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2026.08.12



QHB Series Acid & Alkali Resistant Plastic Self-priming Centrifugal Pump



GUANGDONG QEEHUA INDUSTRY EQUIPMENT CO., LTD.

中國原
企華夢

Chinese Pump,
Qeehua Dream



Super Self-priming Special Pump For Wastewater

Strong self-priming function
Long service life and strong
Acid and alkali resistance

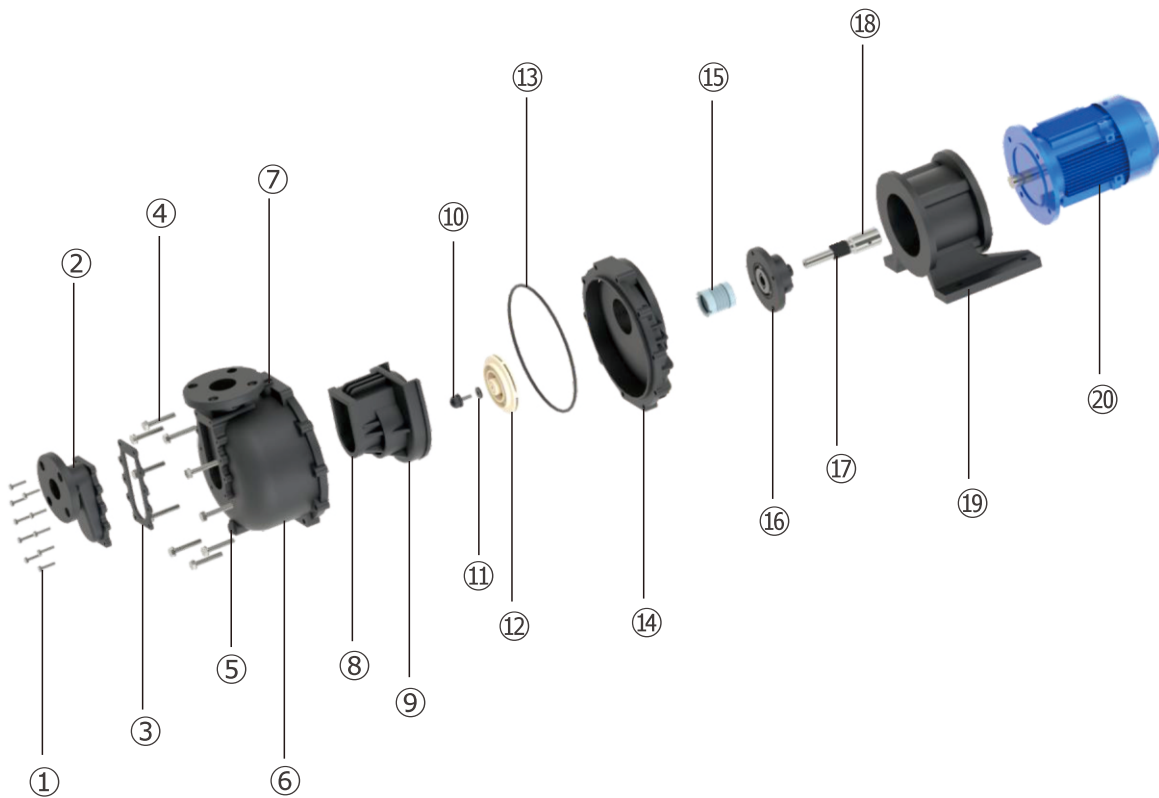


Series Model 50Hz 60Hz

Main Material	Model	Max.Flow (L/min)							Max.Head (m)							Parameters Apply to Specific Gravity Range	
		200	400	600	800	1000	1200	1400	5	10	15	20	25	30	35	40	
GFRPP /CFRPP /PVDF/CFRTEE	QHB-40002	188 170							7 6							<1.2	
	QHB-40012	216 208							9 8								
	QHB-40022	308 303							16 16								
	QHB-40032	355 342							19 18								
	QHB-50032	488 482							17 18								
	QHB-50052	507 538							24 27								
	QHB-75052	935 928							22 22								
	QHB-75072	970 950							27 29								
	QHB-75102	1007 1002							28 35								

- 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.

