



CATALOG

YEAR 2025



PLASTIC CENTRIFUGAL PUMP

MODEL : CHG SERIES

HIGH EFFICIENCY
MOTOR IE3/IE4
Premium Quality

A NEW LEVEL OF PUMP PERFORMANCE
Expanded field of application owing
to improved corrosion resistance.



CHEMICAL
INDUSTRY



POLLUTION
PROCESS



SEMICONDUCTOR

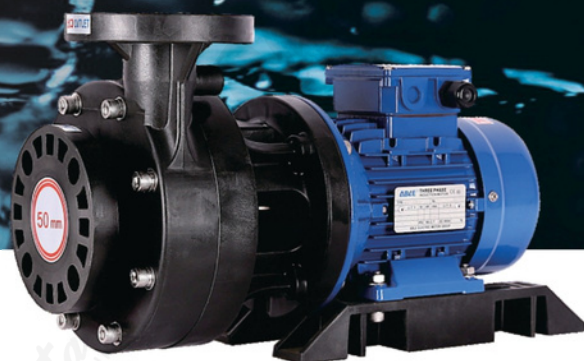


AUTO-PART
INDUSTRY

Acid & Alkali Resistant Plastic Centrifugal Pump

It Can Be Used For Most Liquid Of Acid And Alkali Circulation And Transportation.

Long service life.
Strong acid and alkali resistance.



