

# **QHX Series Acid & Alkali Resistant Magnetic Drive Pump**

Excellent corrosion resistance, high performance, high cost-effective,  
customization, long service life





High performance and high efficiency

# QEEHUA PATENT

Inner magnet coating with Integrated injection molding technique ensures non-explosion!

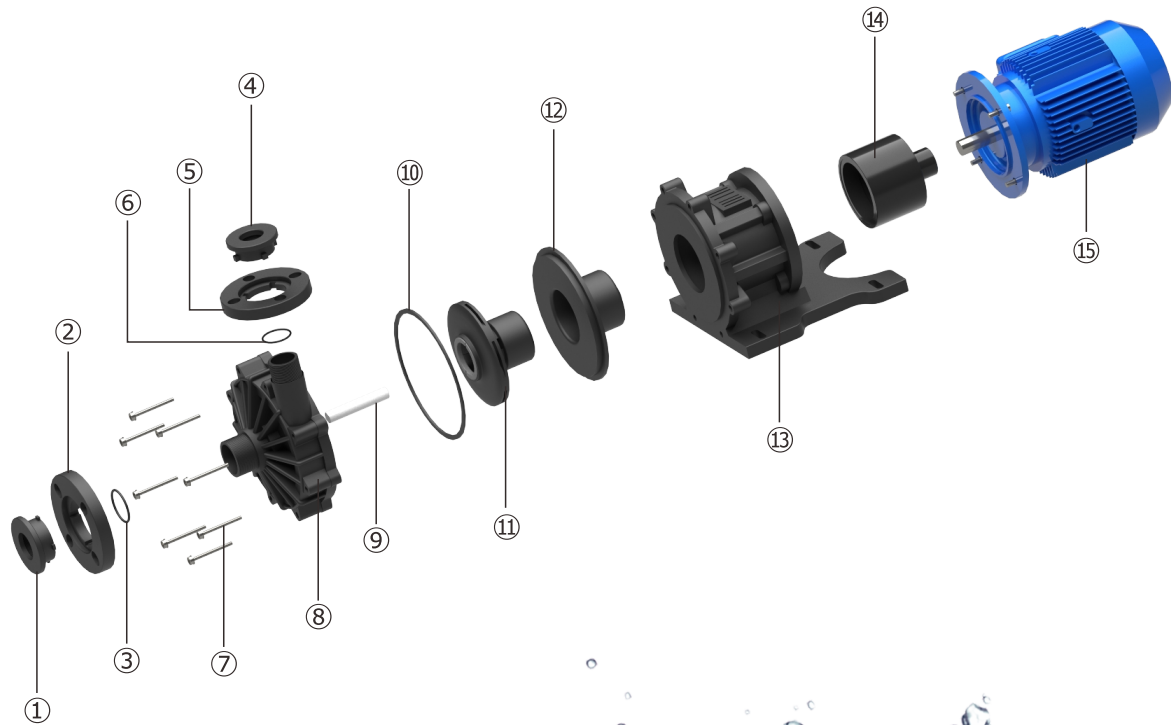
Series Model — 50Hz — 60Hz

Main material	Model	Max. flow (L/min)						Max.head (m)				Parameters apply to specific gravity range
		200	400	600	800	1000	1200	10	20	30	40	
PPH/PVDF/CFRETFE	QHX -250	103	103					16	17			<1.2
	QHX -251	125	125					21	24			
	QHX -252	116	125					33	32			
	QHX -253	125	125					38	46			
	QHX -440	230	208					12	11			
	QHX -441	267	275					18	17			
	QHX -422	200	200					26	26			
	QHX -423	233	233					37	36			
	QHX -542	363	367					21	22			
	QHX -542H	300	283					27	27			
	QHX -543	433	433					27	28			
	QHX -543H	320	330					34	35			
	QHX -545	483	500					35	36			
	QHX -552	467	467					20	23			
	QHX -553	550	533					26	28			
	QHX -555	567	625					37	37			
	QHX -652	517	495					15	15			
	QHX -653	600	617					21	22			
	QHX -655	733	717					28	29			
	QHX -662	583	567					12	12			
QHX -663	667	667					16	16				
QHX -665	783	750					21	21				
QHX -667.5	833	833					28	28				

● Medium Temperature: Room Temp. -10°C~+150°C, Specific Gravity: 1-2, Working Temperature: -5°C~+50°C, Maximum Altitude: 2000m, Maximum Working Pressure: 5Bar.  
 Test Basis: The above performance data corresponds to water being transported 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.



# QHX Series Exploded View



① Inlet flange connector: PPH/PVDF/CFRETFE

② Inlet flange: GFRPP

③ Inlet seal o-ring: EPDM/FKM/FFKM

④ Outlet flange connector: PPH/PVDF/CFRETFE

⑤ Outlet flange: GFRPP

⑥ Outlet seal o-ring: EPDM/FKM/FFKM

⑦ Holding screw: SUS304/SUS316/Ti

⑧ Front Cover: The front cover adopts double convex ridge sealing structure design. It can choose hose connection type or thread connection type according to different needs.

⑨ Shaft: 99% ceramic /SSIC/ titanium material, strong acid and alkali resistance, liquid adhesion rate is low

⑩ Front & Rear Covers Seal O-ring

FKM is suitable for acid liquids and solvents, EPDM is suitable for alkali and weak acid liquids, optional FFKM is suitable for any strong acid and alkali liquids and solvents.