QHB Series Exploded View



- ①Self-Priming Cylinder Screw

②Self-Priming Cylinder

③Self-Priming Cylinder Gasket

④Front Cover Screw

⑤Discharge Screw

⑥Front Cover

⑦Water Injection Screw

⑧Check Valve

⑨Middle Cover

⑩Impeller Screw
- ⑪ Impeller Sealing Flat Washer

⑫ Impeller

⑬ Cover O-Ring

⑭ Rear Cover

* ⑮ Front Shaft Seal

* ⑯ Rear Shaft Seal Assembly

⑰ Shaft Sleeve

⑱ Shaft

⑲ Connection Bracket

⑳ Motor

· Note: Items marked with “*” are Wearing Parts.

I QHB 1HP-10HP

Self-priming Acid And Alkali Resistant Centrifugal Pump

Product Feature

- Wide Range of Application: The specific gravity of the fluid can reach 2.0, and can be used in acid and alkali liquid environments with iron impurities or particulate matter below 2mm;
- Strong Self-Suction Power: Super self-priming, with a suction lift of 5 meters in 2 minutes;
- Integrated Injection Molding: The inlet flange and the self-priming cylinder are integrally molded, and the outlet flange and the front cover are integrally molded without any hidden dangers of leakage at welding points;

The pump head material is available in GFRPP and PVDF.



Product Specification List

Model	Inlet & Outlet Caliber (mm)	Max.Flow/50Hz		Max.Flow/60Hz		Max.Head (m)		Priming Head (m)	Motive Force			Weight (KG)
		(L/min)	(m³/h)	(L/min)	(m³/h)	50Hz	60Hz		Poles (p)	HP	KW	
QHB-40002	40/40	188	11.3	170	10.2	7	6	4	2	1/2	0.37	20.6
QHB-40012	40/40	216	13	208	12.5	9	8	5	2	1	0.75	23.4
QHB-40022	40/40	308	18.5	303	18.2	16	16	5	2	2	1.5	29
QHB-40032	40/40	355	21.3	342	20.5	19	18	5	2	3	2.2	30.5
QHB-50032	50/50	488	29.3	482	28.9	17	18	5	2	3	2.2	30.8
QHB-50052	50/50	507	30.4	538	32.3	24	27	5	2	5	4	42.3
QHB-75052	75/75	935	56.1	928	55.7	22	22	5	2	5	4	44.1
QHB-75072	75/75	970	58.2	950	57	27	29	5	2	7.5	5.5	64.1
QHB-75102	75/75	1007	60.4	1002	60.1	28	35	5	2	10	7.5	68.6

- Medium Temperature: 0℃~+90℃, Medium Specific Gravity: 1-2, Working Environment Temperature: -5℃~+50℃, 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℃. 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.

