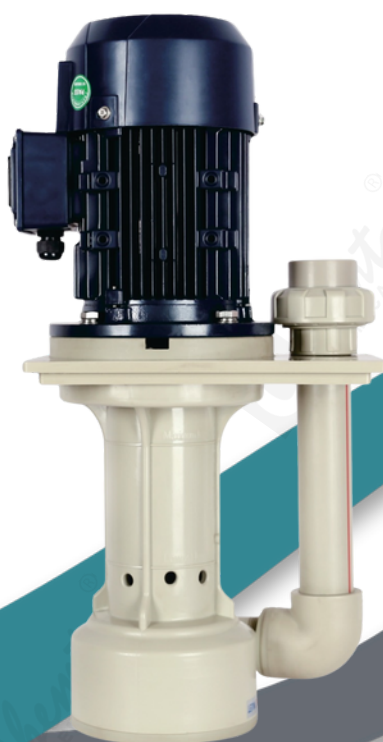




CATALOG

Y E A R 2 0 2 5



CORROSION-RESISTANT PLASTIC VERTICAL PUMP (INSIDE TANK) MODEL : QHAC 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

Special internal structure design with stable and reliable performance

Suitable for various acid and alkali resistant liquid circulation,
continuous electroplating, spray cleaning equipment, wastewater
and waste gas treatment.

Chemical tank liquid transportation and transfer and other
working conditions.