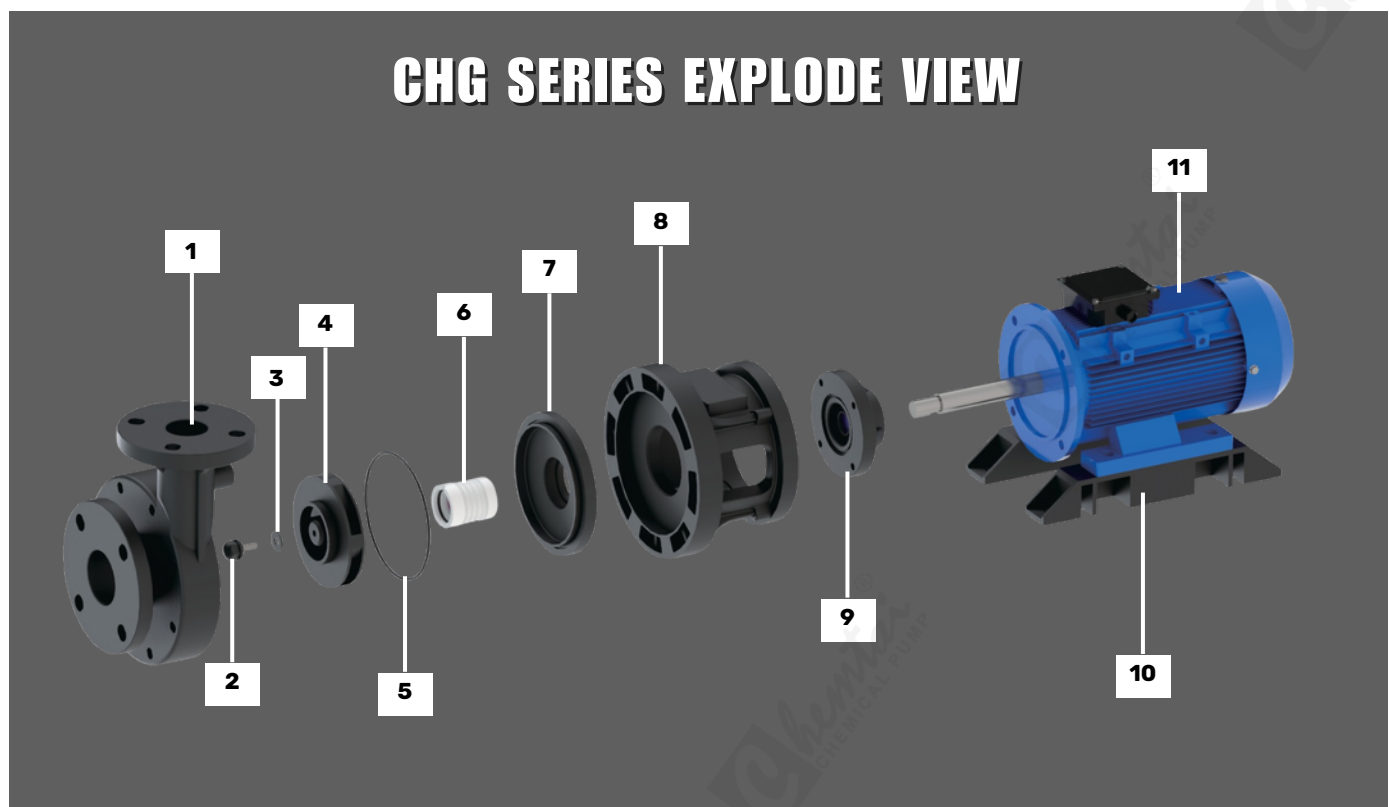
Series Model

50Hz 60Hz

Main material	Model	Max.Flow (L/min)											Max.Head (m)								Parameters Apply to Specific Gravity Range
		200	400	600	800	1000	1200	1400	1600	1800	2000	2200	5	10	15	20	25	30	35	40	
GFRPP / PVDF	CHG-40012	250 245											13 12								<1.2
	CHG-40022	316 313											16 16								
	CHG-40032	392 417											20 23								
	CHG-50032	625 633											21 20								
	CHG-50052	710 733											26 30								
	CHG-65052	883 893											21 22								
	CHG-65072	1000 967											27 25								
	CHG-65102	1057 1113											30 34								
	CHG-100102	1697 1677											25 25								
	CHG-100152	1918 1967											32 32								

- Medium Temperature: 0°C~+90°C, Medium Specific Gravity: 1~2, Working Environment Temperature: -5°C~+50°C, Maximum Altitude: 2000m, Maximum Working Pressure: 5Bar.
- Test Basis: The above performance data corresponds to the transportation of clean water at normal speed at 25°C. The performance error is ±5%. The performance of the pump varies with the specific gravity and temperature of the conveying fluid medium.
- The above factory measured data is for reference only. Due to the differences in many factors such as the viscosity of the liquid, pipeline layout, flow meter type, etc. during actual use by customers, the final performance parameters of the pump should be based on the measured data at the equipment use site.

CHG SERIES EXPLODE VIEW



- | | | |
|------------------------|----------------------|----------------------------|
| ① Front Cover | ⑤ Cover O-Ring | ⑨ Rear Shaft Seal Assembly |
| ② Impeller Screw | ⑥ Front Shaft Seal | ⑩ Base |
| ③ Impeller Seal Gasket | ⑦ Rear Cover | ⑪ Motor |
| ④ Impeller | ⑧ Connecting Bracket | |



CHG 1HP-15HP

Acid And Alkali Resistant Plastic Centrifugal Pump

Product Feature

- **Strong Practicality:** The maximum flow rate can reach 1833L/min, and the fluid specific gravity can reach 2.0. It can be used in an acid-base liquid environment with iron impurities or particles of 2mm or less.
- **Integrated Injection Molding:** The front cover, inlet, and outlet flanges are integrally injection molded without any welding points, ensuring strong sealing and no leakage.
- **Strong Corrosion Resistance:** The pump head material is available in GFRPP and PVDF, suitable for most strong acid and strong base liquids.



Product Specification List

Model	Inlet & Outlet (mm)	Max.Flow/50Hz		Max.Flow/60Hz		Max.Head (m)		Power			Weight (KG)
		(L/min)	(m³/h)	(L/min)	(m³/h)	50Hz	60Hz	Poles (p)	HP	KW	
CHG-40012	50/40	250	15	245	14.7	13	12	2	1	0.75	26.5
CHG-40022	50/40	316	19	313	18.8	16	16	2	2	1.5	28.1
CHG-40032	50/40	392	23.5	417	25	20	23	2	3	2.2	31.0
CHG-50032	65/50	625	37.5	633	38	21	20	2	3	2.2	32.2
CHG-50052	65/50	710	42.6	733	44	26	30	2	5.5	4	46.2
CHG-65052	80/65	883	53	893	53.6	21	22	2	5.5	4	47.0
CHG-65072	80/65	1000	60	967	58	27	25	2	7.5	5.5	62.7
CHG-65102	80/65	1057	63.4	1113	66.8	30	34	2	10	7.5	68.9
CHG-100102	100/100	1697	101.8	1677	100.6	25	25	2	10	7.5	69.8
CHG-100152	100/100	1918	115.1	1967	118	32	32	2	15	11	114.0

