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

BTS
ENGINEERING

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+38 095 656-37-57

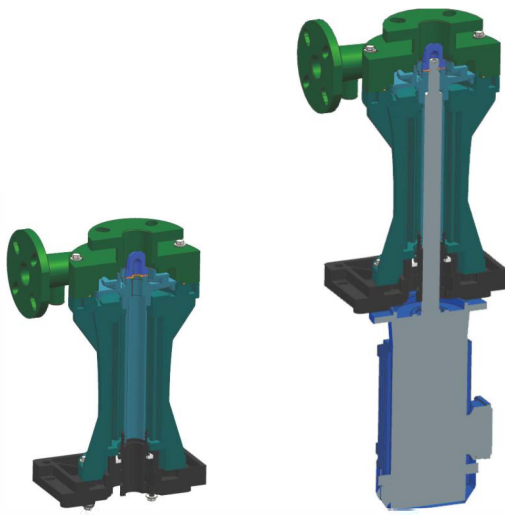
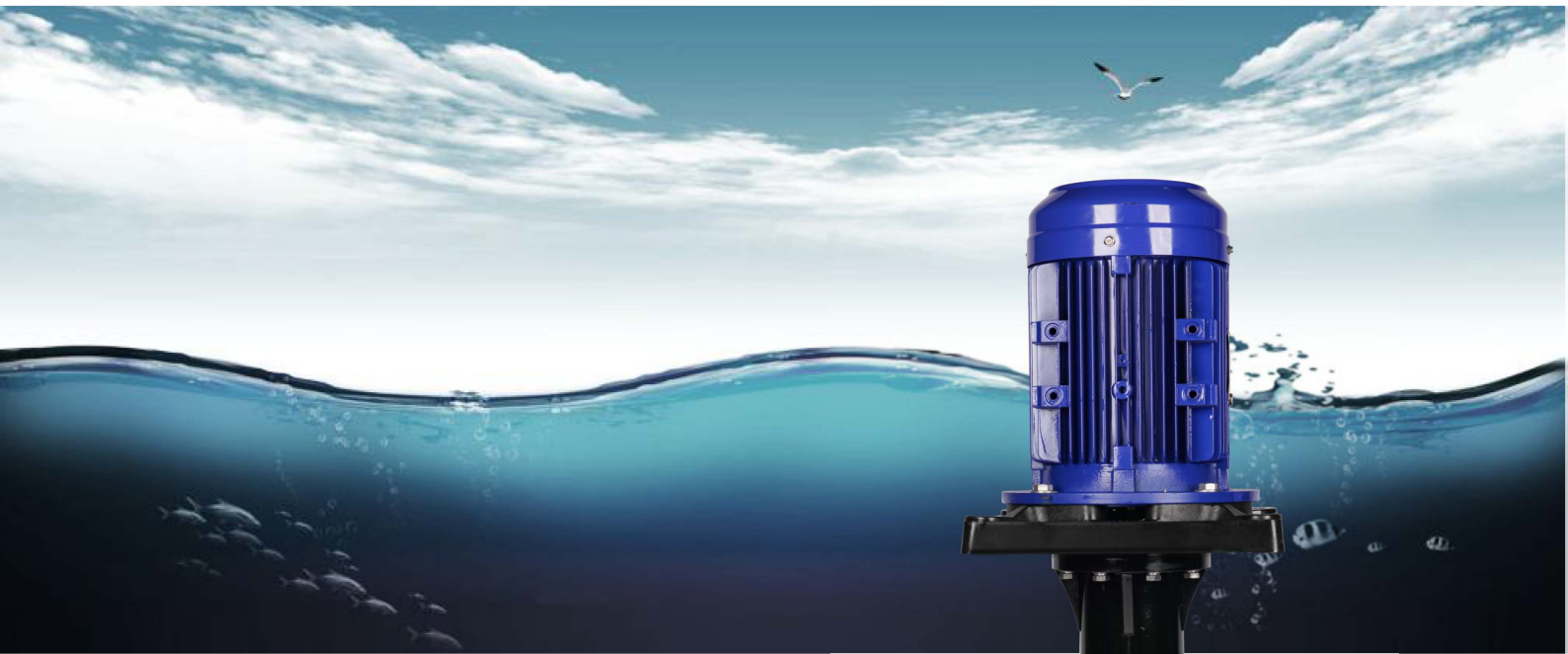
+38 067 360-71-01

+38 063 362-12-31

info@prom-nasos.pro

Vertical pump

Model: QHD



Outside-tank vertical pump

[QHD series]

