

MODEL	POWER(P2)		INLET/OUTLET	MAX.FLOW (m³/h)	MAX.HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CBP-180	0.18	0.25	1"x1"	6	6	1.5	4	340x160x230	2400

### Operating Limits:

- Max. fluid temperature from +5°C-50°C
- Max. ambient temperature up to 50°C
- Max. working pressure: 3.0Bar

### Motor:

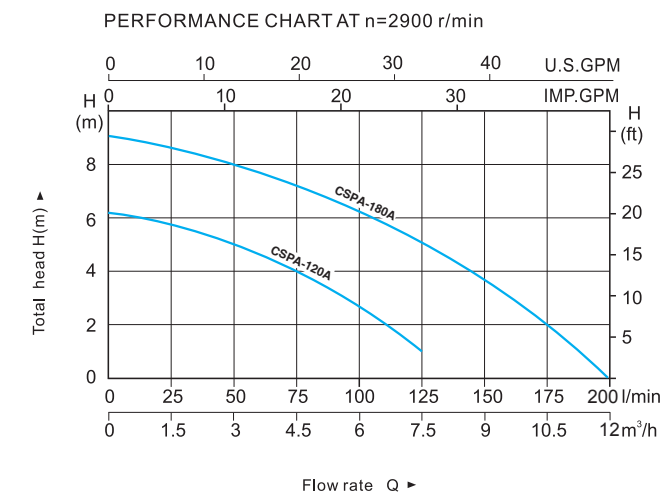
- 2-pole induction motor
- Built-in thermal protection
- Insulation class F
- Protection IPX5
- Continuous duty

### Material:

- Pump body and diffuser in glassfiber and polypropylene mixed
- Impeller in glassfiber and nylon mixed
- Shaft in stainless steel
- Mechanical seal in graphite and ceramic
- Motor housing in aluminium

### Application:

- Recycling and filter ling of water from medium and great swimming pools



CSPA-120A

MODEL	POWER(P2)		INLET/OUTLET	MAX.FLOW (m³/h)	MAX.HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CSPA-120A	0.12	0.2	1½"x1½"	7.5	6	1.5	5.5	465x200x265	1176
CSPA-180A	0.18	0.25	1½"x1½"	12	9	1.5	6	465x200x265	1176

# CSPA-B Swimming Pool Pump

## Operating Limits:

- Max. fluid temperature from +5°C-50°C
- Max. ambient temperature up to 50°C
- Max. working pressure: 3.0Bar

## Motor:

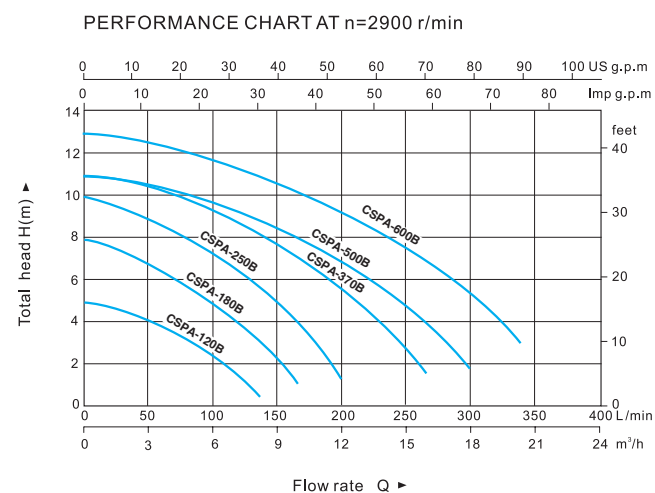
- 2-pole induction motor
- Built-in thermal protection
- Insulation class F
- Protection IPX5
- Continuous duty

## Material:

- Pump body and diffuser in glassfiber and polypropylene mixed
- Impeller in glassfiber and nylon mixed
- Mechanical seal in graphite and ceramic
- Motor housing in aluminium

## Application:

- Recycling and filter ling of water from medium and great swimming pools



CSPA-370B

MODEL	POWER(P2)		INLET/OUTLET	MAX.FLOW (m³/h)	MAX.HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CSPA-120B	0.12	0.2	1½"×1½"	8	5	1.5	5	210×500×290	920
CSPA-180B	0.18	0.25	1½"×1½"	10	8	1.5	5.5	210×500×290	920
CSPA-250B	0.25	0.33	1½"×1½"	12	10	1.5	6	210×500×290	920
CSPA-370B	0.37	0.5	1½"×1½"	16	11	1.5	7.5	210×520×290	880
CSPA-500B	0.5	0.65	1½"×1½"	18	11	1.5	8.5	210×520×290	880
CSPA-600B	0.6	0.8	1½"×1½"	20	13	1.5	9.5	210×520×290	880

# CSPA-C Swimming Pool Pump

## Operating Limits:

- Max. fluid temperature from +5°C-50°C
- Max. ambient temperature up to 50°C
- Max. working pressure: 3.0Bar
- Self-priming: 1.5m

## Motor:

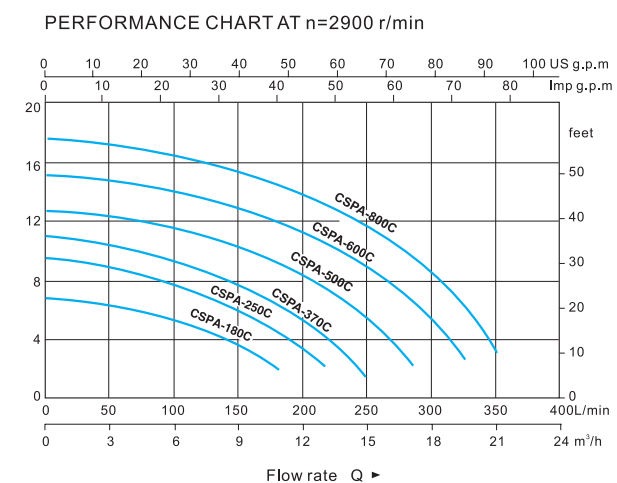
- 2-pole induction motor
- Built-in thermal protection
- Insulation class F
- Protection IPX5
- Continuous duty

## Material:

- Pump body and diffuser in glassfiber and polypropylene mixed
- Impeller in glassfiber and nylon mixed
- Mechanical seal in graphite and ceramic
- Motor housing in aluminium

## Application:

- Recycling and filter ling of water from medium and great swimming pools

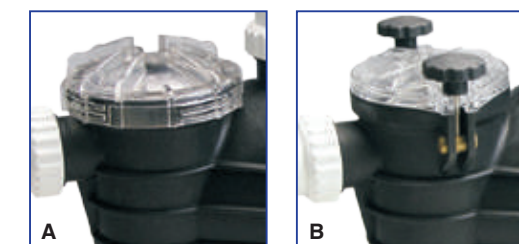


## Max Suction: 1.5m



CSPA-600C

### Optional



MODEL	POWER(P2)		INLET/OUTLET	MAX.FLOW (m³/h)	MAX.HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CSPA-180C	0.18	0.25	1½"×1½"	11.5	7.5	1.5	8	535×255×325	650
CSPA-250C	0.25	0.35	1½"×1½"	13	9	1.5	9	535×255×325	650
CSPA-370C	0.37	0.50	1½"×1½"	15	11	1.5	10	535×255×325	650
CSPA-500C	0.50	0.65	1½"×1½"	17	12.5	1.5	11	535×255×325	650
CSPA-600C	0.60	0.80	1½"×1½"	19	15	1.5	12	535×255×325	650
CSPA-800C	0.80	1.10	1½"×1½"	21	16.5	1.5	13	535×255×325	650



# CSPA-D Swimming Pool Pump

## Operating Limits:

- Max. fluid temperature from +5°C~50°C
- Max. ambient temperature up to 50°C
- Max. working pressure: 3.0Bar

## Motor:

- 2-pole induction motor
- Built-in thermal protection
- Insulation class B
- Protection IPX5
- Continuous duty

## Material:

- Pump body, pump foot and diffuser in glassfiber and polypropylene mixed
- Impeller in glassfiber and nylon mixed
- Mechanical seal in graphite and ceramic
- Motor housing in aluminium

## Application:

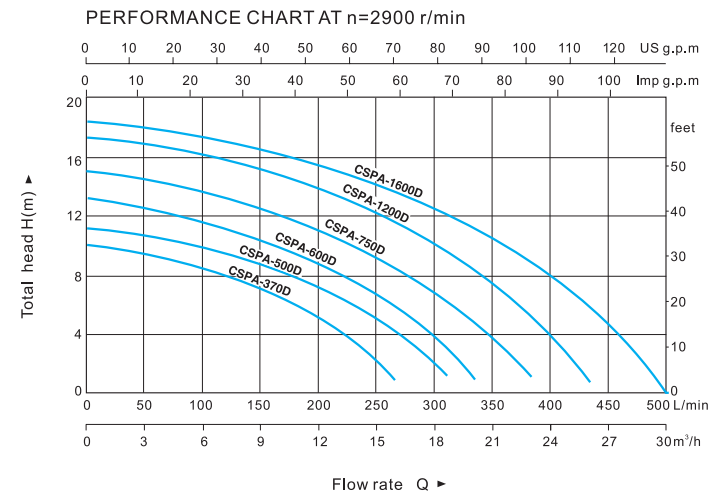
- Recycling and filter ling of water from medium and great swimming pools

Max Suction: 1.5m



CSPA-750D

MODEL	POWER(P2)		INLET/OUTLET	MAX.FLOW (m³/h)	MAX.HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CSPA-370D	0.37	0.5	2"x2"	16	10	1.5	9.5	580x225x295	700
CSPA-500D	0.5	0.65	2"x2"	19	11	1.5	11	580x225x295	700
CSPA-600D	0.60	0.80	2"x2"	19	13	1.5	12.5	580x225x295	700
CSPA-750D	0.75	1.00	2"x2"	23	15	1.5	14	580x225x295	700
CSPA-1200D	1.20	1.60	2"x2"	26	17	1.5	16	620x225x295	680
CSPA-1600D	1.60	2.1	2"x2"	30	18	1.5	18	620x225x295	660



# CSPA-E Swimming Pool Pump

## Operating Limits:

- Max. fluid temperature from +5°C~50°C
- Max. ambient temperature up to 50°C
- Max. working pressure: 3.0Bar
- Self-priming: 2.5m

## Motor:

- 2-pole induction motor
- Built-in thermal protection
- Insulation class F
- Protection IPX5
- Continuous duty

## Material:

- Pump body and diffuser in glassfiber and polypropylene mixed
- Impeller in glassfiber and nylon mixed
- Mechanical seal in graphite and ceramic
- Motor housing in aluminium

## Application:

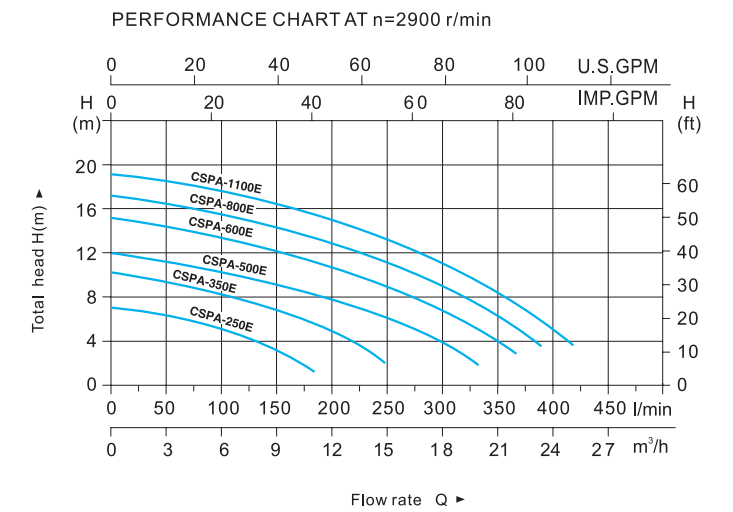
- Recycling and filter ling of water from medium and great swimming pools