- Medium Temperature: 0°C~+90°C, Medium Specific Gravity: 1-2, Working Environment Temperature: -5°C~+50°C, Maximum Altitude: 2000m, Maximum Working Pressure: 5Bar.
- Test Basis: The above performance data corresponds to the transportation of clean water at normal speed at 25°C. The performance error is ±5%. The performance of the pump varies with the specific gravity and temperature of the conveying fluid medium.
- The above factory measured data is for reference only. Due to the differences in many factors such as the viscosity of the liquid, pipeline layout, flow meter type, etc. during actual use by customers, the final performance parameters of the pump should be based on the measured data at the equipment use site.

CHG-40012/40022/40032/50032 50052/65052/65072/65102 100102/100152

● Max. Flow : 271-1833 L/min.

● Max. Head : 13-33 m.

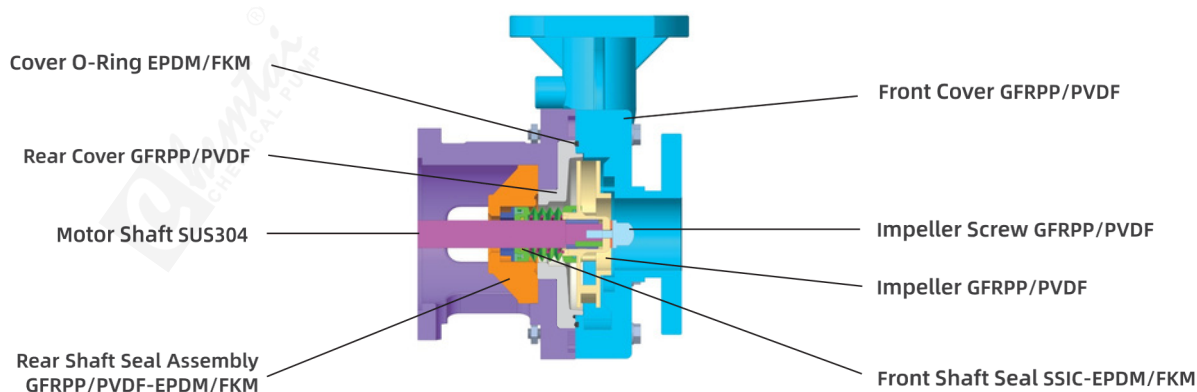


Model Description

CHG - G - 40 - 02 - 2 - V - SSH - 5 - V38 - A - A - A - B - S
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

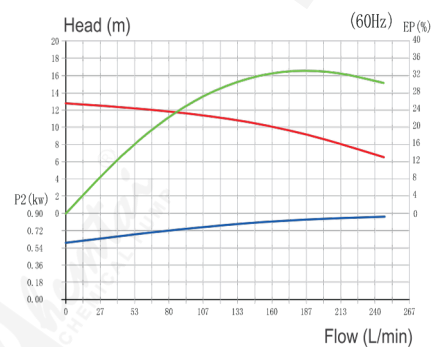
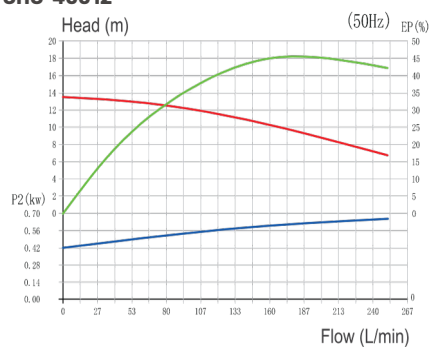
- ① Model : CHG
- ② Material Of Pump Head: G-GFRPP; P-PVDF
- ③ Outlet Caliber: 40-40mm; 50-50mm; 65-65mm; 100-100mm
- ④ Power: 01-1HP; 02-2HP; 03-3HP; 05-5HP; 07-7.5 HP; 10-10HP; 15-15HP
- ⑤ Poles: 2-2P; 4-4P
- ⑥ Sealing Material: E-EPDM; V-FKM
- ⑦ Seal Specification: SSH-front and rear seal SSIC
- ⑧ Frequency: 5-50HZ; 6-60HZ
- ⑨ Voltage: V38-3Ø/380V; V41-3Ø/415V; V44-3Ø/440V; V48-3Ø/480V; V66-3Ø/660V; V32-3Ø/220V; V22-1Ø/220V
- ⑩ Specific Gravity of liquid: A-1.0-1.2; B-1.3; C-1.4; D-1.5; E-1.6; F-1.7; G-1.8; H-1.9; I-2.0
- ⑪ Motor Brand: A-ABLE; Q-Other
- ⑫ Motor Requirements: A-IE3 Normal Motor; B-IE4 Normal Motor; C-IE5 Normal Motor; D-Variable Frequency Motor; E-IE3, BT4 Ex-Proof Motor; F-IE4, BT4 Ex-Proof Motor; G-IE5, BT4 Ex-Proof Motor; H-IE3, CT4 Ex-Proof Motor; I-IE4, CT4 Ex-Proof Motor; J-IE5, CT4 Ex-Proof Motor; K-Permanent magnet variable frequency motor; L-BT4 Ex-Proof Variable Frequency Motor; M-CT4 Ex-Proof Variable Frequency Motor
- ⑬ Motor Protection Level: A-IP55; B-IP56; C-IP65
- ⑭ S-Standard; N-Non-Standard