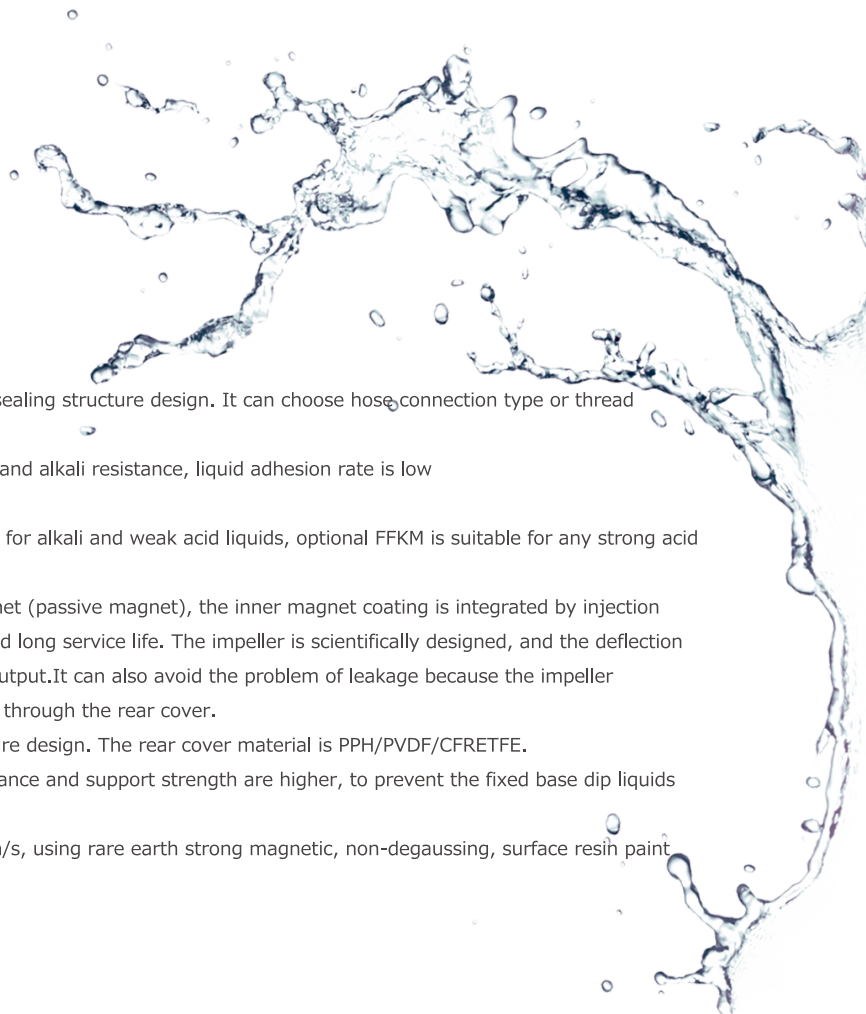
⑪ Impeller Assembly: Composed of impeller + internal magnet (passive magnet), the inner magnet coating is integrated by injection molding to ensure no penetration, no magnetic explosion, and long service life. The impeller is scientifically designed, and the deflection is less than 0.2mm to ensure the stability of flow and head output. It can also avoid the problem of leakage because the impeller deflection is too large, causing the shaft and bearing to wear through the rear cover.

⑫ Rear Cover Assembly: Double convex ridge sealing structure design. The rear cover material is PPH/PVDF/CFRETFE.

⑬ Frame: PP + glass fiber injection molding, corrosion resistance and support strength are higher, to prevent the fixed base dip liquids from being corroded.

⑭ Drive Magnet: Drive magnet vibration is lower than 2.0mm/s, using rare earth strong magnetic, non-degaussing, surface resin paint process to ensure strong corrosion resistance.

⑮ Motor



# I QHX 1/2HP-7.5HP

Energy-saving Acid And Alkali Resistant Magnetic Pump

## Product Feature

**Non-explosive magnetic patent:** The first inner magnet coating with integrated injection molding technique in China, to avoid inner magnet cracking caused by liquid infiltration. The pump can be equipped with intelligent three defense devices to achieve anti-dry running, anti-overload, anti-phase loss, and improve product durability.



## Specification Sheet

Model	Hose interface (mm)	Max. flow				Max. head (m)		Reference specific gravity range	Motor		Weight (kg)
		50Hz		60Hz		50Hz	60Hz		HP	(KW)	
		(L/min)	(m³/h)	(L/min)	(m³/h)						
QHX -250	25/25	103	6.2	103	6.2	16	17	< 1.2	0.5	0.37	12.5
QHX -251	25/25	125	7.5	125	7.5	21	24	< 1.2	1	0.75	18.7
QHX -252	25/25	116	7.0	125	7.5	33	32	< 1.2	2	1.5	24.8
QHX-253	25/25	125	7.5	125	7.5	38	46	< 1.2	3	2.2	27.6
QHX -440	40/40	230	13.8	208	12.5	12	11	< 1.2	0.5	0.37	11.9
QHX -441	40/40	267	16.0	275	16.5	18	17	< 1.2	1	0.75	18.8
QHX -422	40/25	200	12.0	200	12.0	26	26	< 1.2	2	1.5	26.4
QHX -423	40/25	233	14.0	233	14.0	37	36	< 1.2	3	2.2	29.2
QHX -542	50/40	363	21.8	367	22.0	21	22	< 1.2	2	1.5	25.6
QHX -542H	50/40	300	18.0	283	17.0	27	27	< 1.2	2	1.5	25.6
QHX -543	50/40	433	26.0	433	26.0	27	28	< 1.2	3	2.2	28.6
QHX -543H	50/40	320	19.2	330	19.8	34	35	< 1.2	3	2.2	28.6
QHX -545	50/40	483	29.0	500	30.0	35	36	< 1.2	5	4	43.4
QHX -552	50/50	467	28.0	467	28.0	20	23	< 1.2	2	1.5	25.7
QHX -553	50/50	550	33.0	533	32.0	26	28	< 1.2	3	2.2	28.5
QHX -555	50/50	567	34.0	625	37.5	37	37	< 1.2	5	4	44.9
QHX -652	65/50	517	31.0	495	29.7	15	15	< 1.2	2	1.5	27.2
QHX -653	65/50	600	36.0	617	37.0	21	22	< 1.2	3	2.2	28.8
QHX -655	65/50	733	44.0	717	43.0	28	29	< 1.2	5	4	30.2
QHX -662	65/65	583	35.0	567	34.0	12	12	< 1.2	2	1.5	28.3
QHX -663	65/65	667	40.0	667	40.0	16	16	< 1.2	3	2.2	31.8
QHX -665	65/65	783	47.0	750	45.0	21	21	< 1.2	5	4	44.9
QHX -667.5	65/65	833	50.0	833	50.0	28	28	< 1.2	7.5	5.5	51.3

● Medium Temperature: Room Temp. -10°C~+150°C, Specific Gravity: 1-2, Working Temperature: -5°C~+50°C, Maximum Altitude: 2000m, Maximum Working Pressure: 5Bar.  
 Test Basis: The above performance data corresponds to water being transported 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.

