

CHEMICAL PUMP & FILTER  
WITH ACID-ALKALI RESISTANCE  
EXPERT IN R&D AND MANUFACTURING

# Self-priming Centrifugal Pump

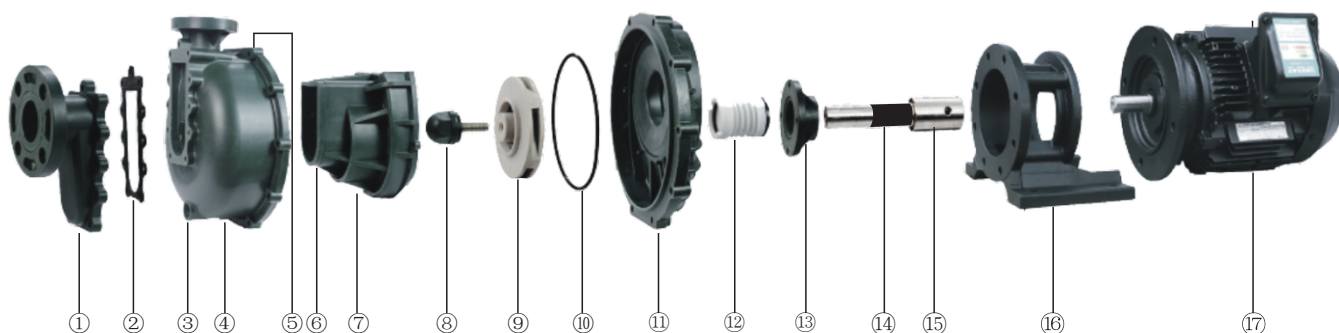
Model : QHB



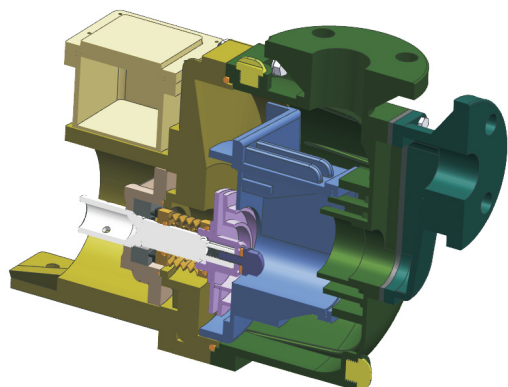
Workshop & Warehouse



# Self-priming centrifugal pump [QHB series]



- |                                |                    |
|--------------------------------|--------------------|
| ① Self-priming cylinder        | ⑩ O-Ring           |
| ② Self-priming cylinder gasket | ⑪ Rear cover       |
| ③ Drain screw                  | ⑫ Front shaft seal |
| ④ Front cover                  | ⑬ Rear shaft seal  |
| ⑤ Water injection screw        | ⑭ Shaft sleeve     |
| ⑥ Check valve                  | ⑮ Shaft            |
| ⑦ Medium closure               | ⑯ Frame            |
| ⑧ Impeller screw               | ⑰ Motor            |
| ⑨ Impeller                     |                    |



## Model description

# QHB-40-02-2-E-B-L-SSH-5

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Model No.: QHB
- ② Outlet and inlet diameter: 40-40mm 50-50mm 75-75mm
- ③ Horsepower: 00-1/2HP 01-1 HP 02-2HP 03-3HP 05-5HP
- ④ Number of poles: 2:2P 4:4P
- ⑤ Rubber material: E-EPDM V-VITON(FKM)
- ⑥ A- with tongue B- without tongue
- ⑦ L- low head; H- high head
- ⑧ Shaft seal specification: SSH front and rear shaft seal SSIC
- ⑨ Frequency: 5-50H 6-60HZ

## Product characteristics

- Corrosion resistance: GFRPP and PVDF special materials are used, which can withstand most acid and alkali solutions.
- It has strong self-priming force and equipped with anti-idling device.
- Applicable temperature: GFRPP - below 80 °C, PVDF - below 100 °C. The applicable temperature shall be determined according to different chemical properties.

