VOSSCHE

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VOSSCHE

CIRCULATION PUMP

About Us

Our Management Team

Vossche was founded by Mr. Vossche Alton, who was born in Germany, but migrated to the USA in 1984 to set up his pump manufacturing business. From the rudiments of a small company, over 30 years ago, Vossche now boasts seven operational divisions each headed by a dedicated and highly qualified managing director. These divisions are:

- Product Planning
- Research and Design
- Product and Operations
- Sales and Marketing
- Logistics and Warehousing
- Export Sales
- Technical Support

Through these able teams, we have provided and continue to offer stellar quality products and services to consumers throughout the world including North America, South America, Europe, Africa, Asia and Australia.

Our Company

Vossche headquarter is located in Texas USA, where we have a factory that covers an area larger than 140,000 square meters. Of these, 120,000 square meters cover building space, and our net capital is registered at USD 160 million. We have an average of 1,855 employees worldwide.

We produce over 2 million pump sets every year under 12 major categories with more than 2,000 specific models for power ranges 0.5kW - 200 kW. Our range of products can service needs in various industries including refrigeration, mining, metallurgy, domestic water supply, agricultural irrigation, municipal services, groundwater applications, water lifting, sewage water or clean water disposal systems, building and industrial water supply, heating and ventilation, spa baths and swimming pools, among many more.

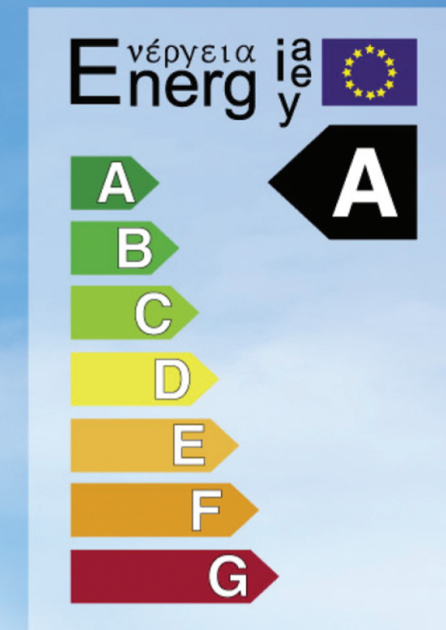
Vossche Pump Group

Together with our subsidiaries in strategic locations as well as affiliated distributors worldwide, Vossche believes in delivery of quality products for our consumers. As such, all our products undergo comprehensive production and operational testing to ensure that they adhere to the high standards we have set for ourselves. This is why our consumers trust us to deliver the best pumps in the market and are continuously satisfied with our outputs. In addition, we dedicate a huge amount of time and resources towards research, development and innovation to discover new and better models, applications and methods of production to continue adding value for clients.

VOSSCHE

APS

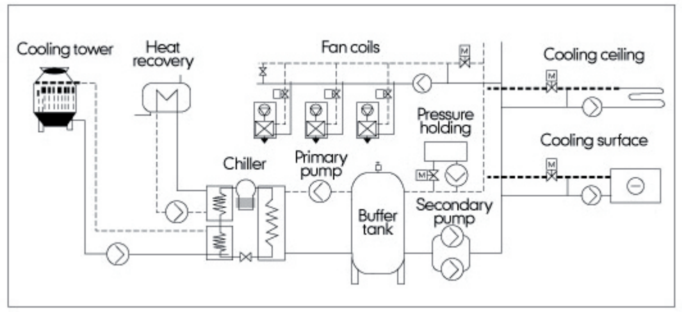
INTELLIGENT FREQUENCY CONVERTER CIRCULATION PUMP



CONTENTS

APS

INTELLIGENT FREQUENCY CONVERTER CIRCULATION PUMP EFFICIENCY CLASSIFIED AS GRADE A



APS is the latest and most innovative member of the VOSSCHE family of high-quality circulation pump. With APS, you can stop worrying about complicated pump settings. Simply install the pump and leave it on the factory setting.

Auto-Adapter: APS will automatically analyse the heating system, find the optimum setting and continue to adjust its operation to change in demand.

APS

Intelligent Frequency Converter Circulation Pump

The APS series pumps are made up of permanent magnetic motor, integrated with frequency converter technology.
It can run automatically just as you need to energy saving.

Applications

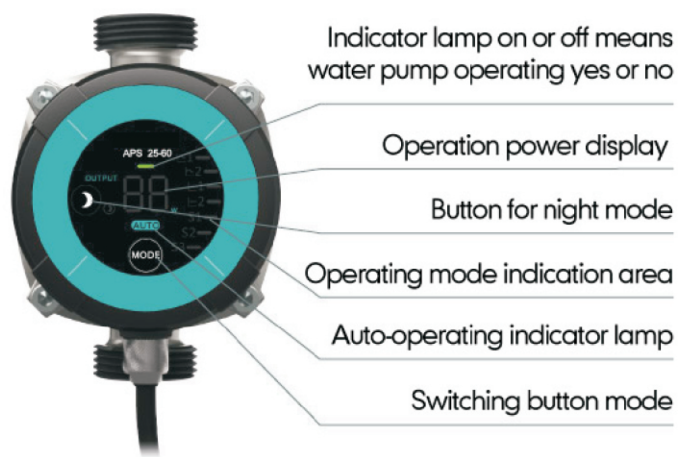
The VOSSCHE APS is designed for circulating liquids in heating systems, and also can be used in domestic hot-water systems.
The VOSSCHE APS is suitable for:

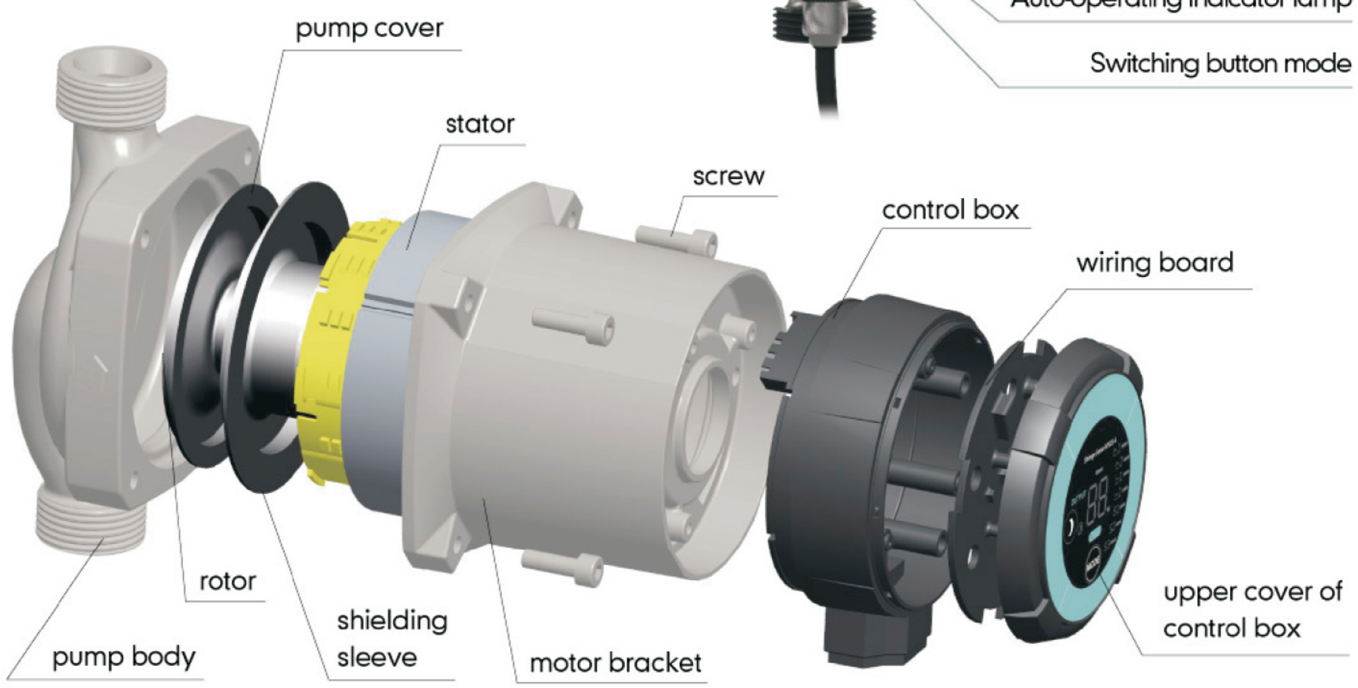
- Systems with constant or varying flows where it is desirable to optimise the pump duty point
- Systems with variation with temperatures
- Systems where night setback is required

Features and Benefits

- Compact design, with control box integrated into the pump head
- Auto-Adapter control mode as the default setting, suitable for most applications
- Integrated differential pressure control (specific and constant pressure control)
- Display showing actual power consumption (P1) in Watts
- Low noise
- Automatic night setback
- Motor based on permanent-magnet / compact-stator technology
- Integrated frequency converter
- Energy saving