Series Model 50Hz 60Hz

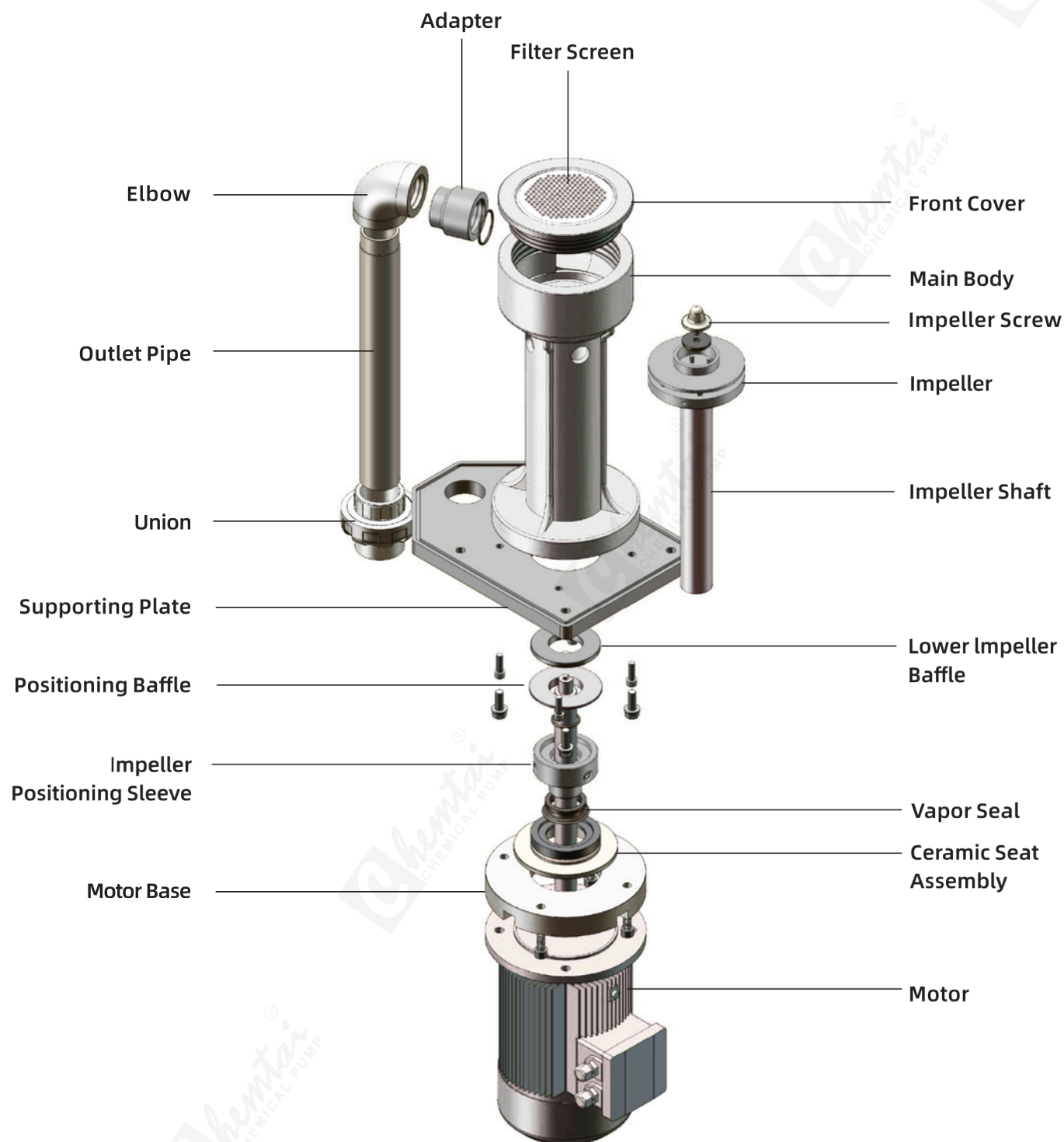
Main Material	Model	Max.Flow (L/min)										Max.Head(m)												Parameters Apply To Specific Gravity Range
		50	100	150	200	250	300	350	400	450	2	4	6	8	10	12	14	16	18	20	22	24		
PPH/PVDF	QHAC-15SK-50	<div><div></div><div>20</div></div> <div><div></div><div>22</div></div>										<div><div></div><div>2.7</div></div> <div><div></div><div>3.5</div></div>												<1.2
	QHAC-15SK-90	<div><div></div><div>22</div></div> <div><div></div><div>25</div></div>										<div><div></div><div>3</div></div> <div><div></div><div>4.5</div></div>												
	QHAC-15SK-120	<div><div></div><div>32</div></div> <div><div></div><div>37</div></div>										<div><div></div><div>3.5</div></div> <div><div></div><div>5</div></div>												
	QHAC-20SK-180	<div><div></div><div>52</div></div> <div><div></div><div>57</div></div>										<div><div></div><div>7</div></div> <div><div></div><div>9</div></div>												
	QHAC-20SK-250	<div><div></div><div>55</div></div> <div><div></div><div>72</div></div>										<div><div></div><div>8</div></div> <div><div></div><div>11</div></div>												
	QHAC-25SK-370	<div><div></div><div>78</div></div> <div><div></div><div>78</div></div>										<div><div></div><div>8</div></div> <div><div></div><div>8</div></div>												
	QHAC-40SK-1	<div><div></div><div>307</div></div> <div><div></div><div>222</div></div>										<div><div></div><div>11</div></div> <div><div></div><div>7.7</div></div>												
	QHAC-40SK-2	<div><div></div><div>382</div></div> <div><div></div><div>340</div></div>										<div><div></div><div>15</div></div> <div><div></div><div>14</div></div>												
	QHAC-40SK-3	<div><div></div><div>437</div></div> <div><div></div><div>438</div></div>										<div><div></div><div>20</div></div> <div><div></div><div>19</div></div>												

● Medium Temperature: 0°C~+120°C, Medium Specific Gravity: 1-2, Working Environment Temperature: -5°C~+50°C, Maximum Altitude: 2000m, Maximum Working Pressure: 10Bar.

● Test Basis: The above performing 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.