Product specification

QHD series							
Model	Inlet and outlet diameter (mm) Inlet / outlet	Horse power	Max.Head (M)		Max.Capacity (L/min)		Weight (kg)
			50Hz	60Hz	50Hz	60Hz	
QHD-40SK-1	50/40	1	11.5	13.5	237	233	24
QHD-40SK-2	50/40	2	17.1	19.8	312	296	30
QHD-40SK-3	50/40	3	19.8	24.2	331	325	33
QHD-50SK-3	65/50	3	17.3	22.1	555	497	36
QHD-50SK-5	65/50	5	24.7	25.5	646	655	46
QHD-65SK-5	80/65	5	22.7	23.8	759	664	46
QHD-65SK-7.5	80/65	7.5	27.2	28.7	880	813	59
QHD-65SK-10	80/65	10	33.3	39.2	875	884	64
QHD-100SK-7.5	100/100	7.5	18	17	1208	1019	64
QHD-100SK-10	100/100	10	24.4	23.6	1421	1216	68
QHD-100SK-15	100/100	15	38.3	38	1544	1733	112



Model description

QHD--65--SK--7.5--5--V--F
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Model No.: QHD
- ② Outlet diameter: 40-1.5"; 50-2" ; 65-2.5"; 100-4"
- ③ S.G: SK-1.1 ; SP-1.4
- ④ Horsepower: 1-1 HP;2-2HP;3-3HP;5-5HP;7.5-7.5HP;10-10HP
15-15HP; 20-20HP
- ⑤ Frequency: 5-50Hz ;6-60Hz
- ⑥ O-Ring: E-EPDM ;V-VITON(FKM)
- ⑦ Pump material: F-GFRPP; C-CFRPP; P-PVDF



Product characteristics:

1. GFRPP、CFRPP、PVDF plastic steel are used for injection molding, with strong acid and alkali resistance;
2. It can be used idling and in combination with the filter connection;
3. It is suitable for various acid-alkali liquid circulation, spray washing equipment, exhaust gas tower, etching machine, waste water treatment and various special

Product superiority

1. The inlet and outlet flange and the front cover are injection molded, which can reduce the probability of leakage;
2. The convex point structure and flat gasket seal ring are used at the impeller nut and impeller seal, which can ensure the excellent effect of sealing;
3. The vibration of impeller is less than 2.0MM/S, and the mould is employed for integral injection molding, with long service life;
4. The distance between impeller and front cover and back cover is precise to improve efficiency and reduce noise;
5. High precision and high anticorrosion dry shaft seal is adopted to prevent leakage of liquid and acid alkali gas;
6. Unlimited idling in case of liquid shortage

Vertical pumps performance advantage exploded view

The inlet and outlet flange and the front cover adopt an integrated molding process to avoid the leakage caused by traditional welding.

The impeller adopts an integrated molding process, which does not fall off under long-term high-pressure working conditions.

Impeller vibration is lower than 2.0mm/s, which improves product life.

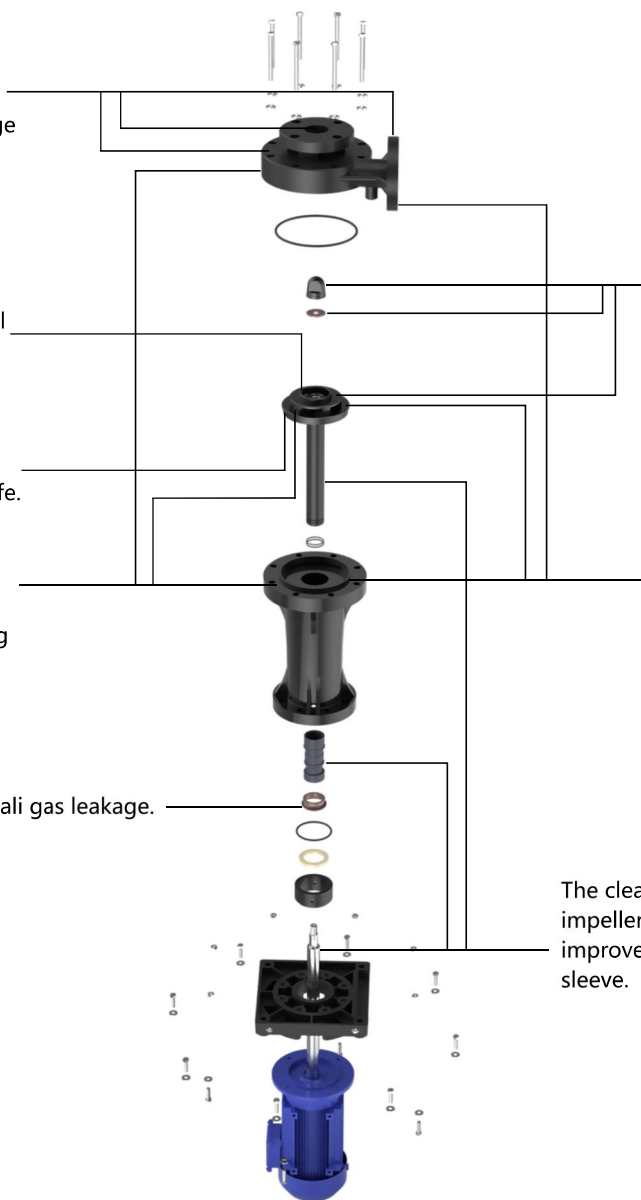
Possesses diversified production capacity of pump head materials to adapt to different liquids working conditions.