Structure Drawing And Material

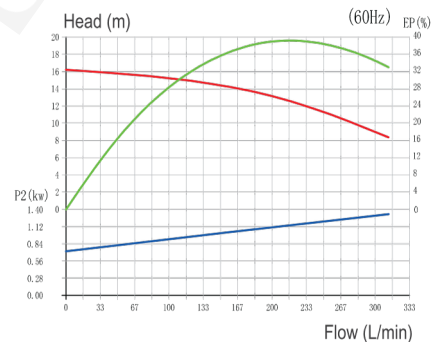
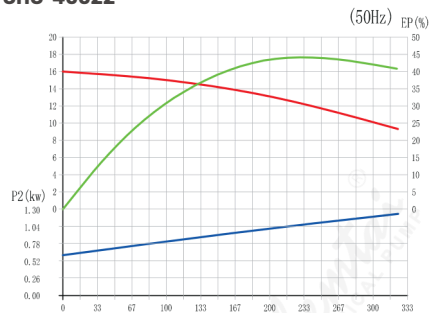




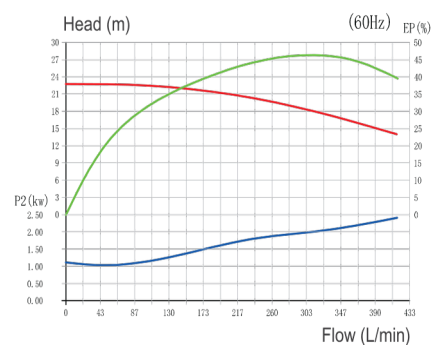
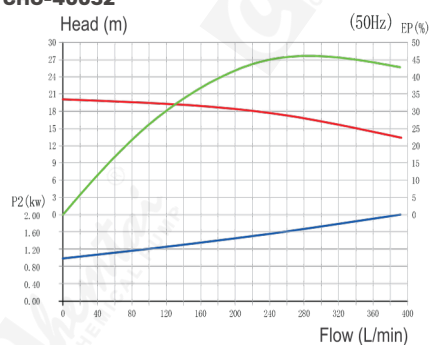
CHG-40012



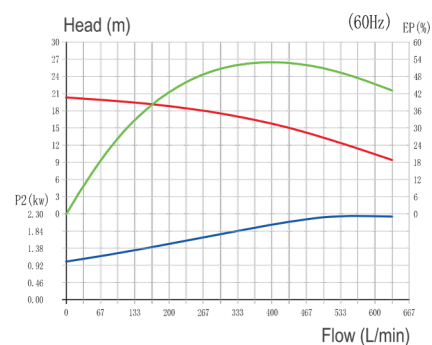
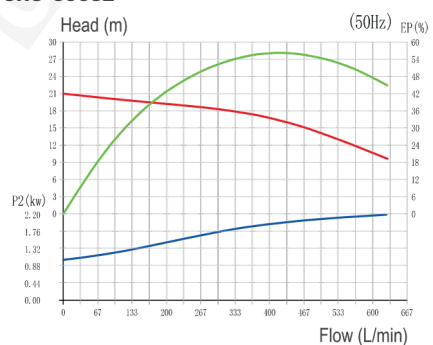
CHG-40022