Control Panel

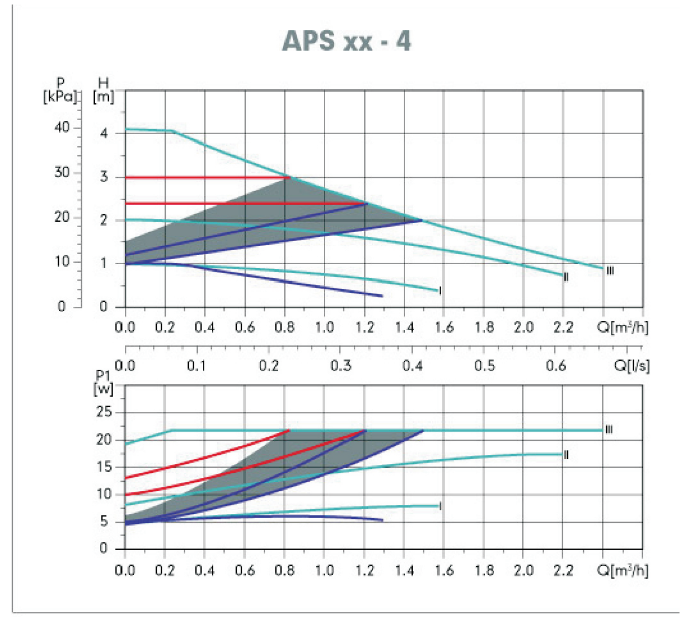


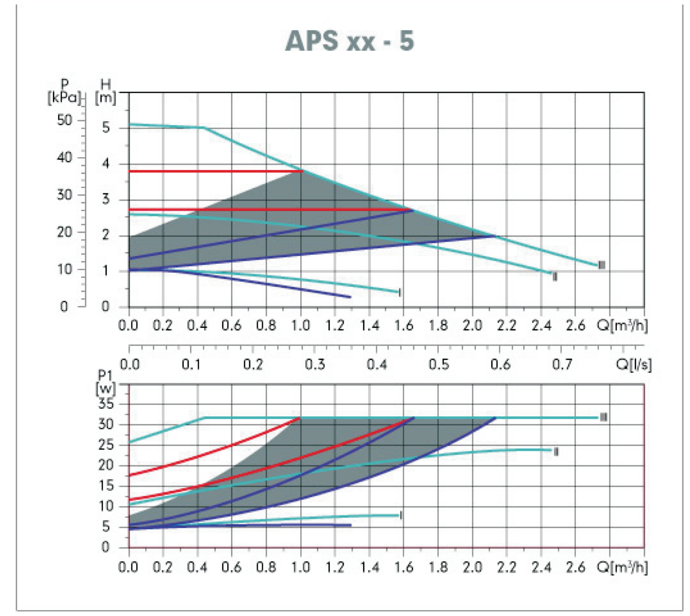


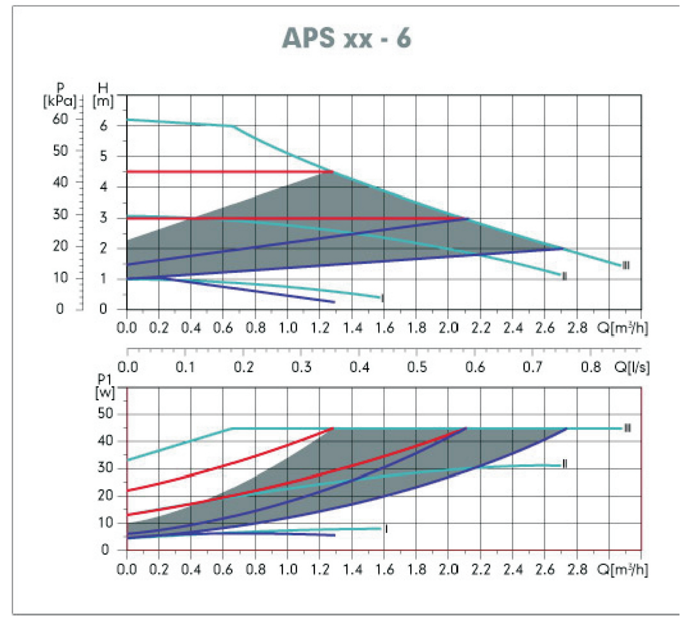
Intelligent Frequency Converter Circulation Pump

APS

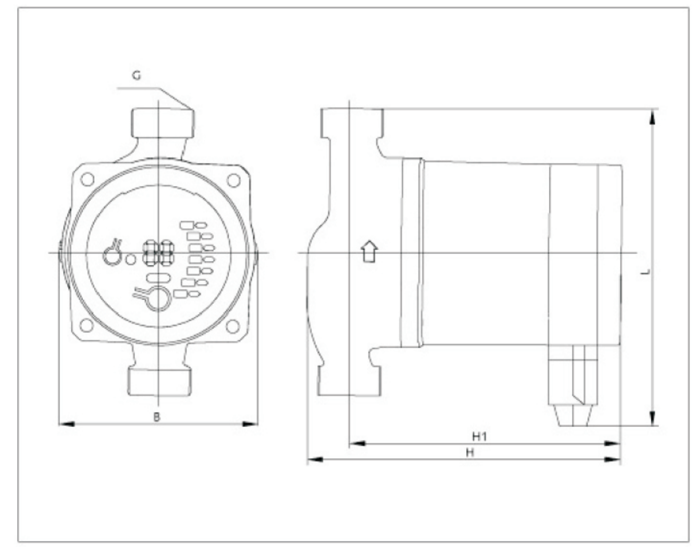
Performance Curve







Dimensions



Technical Data

Model	Max.power (W)	Measurement(mm)					Weight(kg)		G.W.Volume(m³)
		H	H1	L	G	B	N.W.	G.W.	
APS15/20/25-4-130	25	147	130	155	3/4"/ 1"/ 1½"	92	2.4	2.8	0.003
APS15/20/25-5-130	35	147	130	155	3/4"/ 1"/ 1½"	92	2.5	3.0	0.003
APS15/20/25-6-130	45	147	130	155	3/4"/ 1"/ 1½"	92	2.5	3.0	0.003
APS25/32-4-180	25	150	130	205	1½"/ 2"	92	2.8	3.4	0.004
APS25/32-5-180	35	150	130	205	1½"/ 2"	92	2.9	3.5	0.004
APS25/32-6-180	45	150	130	205	1½"/ 2"	92	2.9	3.5	0.004

CPH

HOT WATER CIRCULATION PUMP

Applications

The VOSSCHE CPH pump is designed for hot water circulation. It is suitable for the water circulation of HVAC, Industrial circulation systems, Heat pump systems, Solar heaters and heaters.

Products Features

- Pipe-line design is easy to maintenance.
- Power≤125Watt, with canned motor pump without leakage.
- Power≥250W,with a little higher power motor design, higher efficiency and low temperature rise. Protection class: Ip55
- High temperature resistant bearing and hot - water - type - mechanical seal are suitable for hot water.
- The pump operating officiency is improved by optimised performance and hydrotechnics design.
- Single phase with thermal protectors.

Working condition

- Clean liquids.
- Liquid Temperature:0℃~+100℃.
- Ambient temperature:0℃~+40℃.

Key parts material

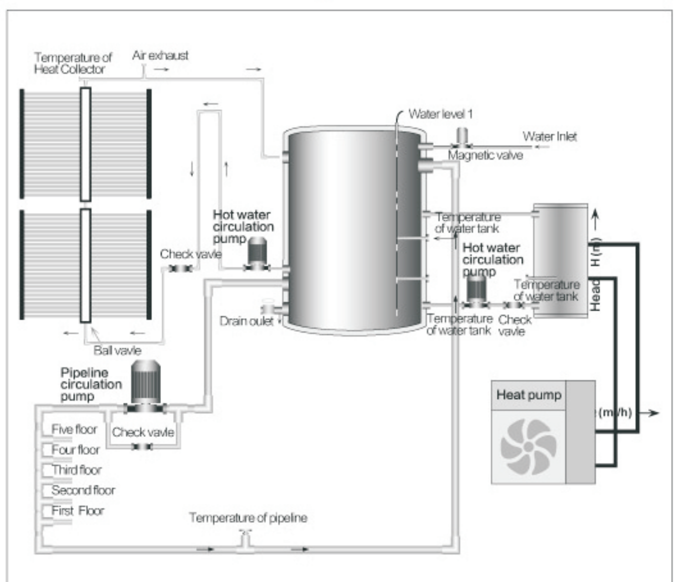
- Pump body: cast iron.
- Impeller: Engineering plastic/Brass.
- Mechanical seal: Ceramic/Sillicon-carbide/Fluororubber.
- Shaft: ceramic/stainless steel.