# QHX-250/251/252/253/440/441/422/423 542/542H/543/543H/545/552/553 555/652/653/655/662/663/665/667.5

- Max. Flow: 103 - 833 L/min
- Max. Head: 11 - 46 m

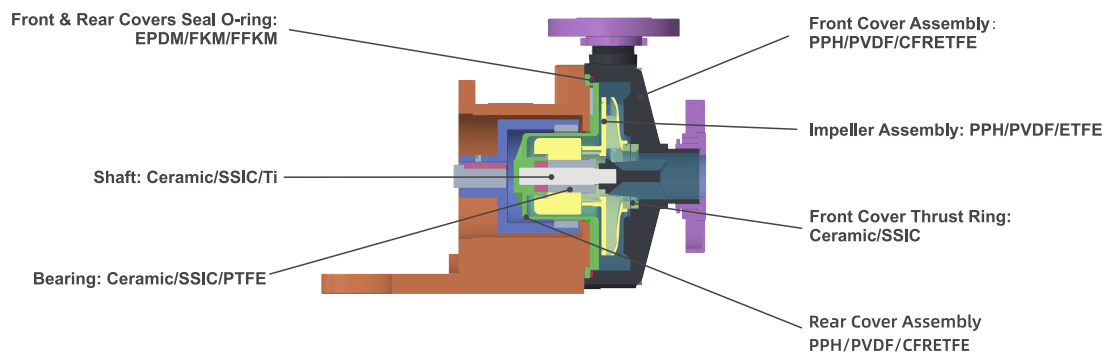


## Model Description

QHX - F - 54 - 3 - C - C - V - 5 - V38 - A - F - G - A - H - A - S  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯

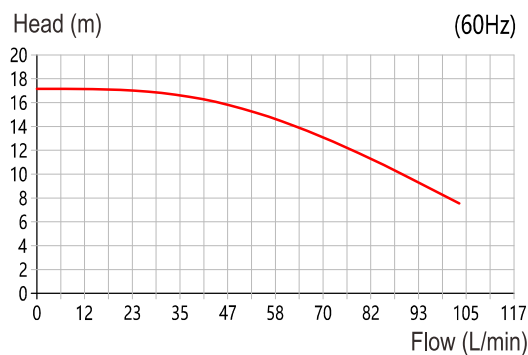
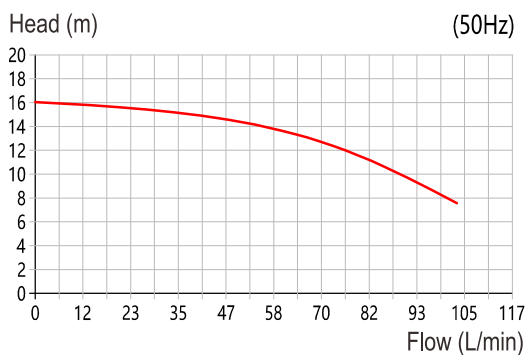
- ① Model No.: QHX
- ② Pump material: F-PPH; P-PVDF; E-CFRETFE
- ③ Inlet and outlet caliber: 25-25\*25mm; 42-40\*25mm; 44-40\*40mm; 54-50\*40mm; 55-50\*50mm; 65-65\*50mm; 66-65\*65mm
- ④ Power: 0T/2HP; 1-1HP; 2-2HP; 3-3HP; 5-5HP; 7.5-7.5 HP
- ⑤ Pump shaft material: C-ceramic; S-SSIC Silicon Carbide
- ⑥ Bearing material: C-graphite; S-SSIC silicon carbide; P-PTFE
- ⑦ Sealing material: E-EPDM; V-FKM; F-FFKM
- ⑧ Frequency: 5-50Hz; 6-60HZ
- ⑨ Voltage: V38-3Ø/380V; V41-3Ø/415V; V 44-3Ø/440V; V 48-3Ø/480V; V 66-3Ø/660V; V 32-3Ø/220V; V 22-1Ø/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 Inlet and outlet form: F-flange; U-union; S-Screw
- ⑫ Motor brand: G-Kingdom; A-ABLE; ABB-ABB; W-Wanda; 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 Pump type: H-high head; Codeless-universal
- ⑮ Motor protection level: A-IP54; B-IP55; C-IP56; D-IP65
- ⑯ S-Standard; N-Non-Standard

## Structure Drawing And Material

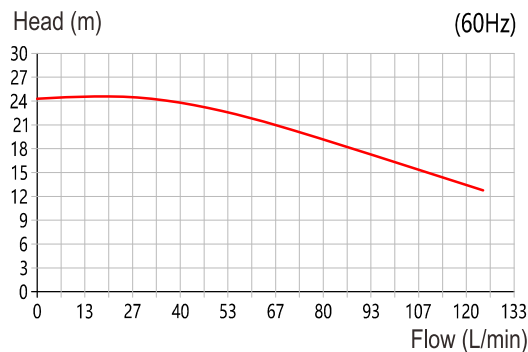
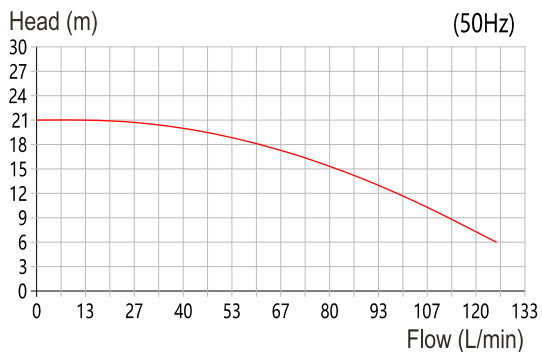




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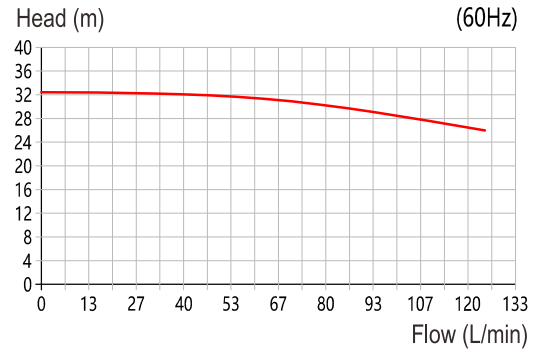
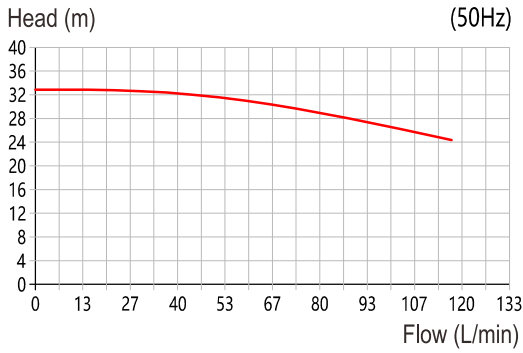