Dry shaft seal prevents acid and alkali gas leakage.

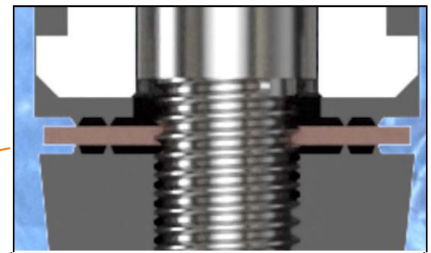
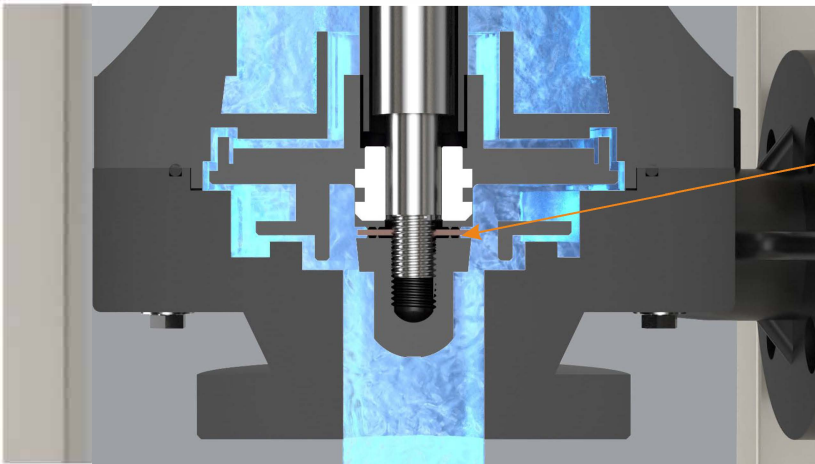
Multi-level sealing structure design to ensure excellent sealing effect.

The gap between the impeller and the front and rear cover is precise to 1.0-1.5mm, which improves efficiency and reduces noise.

The clearance between shaft sleeve and impeller rod is less than 0.03mm, which improves the life of liquid seal and shaft sleeve.