Model Definaton

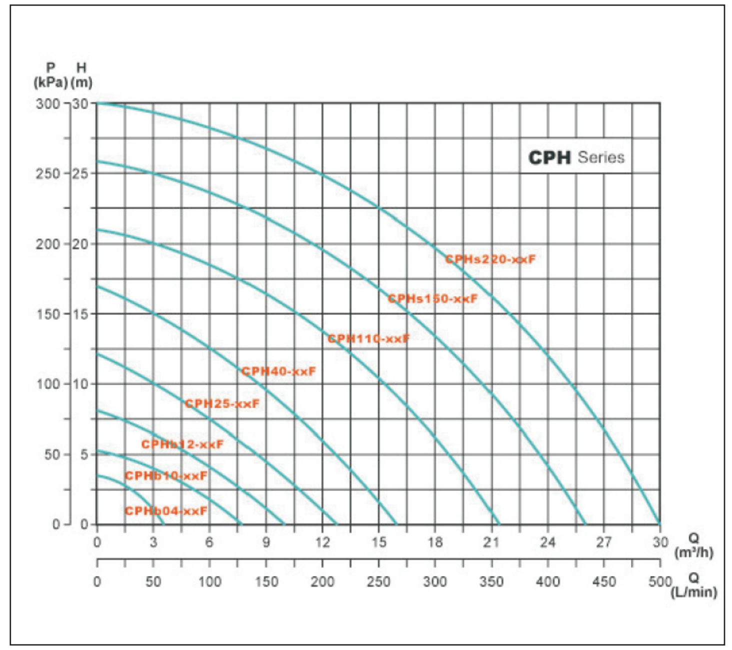
CPH b 25 - 50 F

- F: Flange connection
- 50: Inlet and Outlet diameter(mm)
- 25: Output power 25×10=250Watt
- b: b stands for canned motor, s stands for three phase, single phase without mart.
- CPH: Hot water circulation pump

Hot water circulation system installation

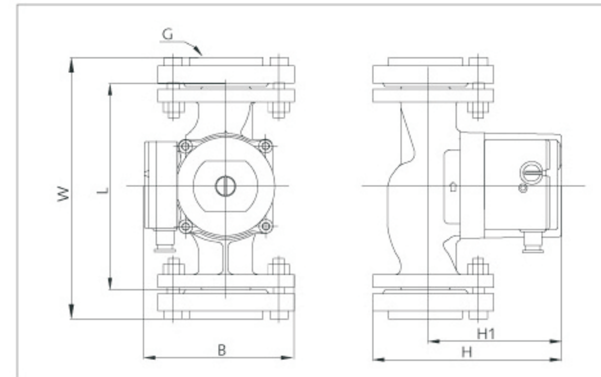


Performance Curve

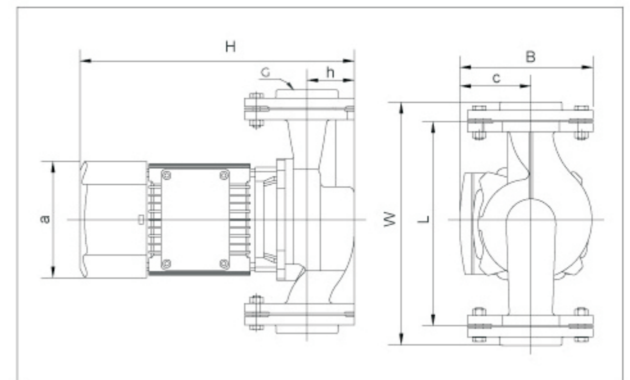


Model	H	h	a	L	B	c	W
CPH25-50/65/80F	328	65	136	280	160	85	335
CPH40-50/65/80F	385	70	172	280	195	112	335
CPH110-50/65/80F	385	70	172	280	195	112	335
CPHs150-40/50F	435	76	193	310	220	124	365
CPHs220-40/50F	435	76	193	310	220	124	365

Dimensional drawing and dimensions



Model	H	H1	L	B	W
CPHb04-25/32F	135	105	150	130	194
CPHb10-50/40F	185	130	210	150	264
CPHb12-50/40F	185	130	210	150	264



Technical data(Vossche can produce pumps with different voltage and frequency)

Model	Supply voltage	Input power (W)	Output power (W)	Rated Flow (m^3/h)	Rated head (m)	Max.Flow (m^3/h)	Max.Head (m)	Diameter (mm) (G)
CPHb04-25/32F	220V/50Hz	80	40	1.7	2.5	3	4	25(1")/32(1 1/4")
CPHb10-50/40F		150	100	3.2	3.5	8	5	50(2")/40(1 1/2")
CPHb12-50/40F		245	120	3.2	5.5	9	8	50(2")/40(1 1/2")
CPH25-50/65/80F		400	250	6	8.0	12	12	50(2")/65(2 1/2")/80(3")
CPH40-50/65/80F		900	400	10	10	17	17	50(2")/65(2 1/2")/80(3")
CPH110-50/65/80F		1500	1100	13	13	21	21	50(2")/65(2 1/2")/80(3")
CPHs150-40/50F	380V/50Hz	1800	1500	15	15	25	25	40(1 1/2")/50(2")
CPHs220-40/50F		3000	2200	18	20	30	30	40(1 1/2")/50(2")

Sectional Drawing Of XPS/BPS/ZP/ZPS

Stator assembly

100% pure copper wire and silicon steel are adopted, which guarantee to provide strong dynamic force.

Shielding sleeve

Mirror surface treatment technique is adopted in inner wall that is awarded national invention and patent technology.

Thrust bearing

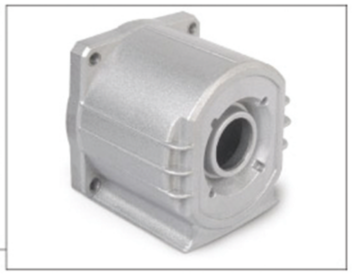
Carbon graphite is adopted, which has fine lubrification, low friction coefficiency, errosion-proof.

Lid corrugated hood

Ensure closed fix in high temperature and anti-corrosion.

Impeller

The pumps will be installed the engineering plastic impeller of PES、PEI、PP or SS impeller according to the working conditions.



Motor bracket

Surface treatment are done by phosphorization, electrophoresis, painting so that its appearance looks handiness and beauty.

Sheet gasket

Fine EPDM are adopted which possess the performance of fire resistance and high resiliency.

Radial bearing

Performance of low noise, high wearing resistance, long life expectancy.

Expansion sleeve

Enable to guarantee shaft closely fit with rotator in the long term of operating.

Pump cover

Stainless steel, anti-corrosion.

BPS-A

BPS-B

BPS-C

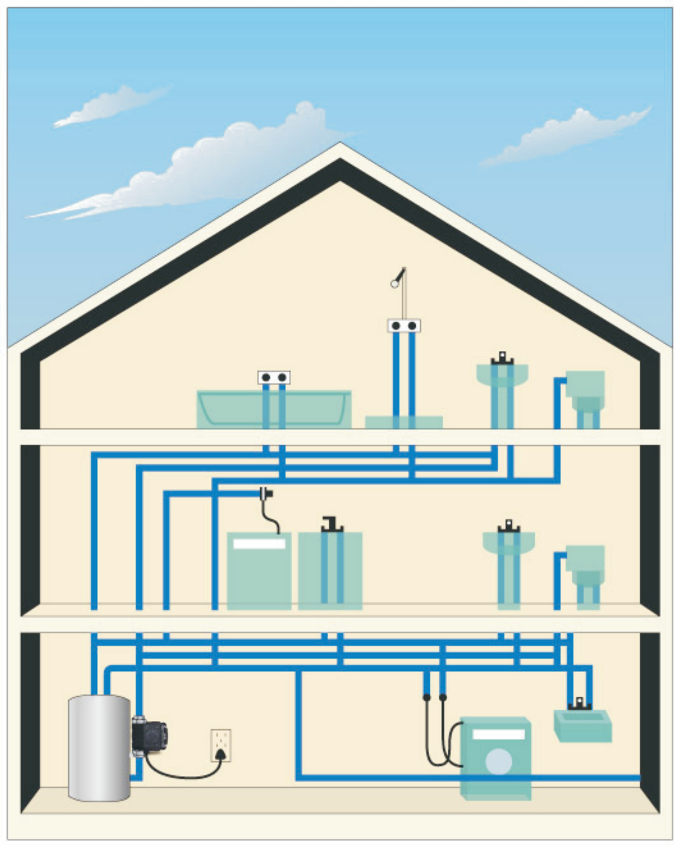
BPS-F

Brass pump body

ZP/ZPS

XPH

TIMING AND CONSTANT TEMPERATURE HIGH QUALITY CIRCULATION PUMP



XPH could automatically start or close operation according to either time or temperature set by user. The pump could also automatically start or close operation according to both time and temperature set by user. Once turn water faucet on, the hot water could be supplied according to temperature set by user.

XPH15-4-130
XPH20-4-130
XPH25-4-130
XPH25-4-180
XPH32-4-180
XPH15-5-130
XPH20-5-130
XPH25-5-130
XPH25-5-180
XPH32-5-180
XPH15-6-130
XPH20-6-130
XPH25-6-130
XPH25-6-180
XPH32-6-180

Pump for hot water circulation in hot water domestic systems of the closed and pressurised or open tank type. Also suitable for solar power systems.
Die-cast aluminium motor casing. Technopolymer impeller. Ceramic driving shaft mounted on graphite brushings Lubricated by the pumped liquid itself.
Stainless steel protective rotor sleeve and stator sleeve.
Ceramic thrust bearing, E.P.D.M. "O" rings.
No overload protection required.
Timing and constant temperature function.