Max Suction: 2.5m



CSPA-600E

MODEL	POWER(P2)		INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
CSPA-250E	0.25	0.35	2¼"x2¼"	185	7	1.5	7	560x275x390	480
CSPA-350E	0.35	0.5	2¼"x2¼"	250	10	1.5	8	560x275x390	480
CSPA-500E	0.5	0.65	2¼"x2¼"	335	12	1.5	9	560x275x390	480
CSPA-600E	0.6	0.8	2¼"x2¼"	370	15	1.5	10	560x275x390	480
CSPA-800E	0.8	1.1	2¼"x2¼"	385	17	1.5	11	560x275x390	480
CSPA-1100E	1.1	1.2	2¼"x2¼"	420	19	1.5	12	560x275x390	480



# SUPB

## Swimming Spa Pump

### Operating Limits:

- Max. fluid temperature from +5°C-60°C
- Max. ambient temperature up to 50°C
- Max. working pressure: 2.5Bar
- Self-priming: 1.5m

### Motor:

- 2-pole induction motor
- Built-in thermal protection
- Insulation class F
- Protection IPX5
- Aircool motor are moisture proof and low temperature
- Continuous duty

### Application:

- Jet pump for jetted bath tubs, spa pools, swimming pools, massage stations, cleaning system

### Features:

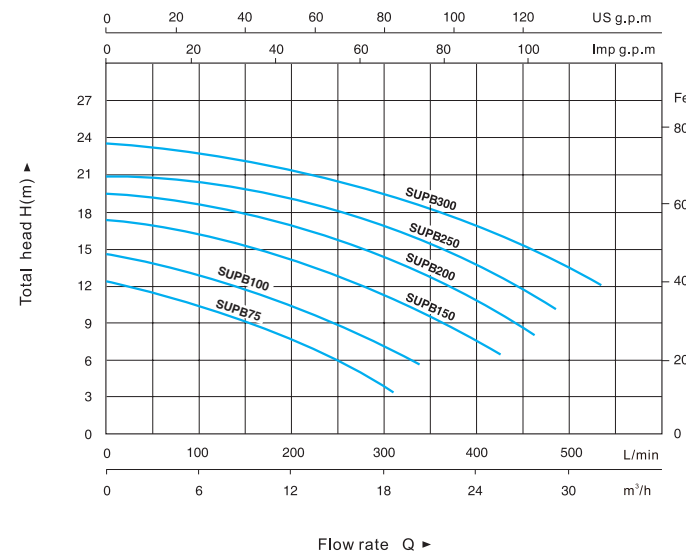
- High performance and super pressure
- 2" inlet and outlet for highering performance and lowering noise
- Capacitor running type for energy-saving, the best choice for low noise
- Thermal overload protector inside ensures the motor safety and prolongthe motor's service life
- Two speed s motor available for energy-saving

Max Suction: 1.5m



SUPB150

PERFORMANCE CHART AT n=2900 r/min



# CSPA S1

## Swimming Pool Pump

### Operating Limits:

- Medium temperature: 5-50°C
- Environmental temperature: ≤50°C
- Max.working pressure: 0.3Mpa

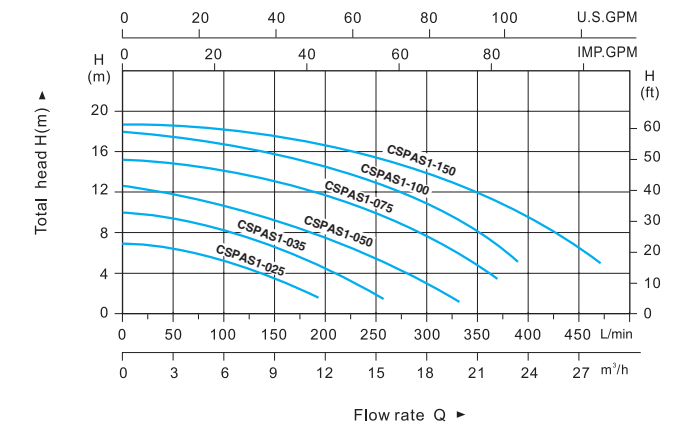
### Features:

- Easy to operation and use
- Low temperature raise, low noise
- Small size, long life

### Application:

- Cyling and filtering ling of water from medium and large swimming pools

PERFORMANCE CHART AT DIFFERENT SPEED



MODEL	POWER(P2)		MAX.FLOW (L/min)	MAX.HEAD (m)	FITTING SIZE (mm)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP							
SUPB75	0.4	0.5	310	12.5	60.3 or 63	1.5	12.5	635×235×380	440
SUPB100	0.5	0.7	340	14.5	60.3 or 63	1.5	13.5	635×235×380	440
SUPB150	0.8	1.1	420	17	60.3 or 63	1.5	15.5	635×235×380	440
SUPB200	1	1.3	465	19.5	60.3 or 63	1.5	17.5	635×235×380	440
SUPB250	1.3	1.7	480	21	60.3 or 63	1.5	18.5	635×235×380	440
SUPB300	1.5	2	540	23	60.3 or 63	1.5	20	640×235×380	437

MODEL	POWER P1(KW)	Amps	MAX. FLOW (L/min)	MAX. HEAD (m)	INLET/ OUTLET	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSPA S1-035	0.55	2.7	255	10	2¼"×2¼"	1.5	10.7	550×275×390	491
CSPA S1-050	0.75	3.8	340	12.5	2¼"×2¼"	1.5	11.3	550×275×390	491
CSPA S1-075	0.9	4.6	370	15	2¼"×2¼"	1.5	12.5	550×275×390	491
CSPA S1-100	1.1	5.8	390	17.5	2¼"×2¼"	1.5	13	550×275×390	491
CSPA S1-150	1.5	7.0	470	18.5	2¼"×2¼"	1.5	13.8	550×275×390	491



# CSPA 2

## Swimming Pool Pump

### Operating Limits:

- Medium temperature: 5~50°C
- Environmental temperature: ≤50°C
- Max.working pressure: 0.3Mpa

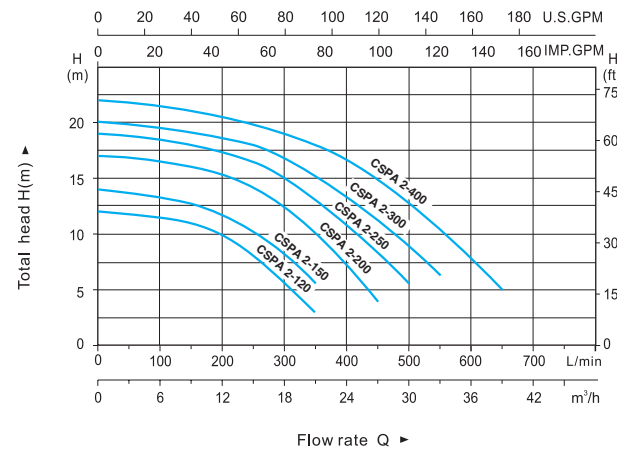
### Features:

- Easy to operation and use
- Low temperature raise, low noise
- Small size, long life

### Application:

- Cycling and filtering ling of water from medium and large swimming pools

PERFORMANCE CHART AT DIFFRENT SPEED



CSPA 2

MODEL	POWER P1(KW)	Amps	MAX. FLOW (L/min)	MAX. HEAD (m)	INLET/ OUTLET	CABLE (m)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSPA 2-120	0.9	4.6	350	12	2 3/4" x 2 3/4"	1.5	640x290x385	405
CSPA 2-150	1.1	5.2	350	14	2 3/4" x 2 3/4"	1.5	640x290x385	405
CSPA 2-200	1.5	7.0	450	17	2 3/4" x 2 3/4"	1.5	640x290x385	405
CSPA 2-250	1.85	8.6	500	19	2 3/4" x 2 3/4"	1.5	640x290x385	405
CSPA 2-300	2.2	10	550	20	2 3/4" x 2 3/4"	1.5	640x290x385	405
CSPA 2-400	3.0	14	650	22	2 3/4" x 2 3/4"	1.5	665x290x385	390

# CSPA S3

## Swimming Pool Pump

### Operating Limits:

- Medium temperature: 5~50°C
- Environmental temperature: ≤50°C
- Max.working pressure: 0.3Mpa

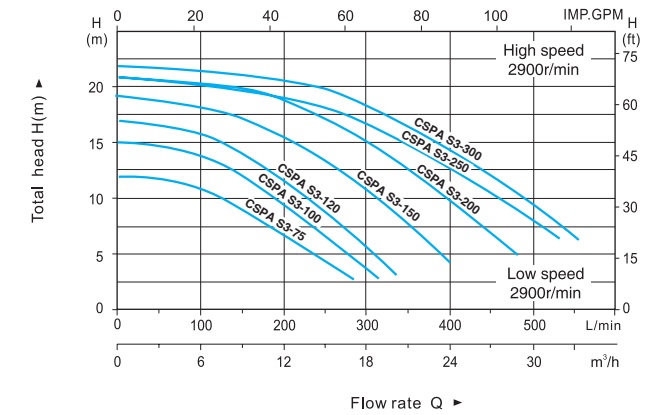
### Features:

- Easy to operation and use
- Low temperature raise, low noise
- Small size, long life

### Application:

- Cycling and filtering ling of water from medium and large swimming pools

PERFORMANCE CHART AT DIFFRENT SPEED



MODEL	POWER P1(KW)	Amps	MAX. FLOW (L/min)	MAX. HEAD (m)	INLET/ OUTLET	CABLE (m)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSPA S3-075	0.55	3.2	285	12	2" x 2"	1.5	635x310x370	398
CSPA S3-100	0.75	3.8	315	15	2" x 2"	1.5	635x310x370	398
CSPA S3-120	0.9	4.6	335	17	2" x 2"	1.5	635x310x370	398
CSPA S3-150	1.1	5.4	400	19	2" x 2"	1.5	635x310x370	398
CSPA S3-200	1.5	7.0	460	21	2" x 2"	1.5	635x310x370	398
CSPA S3-250	1.85	8.6	530	21	2" x 2"	1.5	635x310x370	398
CSPA S3-300	2.2	10	550	22	2" x 2"	1.5	635x310x370	398
CSPA S3-150-II	0.3/1.1	2.2/5.4	400	19	2" x 2"	1.5	655x310x370	386
CSPA S3-200-II	0.35/1.5	2.0/7.0	480	21	2" x 2"	1.5	655x310x370	386
CSPA S3-250-II	0.4/1.85	2.5/8.6	530	21	2" x 2"	1.5	655x310x370	386
CSPA S3-300-II	0.45/2.2	3.0/10	550	22	2" x 2"	1.5	655x310x370	386

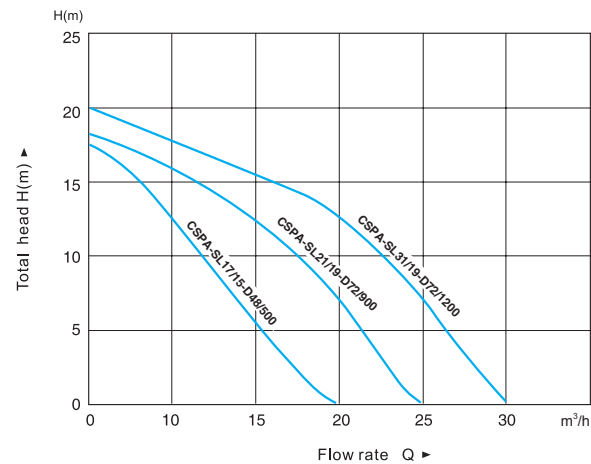
### Material:

- Inlet/Outlet: Plastic
- Pump Body: Plastic
- Impeller: Plastic
- Motor Body: Die-cast Aluminum
- Motor: Permanent Magnet Brushless DC Motor (Without Hall)
- Controller: 32bit MCU/FOC/Sine Wave Current/MPPT
- Controller Shell: Die-cast Aluminum(IP67)