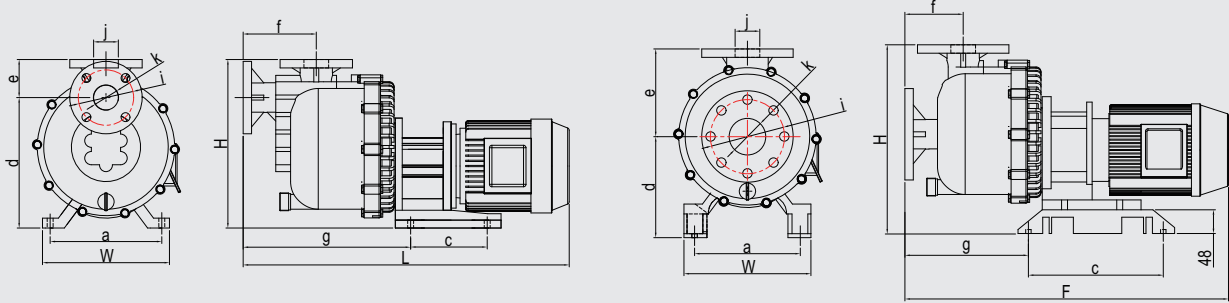
## Product superiority

- The pump head is made of GFRPP and PVDF materials. The inlet flange and the self-priming cylinder are injection molded as an integration, without any welding points and leakage;
- The outlet flange and the front cover are injection molded as an integration without any welding points, which strengthens the durability of the product and prevents leakage
- It can be used in the liquid environment with particles;
- The motor is equipped with anti-idling device, which can prevent the pump head from being damaged due to pump idling in case of lack of liquid;
- The motor adopts Toshiba motor of international brand, with stable performance and ultra-quiet operation.

## Product specification

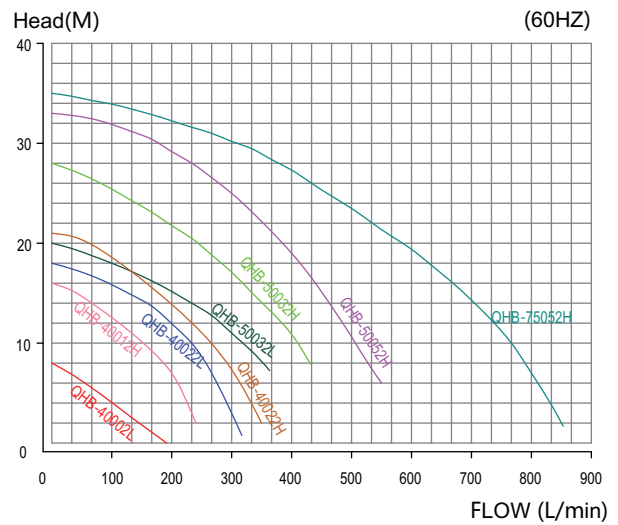
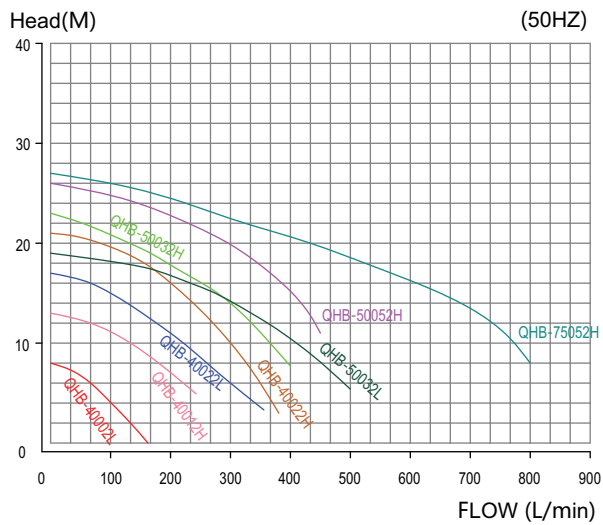
Model	Inlet & Outlet Diameter (mm)	Max.Head (m)		Max.Capacity (L/min)		Power			Weight (kg)
		50HZ	60HZ	50HZ	60HZ	Phase	Pole	Horsepower	
						∅	p	HP	
QHB-40002L	40/40	7	7.5	185	200	3	2	1/2	19.8
QHB-40012H	40/40	13	16	240	240	3	2	1	20
QHB-40022L	40/40	17	18	360	320	3	2	2	27.5
QHB-40022H	40/40	21	21	380	350	3	2	2	25
QHB-50032L	50/50	19	20	500	360	3	2	3	30
QHB-50032H	50/50	23	28	400	430	3	2	3	27.4
QHB-50052H	50/50	26	33	450	550	3	2	5	40
QHB-75052H	75/75	27	35	800	860	3	2	5	48
QHB-7507.52L	75/75	30	35	900	960	3	2	7.5	59
QHB-750102L	75/75	32	39	1000	1040	3	2	10	65