CHG-40032

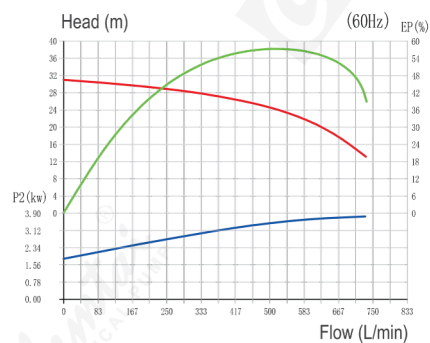
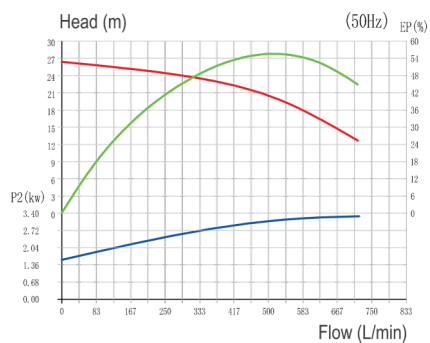


CHG-50032

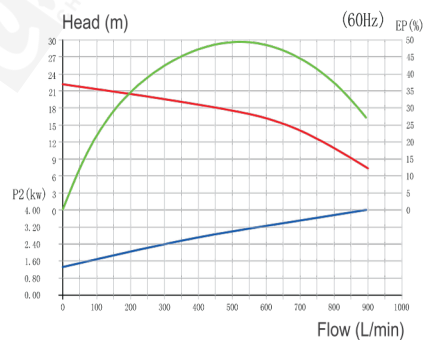
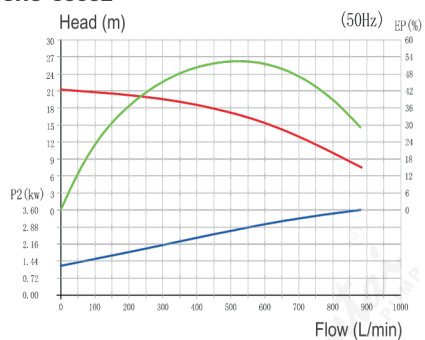




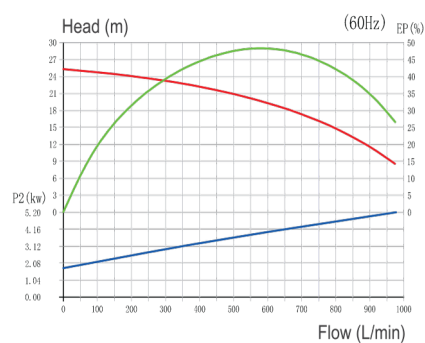
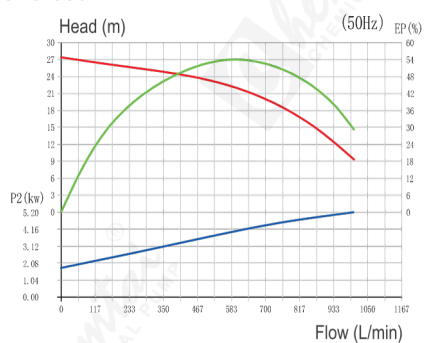
CHG-50052



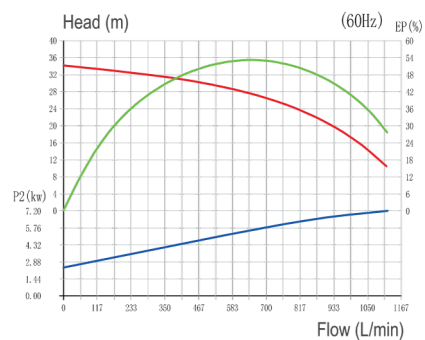
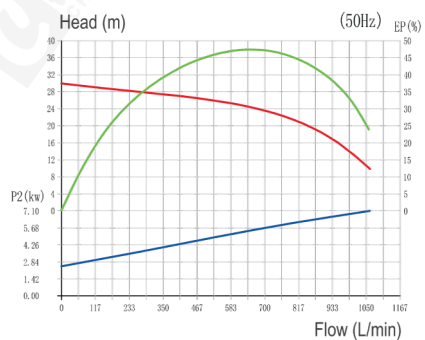
CHG-65052