### Application:

- Cyling and filtering ling of water from medium and large swimming pools

PERFORMANCE CHART AT DIFFRENT SPEED



CSPA-SL17/15-D48/500



CSPA-SL21/19-D72/900



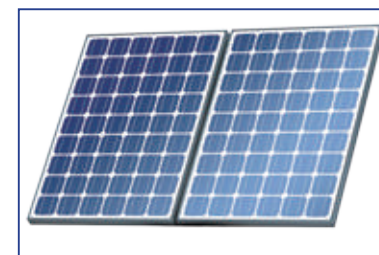
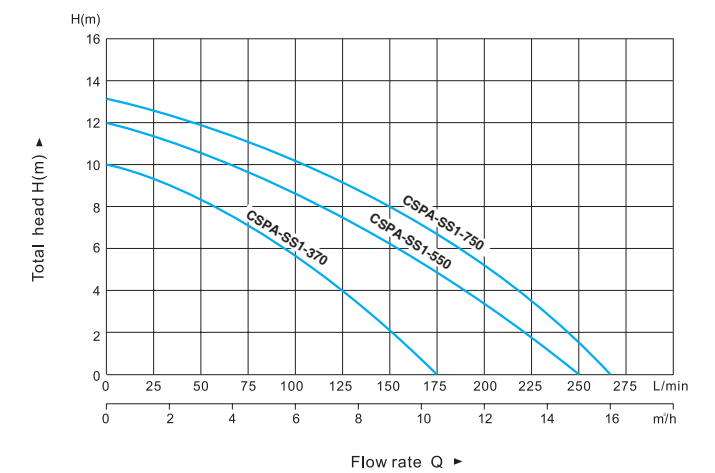
CSPA-SL31/19-D72/1200

MODEL	POWER P2(W)	VOLTAGE (Vdc)	VOLTAGE RATE(Vdc)	MAX.FLOW (m³/h)	MAX.HEAD (m)	MAX. SUCT (m)	INLET/ OUTLET
CSPA-SL17/15-D48/500	500	48	36-80	17	15	5	48"x50"
CSPA-SL21/19-D72/900	900	72	46-100	21	19	5	48"x50"
CSPA-SL31/19-D72/1200	1200	72	46-100	31	19	6	60"x63"

### Features:

- Controller with intelligent modular design.
- The device can change the output voltage depend on the sunlight intensity, realize maximum power point tracking.
- LED light will show high water level or low water level, and have over-voltage and over-load protection.
- Brushless permanent magnet synchronous motor, stable operation, high efficiency, low noise and long service life.

PERFORMANCE CHART AT DIFFRENT SPEED



MODEL	POWER P1(W)	VOLTAGE	MAX. FLOW (m³/h)	MAX. HEAD (m)	MAX. OPERATING CURRENT (A)
CSPA-SS1-370	370	24V DC	10	10	14.5A
CSPA-SS1-550	550	60V DC	15	12	9A
CSPA-SS1-750	750	72V DC	16	13	11.5A



**Application:**

■ Top-mount sand filter systems are equipped to offer the ideal combination of high water clarity and energy efficiency. A broad selection of filter sizes, pumps and accessories allows you to choose the filter systems that the most suitable to your above-ground pools.

**System Features:**

- Systems are designed for quick assembly and precise alignment of components
- Pumps and filters are performance-matched to provide maximum flow and energy efficiency
- Filter bases interconnect with fiberglass stand for long lasting, all-weather performance
- 6-position multiport valve
- Combination water and sand drain makes servicing and winterizing fast and easy
- All models are one carton systems
- Maximum working pressure: 200kPa / 28psi / 2.0bar
- Factory testing pressure: 300kPa / 44psi / 3.0bar
- Maximum water temperature: 40°C
- Size of silica sand: 0.5-0.8mm



**All of our swimming pool pumps can be equipped to this system**



FS180-10      FS180-12A / FS250-12A      FS180-12B / FS250-12B      FS180-14A / FS250-14A



FS180-14B / FS250-14B      FS370-16 / FS550-19      FS250-18      FS550-18

MODEL	POWER(P2) (W)	SAND FILTER		FLOW RATE (m <sup>3</sup> /h)	PUMP MAX.FLOW (m <sup>3</sup> /h)	PIPE SIZE (inch)	H (mm)	L (mm)	NET WEIGHT (kg)	SAND FILTER (kg)
		MODEL	DIA.(mm/inch)							
FS180-10	180	S250P	257/10"	4.5	8	1¼"	630	373	8.1	13.6
FS180-12A	180	S300P	304/12"	4.5	8	1¼"	621	458	7.7	19
FS250-12A	250	S300P	304/12"	6	10	1¼"	621	458	9.2	19
FS180-12B	180	S300P	304/12"	5	9	1¼"	621	458	8.6	19
FS250-12B	250	S300P	304/12"	7	12	1¼"	655	502	8.7	27
FS180-14A	180	S350P	350/14"	5	8	1¼"	655	502	9.5	27
FS250-14A	250	S350P	350/14"	7	10	1¼"	655	502	9.6	27
FS180-14B	180	S350P	350/14"	6	9	1¼"	655	502	12	27
FS250-14B	250	S350P	350/14"	8	12	1½"	655	742	18.6	45
FS370-16	370	S400P	400/16"	9	15	1½"	848	742	22.7	75
FS550-19	550	S500P	482/19"	10	16	1½"	930	742	14.3	50
FS250-18	250	S450P	460/18"	9	12	1½"	865	752	14.8	50
FS550-18	550	S450P	460/18"	9	15	1½"	865	752	23.1	50

# SVP

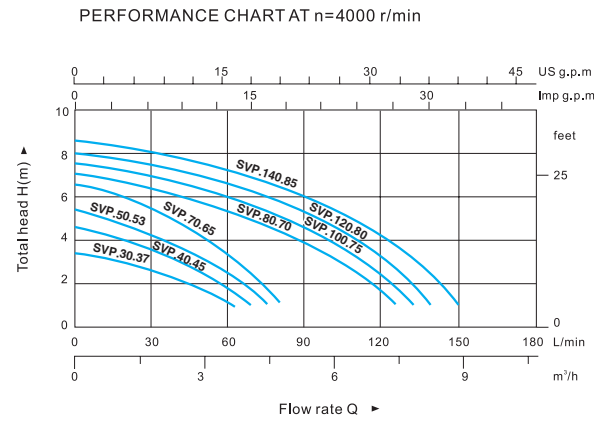
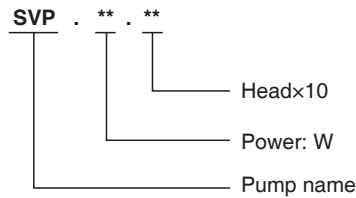
## Self-Frequency Variation Pump

### Material:

- Pump body: Plastic
- Impeller: Plastic
- Motor shaft: Ceramic
- Motor housing: Plastic

### Features:

- Apply for small swimming pool, aquariums and bathing pool.
- Water proof standard IPx8, can be used under the water.
- Full plastic, safe and reliable, easy to use.
- Super silence.
- Electronic frequency conversion technology, energy saving up to 60% than before.
- High-strength ceramic shaft and wear, long service life.
- No copper element, cultivate salt-water organisms safely.



MODEL	POWER P2(W)	VOLTAGE FREQUENCY (V/Hz)	MAX. FLOW (m³/h)	MAX. HEAD (m)	OUTLET (mm)	CABLE LENGTH (mm)	G.W (kg)	PACKING DIMENSION/UNIT (mm)
SVP.30.37	30	220-240/50	3.5	3.7	20/25/32	5	2.8	415x152x228
SVP.40.45	40		4.0	4.5	20/25/32		2.8	415x152x228
SVP.50.53	50		4.5	5.3	20/25/32		2.8	415x152x228
SVP.70.65	70		5.0	6.5	20/25/32		2.8	415x152x228
SVP.80.70	80		7.5	7.0	25/32/38/50		3.3	420x152x248
SVP.100.75	100		8.0	7.5	25/32/38/50		3.3	420x152x248
SVP.120.80	120		8.5	8.0	25/32/38/50		3.3	420x152x248
SVP.140.85	140		9.0	8.5	25/32/38/50		3.3	420x152x248

# FCP-C

## Quiet-running Counterflow System Pump

### Operating Limits:

- Max. fluid temperature from +5°C~50°C
- Max. ambient temperature up to 50°C
- Max. working pressure: 3.0Bar

### Motor:

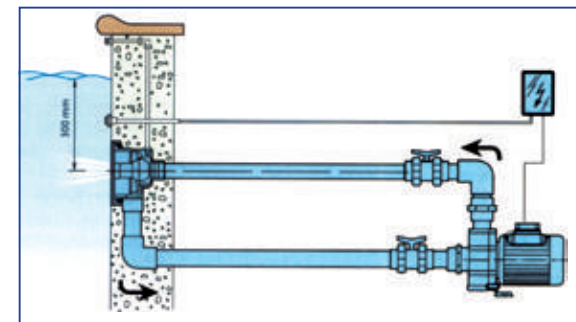
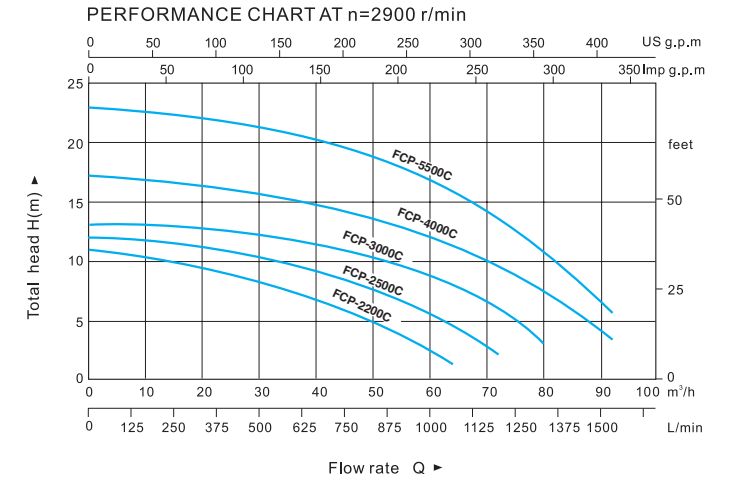
- 2-pole induction motor
- Built-in thermal protection
- Insulation class F
- Protection IPX5
- Continuous duty

### Material:

- Pump body, suction and discharge mountings in glass loaded polypropilen
- Impeller in glass loaded Noryl
- Mechanical seal in graphite and ceramic
- Motor housing in aluminium

### Application:

- Adjustable counterflow for swimming training



FCP-3000C

MODEL	POWER(P1)		FITTING SIZE(mm)			MAX.FLOW (m³/h)	MAX.HEAD (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
	KW	HP	2.5"	3"	4"						
FCP-2200C	2.2	3	73 75 76	88.9 90	110	65	11	1.5	23	445x310x360	560
FCP-2500C	2.5	3.5				72	12	1.5	24	445x310x360	560
FCP-3000C	3	4				80	13	1.5	25	445x310x360	560
FCP-4000C	4	5.5				96	17	1.5	26	475x310x360	520
FCP-5500C	5.5	7.5				96	23	1.5	28	510x315x400	435



# Swimming Pool Accessories

**S/ST**

**Plastic Blow Sand Filters**

**Feature:**

- S/ST plastic sand filters are manufactured for high resistance and high quality of water filtration.
- It is economic, high performance filters for private, fish pool, Jacuzzi and public pools, equipped.
- Maximum working pressure: 200kPa / 28psi / 2.0bar
- Factory testing pressure: 300kPa / 44psi / 3.0bar
- Maximum water temperature: 40°C
- Size of silica sand: 0.5-0.8mm

**7 Functions:**

- **0-Winter** For releasing the air to protect the after work pump from freezing
- **1-Filter** For normal filtration, and vacuuming pool through filter
- **2-Backwash** For reversing flow for cleaning filter
- **3-Rinse** For initial start-up cleaning, plus re-setting filter bed after backwashing
- **4-Waste** For vacuuming directly to waste, lowering pool level / draining pool.
- **5-Recirculate** For by-passing filter, but circulating pool water.
- **6-Close** For shutting off all flow to filter and pool.