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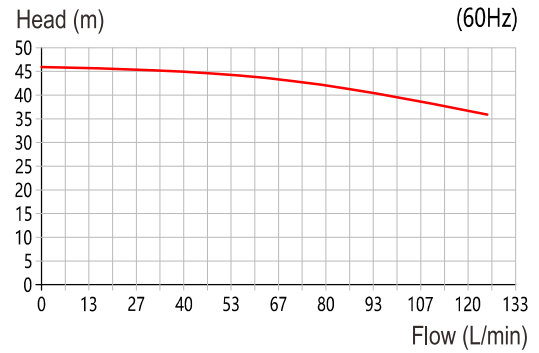
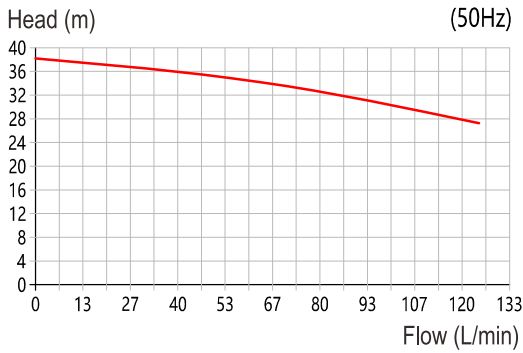