Operating range: from 0 to 3.5m^3/h with head up to 6 metres.

Liauid temperature range: 2°C-110°C.

Ambient temperature range: 0°C-40°C.

Pumped liquid characteristics: Clean, free from solids and mineral oils, non viscous, chemically neutral, close to the characteristics of water (max. 30% glycol).

Maximum Working Pressure: 10bar(1000kpa).

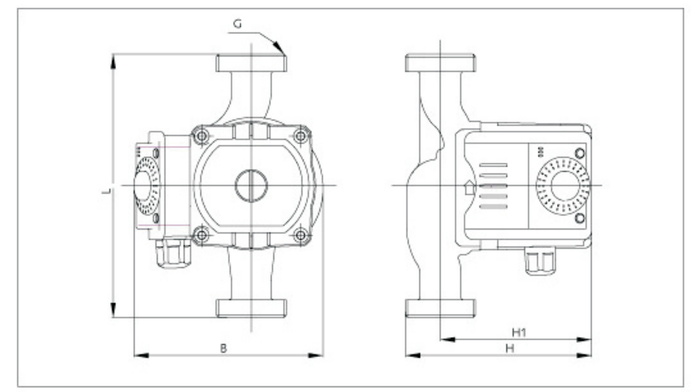
Protection level: IP44.

Voltage/Herz: 110V~240V:50/60Hz.

Insulation class: H.

Installation: with motor axis horizontal.

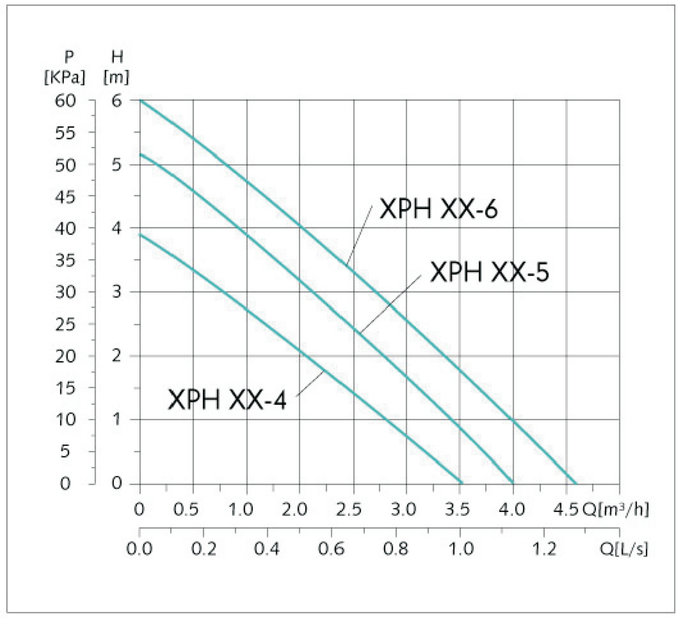
Dimensions



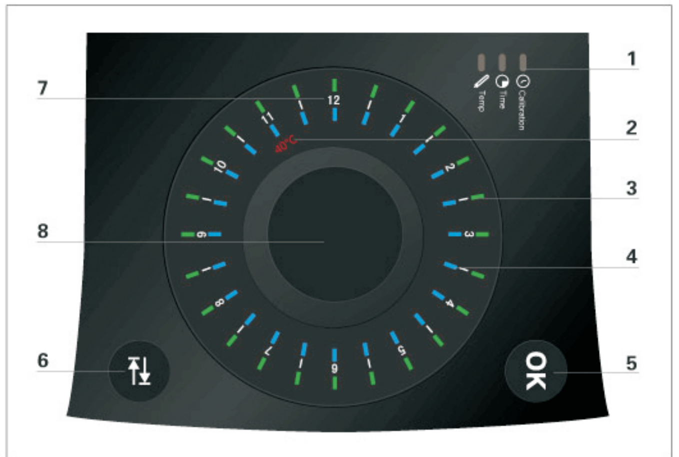
Technical Data

Model	Performance parameter		Measurement(mm)					Weight(kg)		Volume(m^3)
	P1 power(W)	In(A)	H	H1	L	G	B	N.W.	G.W.	
XPH15/20/25-4-130	60	0.26	125	105	130	¾"/ 1"/ ½"	125	2.4	2.8	0.003
XPH15/20/25-5-130	80	0.34	125	105	130	¾"/ 1"/ ½"	125	2.5	3.0	0.003
XPH15/20/25-6-130	90	0.4	125	105	130	¾"/ 1"/ ½"	125	2.5	3.0	0.003
XPH25/32-4-180	60	0.26	130	105	180	1½"/ 2"	125	2.8	3.4	0.004
XPH25/32-5-180	80	0.34	130	105	180	1½"/ 2"	125	2.9	3.5	0.004
XPH25/32-6-180	90	0.4	130	105	180	1½"/ 2"	125	2.9	3.5	0.004

Performance Curve



VOSSCHE XPH pump use innovative and friendly user interface, the main parts are listed below:



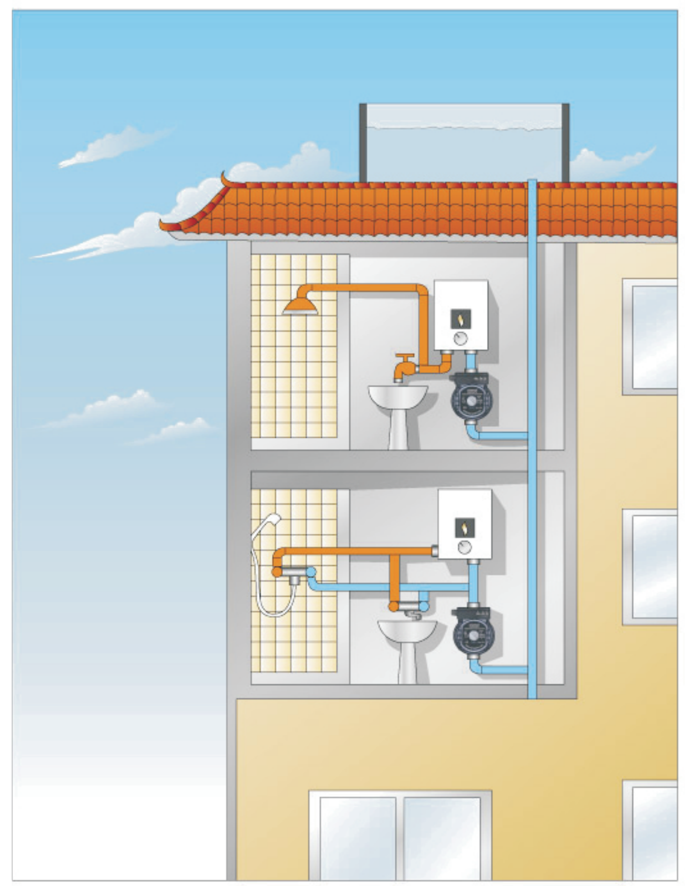
1 Mode LED, there are 3 system models: Current time calibration, Timer setting; Temperature setting.
2 Temperature LED, only lighting at "Temperature setting" Mode.
3 Time indicator LED, one circle means 12:00-24:00.
4 Time indicator LED, circle means 00:00-12:00.
5 OK Button, press this button to confirm settings; after setting progress, press this button for a long period (>2 seconds), system will go to automatic running.
6 Mode switching button, press this button to switch between 3 models.
7 Timer graduation.
8 Knob, rotate this knob to make friendly timer setting and temperature setting.

Electrical and Hydraulic Data

Model	Centre Distance (mm)	Electrical Data			Unions On Request	Max.flow (m^3/h)
		Voltage 50Hz	P1Max. (W)	In (A)	Standardized	
XPH15-4-130	130	220V	60	0.26	3/4"	2.0
XPH15-5-130			80	0.34	3/4"	2.0
XPH15-6-130			90	0.40	3/4"	2.0
XPH15-9-140	140	220V	120	0.48	3/4"	1.5
XPH20-4-130	130	220V	60	0.26	1"	2.2
XPH20-5-130			80	0.34	1"	2.2
XPH20-6-130			90	0.40	1"	2.2
XPH25-4-130	130	220V	60	0.26	1½"	3.0
XPH25-5-130			80	0.34	1½"	3.0
XPH25-6-130			90	0.4	1½"	3.0
XPH25-4-180	180	220V	60	0.26	1½"	3.0
XPH25-5-180			80	0.34	1½"	3.0
XPH25-6-180			90	0.40	1½"	3.0
XPH32-4-130	180	220V	60	0.26	2"	3.5
XPH32-5-130			80	0.34	2"	3.5
XPH325-6-130			90	0.40	2"	3.5

ZP/ZPS

AUTOMATIC PRESSURIZING HIGH QUALITY CIRCULATION PUMP



The circulation pumps are applied in sun energy, water heaters, automatic water supply pressure for household. Bronze, brass or cast iron pump body.

Operating range: from 0 to 3.5 m^3/h with head up to 12 meters.