CHG-65072

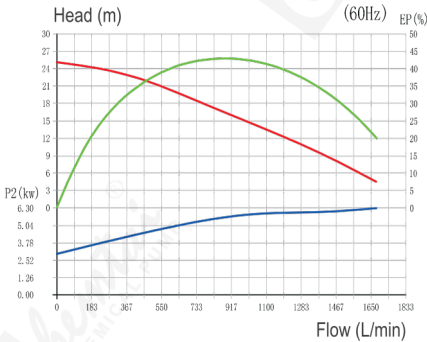
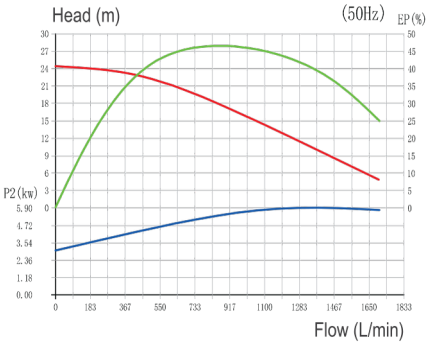


CHG-65102

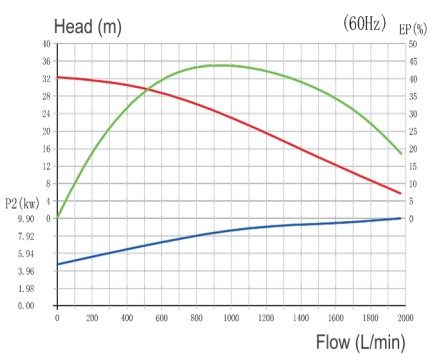
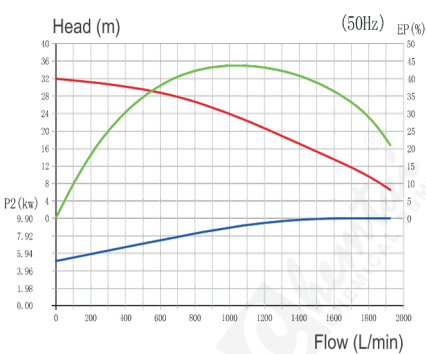




CHG-100102

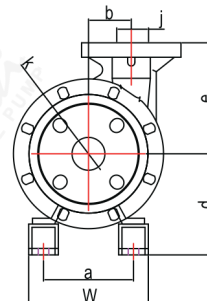
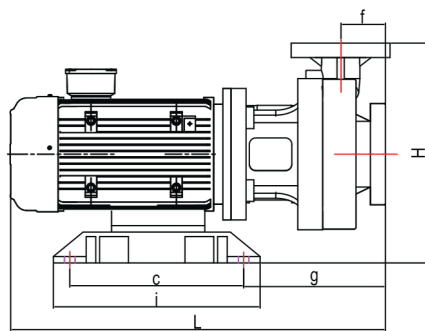


CHG-100152





Overall Dimensions



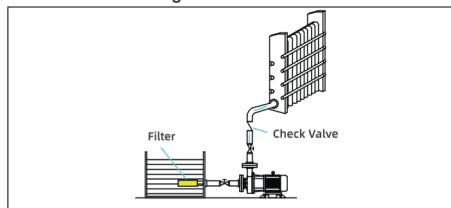
Model	L	H	W	a	b	c	d	e	f	i	g	j	k
CHG-40012	480	295	159	115	65	282	127	168	66	323	225	36.0	51.0
CHG-40022	520	305	180	136	65	282	137	168	66	323	210	36.0	51.0
CHG-40032	521	305	180	136	65	282	137	168	66	323	212	36.0	51.0
CHG-50032	528	339	180	136	65	282	137	202	76	323	216	50.0	65.0
CHG-50052	606	361	226	182	65	282	159	202	76	323	270	50.0	65.0
CHG-65052	605	365	258	213	65	282	159	206	72	323	269.5	65.0	75.0
CHG-65072	650	379	258	213	65	282	179	200	70.5	323	275	65.0	76.0
CHG-65102	655	379	260	216	65	282	179	200	72	323	295	65.0	76.0
CHG-100102	663	397	260	216	65	282	179	218	75	323	302	98.0	101.0
CHG-100152	820	425	303	260	65	282	207	218	75	323	353	98.0	101.0

● Note: This is the dimensions of GFRPP material.