QHB - 40002/40012/40022/40032/50032 50052/75052/75072/75102

- Max. Flow: 170-1007 L/min
- Max. Head: 6-35 m

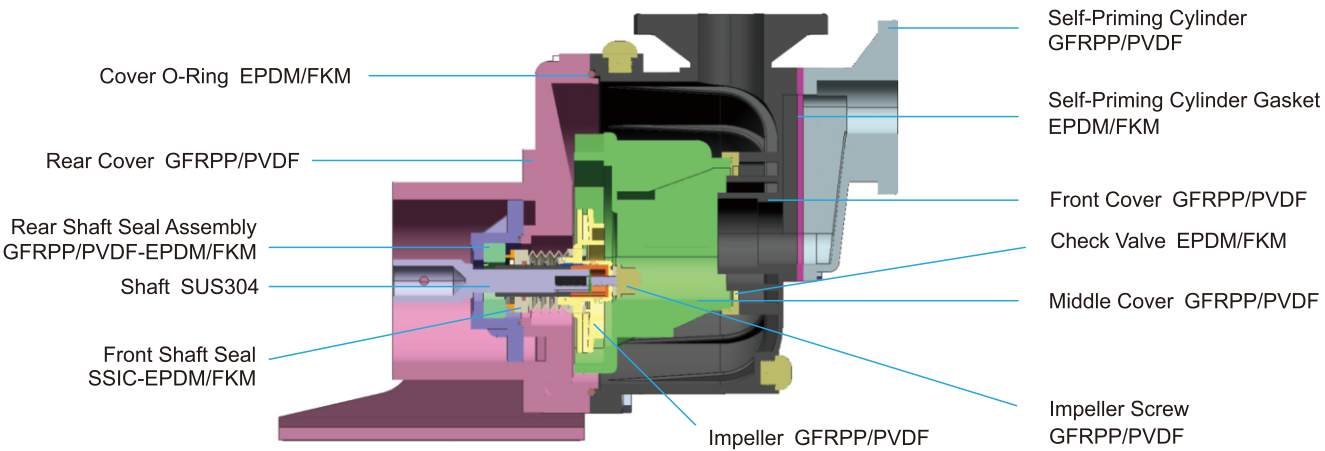


Model Description

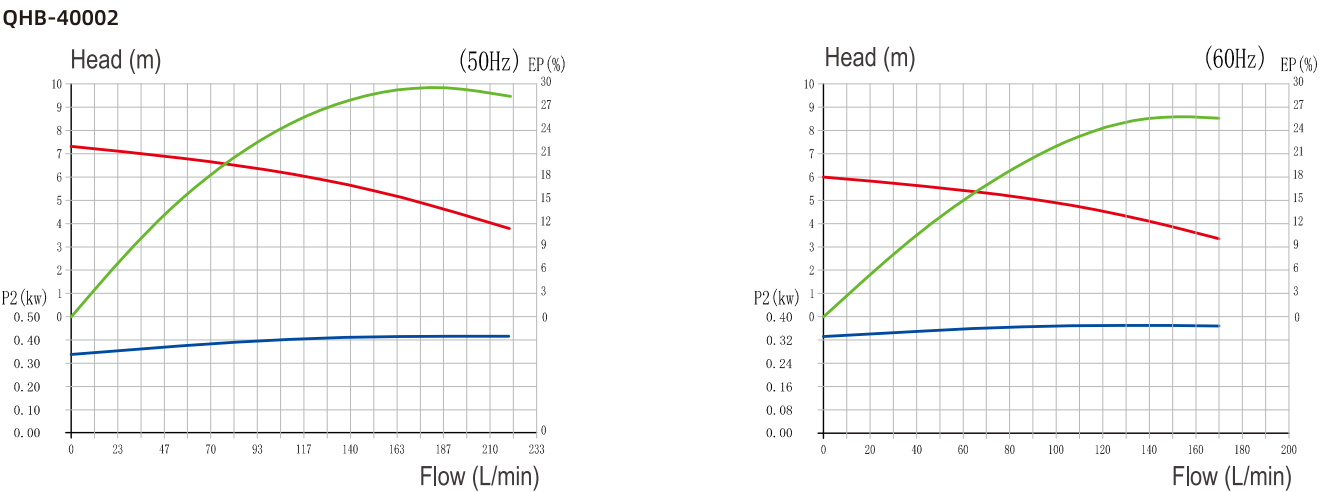
QHB - G - 40 - 02 - 2 - E - B - SSH - 5 - V38 - A - A - A - B - S
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮

- ① Model No.: QHB
- ② Material of Pump Head: G-GFRPP; P-PVDF
- ③ Inlet and Outlet Caliber: 40-40mm; 50-50mm; 75-75mm
- ④ Power: 01-1HP; 02-2HP; 03-3HP; 05-5HP; 07-7.5 HP; 10-10HP
- ⑤ Poles: 2-2P; 4-4P
- ⑥ Sealing Material: E-EPDM; V-FKM
- ⑦ A-With Check Valve;B-W/O check valve
- ⑧ Mechanical Seal Specification: SSH-front and rear seal ring SSIC
- ⑨ Frequency: 5-50HZ; 6-60HZ
- ⑩ Voltage: V38-3Ø/380V; V41-3Ø/415V; V44-3Ø/440V; V48-3Ø/480V; V66-3Ø/660V; V32-3Ø/220V; V22-1Ø/220v
- ⑪ 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; 1-2.0
- ⑫ Motor Brand: A-ABLE; G-Kingdom; Q-Other
- ⑬ 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
- ⑭ Motor protection level: A-IP54; B-IP55; C-IP56; D-IP65
- ⑮ S-Standard;N-Non-Standard