**Note: Please close the pump when changing the function.**

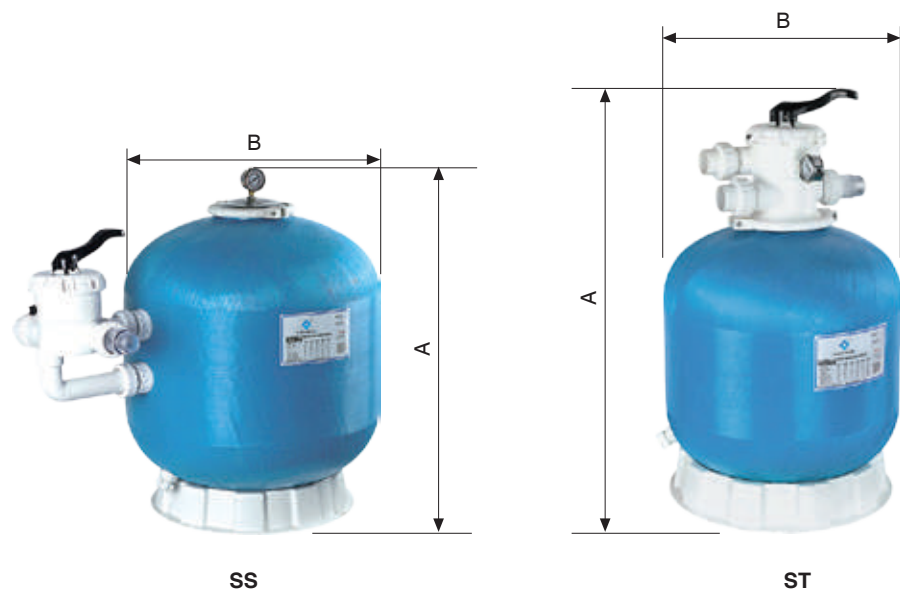


MODEL	TANK DIA. B(mm)	HEIGHT A(mm)	PIPE SIZE (inch)	FLOW (m³/h)	FILTER AREA (m²)	SILICA SAND (kg)
S400P	400	830	1.5"	6.0	0.126	9.5
S500P	500	960	1.5"	8.0	0.196	9.7
S600P	600	1100	1.5"	11.3	0.283	16.5
S300BP	300	600	1.25"	4.5	0.085	6.5
S450BP	450	830	1.5"	7.2	0.145	7.5
S550BP	550	960	1.5"	10.5	0.230	10.5
S650BP	650	1100	1.5"	13.2	0.310	14.5
ST400P	400	600	1.5"	6.0	0.126	8.4
ST500P	500	730	1.5"	8.0	0.196	11.2
ST600P	600	650	1.5"	11.3	0.283	17
ST450BP	450	600	1.5"	7.2	0.145	8.8
ST550BP	550	730	1.5"	10.5	0.23	11.8
ST650BP	650	870	1.5"	13.2	0.310	16



### Attentions:

- Turn off the water pump power before convert any function on the multi-valve, the temperature of the circulating water up to 50°C(122° F).
- Sand filter maximum working pressure: 2.5kg(250Kpa/36psi/2.5bar), the maximum pressure test is 4kg (400Kpa / 58psi / 4.0bar). Can be produced according to specify different color, different degree of pressure. The maximum operating temperature is: 50°C (122° F).
- The coarse silica sand specification is 0.5mm-0.8mm, fine sand specifications is: 1mm-2mm.



MODEL	TANK DIA. B(mm)	HEIGHT A(mm)	PIPE SIZE (inch)	FILTER AREA (m <sup>2</sup> )	FLOW (m <sup>3</sup> /h)	0.4-0.8mm SAND WEIGHT (kg)	TANK VOL. (m <sup>3</sup> )	TANK WEIGHT (kg)	VALVE VOL. (m <sup>3</sup> )	VALVE WEIGHT (kg)	POOL VOL. (m <sup>3</sup> )
SS500	500	710	1.5"	0.18	11	58	0.2	12.7	0.02	3	65-95
SS650	650	805	1.5"	0.22	17	145	0.32	16.9	0.02	3	95-130
SS700	700	825	1.5"	0.35	19	180	0.46	22.3	0.02	3	130-165
SS800	800	925	2"	0.5	24	275	0.68	28.8	0.03	5	165-200
SS900	900	1010	2"	0.64	30	390	0.92	35.4	0.03	5	200-240
SS1050	1000	1175	2"	0.88	38	615	1.48	53.3	0.03	5	240-265
SS1200	1200	1310	2"	1.13	42	920	2.42	59.8	0.03	5	300-360
ST400	400	680	1.5"	0.13	8	35	0.09	7.3	0.02	3	42-50
ST450	450	740	1.5"	0.16	10	50	0.15	8.8	0.02	3	50-65
ST500	500	815	1.5"	0.18	11	58	0.17	10.7	0.02	3	65-95
ST650	650	950	1.5"	0.32	17	145	0.32	17.7	0.02	3	95-130
ST700	700	970	1.5"	0.35	19	180	0.42	20	0.02	3	130-165
ST800	800	1130	2"	0.5	24	275	0.68	25.9	0.03	5	165-200
ST900	900	1215	2"	0.64	30	390	0.95	32.7	0.03	5	200-240
ST1050	1050	1380	2"	0.88	38	615	1.29	50.9	0.03	5	240-265
ST1200	1200	1515	2"	1.13	42	940	2.26	69.2	0.03	5	300-360





# Pond Products



**CPP**

**Multifunctional Submersible Pump**

## Features:

- The rotor is made of special material, easily started and low energy consumption
- High quality ceramic shaft and shaft locator, durable and low noise
- Completely sealed and water-proof motor, safe and reliable
- High performance standard synchronous motor with new design, and energy saving up 50% than before
- Water garden, circulate water in rockery, supply and discharge water in swimming pool
- Only for CPP-XXB pumps, after drawing water, it just leave 5mm depth, which makes drain completely

## Shielded Motor



**Special design for filter casing, prevent blockage and absorption**



CPP-XXF



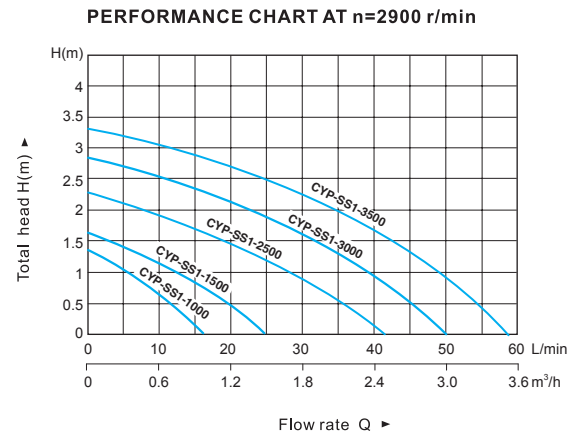
CPP-XXB

MODEL	POWER P2(W)	MAX.FLOW (L/min)	MAX.HEAD (m)	DIA OF PIPE	MAX.SUCT (m)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CPP100 (F)	100	75	6	3/4", 1"	8	-	2.8	180x180x260	3500
CPP150 (F)	150	92	7	3/4", 1"	8	-	3.1	180x180x260	3500
CPP101 (F)	100	108	4.5	3/4", 1"	8	-	2.8	180x180x260	3500
CPP151 (F)	150	125	5.5	3/4", 1"	8	-	3.1	180x180x260	3500
CPP180 (F)	180	133	7.5	3/4", 1"	8	-	3.4	180x180x260	3500
CPP220 (F)	220	150	8.5	3/4", 1"	8	-	3.5	180x180x260	3500
CPP320 (F)	320	167	9.5	3/4", 1"	8	-	3.6	180x180x260	3500
CPP-80B	80	75	3.5	3/4", 1"	5	2.5	2.6	195x195x265	3200
CPP-110B	110	92	4.2	3/4", 1"	5	2.5	2.8	195x195x265	3200
CPP-150B	150	108	5	3/4", 1"	5	2.5	3.1	195x195x265	3200
CPP-180B	180	100	6	3/4", 1"	5	2.5	3.3	195x195x265	3200
CPP-220B	220	167	7.5	3/4", 1"	5	2.5	3.5	195x195x265	3200
CPP-330B	330	200	8.5	3/4", 1"	5	2.5	3.8	195x195x265	3200



### Features:

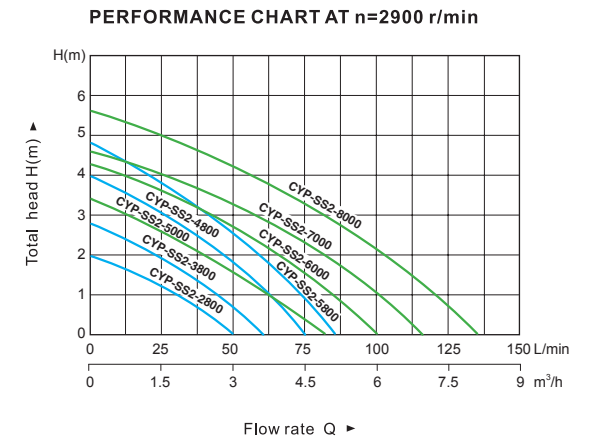
- Shell is made of high quality stronger ABS and durable operation.
- Waterproof and good performance of insulation.
- Suitable for low water level.
- Used for aquarium.



MODEL	POWER P2(W)	VOLTAGE (V)	MAX. FLOW (L/min)	MAX. HEAD (m)	CABLE (m)	WEIGHT (kg)	DIMENSION LxWxH (mm)
CYP-SS1-1000	15	110/220/240	17	1.4	1.8	0.5	107×84×123
CYP-SS1-1500	20		25	1.6	1.8	0.6	120×94×136
CYP-SS1-2500	40		42	2.3	2.5	0.9	135×105×152
CYP-SS1-3000	55		50	2.8	2.5	1.2	151×117×170
CYP-SS1-3500	80		58	3.3	2.5	1.6	169×130×189

### Features:

- Electronic frequency conversion technology , energy saving.
- High-strength ceramic shaft and wear, long service life.
- No copper element, spiral propeller allows the size of dust particle as 6mm.