ZP15-9-160
ZPS15-9-140
ZPS20-12-180


ZP


ZP


ZPS

The circulation pumps are applied in sun energy, water heaters, cold heaters, automatic water supply pressure for household.
Die-cast aluminium motor casing. Technopolymer impeler.
Ceramic driving shaft mounted on graphite brushings lubricated by the pumped liquid itself.
Stainless steel protective rotor sleeve, stator sleeve and automatic flow switch.
Ceramic thrust bearing, E.P.D.M. "O" rings.
Bronze, brass or cast iron pump body.
No overload protection required.
Operating range: from o to 3.5 m^3/h with head up to 12 metres.
Liquid temperature range: 2°C-95°C.
Ambient temperature range: 0°C-40°C.
Pumped liquid characteristics: clean, free from solids and mineral oils, non viscous, chemically neutral ,close to the characteristics of water (max.30% glycol).
Maximum working pressure: 10bar(1000kpa).
Protection level: IP44.
Voltage/Herz: 110V~240V;50/60Hz.
Insulation class: H.
Installation: With motor axis horizontal.

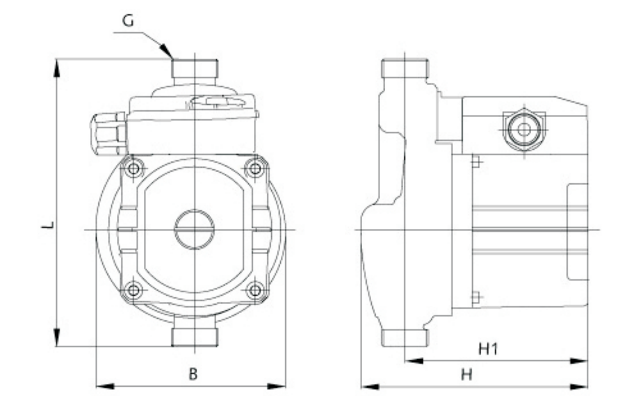

1" to ¾" steel


¾" to ½" steel


1" to ¾" brass


¾" to ½" brass

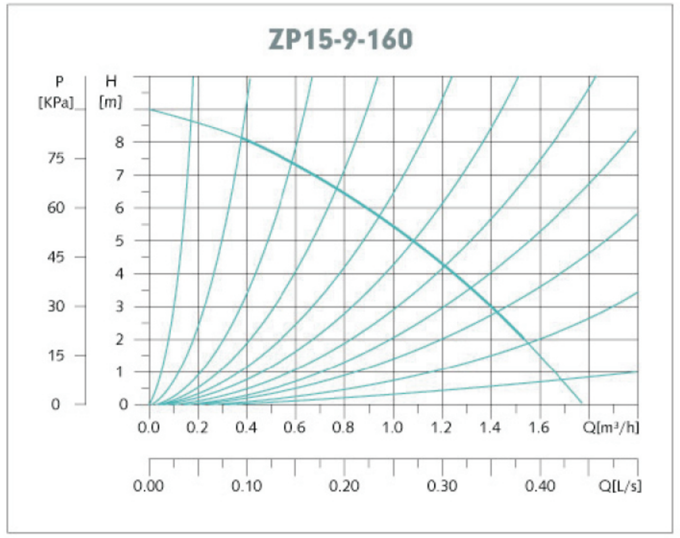
Dimensions

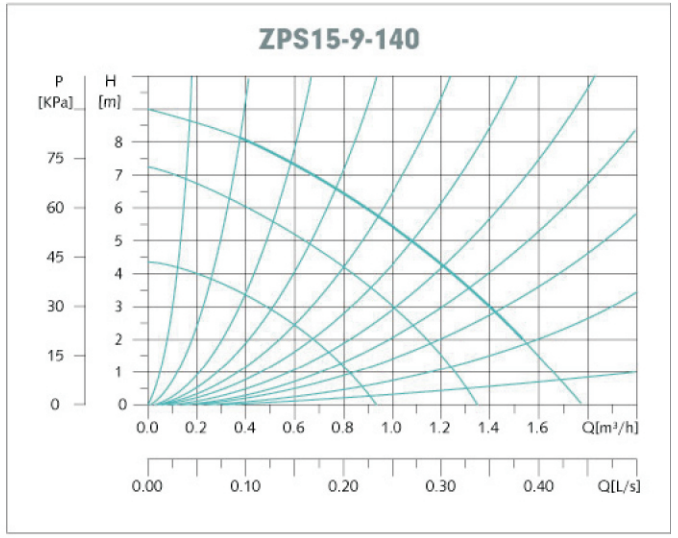


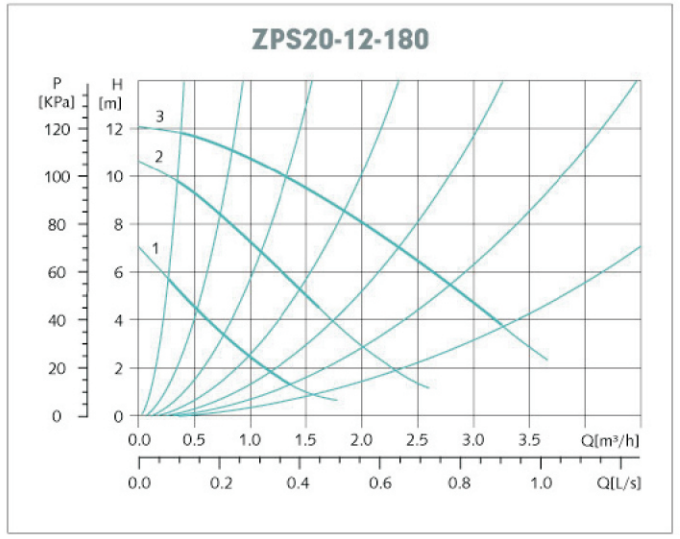
Technical Data

Model	Measurement(mm)					Weight(kg)		Volume(m^3)
	H	H1	L	G	B	N.W.	G.W.	
ZP15-9-160	125	102	160	¾"	105	2.5	2.8	0.003
ZPS15-9-140	125	102	140	¾"	105	2.5	2.8	0.003
ZPS20-12-180	156	135	180	1"	140	4.7	5	0.006

Performance Curve





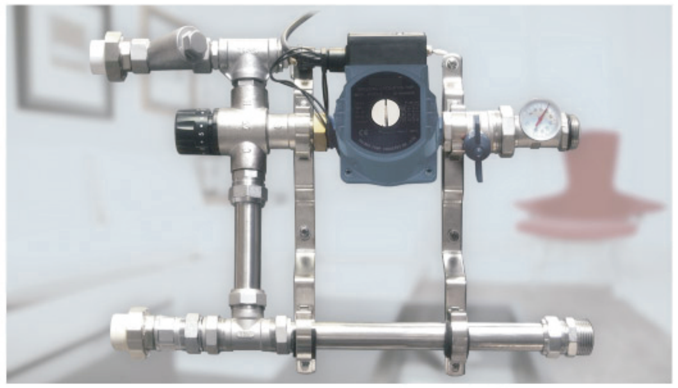


Electrical and Hydraulic Data

Model	Centre Distance (mm)	Electrical Data						Unions On Request	Max.flow (m^3/h)
		Voltage 50Hz	Speed	P1Max. (W)	In (A)	Capacitor uf	Capacitor Vc	Standardized	
ZP15-9-160	160	220W	-	120	0.48	3	450	¾"	1.6
ZPS15-9-140	140		3	120	0.48	3		¾"	1.6
			2	85	0.38				
			1	60	0.26				
ZPS20-12-180	180		3	245	1.04	6		1"	3.5
			2	210	0.92				
			1	140	0.63				

XPS

HIGH QUALITY CIRCULATION PUMP

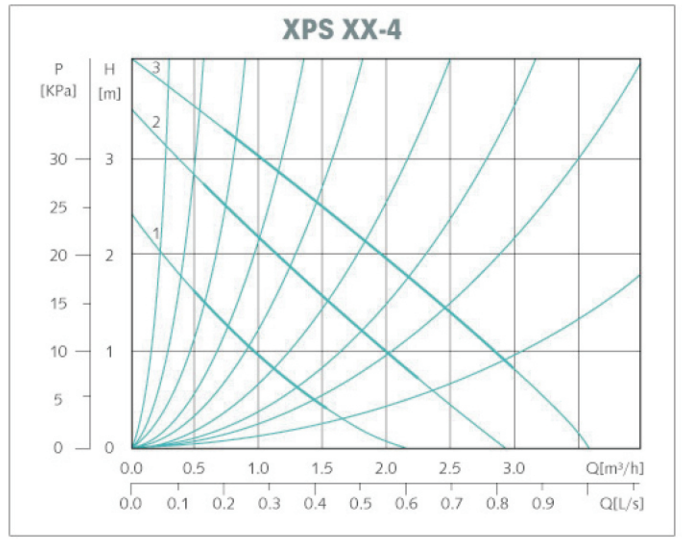


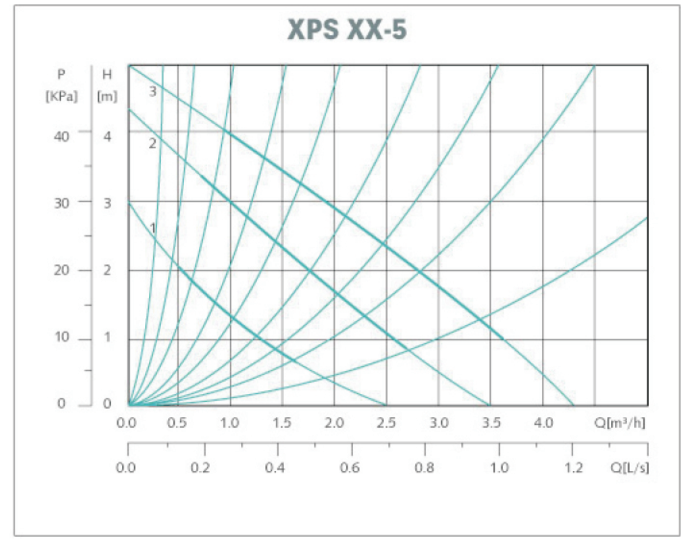
The circulation pumps are applied in sun energy, water heaters, industrial circulation systems, heating ventilating, small air con-ditioners, automatic water supply pressure for household, air source and ground heat source etc..
Bronze, brass or cast iron pump body.
Operating range: from 0 to 10 m^3/h with head up to 12 metres.