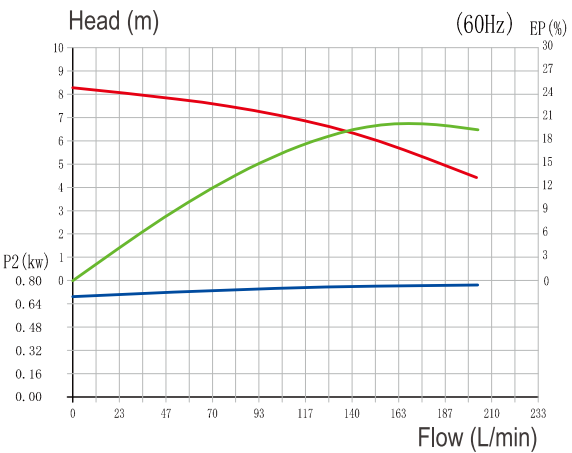
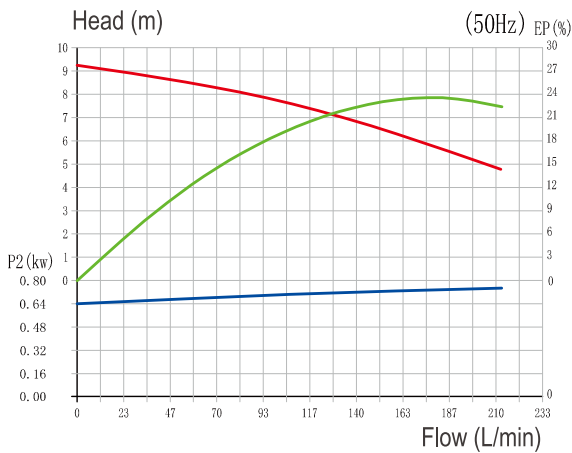
Structure Drawing And Material



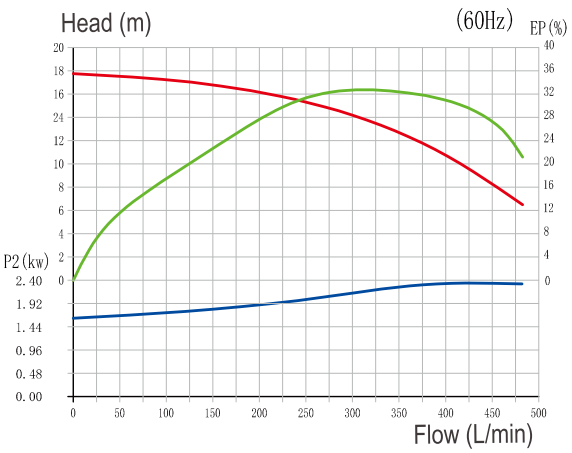
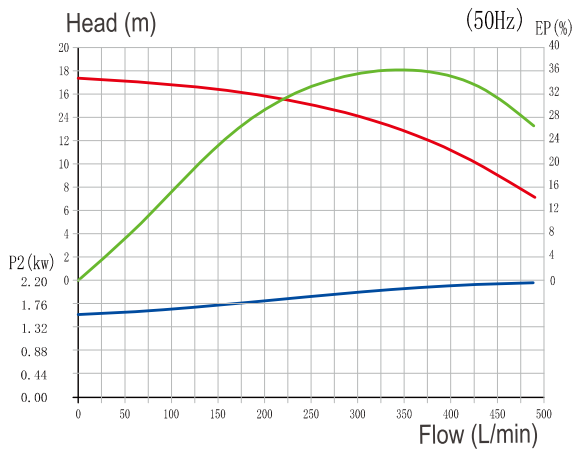
Performance Curve



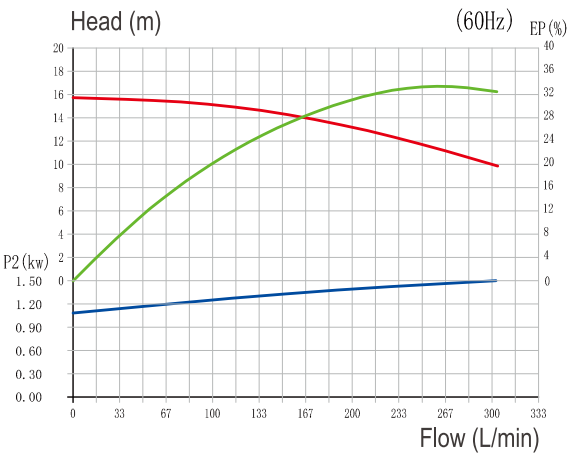
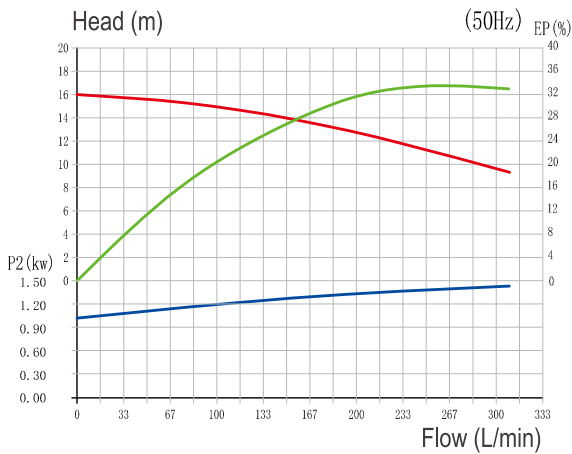
QHB-40012