## Size specification



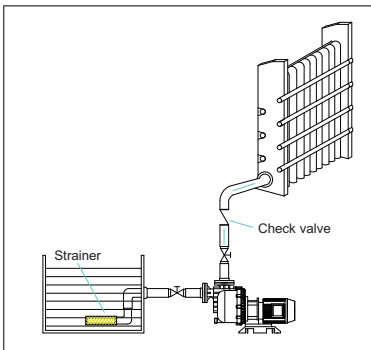
Model	L	H	W	a	c	d	e	f	g	I	j	k
QHB-40002L	627	332	250	203	140	252	80	148	330	∅105	∅48.6	∅51.5
QHB-40012H	627	332	250	203	140	252	80	148	330	∅105	∅48.6	∅51.5
QHB-40022L	667	332	250	203	140	252	80	148	330	∅105	∅48.6	∅51.5
QHB-40022H	667	332	250	203	140	252	80	148	330	∅105	∅48.6	∅51.5
QHB-50032L	683	332	250	203	140	252	80	150	324	∅115	∅53	∅51.5
QHB-50032H	683	332	250	203	140	252	80	150	324	∅115	∅53	∅51.5
QHB-50052H	738	377	256	213	282	299	78	150	266	∅115	∅53	∅51.5
QHB-75052H	762	390	258	215	282	206	184	110	296	∅150	∅74.5	∅74.5