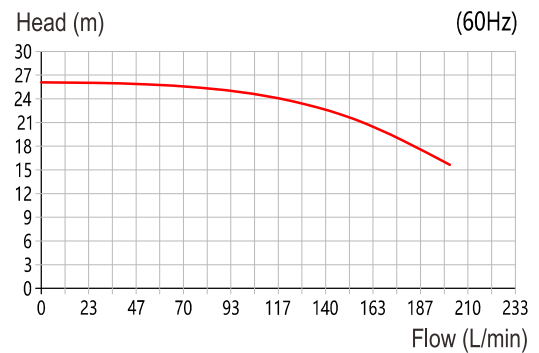
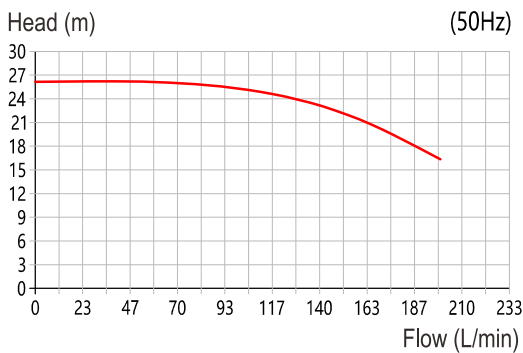
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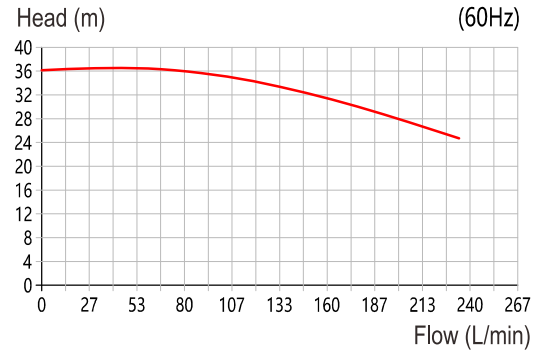
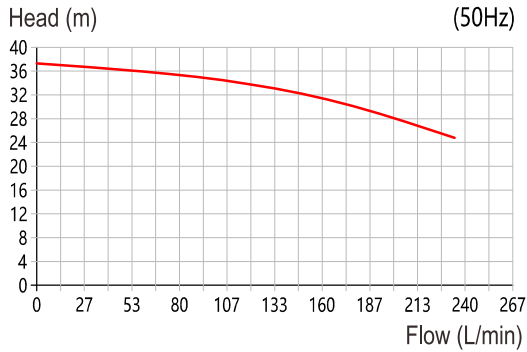
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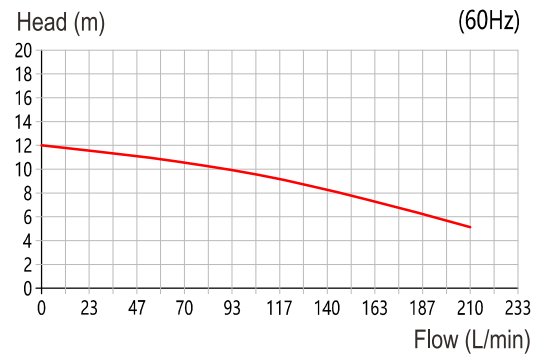
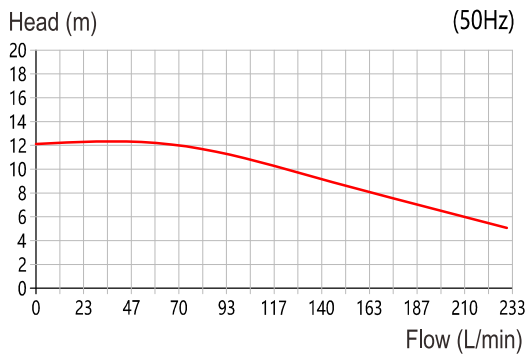
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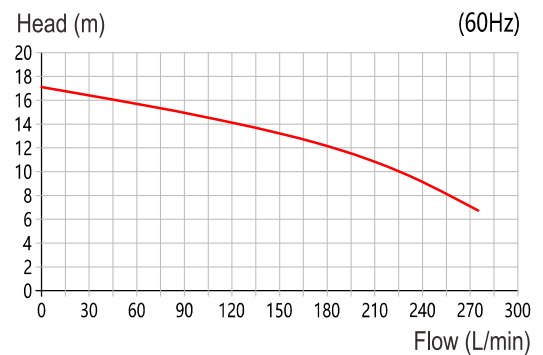
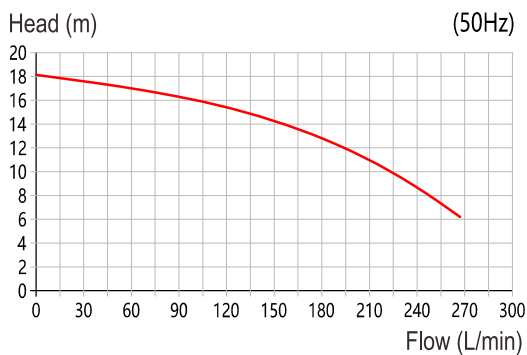
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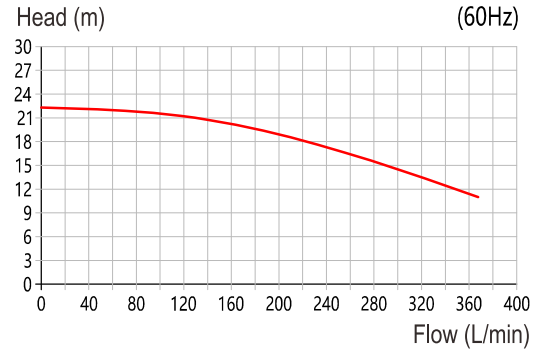
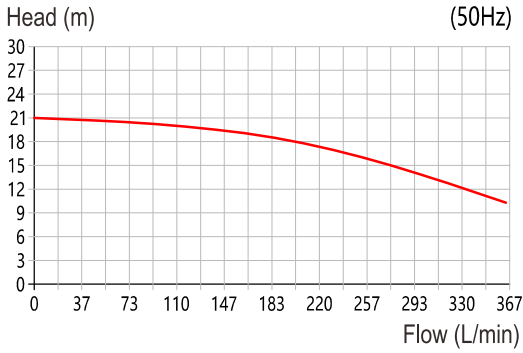
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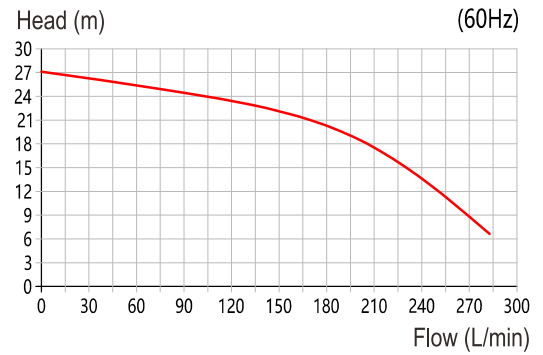
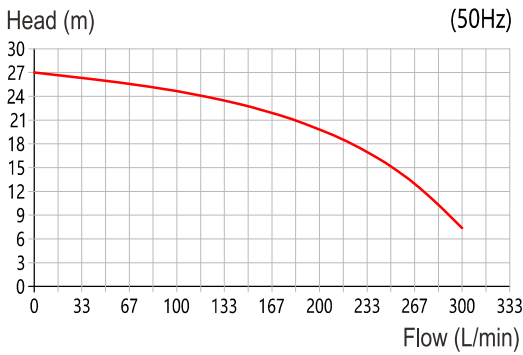
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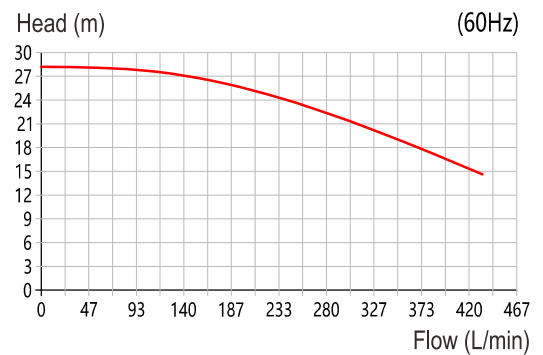
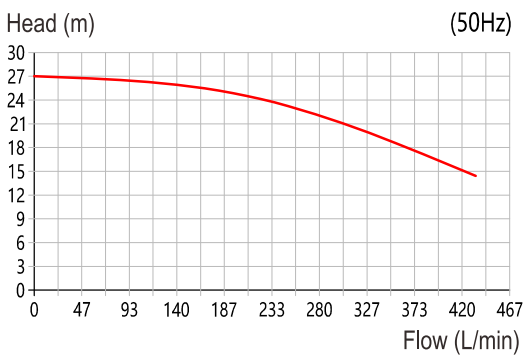
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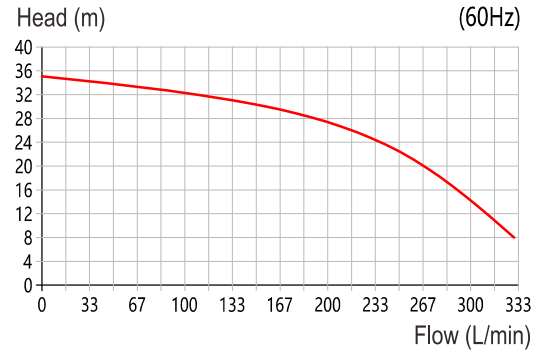
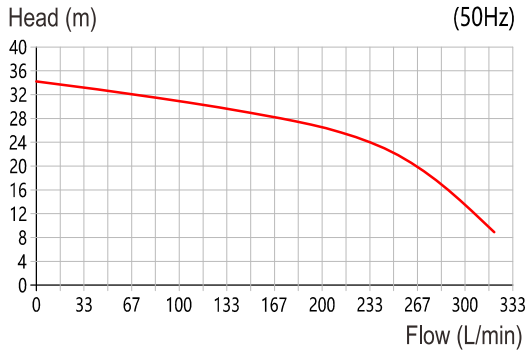
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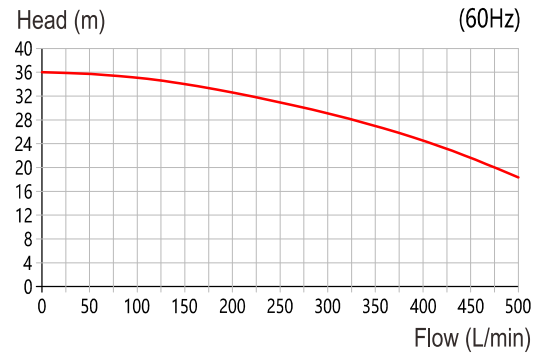
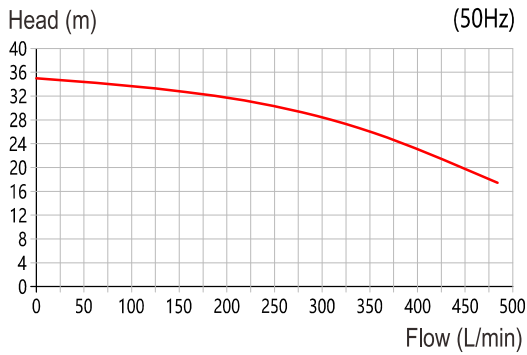
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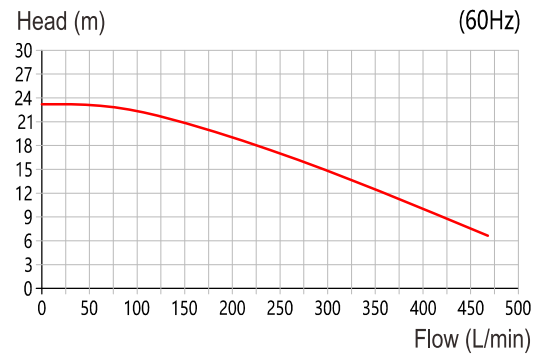
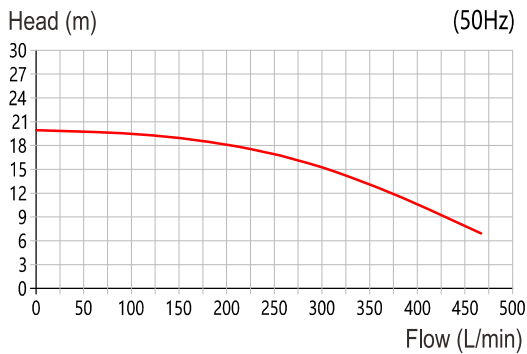
### QHX-543H Series Performance Curve