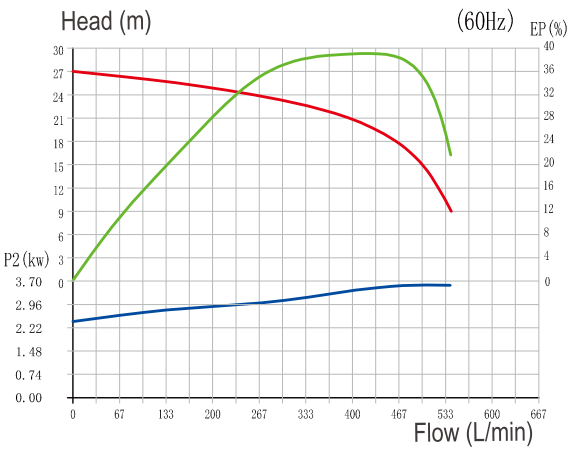
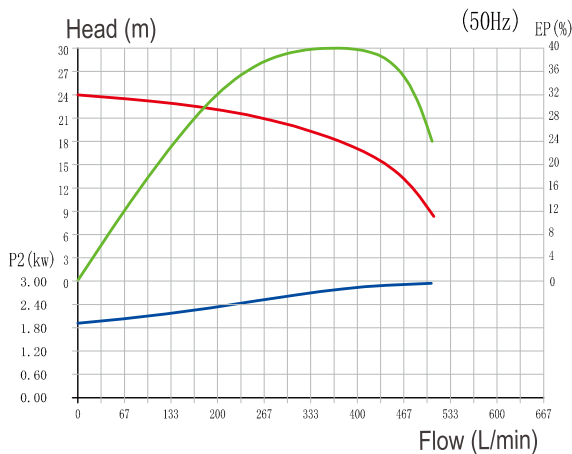
QHB-50032