MODEL	POWER P2(W)	VOLTAGE (V)	MAX. FLOW (L/min)	MAX. HEAD (m)	CABLE (m)	WEIGHT (kg)	DIMENSION LxWxH (mm)
CYP-SS2-2800	15	220-240	50	2.0	2.5	1.7	168×95×164
CYP-SS2-3800	20		60	2.8	2.5	1.7	168×95×164
CYP-SS2-4800	30		75	4.0	2.5	1.7	168×95×164
CYP-SS2-5800	40		87	4.8	2.5	1.7	168×95×164
CYP-SS2-5000	30		84	3.3	5	2.3	188×131×149
CYP-SS2-6000	40		100	4.2	5	2.3	188×131×149
CYP-SS2-7000	50		117	4.6	5	2.3	188×131×149
CYP-SS2-8000	70	134	5.6	5	2.3	188×131×149	

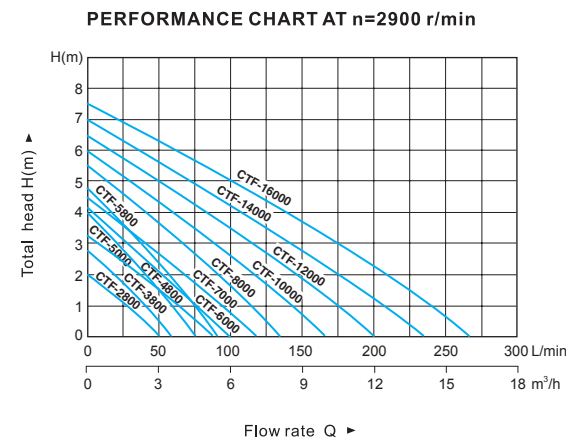


# CTF

## Frequency Variation Pump

### Features:

- Apply to ponds, rockery, bourn, with water recycling equipment matching
- The design of filter screen with oversized area, extend maintenance period
- Sprial propeller allows the size of dust particle as 6mm.
- Use ceramic shaft, wear resistance, no rust, long service life. Both fresh and seawater, do not contain copper element
- This product easy to clean
- The outlet suitable for a variety of pipe diameter connection
- The locked-rotor protection function(immediately cut off power after impeller jammed)



MODEL	POWER P2(W)	VOLTAGE (V)	MAX. FLOW (L/min)	MAX. HEAD (m)	HOSE ADAPTER	CABLE (m)	WEIGHT (kg)	DIMENSION LxWxH (mm)
CTF-2800	10	110/220/240	50	2.0	1", 1½", 1¼"	10	2.9	240x200x135
CTF-3800	20		60	2.8			2.9	240x200x135
CTF-4800	30		75	4.0			2.9	240x200x135
CTF-5800	40		87	4.8			2.9	240x200x135
CTF-5000	30		83	3.3			3.6	240x200x135
CTF-6000	40		100	4.2			3.6	240x200x135
CTF-7000	50		117	4.6			3.6	240x200x135
CTF-8000	70		133	5.6			3.6	240x200x135
CTF-10000	80		167	6.0			4.5	280x240x140
CTF-12000	100		200	6.5			4.5	280x240x140
CTF-14000	120		233	7.0			4.5	280x240x140
CTF-16000	140		267	7.5			4.5	280x240x140

# CKQ

## Electromagnet Air Pump

### Features:

- Compact structure and pretty design.
- Reciprocating compressor, energy saving and high efficiency.
- No need to put on oil, non-pollution, high pressure and big output.
- Suspension shock damper system and multistage muffler design, low noise.
- Internal heat dissipation and high waterproof design, can work 24hours.



MODEL	POWER P2(W)	OUTPUT (L/min)	MAX. PRESSURE (Kpa)	PRESSURE Kpa	NOISE dB(A)	WEIGHT (kg)	DIMENSION LxWxH (mm)
CKQ-SS1-50	30	50	32	<10	<45	2.6	216x164x179
CKQ-SS1-80	50	80	36	<12	<45	4.8	226x174x189
CKQ-SS1-100	65	100	42	<15	<48	6	238x186x200
CKQ-SS1-120	80	120	45	<15	<48	6.8	238x186x200
CKQ-SS1-200	150	200	48	<20	<50	10	276x205x238
CKQ-SS1-280	200	280	50	<20	<52	12.8	297x232x249

## Engine Pump

### Diesel Engine Pump



Model		DEP30
Diameter	Inlet	3"/80mm
	Out	3"/80mm
Rotate Speed		3600rpm
Performance	Max. Head	22m
	Max.Flow	55000L/h
	Suction	7m
Engine type		Air-cooled 4-stroke diesel engine
Displacement		296cc
HP		5.5
Fuel tank capacity		3.5L
Oil capacity		1.1L
Starting System		Recoil starting
Net weight(Kg)		56
Dimension(mm)		550x460x560

### Gasoline Engine Pump



Model		GEP20
Diameter	Inlet	2"/50mm
	Out	2"/50mm
Rotate Speed		3600rpm
Performance	Max. Head	30m
	Max.Flow	27000L/h
	Suction	7m
Engine type		Air-cooled 4-stroke Gasoline Engine
Displacement		163cc
HP		5.5
Fuel tank capacity		3.6L
Oil capacity		0.6L
Starting System		Recoil starting
Net weight(Kg)		25
Dimension(mm)		485x390x420

### High Pressure Washer



Model	FB515-2
Motor Type	Induction
Cleaning Pressure(bar)	90
Max. Pressure(bar)	135
Flow(L/min)	5.0
Power(w)	1800
Voltage/Frequency	220-240V, 50/60Hz
Weight(kg)	23.5
Packaging(mm)	320x320x600
Standard Accessories	5m wire and 7 hose gun detergent bottle cleaning pin inlet connector

# CSP

## Vibration Pump

### Technical Data:

- Suitable fluids
- Clean water
- Performance
- Fluid temperature range: 0-40°C
- Max. working pressure: 8bar
- Single phase: 220V±5% / 50Hz

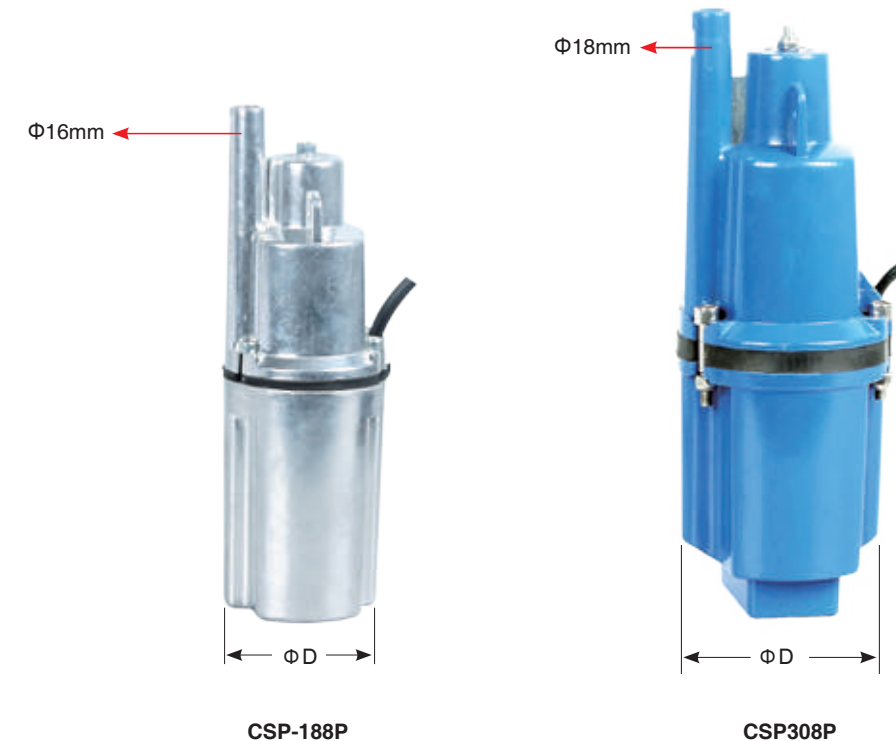
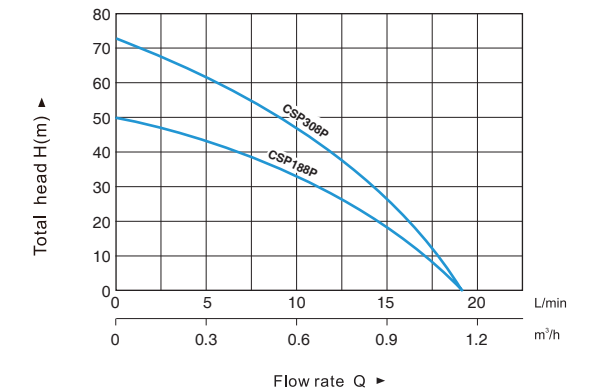
### Motor:

- Degree of protection: IP68
- Insulation class: B
- Pump body: Aluminium
- Motor body: Aluminium
- Impeller: Rubber
- Shaft: 40Cr Steel

### Accessories:

- Rope, Impeller, Clap, Check-valve

PERFORMANCE CHART AT n=2900 r/min



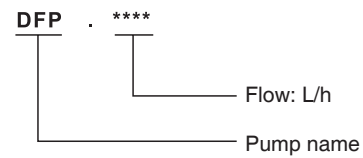
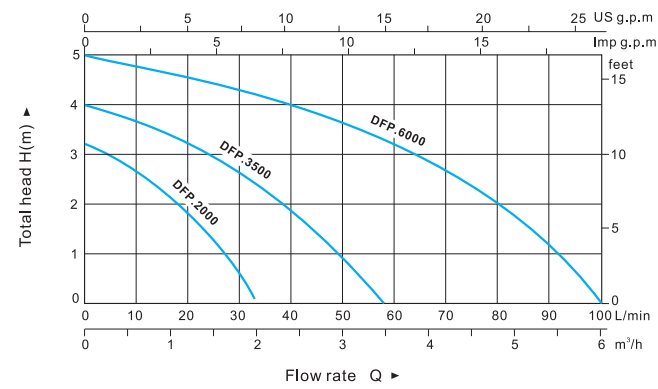
MODEL	POWER P2 (KW)	MAX.FLOW (L/min)	MAX.HEIGHT (m)	PUMP DIAMETER (φ D)(mm)	CABLE (m)	G.W (kg)	PACKING DIMENSION/UNIT (mm)	QTY/20' GP (UNIT)
CSP-188P	0.18	18	50	74	10	12	345x220x265/4pcs	6000
CSP-308P	0.28	18	72	96	10	16.2	380x250x320/4pcs	4000



### Features:

- Adopted low voltage brushless frequency conversion control technology, and electric drive is separated, which is safe and reliable and has longer service life.
- The performance of the pump can be changed by adjusting the power in multi-gear.
- It has the protection functions of stopping immediately after leaving water and blocking rotation.
- The outlet adopts multi-stage connection pipe, which is suitable for connection of various pipe diameters;
- Low water level intake design, can more effectively remove the impurities in the cylinder.
- This product can also be used as a pipeline pump, and its market application is more extensive.

PERFORMANCE CHART AT n=4000 r/min



(amphibious)

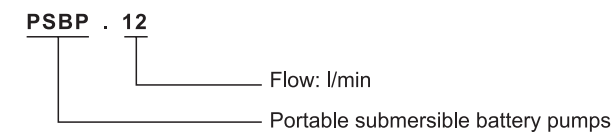
MODEL	POWER P2(W)	VOLTAGE	MAX. FLOW (m <sup>3</sup> /h)	MAX. HEAD (m)	OUTLET (mm)	CABLE LENGTH (mm)	G.W (kg)	PACKING DIMENSION/UNIT (mm)
DFP.2000	24	DC24	2	3.2	16/20	2	1	85x85x145
DFP.3500	35	DC24	3.5	4	20/25/32	2.5	1.3	95x95x180
DFP.6000	65	DC24	6	5	20/25/32	2.5	2.1	105x105x200

### Operating Limits:

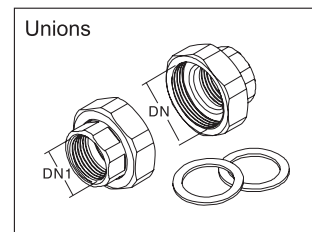
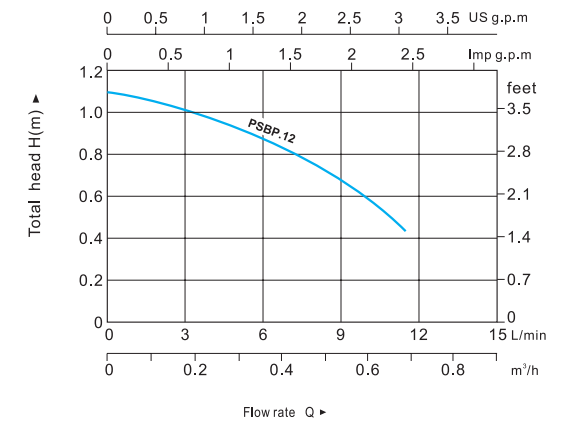
- Max. immersion depth: 1m
- Max. liquid temperature: 30°C
- Battery used: 3 x 1.5v alkaline batteries (D)

### Materials:

- Pump body: ABS
- Impeller: ABS
- Motor shaft: Stainless steel



PERFORMANCE CHART AT n=2900 r/min



MODEL	IN (A)	VOLTAGE (VDC)	MAX.FLOW (m <sup>3</sup> /h)	MAX.HEAD (m)	FITTINGS	
					DN	DN1
PSBP.12	2	4.5	0.7	1.1	G3/4"	G1/2"