XPS15-4-130
XPS20-4-130
XPS25-4-130
XPS25-4-180
XPS32-4-180
XPS15-5-130
XPS20-5-130
XPS25-5-130
XPS25-5-180
XPS32-5-180
XPS15-6-130
XPS20-6-130
XPS25-6-130
XPS25-6-180
XPS32-6-180
XPS25-8-180
XPS32-8-180
XPS15-9-140
XPS25-12-180
XPS32-5F-220
XPS32-8F-220

The circulation pumps are applied in sun energy, water heaters, industrial circulation systems, heating ventilating, small air con-ditioners, automatic water supply pressure for household, air source and ground heat source etc..
Die-cast aluminium motor casing, Technopolymer impeller.
Ceramic driving shaft mounted on graphite brushings lubricated by the pumped liquid itself.
Stainless steel protective rotor sleeve, stator sleeve.
Ceramic thrust bearing, E.P.D.M "O" rings.
Bronze, brass or cast iron pump body. Three-shift adjustable speed.
No overload protection required.
Operating range: from 0 to 10 m^3/h with head up to 12 metres.
Liquid temperature range: 2°C−110°C
Ambient temperature range: 0°C-40°C
Pumped liquid characteristics: clean, free from solids and mineral oils, non viscous. chemically neutral , close to the characteristics of water (max.30% glycol).
Maximum working pressure: 10 bar(1000kpa).
Protection level: IP44.
Voltage/Herz: 110V~240V;50/60Hz.
Insulation class: H.
Installation: with motor axis horizontal.

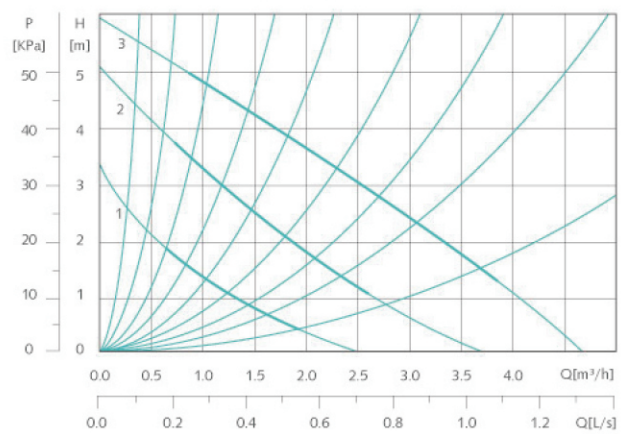
Performance Curve



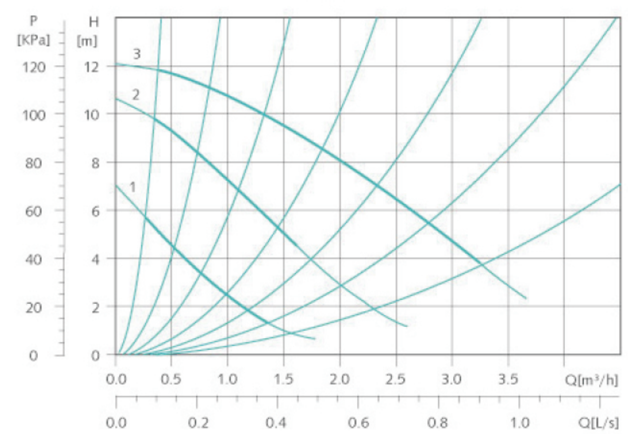


Performance Curve

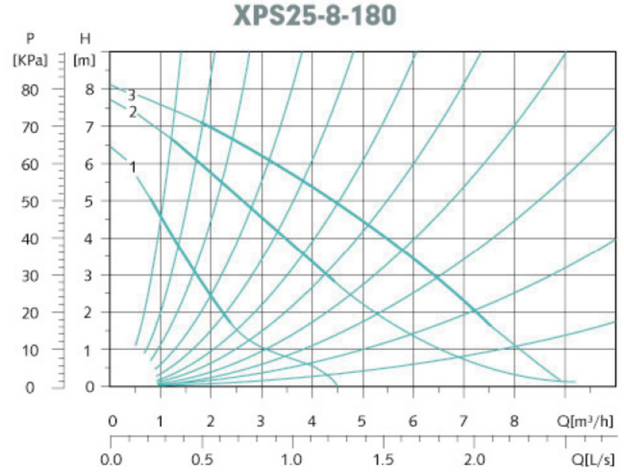
XPS XX-6



XPS XX-12



XPS25-8-180



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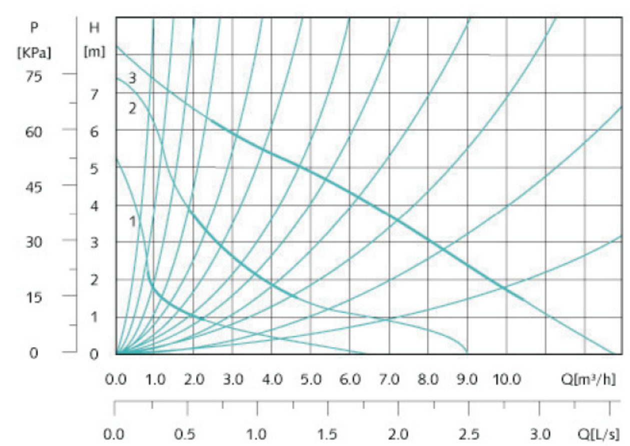

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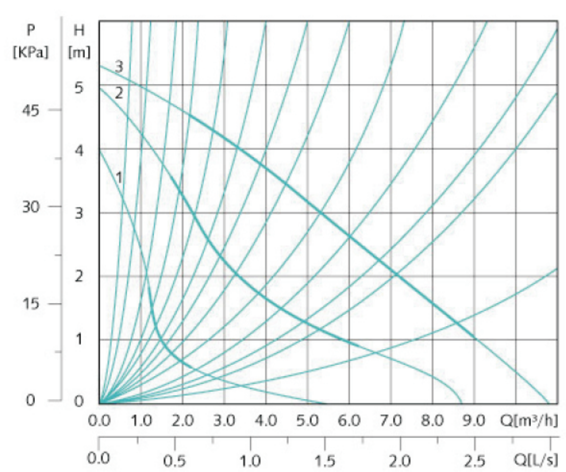