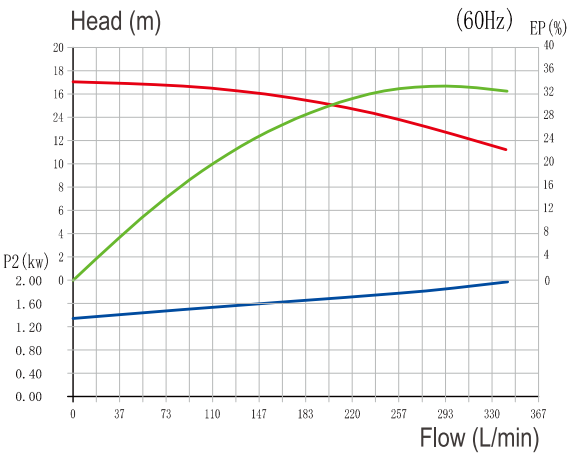
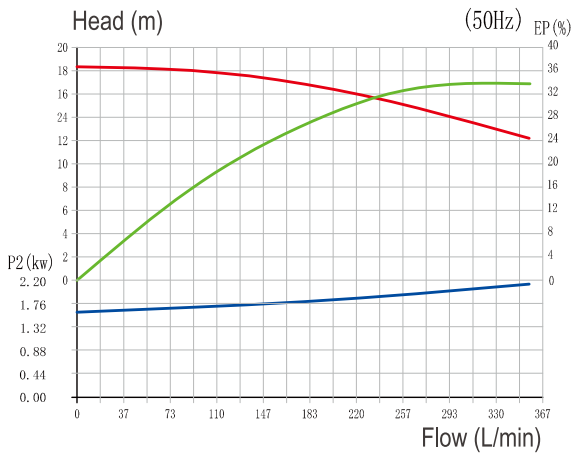
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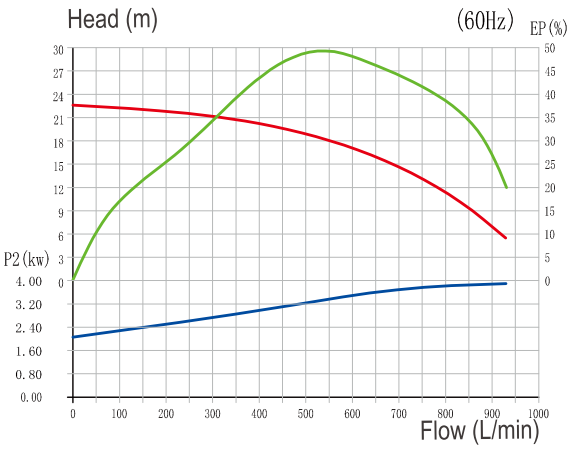
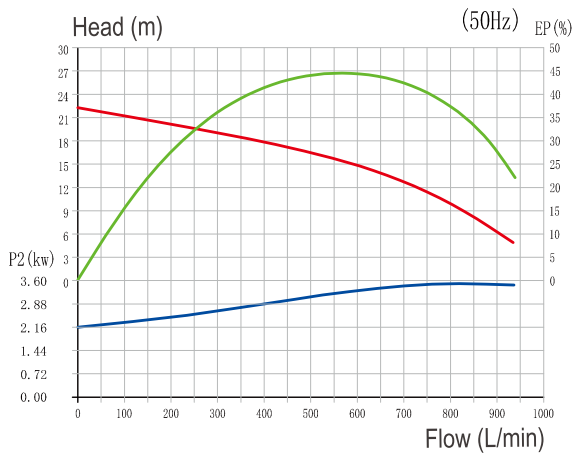
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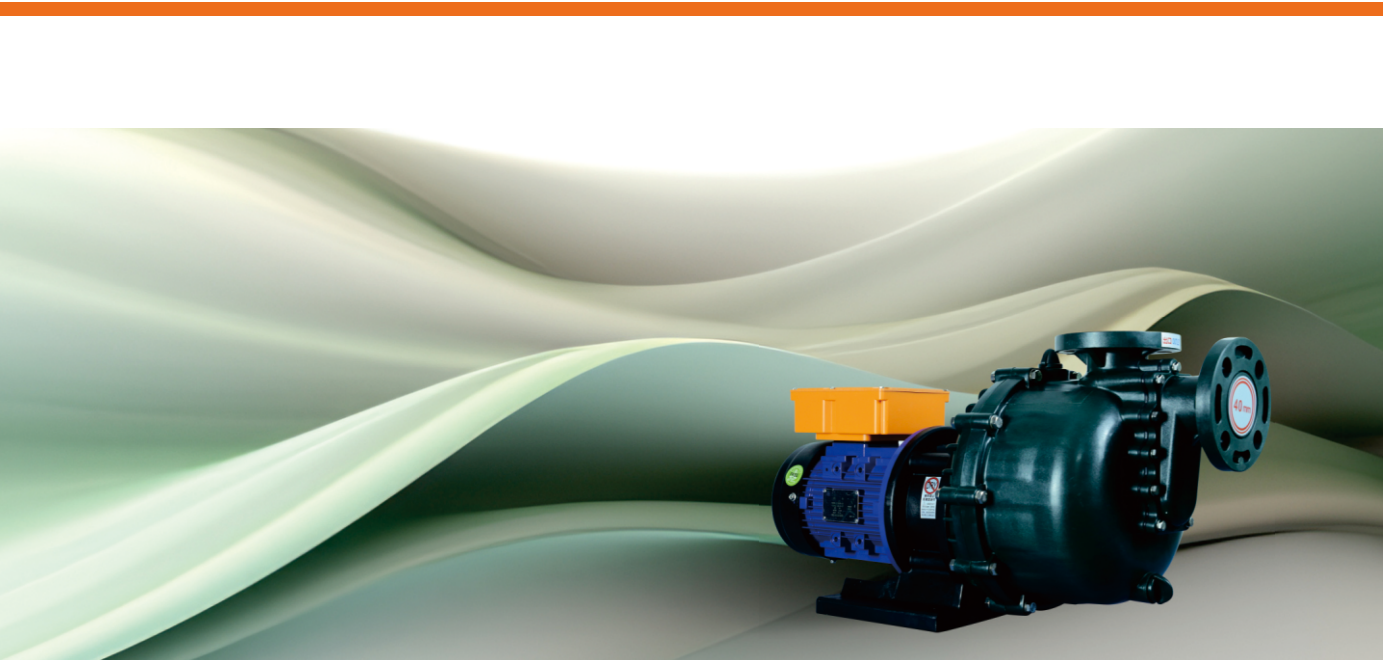