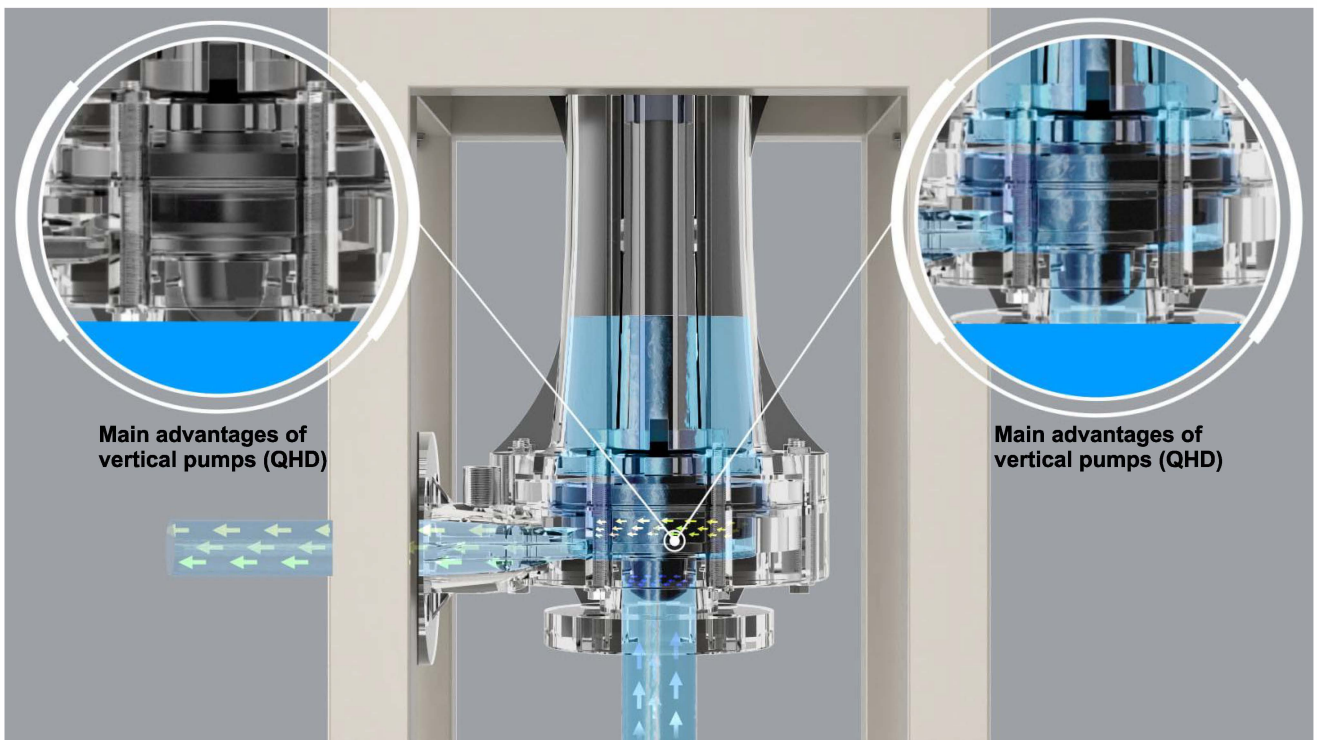


Let's make the world love Chinese pumps!



Patented technology:

Multi-level sealing structure design to ensure excellent sealing effect.

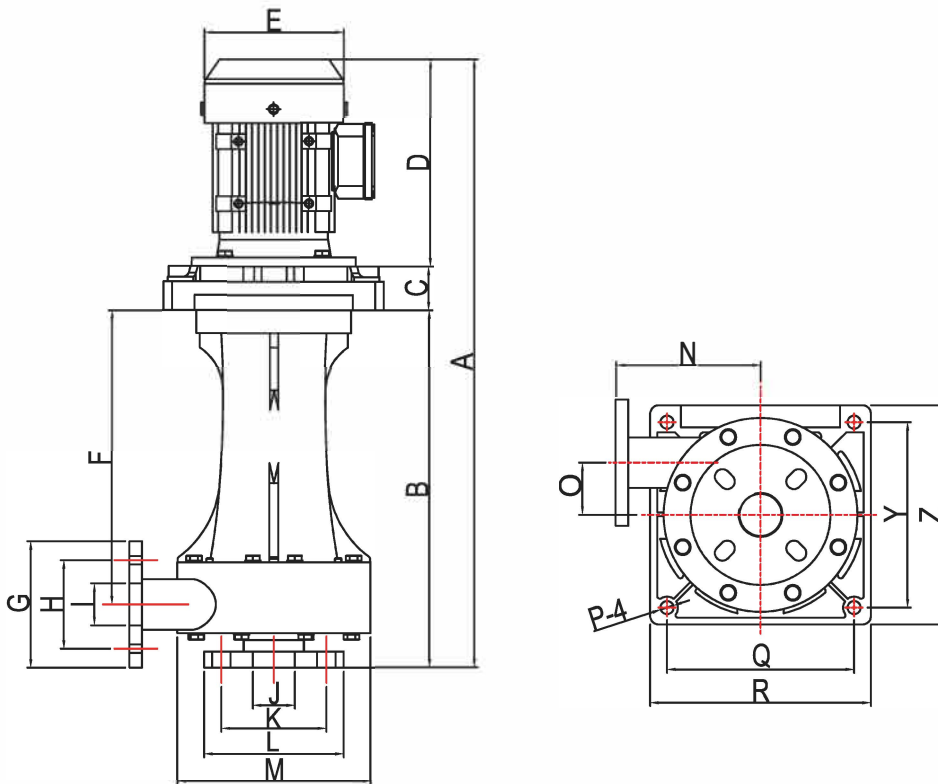


Main advantages of vertical pumps (QHD)

Main advantages of vertical pumps (QHD)

The pump can run normally with or without liquid

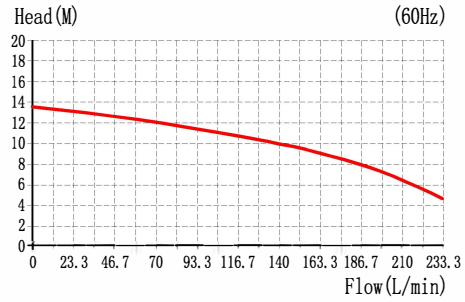
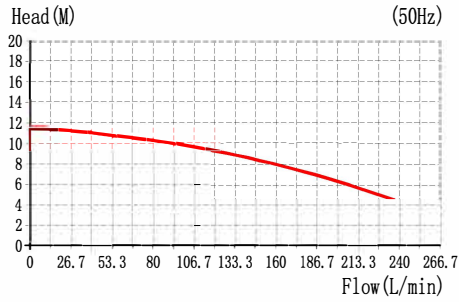
Size specification