CB12  
CB24  
CB220



CB12B  
CB24B  
CB220B



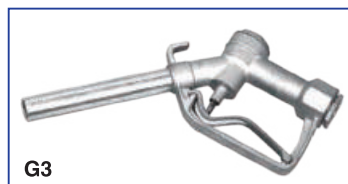
3/4"



G1



G2



G3



G4



0360  
Hose swivel 360°



LC001  
Liter Counter

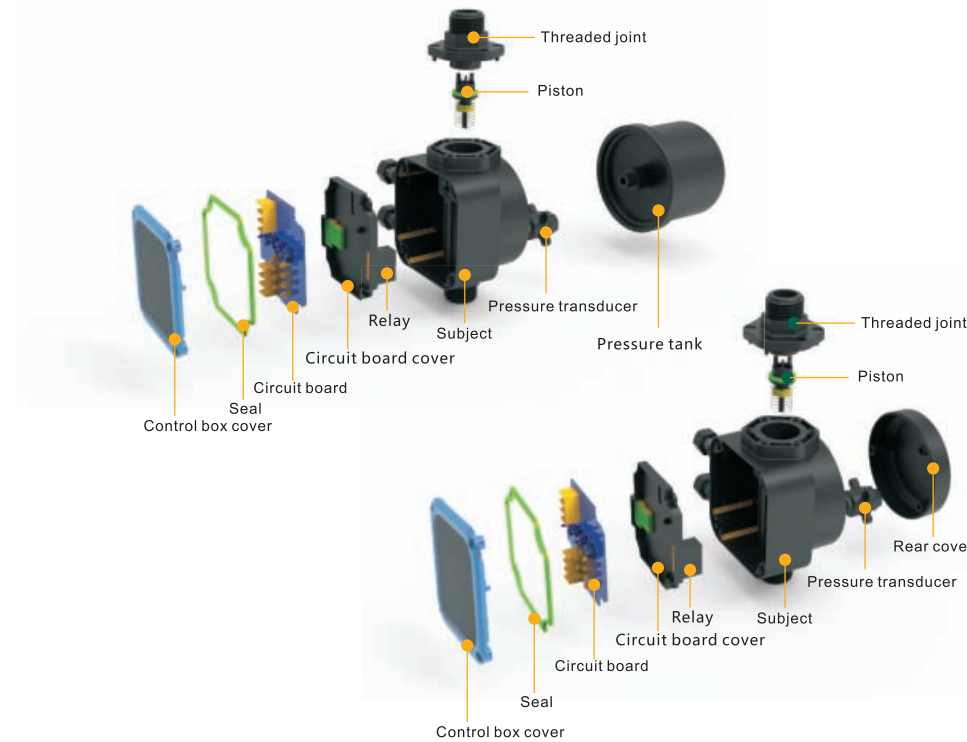
MODEL	POWER P2(KW)	VOLTAGE	INLET/OUTLET	MAX.FLOW (L/min)	MAX.HEAD (m)
CB12	0.18	12VDC	1"x1"	40	10
CB24		24VDC			
CB220		220AC			
CB12B	0.55	12VDC	1"x1"	60	20
CB24B		24VDC			
CB220B		220AC			

Function:

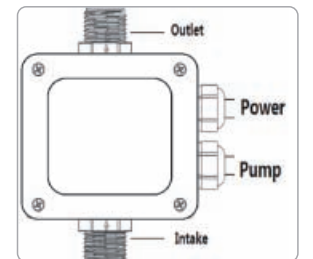
- Pumps can be plugged in and used without manual pressure setting. Stepless Pressure Regulation - Water pump can adjust its starting pressure intelligently.
- Intelligent Pressure Regulation-Water Hydraulic Fluctuation Controller
- Intelligently Superposes Pipeline Pressure.
- Installation is not limited by floor height (0-100m lift can be applied, equipped with self-priming pump, jet pump, centrifugal pump, deep well pump and other applications).
- Water Absorption Delay Function - Water Absorption will test the water source for 8 minutes.
- Automatic monitoring of water shortage, if water shortage for 5 minutes, the intelligent controller will stop the pump operation.
- When the water pump is short of protection, the water pump will start automatically.
- High temperature resistance 80°C
- Lightning protection.
- Pressure tank can eliminate the effect of water hammer and prolong the service life of pump motor.
- Manual mode prevents frequent start-up caused by pipeline leakage.



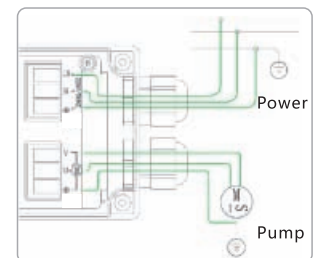
Structure Drawing:



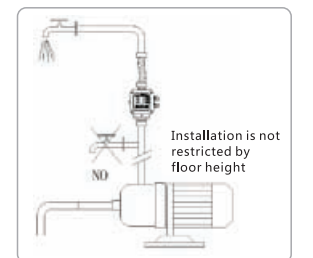
Appearance



Wiring Method



Installation Motive



MODEL	POWER (P1)		VOLTAGE (V)	MAXIMUM CURRENT	FREQUENCY (Hz)	PROTECTION LEVEL
	KW	HP				
CSK-KG2-2200(AS)	2.2	3	90-260V	10A	50/60	IP55
CSK-KG2-2200(MS)	2.2	3				
CSK-KG2-2200(M)	2.2	3				

ATS:intelligence+temperature protection+pressure tank adjustment+pressure tank  
MS:start pressure adjustment+pressure tank  
A:intelligence M:start pressure adjustment



## IDC-H2

### Intelligent Digital Pump Controller

#### Operating Limits:

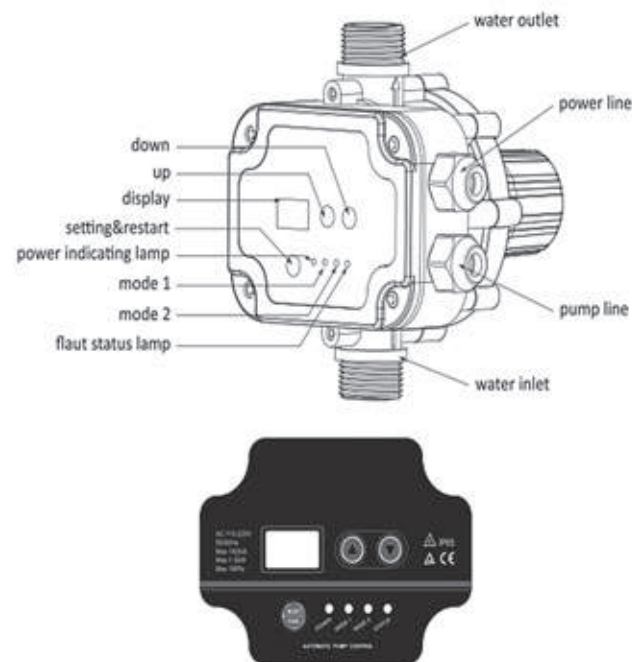
- Rated voltage: 110-220V
- Frequency: 50/60Hz
- Max.power/Max.working current: 1.5kW/16(8)A
- Protection class: IP65
- Max. working pressure: 10bar
- minimum start flow: 1(L/min)
- water inlet/outlet thread: R1"
- Max.liquid temperature:40°C
- Max.ambient temperature:60°C

#### Features:

- An intelligent digital pump controller with pressure sensor for 0.75kW-1.1kW pump.
- Convenient, simple and reliable connection, to fit the users' different requirement.
- Pressure sensor is fast response, high precision, digital display of pressure and current.
- It has the excellent characteristics of energy saving, high efficiency, green and environmental protection.
- With flow (F1) and pressure (F2) two models, can preset start/stop pressure.
- Overload (OL) and dry-running (UL) protection functions.
- Overpressure warning function.
- Pressure sensor abnormal warning function(PE).
- Pipe water shortage protection function.

#### Application:

- Irrigation
- Family
- Apartment
- Hotel
- Rainwater system
- Factory



## MAC-H1

### Mechanical Adjustable Pressure Controller

#### Operating Limits:

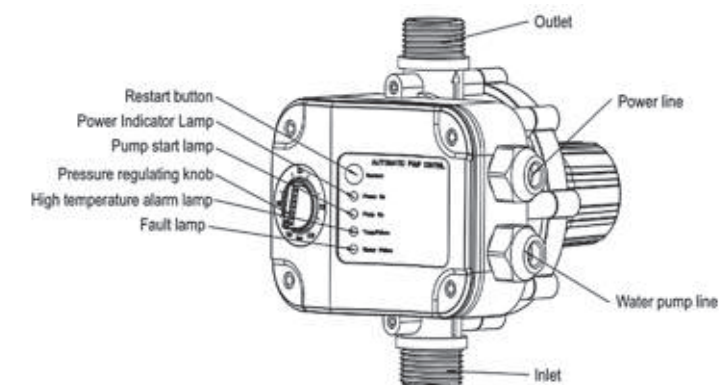
- Voltage: AC 220V
- Frequency: 50/60Hz
- Max. power / Max.working current: 1.5kW/16A
- Protection class: IP65
- Max. working pressure: 10bar
- Water inlet/outlet thread: R1"

#### Features:

- One-touch adjustable pressure, the starting pressure can be adjusted directly through knob on the panel, which is more intuitive and convenient than the traditional controller.
- Pipeline over-temperature protection function (automatic shutdown at 70 degrees).
- Convenient, simple and reliable connection, to fit the users' different requirement.
- It has the excellent characteristics of energy saving, high efficiency, green and environmental protection.
- Overload (OL) and dry-running (UL) protection functions.
- Pipe water shortage protection function.

#### Application:

- Irrigation
- Family
- Apartment
- Hotel
- Rainwater system
- Factory



# CAIC-6A

## Intelligent Digital Pump Controller

**NEW**

### Product Description:

- The intelligent digital water pump controller with pressure sensor, can control the water pump below 1.5kW;
- Convenient wiring, simple, reliable performance, to meet the different needs of users;
- Pressure sensor is quick response and high precision, digital display of real-time pressure;
- Characteristics of energy saving, efficient, environmental -protection;
- It has flow and pressure mode to set start/stop pressure;
- High sensitive and non-touch screen, high-end display effect, intuitive and convenient operation, overload and no-load protection function;
- Built-in 0.3L pressure tank:

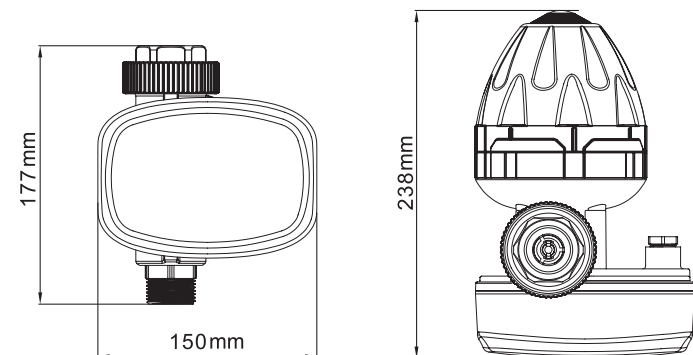
### Optional:

- Wireless interconnect communication function (Wifi Bluetooth)
- Interchangeable to high life diaphragm structure
- High precision pressure sensing device
- Highly sensitive non-touch screen
- Removable adjustable coupling



High precision pressure sensing device

### Outline Size:



Model	Rated Voltage (V)	Rated Frequency	Max.Current (A)	Max.Power (kW)	Start Pressure (adjustable)	Stop Pressure (adjustable)	Max. Pressure	Start Flow (L/H)	Screw Interface	Max. Ambient Temp
CAIC-6A	110-240	50/60Hz	16(8)	1.5	0.5-6bar	0.8-9bar	10bar	80-160	1"	60°C