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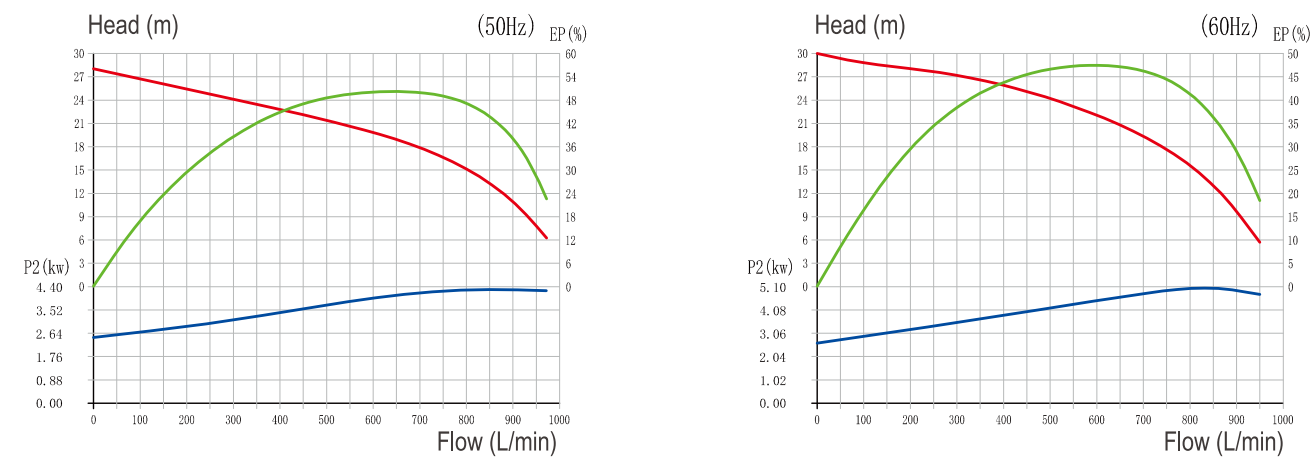