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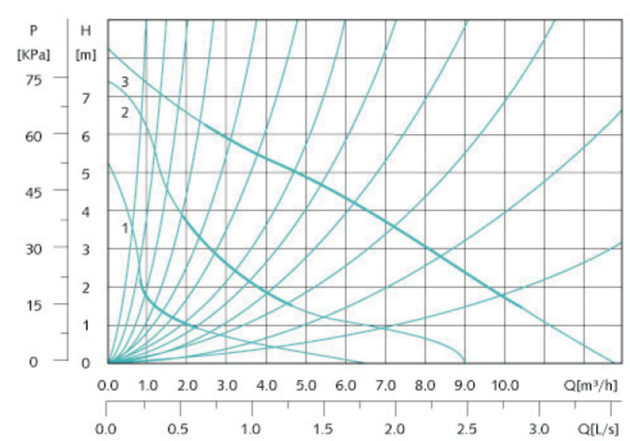
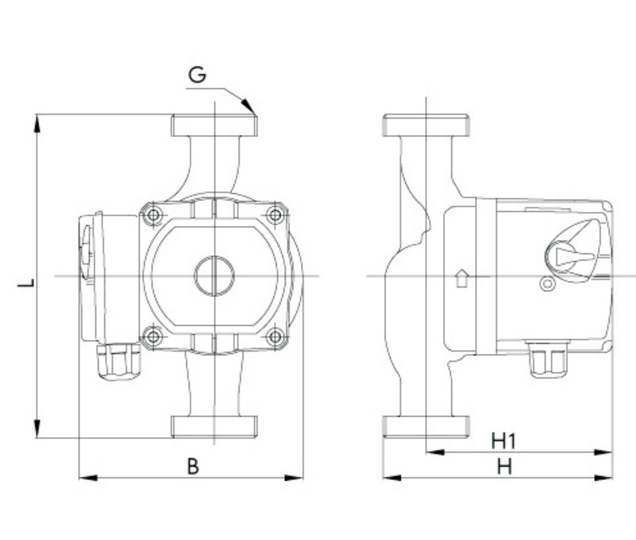
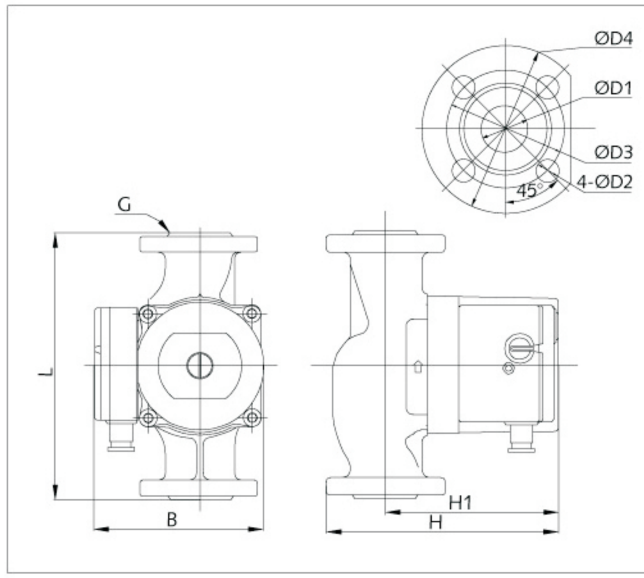


Dimensions





Technical Data

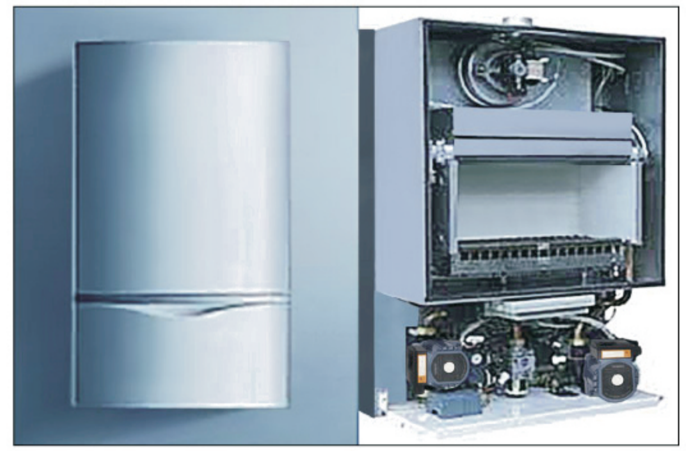
Model	Measurement(mm)									Weight(kg)		Volume(m^3)
	H	H1	L	G	B	D1	D2	D3	D4	N.W.	G.W.	
XPS15-4-130	120	105	130	3/4"	125	-	-	-	-	2.3	2.6	0.003
XPS15-5-130	120	105	130	3/4"	125	-	-	-	-	2.3	2.6	0.003
XPS15-6-130	120	105	130	3/4"	125	-	-	-	-	2.3	2.6	0.003
XPS15-9-140	125	102	140	3/4"	105	-	-	-	-	2.3	2.5	0.003
XPS20-12-180	160	135	180	1"	150	-	-	-	-	4.3	4.8	0.006
XPS20-4-130	130	105	130	1"	130	-	-	-	-	2.8	3.0	0.004
XPS25-4-130	130	105	130	1 1/2"	130	-	-	-	-	2.8	3.0	0.004
XPS25-4-180	130	105	18p	1 1/2"	130	-	-	-	-	2.8	3.0	0.004
XPS32-4-180	130	105	180	2"	130	-	-	-	-	2.8	3.0	0.004
XPS20-5-130	130	105	130	1"	130	-	-	-	-	2.8	3.0	0.004
XPS25-5-130	130	105	130	1 1/2"	130	-	-	-	-	2.8	3.0	0.004
XPS25-5-180	130	105	180	1 1/2"	130	-	-	-	-	2.8	3.0	0.004
XPS32-5-180	130	105	180	2"	130	-	-	-	-	2.8	3.0	0.004
XPS20-6-130	130	105	130	1"	130	-	-	-	-	2.8	3.0	0.004
XPS25-6-130	130	105	130	1 1/2"	130	-	-	-	-	2.8	3.0	0.004
XPS25-6-180	130	105	180	1 1/2"	130	-	-	-	-	2.8	3.0	0.004
XPS32-6-180	130	105	180	2"	130	-	-	-	-	2.8	3.0	0.004
XPS25-12-180	160	130	180	1 1/2"	150	-	-	-	-	4.2	4.5	0.008
XPS25-8-180	160	130	180	1 1/2"	150					4.2	4.5	0.008
XPS32-8-180	170	130	180	2"	150	-	-	-	-	4.7	5.0	0.008
XPS32-5F-220	185	130	220	Flange	150	32	14	100	140	7.0	7.5	0.01
XPS32-8F-220	185	130	220	Flange	150	32	14	100	140	7.5	8.0	0.01

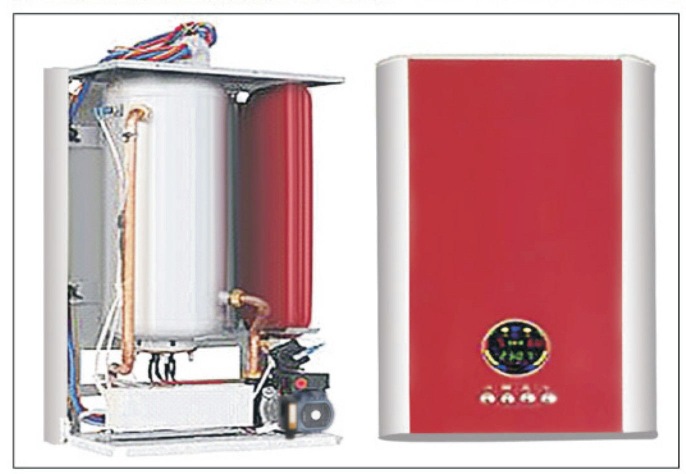
Electrical and Hydraulic Data

Model	Centre Distance (mm)	Electrical Data: Voltage 50Hz	Speed	P1Max. (W)	In (A)	Capacitor uf	Capacitor Vc	Unions On Request Standardized	Max.flow (m^3/h)
XPS15-4-130			3 2 1	60 45 30	0.26 0.20 0.13	2	450	3/4"	3.5
XPS15-5-130	130	220V	3 2 1	80 50 35	0.34 0.24 0.15	2.5	450	3/4"	3.5
XPS15-6-130			3 2 1	90 65 45	0.40 0.30 0.20	2.5	450	3/4"	3.5
XPS15-9-140	140	220V	3 2 1	120 85 60	0.48 0.38 0.26	3	450	3/4"	1.6
XPS20-4-130			3 2 1	60 45 30	0.26 0.20 0.13	2	450	1"	3.5
XPS20-5-130	130	220V	3 2 1	80 55 35	0.34 0.24 0.15	2.5	450	1"	3.5
XPS20-6-130			3 2 1	90 65 45	0.40 0.30 0.20	2.5	450	1"	3.5
XPS20-12-180	180	220V	3 2 1	245 210 140	1.04 0.92 0.63	6	450	1"	3.5
XPS25-4-130			3 2 1	60 45 30	0.26 0.20 0.13	2	450	1½"	3.5
XPS25-5-130	130	220V	3 2 1	80 55 35	0.34 0.24 0.15	2.5	450	1½"	3.5
XPS25-6-130			3 2 1	90 65 45	0.40 0.30 0.20	2.5	450	1½"	3.5
XPS25-4-180			3 2 1	60 45 30	0.26 0.20 0.13	2	450	1½"	3.5
XPS25-5-180			3 2 1	80 55 35	0.34 0.24 0.15	2.5	450	1½"	3.5
XPS28-6-180	180	220V	3 2 1	90 65 45	0.40 0.30 0.20	2.5	450	1½"	3.5
XPS25-8-180			3 2 1	200 185 145	0.83 0.78 0.62	6	450	1½"	7
XPS25-12-180			3 2 1	245 210 140	1.04 0.92 0.63	6	450	1½"	3.5
XPS32-6-180			3 2 1	60 45 30	0.26 0.20 0.13	2	450	2"	3.5
XPS32-5-180	180	220V	3 2 1	80 55 35	0.34 0.24 0.15	2.5	450	2"	3.5
XPS32-6-180			3 2 1	90 65 45	0.40 0.30 0.20	2.5	450	2"	3.5
XPS32-8-180			3 2 1	245 210 140	1.04 0.92 0.63	6	450	2"	9
XPS32-5F-220	220	220V	3 2 1	 145 135	0.65 0.60 0.45	4	450	DN32	10
XPS32-8F-220			3 2 1	245 210 140	1.04 0.92 0.63	6	450	DN32	10

BPS

AUTOMATIC EXHAUST HIGH QUALITY CIRCULATION PUMP-A TYPE





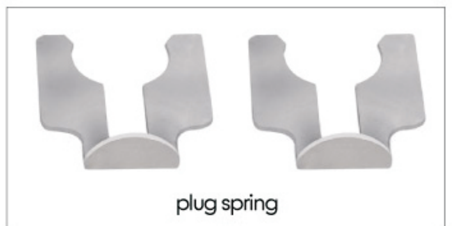
The circulation pumps are applied in hot-cold water circulation, wall mounted boiler and cooling system.