**QHAC SERIES - CORROSION-RESISTANT PLASTIC VERTICAL PUMP
(INSIDE TANK)**



QHAC 1/15HP-3HP

Dry Running Vertical Pump (Inside the Tank)



Product Features

- No Leakage: Special internal structure design solves the problem of traditional submersible pumps being prone to leakage;
- Stable And Reliable Performance: Low vibration, low noise and stable pressure, suitable for installation and use in tanks, resistant to strong acids and alkalis;
- Can Be Used In Dry-Running: Can run without liquid infinitely without being damaged by dry-running, with an average service life of more than 10 years.
- Pump Head Material: PPH, PVDF, two materials are optional.
- Suitable for various acid and alkali resistant liquid circulation, continuous electroplating, spray cleaning equipment, wastewater and waste gas treatment, chemical tank liquid transportation and transfer and other working conditions.

Model Description

QHAC - 25 - SK - 370 - 5 - V - F - 285 - S4 - V38 - A - A - S
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

- ① Model Number: QHAC-Rectangular mounting plate; QHAL-Hexagonal mounting plate QHAZ-Square mounting plate; QHAY-Round mounting plate
- ② Outlet Diameter: 15-1/2"; 20-3/4"; 25-1"; 32-1"; 40-1.5"
- ③ Specific Gravity Of Liquid Medicine: SK-1.0-1.2; SB-1.3; SC-1.4; SD-1.5; SE-1.6; SF-1.7; SG-1.8; SH-1.9; SI-2.0
- ④ Horsepower: 50-50W; 90-90W; 120-120W; 180-180W; 250-250W; 370-370W; 1-1HP; 2-2HP; 3-3HP
- ⑤ Frequency: 5-50HZ; 6-60HZ
- ⑥ Seal Material: E-EPDM; V-FKM
- ⑦ Pump Body Material: F-PPH; P-PVDF
- ⑧ Pump Head Length: 216-216mm (50W-120W); 285-285mm (180W-370W); 317-317mm (1HP-3HP); 410-410mm (1HP-3HP)
- ⑨ Shaft Core Material: S4-SUS304; S6-SUS316; T-Ti
- ⑩ Voltage: V38-30/380V; V41-30/415V; V44-30/440V; V48-30/480V; V66-30/660V; V32-30/220V; V22-10/220V
- ⑪ Motor Requirements: A-IE3 ordinary motor; B-IE4 ordinary motor; C-IE5 ordinary motor; D- variable frequency motor; E-IE3, BT4 explosion-proof motor; F-IE4, BT4 explosion-proof motor; G-IE5, BT4 explosion-proof motor; H-IE3, CT4 explosion-proof motor; I-IE4, CT4 explosion-proof motor; J-IE5, CT4 explosion-proof motor; K-permanent magnet variable frequency motor; L-BT4 explosion-proof variable frequency motor; M-CT4 explosion-proof variable frequency motor
- ⑫ Motor Protection Level: A-IP55; B-IP56; C-IP65
- ⑬ S-Standard; N-Non-Standard

Product Specification List

Model	Inlet And Outlet Size (mm)	The Length Of The Pump Head	Max. Flow/50Hz		Max. Flow/60Hz		Max. Head (m)		Phase ϕ	Power		Weight (kg)
			(L/min)	(m ³ /h)	(L/min)	(m ³ /h)	50Hz	60Hz		HP	KW	
QHAC-15SK-50	15	216	20	1.2	22	1.3	2.7	3.5	1	1/15	0.05	4.0
QHAC-15SK-90	15	216	22	1.3	25	1.5	3.0	4.5	1	1/8	0.09	4.4
QHAC-15SK-120	15	216	32	1.9	37	2.2	3.5	5	1	1/6	0.12	4.5
QHAC-20SK-180	20	285	52	3.1	57	3.4	7	9	1/3	1/4	0.18	10
QHAC-20SK-250	20	285	55	3.3	72	4.3	8	11	1/3	1/3	0.25	10.5
QHAC-25SK-370	25	285	78	4.7	78	4.7	8	8	1/3	1/2	0.37	11.3
QHAC-40SK-1	40	317/410	307	18.4	222	13.3	11	7.7	3	1	0.75	18
QHAC-40SK-2	40	317/410	382	22.9	340	20.4	15	14	3	2	1.5	22
QHAC-40SK-3	40	317/410	437	26.2	438	26.3	20	19	3	3	2.2	25

- Medium Temperature: 0°C~+120°C, Medium Specific Gravity: 1-2, Working Environment Temperature: -5°C~+50°C, Maximum Altitude: 2000m, Maximum Working Pressure: 10Bar.
- Test Basis: The above performance data corresponds to the transportation of clean water at normal speed at 25°C. The performance error is $\pm 5\%$. 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.