# CAIC-6B

## Intelligent Digital Pump Controller

**NEW**

### Product Description:

- It can adjust the required starting pressure, more intuitive and convenient than the traditional pressure regulating controller;
- Convenient wiring, simple, reliable performance, to meet the different needs of users;
- Characteristics of energy saving, efficient, environmental -protection;
- It has removable adjustable connector, easy installation;

### Optional:

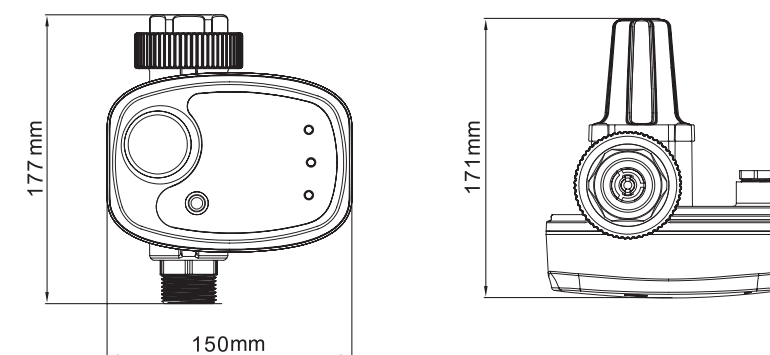
- Color: customer optional
- Plastic pipe coupling for quick connection to water pump.
- Wire length can be selected according to customer needs.
- Customizes the program settings



Adjustable pressure

Removable adjustable coupling

### Outline Size:



Model	Rated Voltage (V)	Rated Frequency	Max.Current (A)	Max.Power (kW)	Start Pressure (adjustable)	Max. Pressure	Start Flow (L/H)	Screw Interface	Max. Ambient Temp
CAIC-6B	110-240	50/60Hz	10	1.1	1.5-3bar	10bar	80-160	1"	60°C



# CAIC-10

## Intelligent Digital Pump Controller

**NEW**

### Product Description:

- It can adjust the required starting pressure switch, which is more intuitive and convenient than the traditional pressure regulating controller.
- Compact structure for easy use.
- Convenient and simple wiring, reliable performance, to meet the different needs of users;
- Characteristics of energy saving, efficient, environmental-protection:
- Pressure gauge can display real-time pipeline pressure



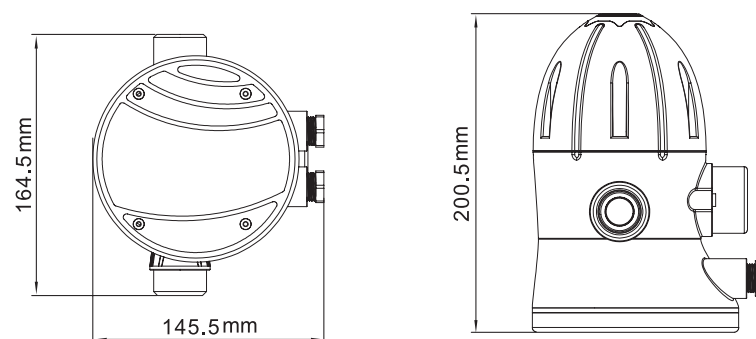
### Optional:

- Color: customer optional
- Plastic pipe coupling for quick connection to water pump.
- Wire length can be selected according to customer needs.
- Customizes the program settings



Adjustable pressure

### Outline Size:



Model	Rated Voltage (V)	Rated Frequency	Max.Current (A)	Max.Power (kW)	Start Pressure (adjustable)	Max. Pressure	Start Flow (L/H)	Screw Interface	Max. Ambient Temp
CAIC-10	110-240	50/60Hz	10	0.75	1.0bar	10bar	30-60	1"	60°C
	220-240			1.1	1.5bar				
				2.2bar					

# CAIC-10A

## Intelligent Digital Pump Controller

**NEW**

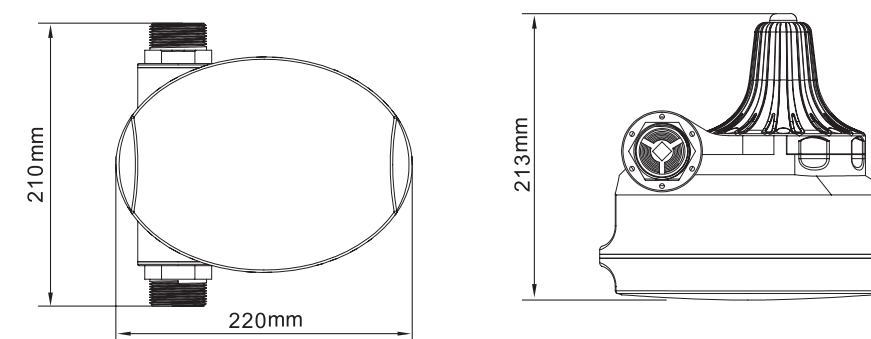
### Product Description:

- CAIC-10A intelligent frequency conversion pump controller is an integrated design of products, which can be matching 2.2kW single-phase/three-phase water pump:
- The product adopts novel control interface, intuitive display of the required parameters;
- Water-cooled frequency conversion, efficient and reliable:
- Built-in pressure tank structure, built-in pressure sensor, remove unnecessary accessories installation
- According to the actual use, automatically start and stop the pump and adjust the motor speed according to the pipeline pressure combined with advanced algorithm to maintain constant pressure work:
- Characteristics of energy saving, quiet, efficient, environmental-protection:
- It has the protection functions of water shortage, lack of phase, under voltage, over voltage, overload, over current and etc.
- Pipeline installation mode can suit for all types of water pump work



Water-cooled frequency

### Outline Size:



Model	Rated Voltage (V)	Rated Frequency	Screw Interface	Max. Ambient Temp
CAIC-10A	240	10~60Hz	1"	60°C

### Features:

- It is suitable for automatic level, pressure control and protection of three phase submersible pump and pipeline pump with 0.75-15KW which directly starting;
- Auto/Manual control;
- With four working modes: pressure sensor, float switch, liquid level probe and electric contact pressure gauge, which are applicable to most working conditions;
- With under/over-voltage protection function;
- With Over-current protection function;
- With short circuit protection function;
- With opening phase protection function;
- Built-in air switch protector;
- Current setting can be set automatically with one key and manually input setting;
- Pump dry-running protection time can be adjusted (10 seconds, 3 minutes, 5 minutes), which suitable for different pumps and working conditions;
- Pump dry-running current can be adjusted (70%, 80%, 85% of the rated current );
- Double pumps can work at the same time when low water level, low pressure water replenishment or high level over flow alarm sewage discharge;
- When one pump works fails and stops, the other pump can switch work automatically;
- The two pumps can be rotated and the rotation time can be adjusted from 0 to 99 hours;
- Can query one pump cumulative rotation working time;
- Dry-running protection with sensor free;
- LCD showing the working voltage, current and pressure value;
- LCD displays fault information and gives sound and light alarm;
- Can be configured according to user requirements.



Working Voltage	AC380V/50Hz/60Hz				
Rated output power	0.75-4KW/5.5-7.5KW 2.2-11KW/2.2-15KW (One controller for two pumps)				
Locked-rotor Protection Time	1second				
Dry-running Protection Time	10Seconds/3minutes/5minutes optional				
Recovery Time from Dry-running	30minutes				
Opening phase protection Time	<2seconds				
Under/Over Voltage Operating Time	<5seconds				
Under/Over Voltage Recovery time	5minutes				
Under-voltage operating voltage	AC 304V				
Over-voltage operating voltage	AC 437V				
Over-current fault recovery time	30minutes				
Distance for signal Transmit	≤200m				
Protection Degree	IP54				
Adaptive pressure sensor	DC5V working voltage / 0.5-4.5V signal output type, range 0-1.0mpa, 0-1.6mpa, 0-2.5mpa can be selected				
Over current acting time: 1s-30s (Inverse-time characteristic-the current bigger, acting time shorter)					
Overload multiple(Times)	1.3	1.5	2	3	5
Acting time	30S	15S	5S	3S	1S

### Features:

- Applied to single-phase submersible water pump,
- Pipeline Pump(0.37-2.2KW) etc, which can realize the level control protection and pressure control protection;
- Auto/Manual control;
- With four working modes: pressure sensor, float switch, liquid level probe and electric contact pressure gauge, which are applicable to most working conditions;
- With under/over-voltage protection function;
- With Over-current protection function;
- With short circuit protection function;
- Built-in Starting capacitor;
- Built-in air switch protector;
- Current setting can be set automatically with one key and manually input setting;
- Pump dry-running protection time can be adjusted (10 seconds, 3 minutes, 5 minutes), which suitable for different pumps and working conditions;
- Pump dry-running current can be adjusted(70%, 80%, 85% of the rated current );
- Double pump can work at the same time when low water level, low pressure water replenishment or high level overflow alarm sewage discharge;
- When one pump works fails and stops, the other pump can switch work automatically;
- The two pumps can be rotated and the rotation time can be adjusted from 0 to 99 hours;
- Can query one pump cumulative rotation working time;
- Dry-running protection with sensor free;
- LCD showing the working voltage, current and pressure value;
- LCD displays fault information and gives sound and light alarm;
- Can be configured according to user's requirements.



Working Voltage	AC220V/50Hz/60Hz				
Rated output power	0.37-2.2KW (One controller for two pumps)				
Locked-rotor Protection Time	<1second				
Dry-running Protection Time	10Seconds/3minutes/5minutes optional				
Recovery Time from Dry-running	30minutes				
Under/Over Voltage Operating Time	<5seconds				
Under/Over Voltage Recovery time	5 minutes				
Under-voltage operating voltage	AC 176V				
Over-voltage operating voltage	AC 253V				
Over-current fault recovery time	30minutes				
Distance for signal Transmit	≤200m				
Protection Degree	IP54				
Adaptive pressure sensor	DC5V working voltage / 0.5-4.5V signal output type, range 0-1.0mpa, 0-1.6mpa, 0-2.5mpa can be selected				
Over current acting time: 1s-30s (Inverse-time characteristic-the current bigger, acting time shorter)					
Overload multiple(Times)	1.3	1.5	2	3	5
Acting time	30S	15S	5S	3S	1S



### Features:

- It is applicable for automatic level, pressure control and protection of three-phase deep well pump and pipeline pump etc. started directly by 0.75-15KW;
- Auto/Manual control;
- Five working modes: with pressure sensor; with float switch; with liquid level sensor; with mechanical pressure switch and with electric contact pressure gauge, suitable for various working condition;
- Under/over voltage protection;
- Over current protection;
- Short circuit protection;
- Open-phase protection;
- Built-in air breaker protector;
- Current one key set by automatically or manually;
- Dry-running protect acting time adjustable (10 seconds, 3mins, 5mins).suitable for various pump and working conditions;
- Dry-running current value adjustable (70%, 80%, 85% of rated current);
- Dry-running protection with sensor free;
- LCD screen displays voltage, current and pressure value;
- LCD displays fault information and alarm;
- It can be configured according to users requirements.



Working Voltage	AC380V/50Hz/60Hz				
Rated output power	0.75-4KW/5.5-7.5KW 2.2-11KW/2.2-15KW (One controller for one pump)				
Locked-rotor Protection Time	< 1second				
Dry-running Protection Time	10Seconds/3minutes/5mintutes optional				
Recovery Time from Dry-running	30minutes				
Opening phase protection Time	<2seconds				
Under/Over Voltage Operating Time	<5seconds				
Under/Over Voltage Recovery time	5minutes				
Under-voltage operating voltage	AC 304V				
Over-voltage operating voltage	AC 437V				
Over-current fault recovery time	30minutes				
Distance for signal Transmit	≤200m				
Protection Degree	IP54				
Adaptive pressure sensor	DC5V working voltage / 0.5-4.5V signal output type, range 0-1.0mpa, 0-1.6mpa, 0-2.5mpa can be selected				
Over current acting time: 1s-30s (Inverse-time characteristic-the current bigger, acting time shorter)					
Overload multiple(Times)	1.3	1.5	2	3	5
Acting time	30S	15S	5S	3S	1S

### Features:

- It is applicable for automatic level, pressure control and protection of single-phase deep well pump and pipeline pump etc.started directly by 0.37-3KW;
- Auto/Manual control;
- Five working modes: with pressure sensor; with float switch; with liquid level sensor; with mechanical pressures witch and with electric contact pressure gauge, suitable for various working condition;
- Under/over voltage protection;
- Over current protection;
- Short circuit protection;
- Built-in start capacitor is available;
- Built-in air breaker protector;
- Current one key set by automatically or manually;
- Dry-running protect acting time adjustable (10 seconds, 3mins,5mins),suitable for various pump and working condition;
- Dry-running current value adjustable (70%, 80%, 85% of rated current);
- PW-O3MP built-in ac contactor, suitable for deep well pump with 2.2-3KW and motor line within 400 meters;
- Dry-running protection with sensor free;
- LCD screen displays voltage, current value;
- LCD displays fault information and alarm;
- It can be configured according to user's requirements.