### QHX-545 Series Performance Curve

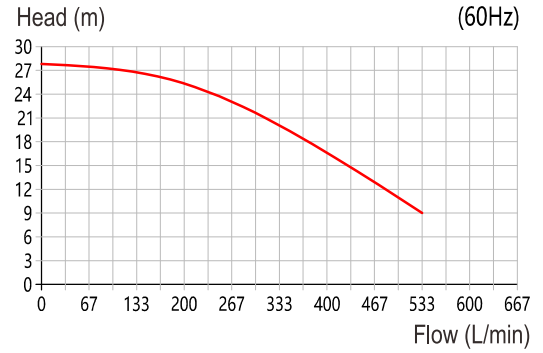
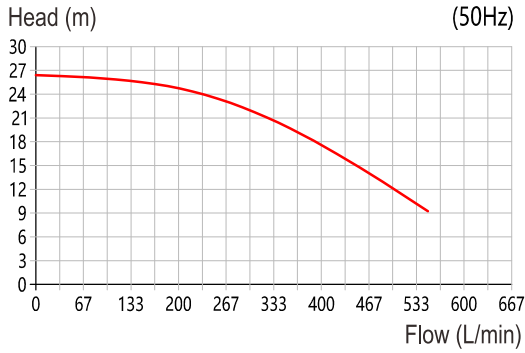


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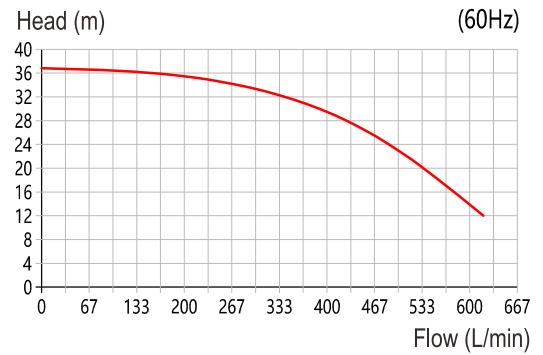
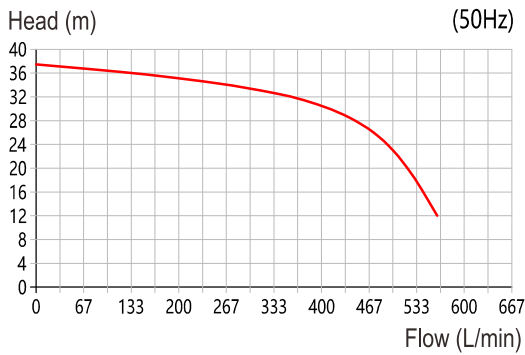