QHB-75052

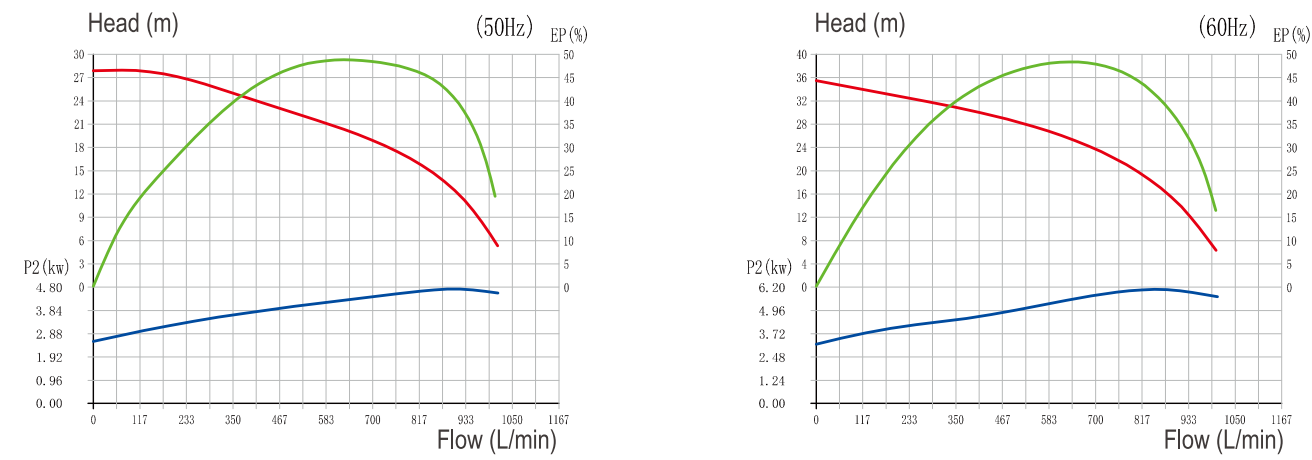




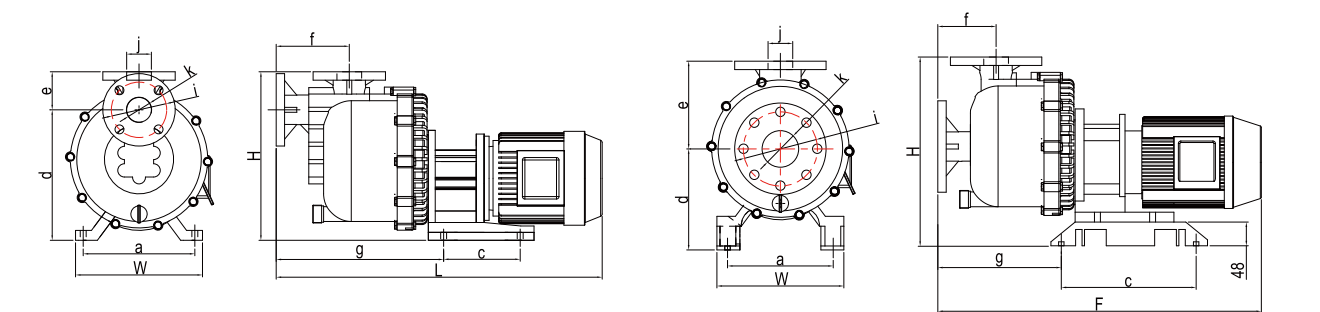
QHB-75072



QHB-75102



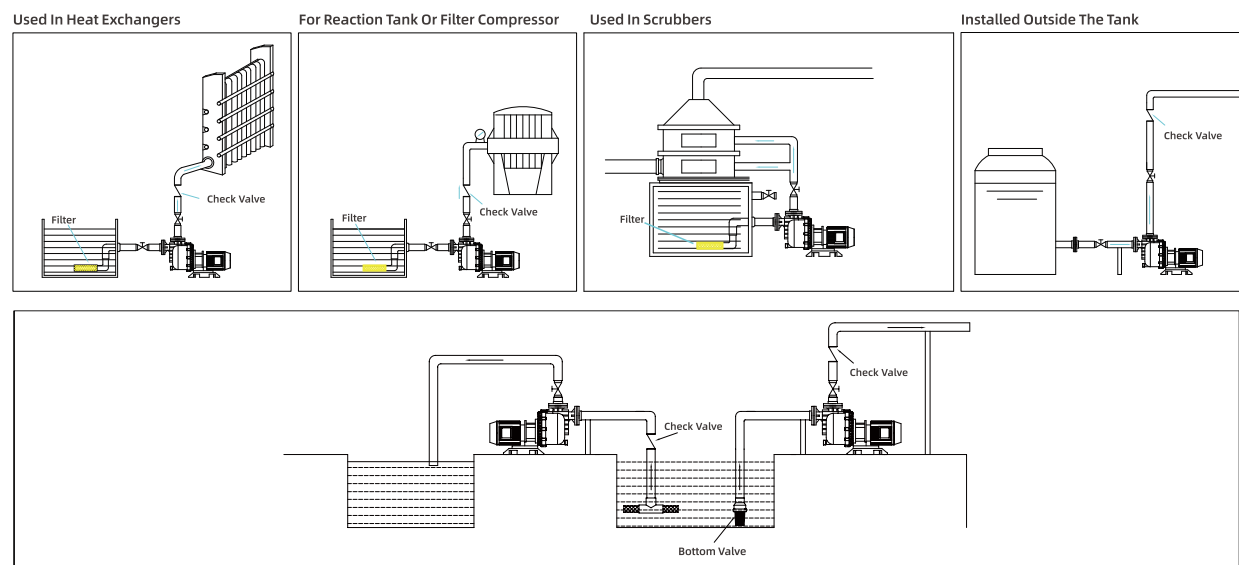
Overall Dimensions



Model	L	H	W	a	c	d	e	f	g	i	j	k
40002	649	328	252	201	142	252	76	149	331	Ø103.0	Ø45.0	Ø51.0
40012	649	328	252	201	142	252	76	149	331	Ø103.0	Ø45.0	Ø51.0
40022	695	328	252	201	142	252	76	149	331	Ø103.0	Ø45.0	Ø51.0
40032	695	330	252	201	142	255	76	149	332	Ø117.0	Ø48.0	Ø51.0
50032	695	330	252	201	142	255	75	149	332	Ø117.0	Ø50.0	Ø50
50052	776	376	255	208	282	301	77	148	262	Ø117.0	Ø50.0	Ø50
75052	798	386	251	202	282	198.5	187.5	111.5	291	Ø150.0	Ø75.0	Ø75.0
75072	866	388	262	219	282	209	179	111.5	494.5	Ø150.0	Ø75.0	Ø75.0
750102	883.5	382	265	219	282	203	179	111	522	Ø150.0	Ø75.0	Ø75.0

● Note: This is the dimensions of GFRPP material.

Installation Instruction



Expert in chemical pump industry



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VISION

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.

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to every customer



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