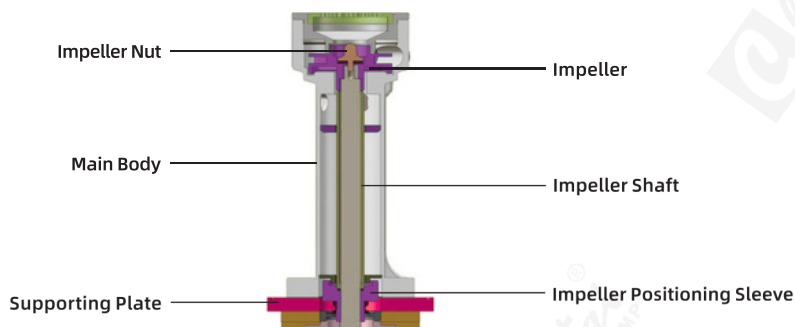
QHAC-15SK-50 / 15SK-90 / 15SK-120 / 20SK-180 20SK-250 / 25SK-370 / 40SK-1 40SK-2 / 40SK-3

● Max.Flow: 20-438 L/min

● Max.Head: 2.7-20 m



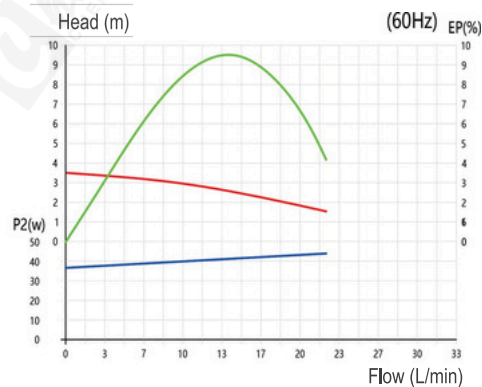
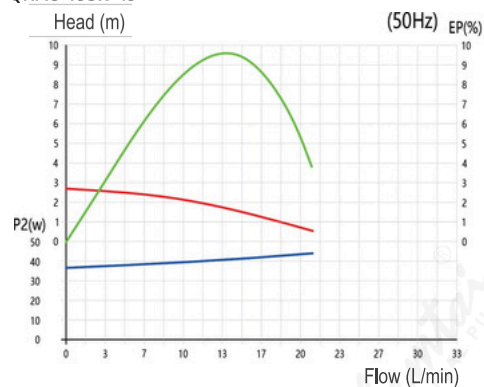
Structure Drawing And Material



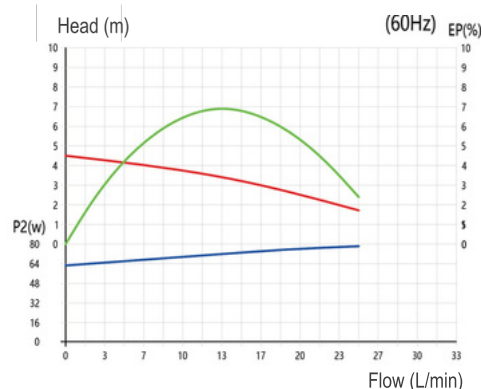
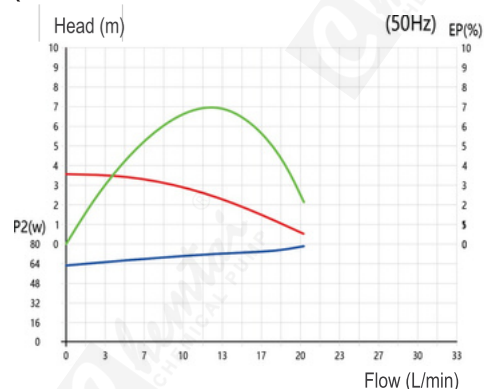
Performance Curve