## Performance curve

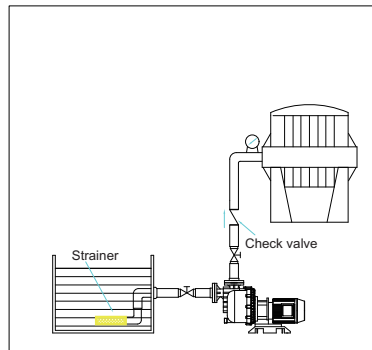


## Installation diagram

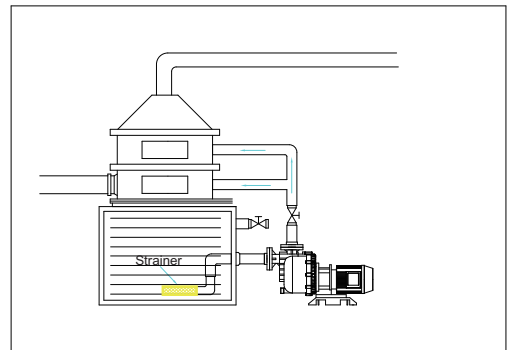
Used in heat exchanger



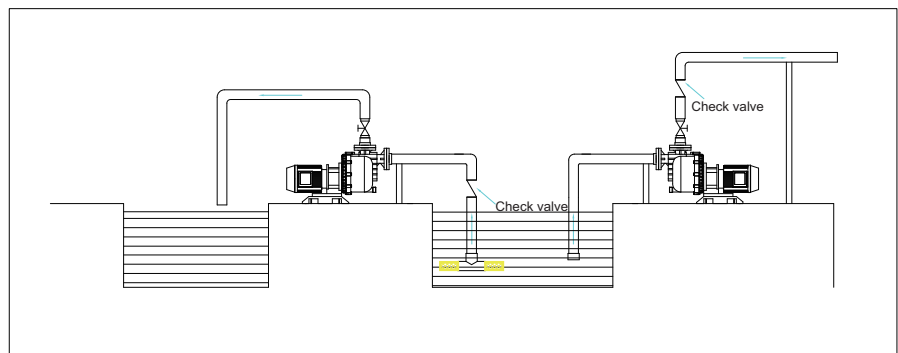
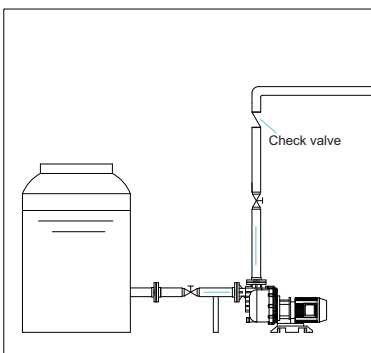
Used in reaction tank or filter compressor



Used in waste gas cleaning tower



Installed outside the barrel



## Precautions for installation and operation

- 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.
- 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.
- The pump made of PVC material shall be protected from direct sunlight to prevent material embrittlement.
- 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.
- 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.
- The flange joint shall be supplemented with gasket and locked to prevent air from being sucked into the pump.
- 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.
- 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.
- 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.
- Avoid suction of sundries and siphon effect, please add bottom valve (Ford valve).
- 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.
- 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.
- After the machine is fixed, confirm whether it is firm, and rotate the motor fan to confirm whether the motor can rotate freely.
- Before connecting the power cord, confirm whether the selected power supply matches the motor model, and connect the over-current protection switch.
- If it is used for dangerous chemical liquid, the pump shall be covered with a protective cover.
- Before starting the pump motor, fill it with liquid, check whether the inlet and outlet valves are open, and do not implement idling operation.
- After installation, confirm whether the pipeline is firm again to avoid damage caused by vibration.
- 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.
- When operating liquid in dangerous environment, it is required to wear protective clothing, face shield and safety shoes and socks.
- 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.
- 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.

## 1. High cost performance:

Independent production, stable quality and controllable cost.

## 2. Excellent product performance:

Corrosion resistance, idling resistance, no leakage, low noise, high efficiency, surface corrosion resistance, durable.

## 3. Advanced product technology:

Cooperate with colleges and universities to carry out production, learning and research activities, master cutting-edge technology, and constantly make breakthroughs in the direction of low energy consumption and high efficiency. At present, the unique technology includes: 4P motor magnetic pump addresses the problem of rapid temperature rise of liquid medicine, and intelligent monitoring addresses the problem of idling.

## 4. Continuous upgrading of materials:

Imported CFRETFE material is resistant to strong acid, strong alkali and high temperature.

## 5. Rich product categories:

It can be upgraded to replace all kinds of old equipment.

## 6. Three to five year extended warranty:

Make customers free from worry and labor cost.

## 7. Professional and efficient service:

Before sales, a strong technical team can help customers select models accurately and reduce waste; after sales, tailor training programs for customers to reduce human losses; 4-hour quick response and efficient service!

## 8. Strong qualification:


Patented technology, CE, SGS quality certification of European Union, government designated supplier

## 9. Flexible cooperation mode:

Welcome OEM customization and regional agents.

## 10. Unique family culture:

Stable and happy team, long-term and reliable cooperation.



**Why  
choose  
Qihua?**



The enterprise has been engaged in independent research and development since 2012. At present, it has possessed ten utility model patents, one appearance patent and two CE certificates. In addition, it is applying for three utility model patents and two invention patents, and plans to apply for more than 20 kinds of patents.



## PART OF OUR SUPPLIERS

Your contribution is indispensable to the high quality products of Qeehua



## PART OF OUR CUSTOMERS

Think what the customer thinks, and be grateful to every customer



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