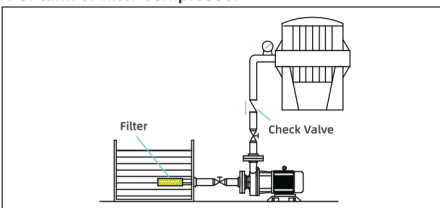


Installation Instruction

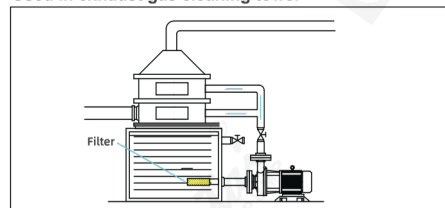
Used in heat exchangers



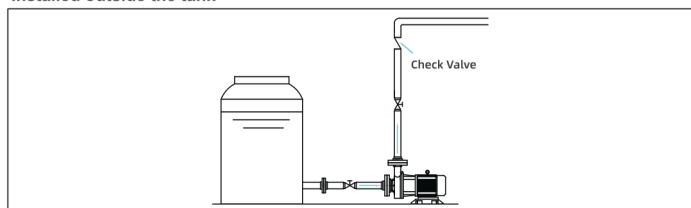
For tank or filter compressor



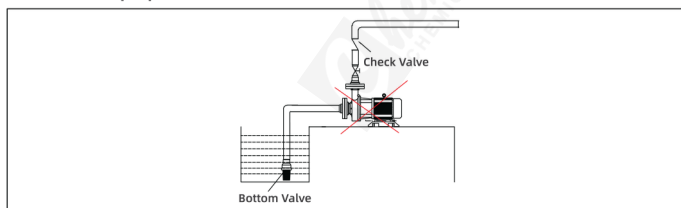
Used in exhaust gas cleaning tower



Installed outside the tank



WARNING: improper use



Precautions For Installation And Operation

1. The pump shall be installed on a solid horizontal ground and kept stable. The pump inlet and outlet shall be equipped with valves for maintenance.
2. Try to avoid installing the machine in the outdoor area. Outdoor pump shall be covered with a protective cover. If the pump is equipped with an electronic controller, safeguard procedures shall be adopted.
3. The pump made of PVC material shall be protected from direct sunlight to prevent material embrittlement.
4. Before piping, different pipe fitting materials shall be selected according to the chemical liquid used, temperature conditions and delivery head to meet the actual requirements. For example, if the temperature is above 60°C, PP pipe fitting shall be selected for installation.
5. When piping, it shall be noted that there shall be no impurities or debris left in the pipe. If necessary, clean the pipe with clean water.
6. The flange joint shall be supplemented with gasket and locked to prevent air from being sucked into the pump.
7. If metal material is employed, shockproof joint shall be installed in the pipeline at the pump inlet and outlet to prevent the flange at the inlet and outlet from being broken.
8. When the pump conveying liquid exceeds a certain height, a check valve shall be installed at the outlet to prevent pump damage caused by back pressure.
9. The safety drain valve shall be installed between the pump outlet and the first on-off valve. It is better to install a pressure gauge to detect the pressure in the pipe.
10. Avoid suction of sundries and siphon effect, please add bottom valve (Foot valve).
11. Check valve shall be installed near the pump inlet and outlet as far as possible, and T-joint shall be employed when installing pressure gauge or safety discharge valve.
12. When piping, pay attention that the pipeline shall not be forcibly twisted. After installation, check whether the pump body is distorted due to excessive force or incorrect installation method.
13. After the machine is fixed, confirm whether it is firm, and rotate the motor fan to confirm whether the motor can rotate freely.
14. Before connecting the power cord, confirm whether the selected power supply matches the motor model, and connect the over-current protection switch.
15. If it is used for dangerous chemical liquid, the pump shall be covered with a protective cover.
16. Before starting the pump motor, fill it with liquid, check whether the inlet and outlet valves are open, and do not implement idling operation.
17. After installation, confirm whether the pipeline is firm again to avoid damage caused by vibration.
18. Before starting the power supply, check whether the inlet and outlet pipelines are correctly selected. For example: whether the inlet and outlet valves are opened, whether the pipeline flow path is correct, whether the liquid in the tank is normal and whether the pipeline is damaged, etc.
19. When operating liquid in dangerous environment, it is required to wear protective clothing, face shield and safety shoes and socks.
20. Check all kinds of protection switches. For example: whether the liquid switch, the liquid level controller in the tank and the power protection switch are in the normal operation position.
21. After starting the power supply, check whether the flow at the outlet is normal. If the flow is too small, stop the power supply immediately, and then check the inlet and outlet pipelines to address the problem.