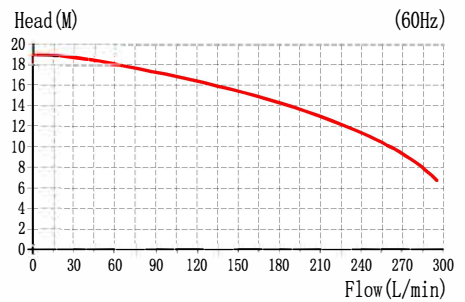
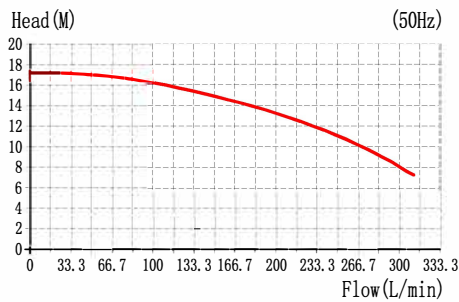
Model	A	B	C	D	E	F	G	H	I	J
QHD-40SK-1	714	423	53	238	Ø156	356	Ø151	Ø104	Ø36	Ø50
QHD-40SK-2	744	423	53	268	Ø175	356	Ø151	Ø104	Ø36	Ø50
QHD-40SK-3	744	423	53	268	Ø175	356	Ø151	Ø104	Ø36	Ø50
QHD-50SK-3	744	423	53	268	Ø175	356	Ø153	Ø117	Ø50	Ø67
QHD-50SK-5	809	426	53	330	Ø219	353	Ø153	Ø117	Ø50	Ø67
QHD-65SK-5	809	426	53	330	Ø219	353	Ø175	Ø130	Ø65	Ø75
QHD-65SK-7.5	852	426	53	373	Ø234	352.5	Ø175	Ø130	Ø65	Ø75
QHD-65SK-10	892	426	53	413	Ø234	352.5	Ø175	Ø130	Ø65	Ø75
QHD-100SK-7.5	862	436	53	373	Ø234	360	Ø208	Ø174	Ø97	Ø101
QHD-100SK-10	902	436	53	413	Ø234	360	Ø208	Ø174	Ø97	Ø101
QHD-100SK-15	957	436	53	468	Ø266	360	Ø208	Ø174	Ø97	Ø101

Model	K	L	M	N	O	P	Q	R	Y	Z
QHD-40SK-1	Ø122	Ø155	Ø230	170	65	Ø15	220	264	220	264
QHD-40SK-2	Ø122	Ø155	Ø230	170	65	Ø15	220	264	220	264
QHD-40SK-3	Ø122	Ø155	Ø230	170	65	Ø15	220	264	220	264
QHD-50SK-3	Ø135	Ø175	Ø230	170	65	Ø15	220	264	220	264
QHD-50SK-5	Ø135	Ø175	Ø260	200	69	Ø15	220	264	220	264
QHD-65SK-5	Ø145	Ø188	Ø260	200	69	Ø15	220	264	220	264
QHD-65SK-7.5	Ø145	Ø188	Ø260	200	67	Ø18	300	350	300	350
QHD-65SK-10	Ø145	Ø188	Ø260	200	67	Ø18	300	350	300	350
QHD-100SK-7.5	Ø174	Ø208	Ø288	220	68	Ø18	300	350	300	350
QHD-100SK-10	Ø174	Ø208	Ø288	220	68	Ø18	300	350	300	350
QHD-100SK-15	Ø174	Ø208	Ø288	220	68	Ø18	300	350	300	350

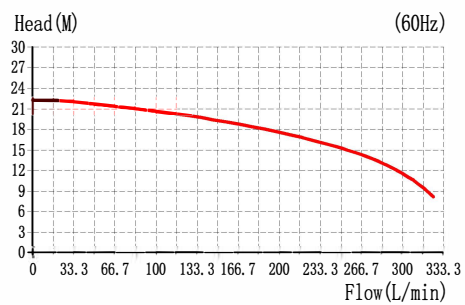
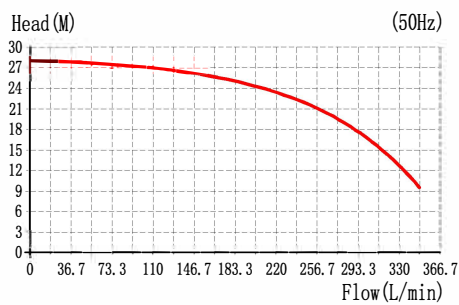
QHD-40SK-1 Performance curve



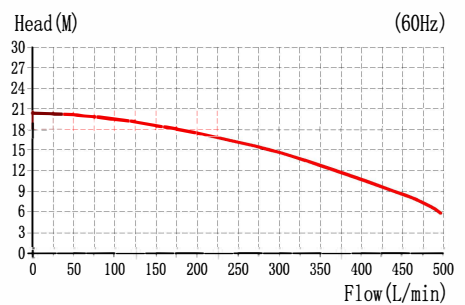
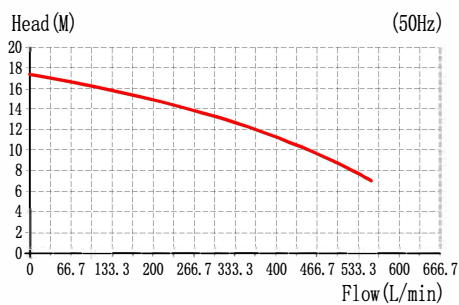
QHD-40SK-2 Performance curve