Head&Flow Efficiency Shaft Power

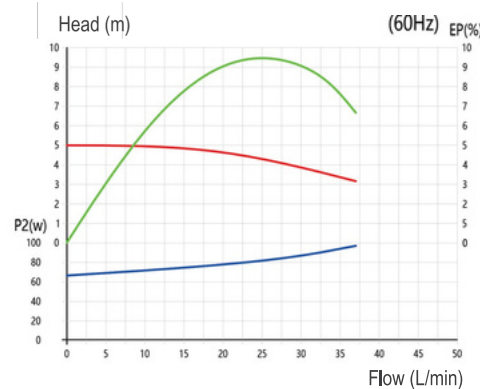
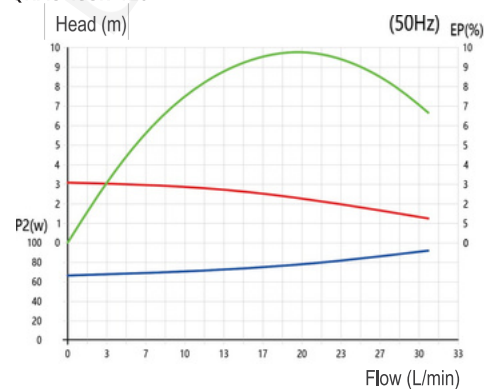
QHAC-15SK-45



QHAC-15SK-90



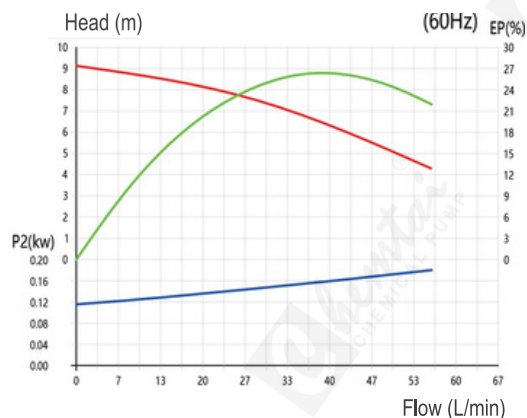
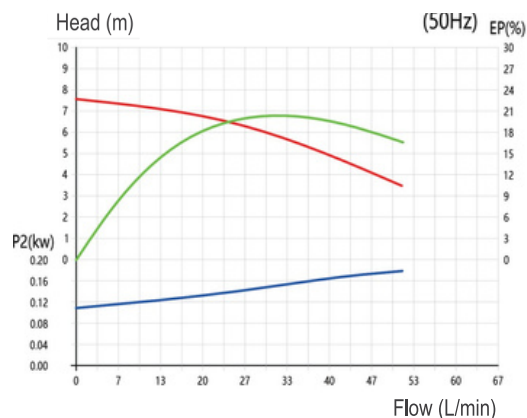
QHAC-15SK-120