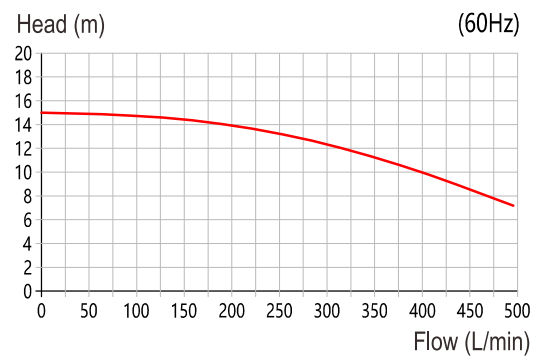
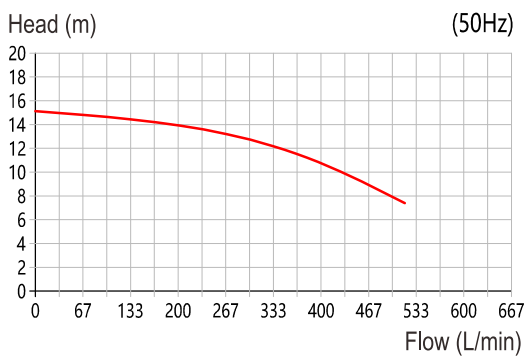
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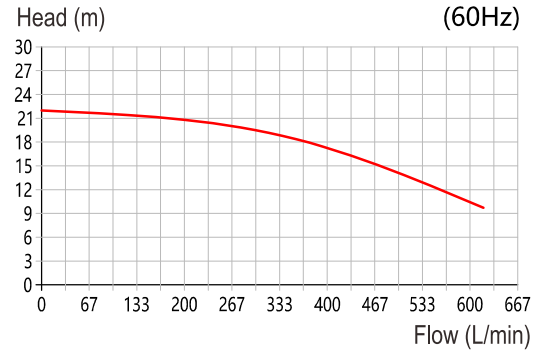
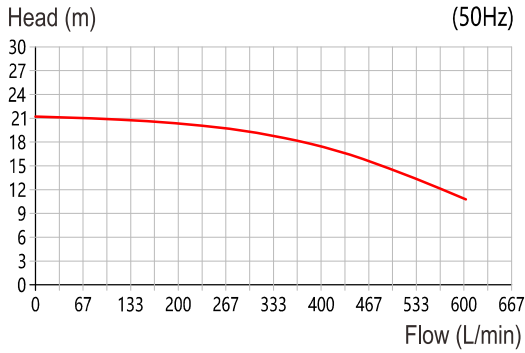
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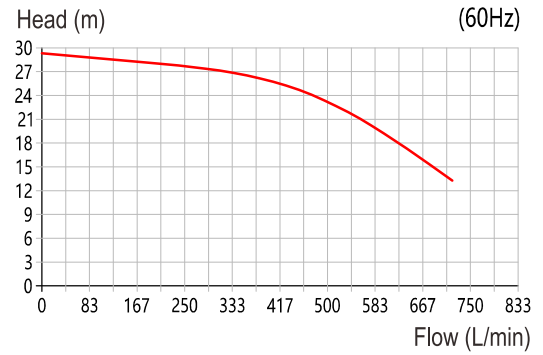
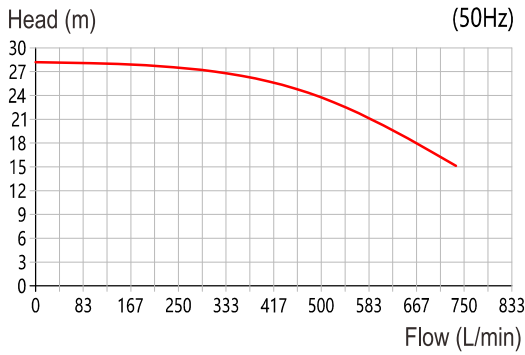
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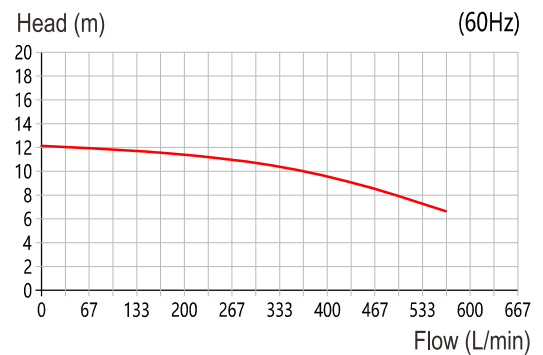
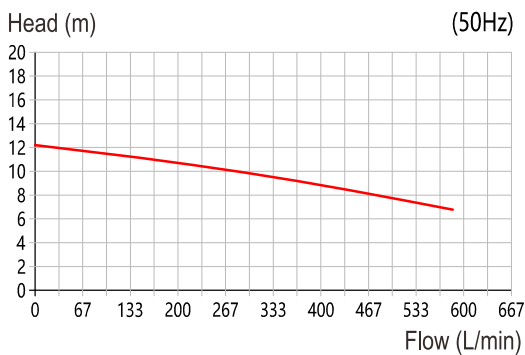
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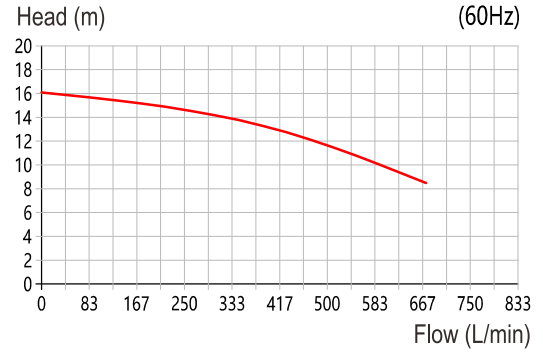
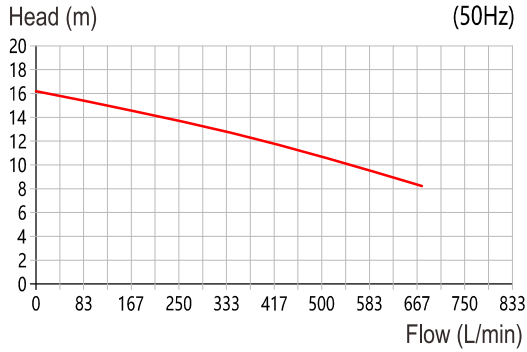
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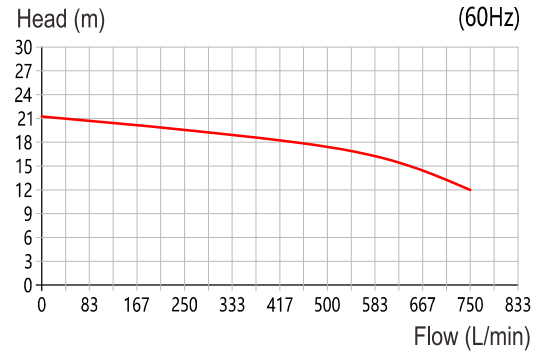
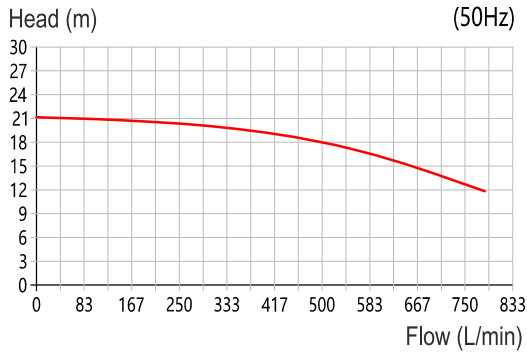
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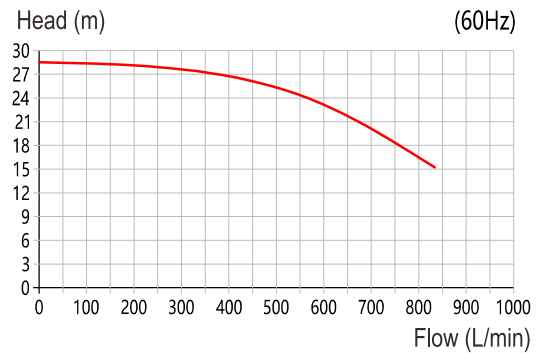
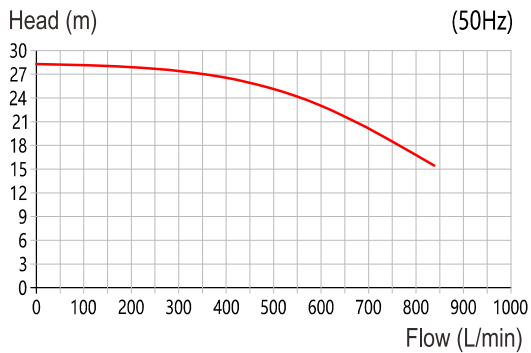
### QHX-663 Series Performance Curve