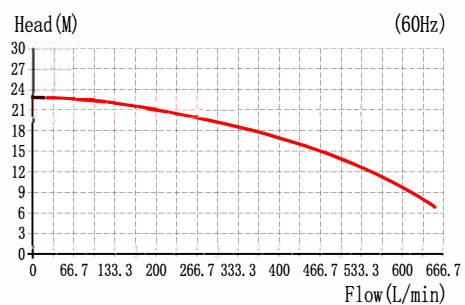
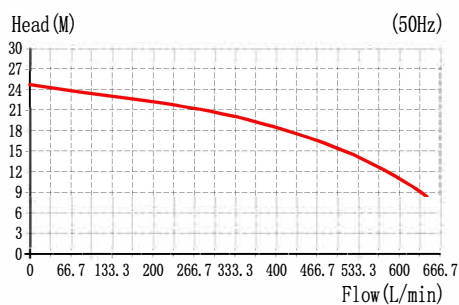
QHD-40SK-3 Performance curve



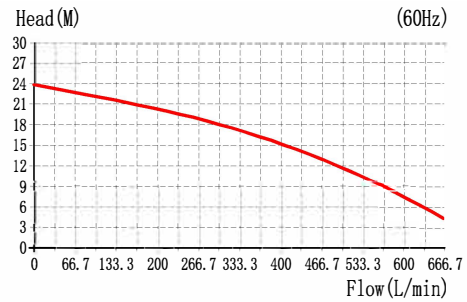
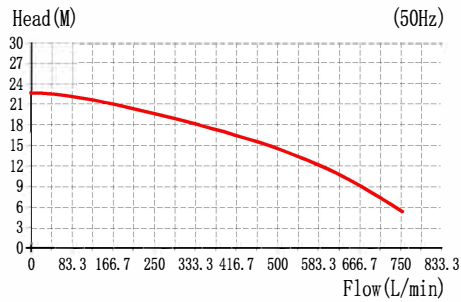
QHD-50SK-3 Performance curve



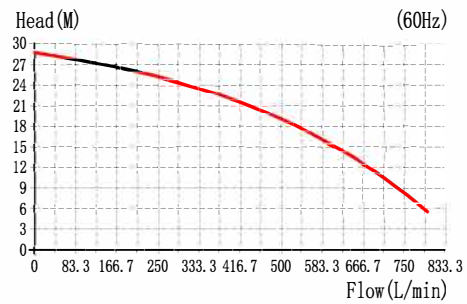
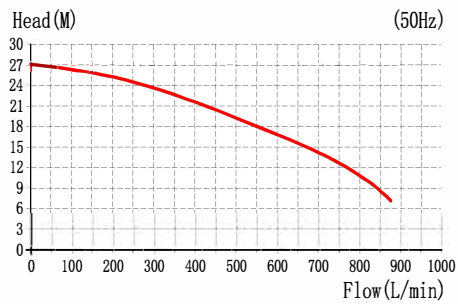
QHD-50SK-5 Performance curve



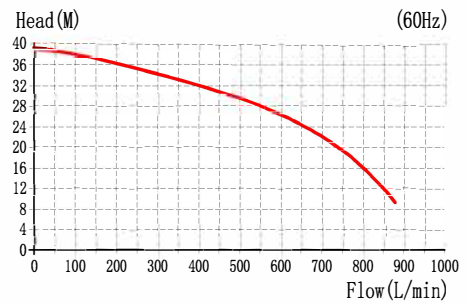
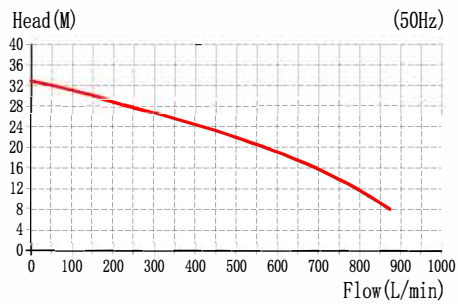
QHD-65SK-5 Performance curve



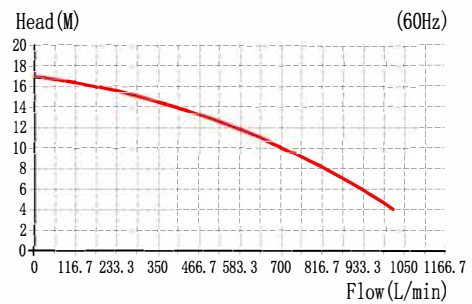
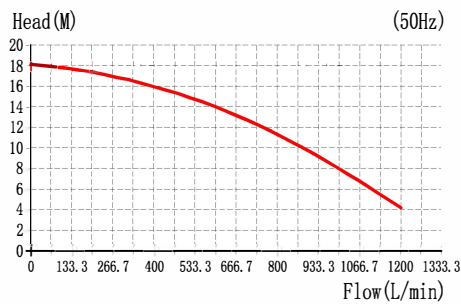
QHD-65SK-7.5 Performance curve