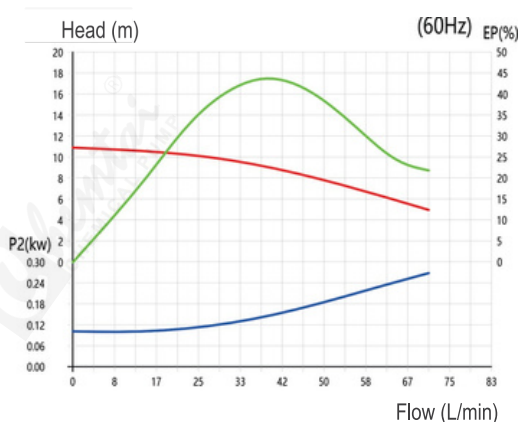
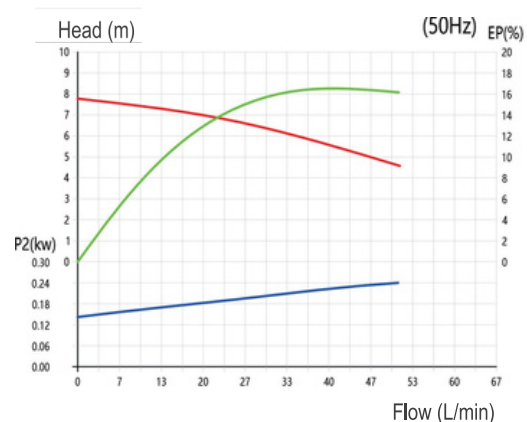
QHAC SERIES - CORROSION-RESISTANT PLASTIC VERTICAL PUMP (INSIDE TANK)



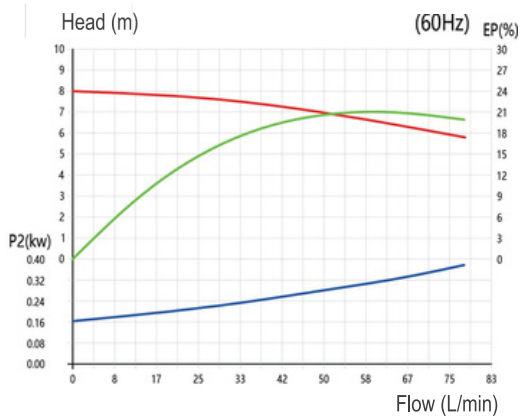
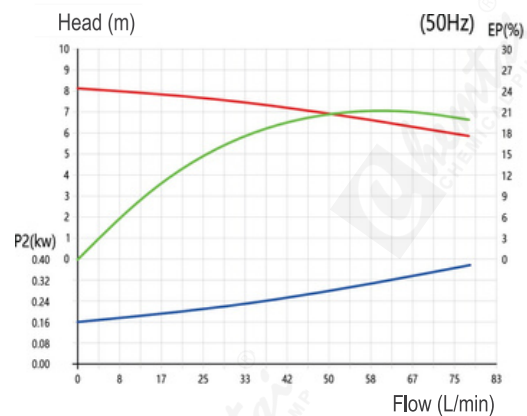
QHAC-20SK-180



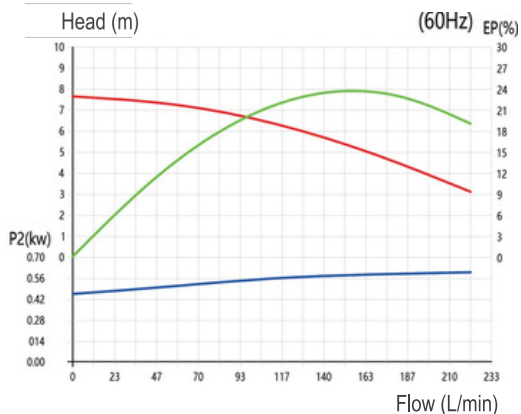
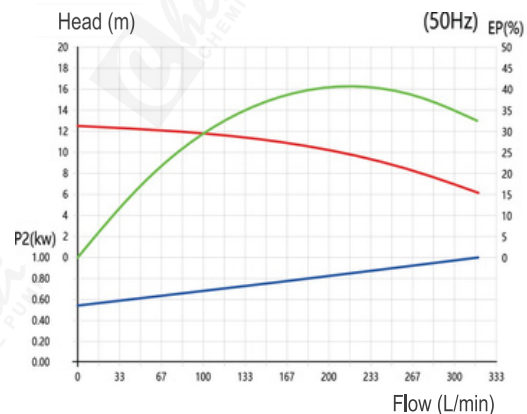
QHAC-20SK-250