### QHX-665 Series Performance Curve

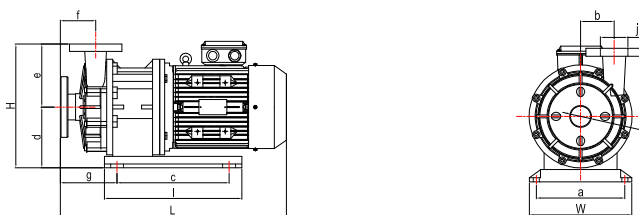


### QHX-667.5 Series Performance Curve





**Size Drawing**



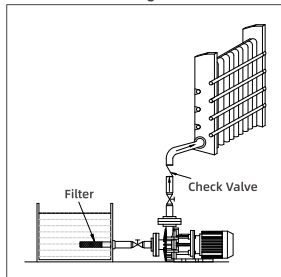
Model	L	H	W	a	b	c	d	e	f	g	i	j	k
QHX-250	482	256	192	146	67	132	120	136	87.5	164	207	∅21.0	∅21.0
QHX-251	475.5	254.5	192	128	67	132	114	140.5	90	157.5	214	∅21.0	∅21.0
QHX-252	531	284	261.5	207	79	200	120.5	163.5	88	145	266.5	∅21.0	∅21.0
QHX-253	531	284	261.5	207	79	200	120.5	163.5	88	235	266.5	∅21.0	∅21.0
QHX-440	443	228	155	132	55	128	95	133	89	166	203	∅36.0	∅36.0
QHX-441	498	255	195	128	70	135	113.5	141.5	106.5	176	219	∅36.0	∅36.0
QHX-422	547	286	261.5	207	80	200	120	166	97	163	274	∅21.0	∅36.0
QHX-423	547	286	261.5	207	80	200	120	166	97	163	274	∅21.0	∅36.0
QHX-542	544	284	261.5	207	79	200	120	164	97	157.5	274	∅36.0	∅44.0
QHX-542H	544	284	261.5	207	79	200	120	164	97	157.5	274	∅36.0	∅44.0
QHX-543	544	284	261.5	207	79	200	120	164	97	157.5	274	∅36.0	∅44.0
QHX-543H	544	284	261.5	207	79	200	120	164	97	157.5	274	∅36.0	∅44.0
QHX-545	610	324	252	218	79	296	159	165	97	159	362	∅36.0	∅44.0
QHX-552	544	282	261.5	207	79	200	120	162	97	157.5	274	∅36.0	∅44.0
QHX-553	544	282	261.5	207	79	200	120	162	97	157.5	274	∅36.0	∅44.0
QHX-555	610	322	252	218	79	296	159	163	97	159	362	∅36.0	∅44.0
QHX-652	544	333	252	218	80	296	160	173	90	160	362	∅44.0	∅65.5
QHX-653	544	333	252	218	80	296	160	173	90	160	362	∅44.0	∅65.5
QHX-655	612	330	252	218	80	296	158.5	171.5	90	163	362	∅44.0	∅65.5
QHX-662	565	333	252	217	77	296	157	176	100	179	362	∅66.0	∅66.0
QHX-663	565	333	252	217	77	296	157	176	100	179	362	∅66.0	∅66.0
QHX-665	633	336	252	217	79	295	161.5	174.5	100	184	362	∅66.0	∅66.0
QHX-667.5	668	336	252	217	79	295	161.5	174.5	100	184	362	∅66.0	∅66.0

● Note: This is the dimensions of PPH material.

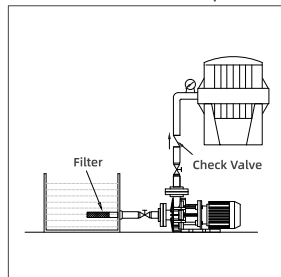


## Installation Instruction

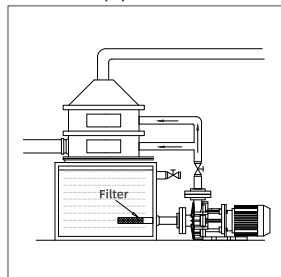
Used in heat exchangers



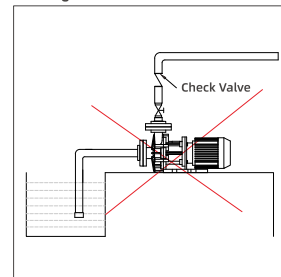
For reaction tank or filter compressor



Suitable for equipment line or scrubber



Warning: Incorrect use



## Precautions For Safe Operation

### Safety Warning!

- ① Running without cutting off the power will cause electric shock!
- ② Do not start the pump without connecting the ground wire and leakage protector!
- ③ Electrician operation should be carried out by professional personnel!
- ④ When operating the pump, please wear protective equipment to prevent serious injury caused by chemical solution!
- ⑤ Operations related to toxic liquids may cause poisoning!
- ⑥ Use the pump in strict accordance with the instructions and scope of use!
- ⑦ During operation, the surface temperature of motor and pump is very high, do not touch directly!
- ⑧ It is forbidden to transform the pump without permission, otherwise serious accidents will be caused. If the pump is modified without permission or in accordance with the operating instructions, the company will not bear any loss caused by the user!
- ⑨ There is a strong magnet in the magnetic drive pump. Its strong magnetic field will cause obvious damage to the person wearing the electronic device (i.e. electronic pacemaker, etc.)

### Important Note!

- ① No dry running of the pump. The dry running of the pump can make the parts inside the pump heat up by friction, which will damage the pump. Pump operation with suction valve fully closed is also considered as idling.
- ② In the process of operation, when dangerous signals and abnormal conditions are found, the operation shall be terminated immediately, and it shall be started after the exception is eliminated.
- ③ The operation and use of the pump must be carried out by qualified operators.
- ④ The pump is only allowed to be used under the specified voltage, otherwise the pump will be damaged or fire will be caused.
- ⑤ The use place of the pump shall be equipped with protective measures to prevent liquid splashing or leakage.
- ⑥ Operations related to toxic liquids may cause poisoning, so it is necessary to ensure adequate ventilation at the operation site.
- ⑦ Do not scrape, damage, squeeze or stretch the cable with force. The use of damaged cables is likely to cause fire or electric shock.
- ⑧ The covered pump is easy to cause fire or mechanical failure due to internal heat accumulation during operation.
- ⑨ When a pump is under maintenance, pay attention to avoid other operators turning on the power supply switch due to mistakes. It is better to place a warning sign beside the power supply switch to inform that the pump is under maintenance.
- ⑩ The liquid from the pump may be highly toxic and harmful chemicals, which must be drained to a special container for storage.



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