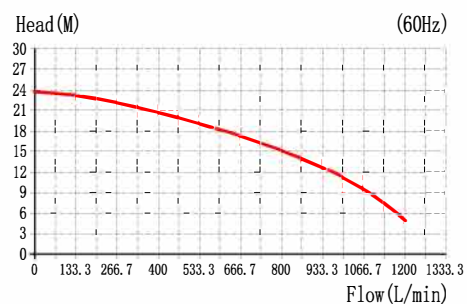
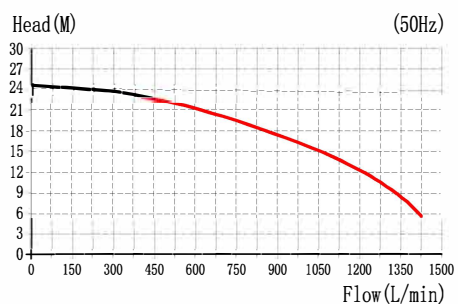
QHD-65SK-10 Performance curve



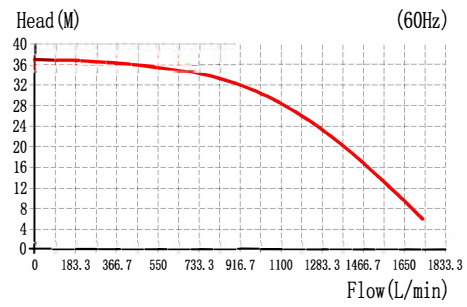
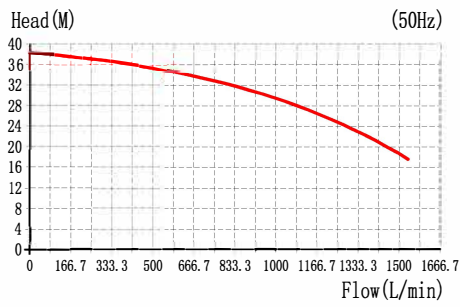
QHD100SK-7.5 Performance curve



QHD100SK-10 Performance curve

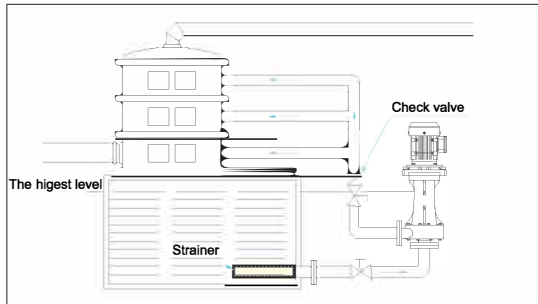


QHD100SK-15 Performance curve

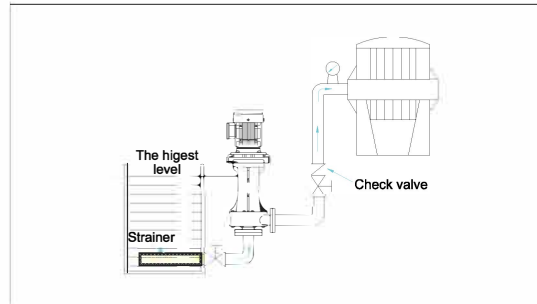


Installation diagram

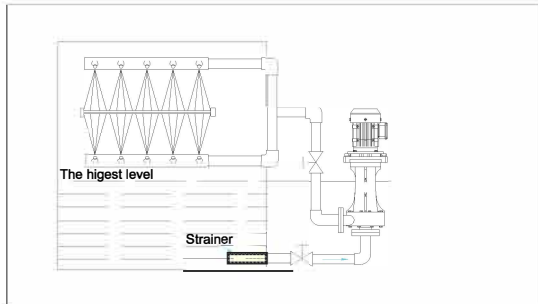
Used in waste gas cleaning tower



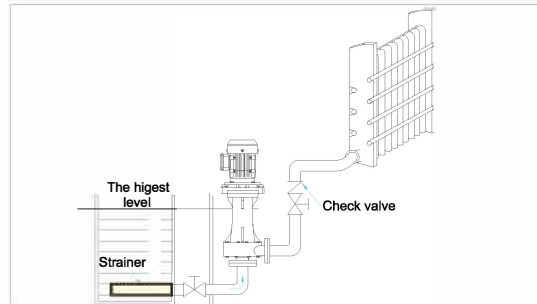
Used in reaction tank or filter compressor