QHAC-25SK-370



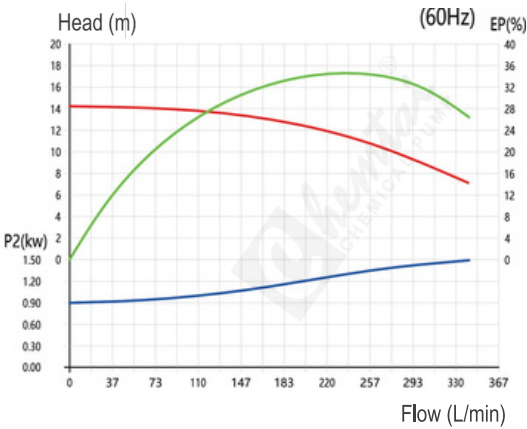
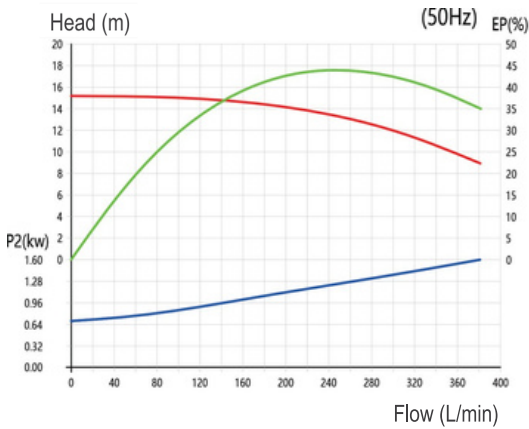
QHAC-40SK-1



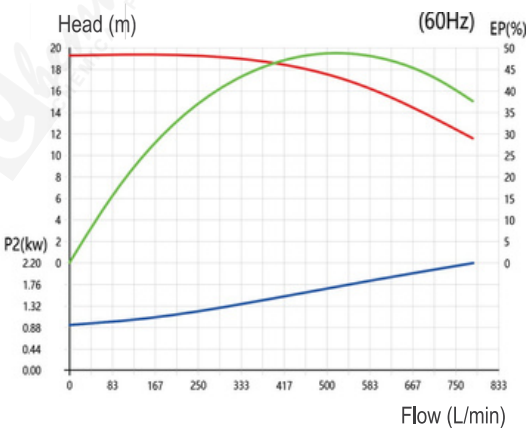
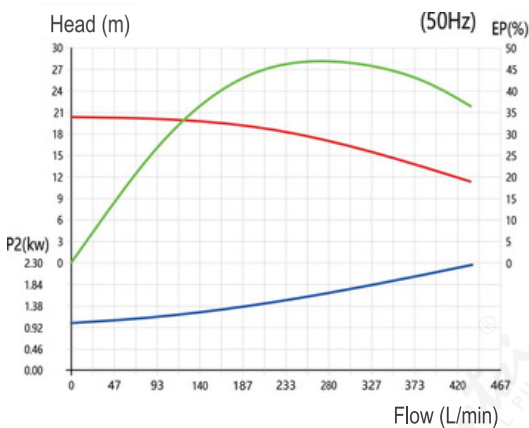
QHAC SERIES - CORROSION-RESISTANT PLASTIC VERTICAL PUMP (INSIDE TANK)