CORROSION RESISTANCE CHART

Chemical Solution Name	Concentration %	Temperature °C	Body Material			Seal Material			Rubber Material		
			FRPP	CPVC	PVDF / GFR/ETFE	Ceramic	Carbon	Sic	NBR	EPDM	VITON
H₂SO₄ Sulfuric acid	30	40	×	●	●	●	●	●	●	●	●
		60	×	●	●	●	●	●	●	●	●
		80	×	○	●	●	●	●	●	○	●
		95			●	●	●	●			●
	60	40	×	●	●	●	●	●		●	●
		60	×	●	●	●	●	●		●	●
		80	×	△	●	●	●	●		○	●
		95			●	●	●	●			●
	98	40	×	○	●	●	●	●			●
		60	×	△	○	●	●	●			●
		80			●	●	●	●			●
		95			●	●	●	●			●
HCL Hydrochloric acid	25	40	●	●	●	○	●	●		●	●
		60	○	○	●	●	●	●		●	●
		80			●	●	●	●		○	●
	35	40	●	●	●	●	●	●		○	○
		60	○	○	●	●	●	●			
		80			●	●	●	●			
CrO₃ Chromic acid	20	40	×	○	●	●	●	●			●
		60		△	●	●	●	●			●
		80			●	●	●	●			○
HNO₃ Nitric acid	30	40	○	○	●	●	○	●			●
		60	×	△	●	●	○	●			●
		80	×	×	●	●	○	●			●
	50	40	△	○	●	●	○	●			●
		60	×	△	●	●	○	●			●
		80			●	●	○	●			●
H₃PO₄ Phosphoric acid	10	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	○	●	●
		80	○	○	●	●	●	●		○	●
	50	40	●	●	●	●	●	●		●	●
		60	●	○	●	●	●	●		○	●
		80	△	△	●	○	●	●		○	●
NaOCl Sodium Hypochlorite	10	40	○	●	●	●	○	●			●
		60	○	○	●	●	△	●			●
		80	△		●	●	×	●			●
CH₃COOH Acetic acid	20	40	●	●	●	●	●	●			×
		60	●	○	●	●	●	●			×
		80	○	△	●	●	●	●			×
HF Hydrofluoric	30	40	×	○	●	×	○	●		●	
		60	×	△	●	×	○	●		●	
		80	×	×	●	×	○	●		○	
HNO₃ + HCl Aqua regia	3:1	40	×	△	●	●	×	●	×		○
		60	×	×	●	○	×	●	×		○
		80	×	×	●	●	×	●	×		●
H₂O₂ Hydrogen Peroxide	20	40	●	●	●	●	×	●	×		●
		60	●	○	●	●	×	●	×		●
		80	○	○	●	●	×	●	×		●
NaOH Sodium Hydroxide	45	40	●	○	●	●	×	●	●	●	○
		60	○	△	○	●	×	●	●	●	△
		80	○	×	×	●	×	●	○	○	△
FeCl₃ Ferric chloride	40	40	●	●	●	●	●	●	●	●	●
		60	●	●	●	●	●	●	○	●	●
		80	●	●	●	●	●	●	●	●	●
Cu(CN)₂ Copper Cyanide		40	●	●	●	△	●	●	●		●
		60	●	●	●	△	●	●	●		●
ZnCl₂ Zinc Chloride		40	●	●	●	●	●	●	●		●
		60	●	●	●	●	●	●	●		●
NiSO₄ Nickel Sulfate		40	●	●	●	●	●	●	●		●
		60	●	●	●	●	●	●	●		●

● : Excellent ○ : Good △ : Not Good × : Bad



A new level of pump performance.

Expanded field of application owing
to improved corrosion resistance.