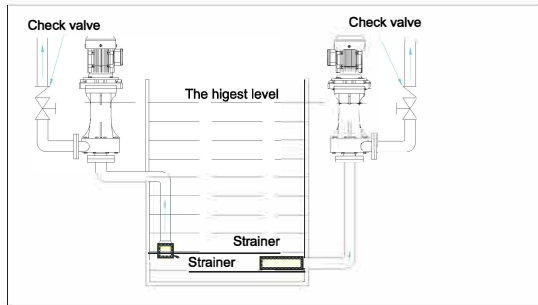
Paint pump etching



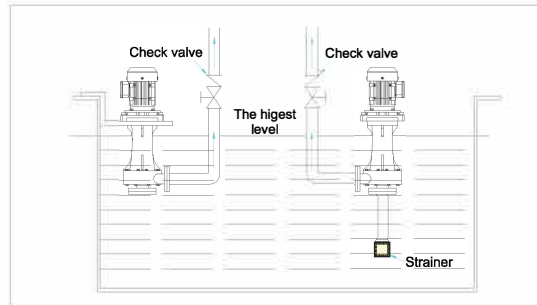
Used in heat exchanger



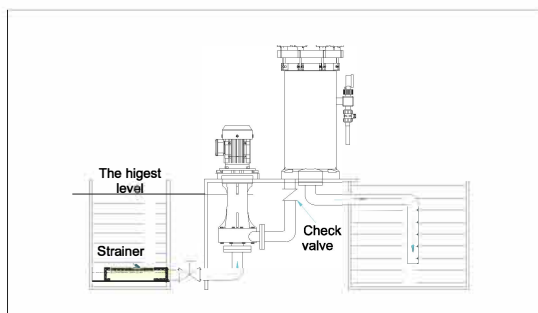
Installed outside the barrel



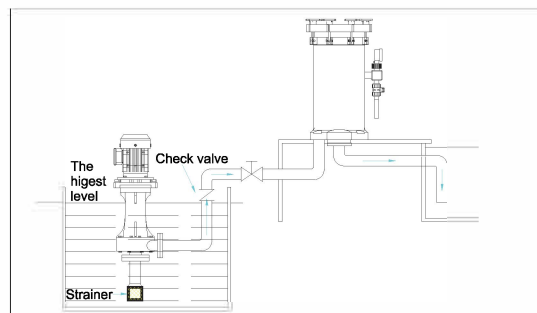
Special application of liquid exchange



The pump is installed outside the barrel and used with the filter



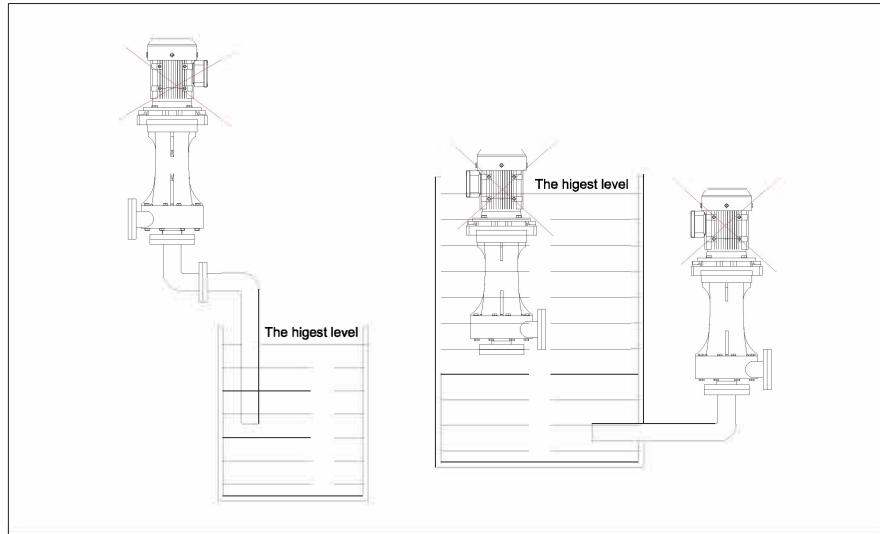
The pump is installed inside the barrel and used with the filter



Attentions:

1. If it is used in chemical plant or environment with volatile gas, it is necessary to select the safe and explosion-proof Eg3 or D2g4 motor;
2. Filter screen shall be installed at the inlet pipe to prevent foreign matters from being inhaled, which may cause damage to the pump;
3. If the outlet pipe is higher than the motor, a check valve shall be installed at the highest point of the liquid level to prevent the motor from being damaged;
4. The mixing of different types of chemical solution may cause chemical reaction, even high heat, which may damage the pump. Therefore, do not use the same pump to transport different chemical solutions.

Warning: incorrect use



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. Strong qualification:

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



Vertical
pump
QHD