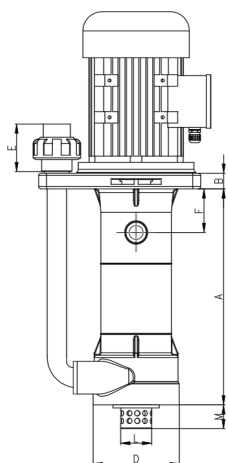
QHAC-40SK-2



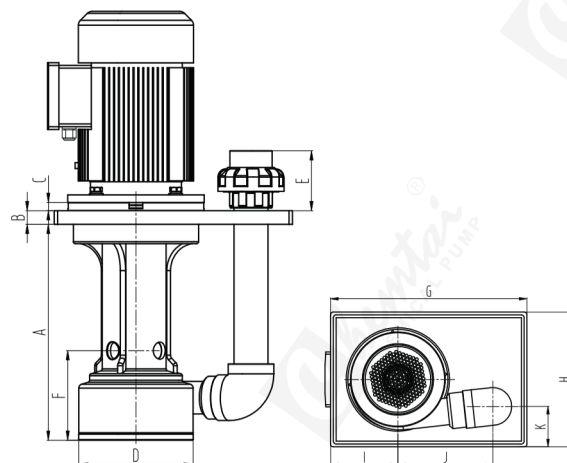
QHAC-40SK-3



Overall Dimensions



Length of the Pump Head Model 281



Length of the Pump Head Model 317

Model	A	B	C	D	E	F	G	H	I	J	K	L	M
15SK-50-216	216	12	/	φ88	55	39	170	120	59	85	33	φ32	54
15SK-90-216	216	12	/	φ88	55	39	170	120	59	85	33	φ32	54
15SK-120-216	216	12	/	φ88	55	39	170	120	59	85	33	φ32	54
20SK-180-281	281	20.5	/	φ112	62	56.7	210	169	84	101	50	φ40	31
20SK-250-281	281	20.5	/	φ112	62	56.7	210	169	84	101	50	φ40	31
25SK-370-281	281	20.5	/	φ112	69	56.7	210	169	84	101	50	φ40	31
40SK-1-317	317	20	12	φ168	88	129.5	350	240	120	169	72	/	/
40SK-2-317	317	20	12	φ168	88	129.5	350	240	120	169	72	/	/
40SK-3-317	317	20	12	φ168	88	129.5	350	240	120	169	72	/	/
40SK-1-410	410	20	30	φ168	88	129.5	350	240	120	169	72	/	/
40SK-2-410	410	20	30	φ168	88	129.5	350	240	120	169	72	/	/
40SK-3-410	410	20	30	φ168	88	129.5	350	240	120	169	72	/	/

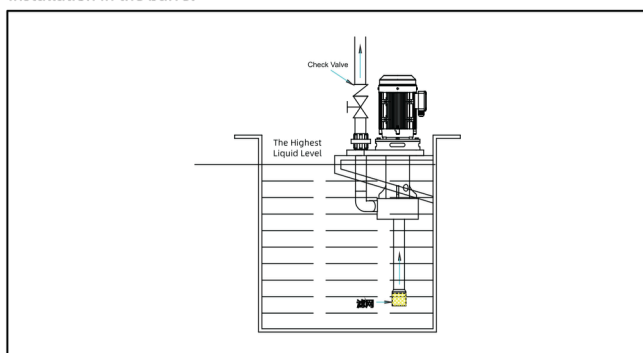


Excellent Corrosion Resistance/ High Performance
High Cost Performance/ Customization
Longer Service Life

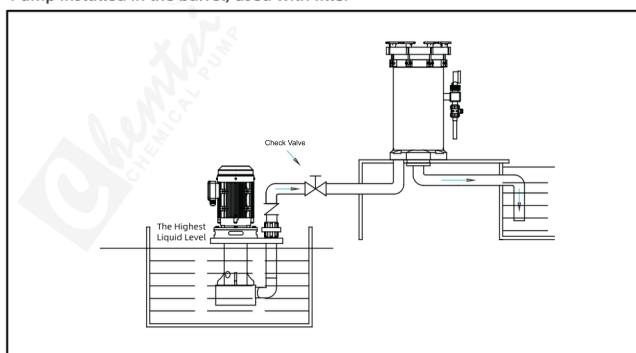


Installation Instruction

Installation in the barrel



Pump installed in the barrel, used with filter



Precautions For Installation And Operation

1. If the pump is used in chemical plant or environment with volatile gas, it is necessary to select the safe and explosion-proof BT4 or CT4 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.



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.