Working Voltage	AC220V/50Hz/60Hz				
Rated output power	0.37-2.2KW、0.37-3KW (One controller for one pump)				
Locked-rotor Protection Time	<1second				
Dry-running Protection Time	10Seconds/3minutes/5mintutes optional				
Recovery Time from Dry-running	30minutes				
Under/Over Voltage Operating Time	<5seconds				
Under/Over Voltage Recovery time	5minutes				
Under-voltage operating voltage	AC 176V				
Over-voltage operating voltage	AC 253V				
Over-current fault recovery time	30minutes				
Distance for signal Transmit	≤200m				
Protection Degree	IP54				
Adaptive pressure sensor	DC5V working voltage / 0.5-4.5V signal output type, range 0-1.0mpa, 0-1.6mpa, 0-2.5mpa can be selected				
Over current acting time: 1s-30s (Inverse-time characteristic-the current bigger, acting time shorter)					
Overload multiple(Times)	1.3	1.5	2	3	5
Acting time	30S	15S	5S	3S	1S

### Features:

- This controller is a special intelligent protection controller for sewage pump and cutting pump. Compared with the traditional protector, it has reverse function. For example, it can reverse the pump to discharge the foreign body automatically when the pump protect as pump stuck. It is suitable for the automatic liquid level, pressure control and protection of the three-phase sewage pump and cutting pump directly start by 0.75-15KW;
- Auto/Manual control;
- Four working modes: with float switch; with liquid level sensor; with mechanical pressure switch and with electric contact pressure gauge, suitable for various working condition;
- Under/over voltage protection;
- Over current protection;
- Short circuit protection;
- Open-phase protection;
- Built-in air breaker protector;
- Current one key set by automatically or manually;
- Dry-running protect acting time adjustable (10 seconds, 3mins, 5mins), suitable for various pump and working conditions;
- Dry-running current value adjustable (0.7A to 90% of rated current);
- The number of reversals is adjustable (1-9);
- Dry-running protection with sensor free;
- LCD screen displays voltage, current value;
- LCD displays fault information and alarm;
- It can be configured according to user's requirements.



Working Voltage	AC380V/50Hz/60Hz					Under/Over Voltage Operating Time	<5seconds				
Rated output power	0.75-4KW/5.5-7.5KW 2.2-11KW/2.2-15KW (One controller for one pump)					Under/Over Voltage Recovery time	5minutes				
Locked-rotor Protection Time	<1second					Under-voltage operating voltage	AC 304V				
Dry-running Protection Time	10Seconds/3minutes/5minutes optional					Over-voltage operating voltage	AC 437V				
Recovery Time from Dry-running	1 hour					Distance for signal Transmit	≤200m				
Opening phase protection Time	<2seconds					Protection Degree	IP54				
Over current acting time: 1s-30s (Inverse-time characteristic-the current bigger, acting time shorter)											
Overload multiple(Times)	1.3	1.5	2	3	5						
Acting time	30S	15S	5S	3S	1S						

EIC series are innovatively variable frequency drives designed not only to control ON/OFF of a water pump, but also automatically regulate pump speed based on actual demand of water flow and pressure. In this way, constant flow and even pressure are maintained at end user's side and in the meantime, pump life is maximized and electricity bill is saved. In addition to dry-run protection and auto restart function during a water shortage, EIC series also protect the pump from excessive electrical current and power surge

### Technical Parameters:

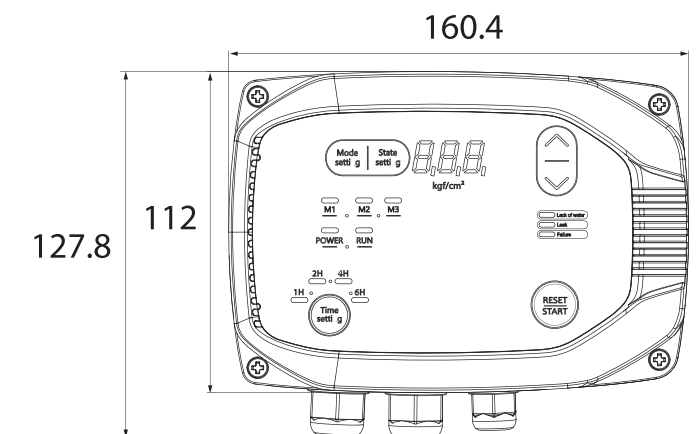
- Rated voltage/Frequency: 230V, 50/60Hz
- Max.Power: 0.37kW, 0.55kW, 0.75kW
- IP Class: IP65
- Electrical Output: Three Phase 100-220V
- Motor Connection: Delta Connection:220V
- Constant Voltage Range (default): 1.0bar - 5.0bar (3.5 bar)
- Sensor Thread: G 1/4 " External Thread
- Frequency Formulation Range: 10Hz - 60Hz
- Maximum Atmosphere Temperature: 45°C
- Atmosphere Temperature: Less than 90°C

### Protection Features:

- Over-voltage/U ndervoltage
- Over-current
- Overheat
- Overload
- Dripping
- Sensor Failures

### Typical Usage:

- Home Use
- Apartment Use
- Hospitality Use
- Farming Use
- Well Water Use
- Greenhouse, Garden and Agriculture Irrigation
- Recycle of the Rain Water
- Industrial and Factory Use





# CME-G1

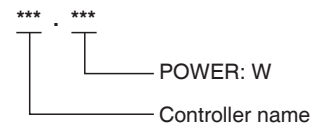
## Pump Controller

### Features:

- Smart constant pressure
- Simple pressure setting
- IP55 protection
- Easy to install
- Compact design
- Inner lack of water protection
- Max.6 parallel operation
- Mobile remote control

### Application:

- Office building
- Hotel
- School
- Villa
- Agricultural irrigation
- Air conditioning cycle
- Hot water pressurization



MODEL	POWER		VOLTAGE (V)	CURRENT (A)	PACKING DIMENSION/UNIT (mm)
	KW	HP			
CME-G1.750	0.75	1	380	2.5	226x216x112
CME-G1.1500	1.5	2	380	3.7	226x216x112
CME-G1.2200	2.2	3	380	10	226x216x112
CME-G1.3000	3	4	380	6.5	283x255x150
CME-G1.4000	4	5.4	380	9	283x255x150
CME-G1.5500	5.5	7.4	380	11.5	283x255x150
CME-G1.7500	7.5	10	380	15	283x255x150

# CME-G2

## Digital Integrated Zero Water Hammer Water Supply

### Operating Limits:

- Max.flow(Q): 1200m<sup>3</sup>/h
- Max.Head(H): 258m
- Pump connection: Up to 6 pumps
- Motor power: 0.75-45kW(1-60HP)
- Operating pressure: Max.25Bar

### Functions:

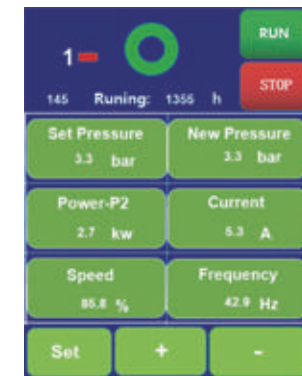
- Pressure settings
- Alternative operation
- Pump freeze protection
- Automatic detection of low flow on discharge
- Automatic recovery after power failure
- Equipped with an RS485 interface
- Operation display and data storage
- Inlet water pressure control function
- Level control function

### Features:

- 10" color LCD touch monitor
- Each pump is individually controlled by a drive
- High reliability(Multi-master control)
- Constant discharge pressure
- Reduced tank and panel sizes
- Less wear of the system during operation
- Compact assembly and installation
- High reliability with an installation of multi-pressure transmitters
- Lowest possible energy consumption
- Up to 45kW and connection of up to 6 pumps

### Alternative Operation:

- Alternative operation refers to the total sum of the power accumulated.
- This in-return ensures that the operating of each pump will be the same and extends lifetime of each pump as the wear is evenly distributed amongst the pumps.
- Zero water hammer control technology: when adding or reducing the pump, pump starts and stops without impact.
- Also there is no pressure fluctuation when the main pump exchanged



MODEL	POWER		VOLTAGE FREQUENCY (v/Hz)	CURRENT (A)	PACKING DIMENSION/UNIT (mm)
	KW	HP			
CME-G2.1500	1.5	2	380/50	3.7	350x235x260
CME-G2.2200	2.2	3	380/50	5	350x235x260
CME-G2.3000	3	4	380/50	6.5	400x390x270
CME-G2.4000	4	5	380/50	9.5	400x390x270
CME-G2.5500	5.5	7	380/50	12.5	445x445x270
CME-G2.7500	7.5	10	380/50	17.5	445x445x270
CME-G2.11000	11	15	380/50	24	505x445x270
CME-G2.15000	15	20	380/50	30	505x445x270
CME-G2.18500	18.5	25	380/50	38	505x445x270

**Product Description:**

■ The robotic cleaner is designed with high performance cleaning for all types and sizes of pools. It is the computer-controlled, programmed cleaner that scrubs and vacuums pool's bottom, walls and provides supplemental filtration of pool water. It is a totally self-contained cleaning and filtration system, just plug it in and place it in the pool. It is quiet and attractive, the best and professional choice for pools cleaning.

**Features:**

- Powerful vacuum action removes fine particles and larger debris and integrated filtration system captures dirt and debris in filter canister
- Two large capacity filter canister, simple debris removal with easy top access
- Highly efficient operation, reduces filter cleaning time by efficiently collecting and depositing debris
- Programmed reverse feature prevents hang-ups in corner for uninterrupted service
- Clean all pool surface and it is suitable for all types and sizes of pools

**Specifications:**

- Cycle time: 1-2 Hours
- Cable length: 13 Meter
- Maximum pool size: 6x12m
- Output voltage: 24V
- Running speed: 18m/min
- Filter capturing: 10µm-100µm optional



CRPC60

**Filtration Products**



**Pressure Switch for Water Pump**



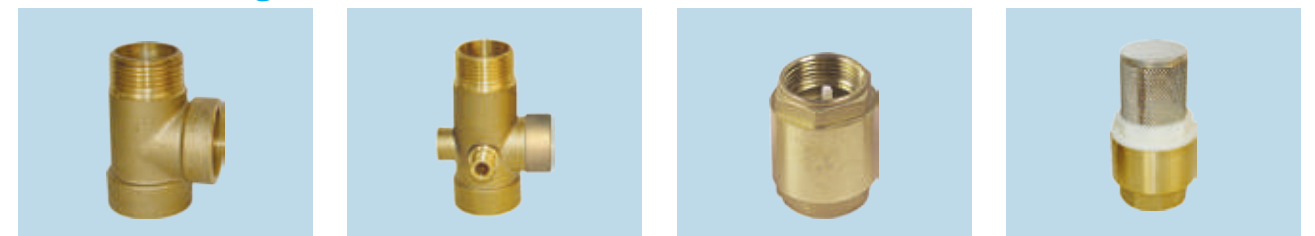
**Presscontrol**



**Pressure Tank (Interchangeable Membrane)**



**Brass Fittings**







**DIANFLEX**<sup>®</sup>



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