Three-shift adjustable speed.

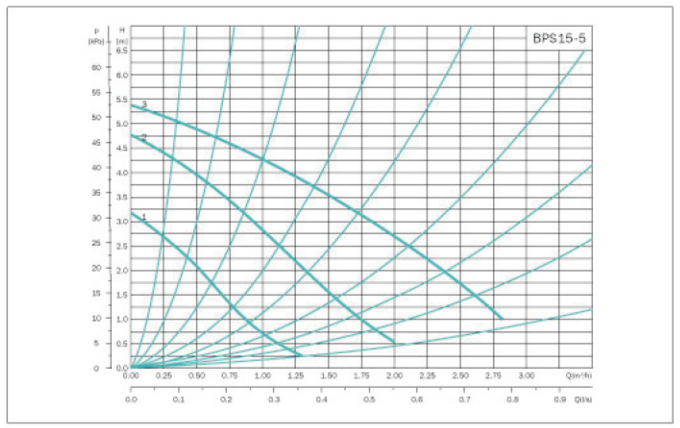
Operating range: from 0 to 2.8 m^3/h with head up to 7metres.

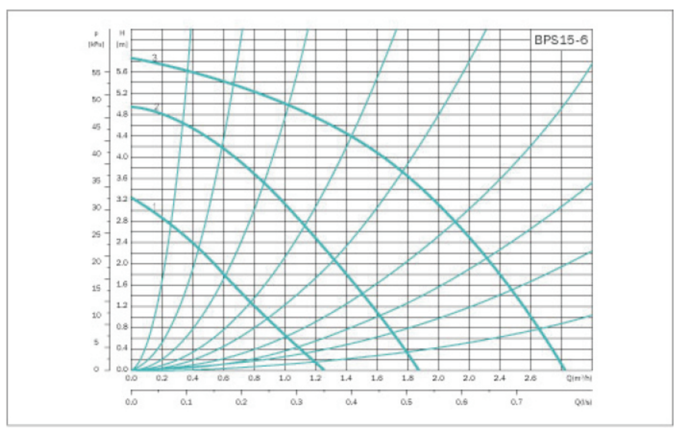
BPS15-5A
BPS15-5A
BPS15-5A
BPS15-5B
BPS15-6B
BPS15-7B
BPS15-5C
BPS15-6C
BPS15-7C

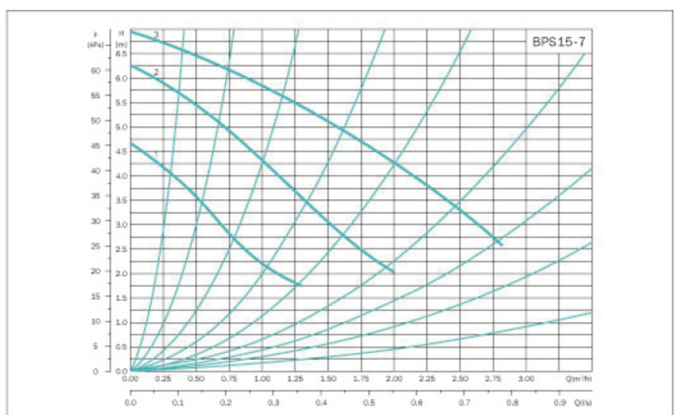
The circulation pumps are applied in hot-cold water circulation, wall mounted boiler and cooling system.
Die-cast aluminium motor casing, Technopolymer impeller, Stainless steel shaft, SIC bearing, mounted on graphite brushings lubricated by the pumped liquid itself.
Inlet exhaust valve applied.
Stainless steel protective rotor sleeve, staor sleeve, Three-shoft adjustable speed.
Ceramic thrust bearing, E.P.D.M. "O" rings.
No overload protection required.
Operating range: from 0 to 2.8 m^3/h with head up to 7 metres.
Liquid temperature range: 2°C-95°C.
Ambient temperature range: 0°C-40°C.
Pumped liquid characteristics: clean, free from solids and mineral oils, non viscous, chemically neutral, close to the characteristics of water (max.30% glycol).
Maximum working pressure: 3bar(300kpa).
Protection level: IP44.
Voltage/Herz: 110V~240V;50/60Hz.
Insulation class: H.
Installation: with motor axis horizontal.



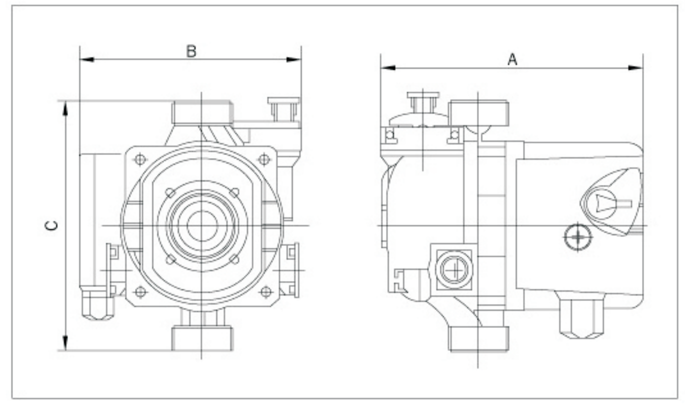
Performance Curve

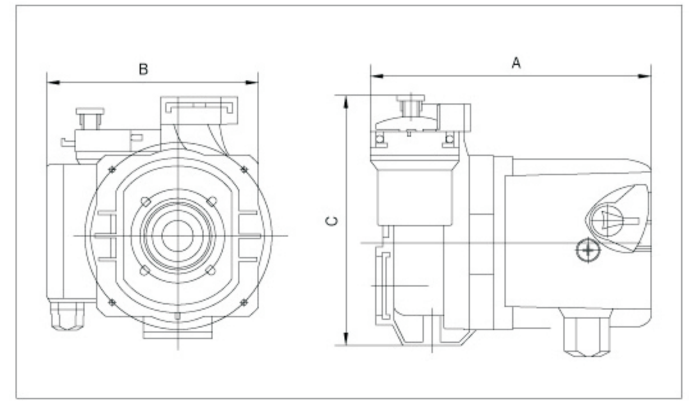






Dimensions





Electrical and Hydraulic Data

Model	Centre Distance (mm)	Electrical Data						Unions On Request	Max.flow (m^3/h)
		Voltage 50Hz	Speed	P1Max. (W)	In (A)	Capacitor uf	Capacitor Vc	Standardized	
BPS15-5A	-	220V	3 2 1	95 75 50	0.41 0.33 0.23	2.5	450	-	2.8
BPS15-6A	-	220V	3 2 1	105 80 55	0.43 0.36 0.26	2.5	450	-	2.8
BPS15-7A	-	220V	3 2 1	130 85 60	0.56 0.37 0.28	3	450	-	2.8
BPS15-5B	130	220V	3 2 1	95 75 50	0.41 0.33 0.23	2.5	450	1"	2.8
BPS15-6B	130	220V	3 2 1	105 80 55	0.43 0.36 0.26	2.5	450	1"	2.8
BPS15-7B	130	220V	3 2 1	130 85 60	0.56 0.37 0.28	3	450	1"	2.8
BPS15-5C	-	220V	3 2 1	95 75 50	0.41 0.33 0.23	2.5	450	3/4"	2.8
BPS15-6C	-	220V	3 2 1	105 80 55	0.43 0.36 0.26	3	450	3/4"	2.8
BPS15-7C	-	220V	3 2 1	130 85 60	0.56 0.37 0.28	3	450	3/4"	2.8

Technical Data

Model	Input power (w)	Max.flow (m^3/h)	Max.Head (m)	Diameter of inlet and outlet (mm)	Measurement(mm)			Weight(kg)		Volume (m^3)
					A(mm)	B(mm)	C(mm)	N.W.	G.W.	
BPS15-5A	95/75/50	2.8	5	15	135	115	124	2.1	2.2	0.002
BPS15-6A	105/80/55	2.8	6	15	135	115	124	2.2	2.3	0.002
BPS15-7A	130/85/60	2.8	7	15	135	115	124	2.3	2.4	0.002
BPS15-5B	95/75/50	2.8	5	15	144	125	130	2.1	2.2	0.002
BPS15-6B	105/80/55	2.8	6	15	144	125	130	2.2	2.3	0.002
BPS15-7B	130/85/60	2.8	7	15	144	125	130	2.3	2.4	0.002
BPS15-5C	95/75/50	2.8	5	15	135	115	124	2.1	2.2	0.002
BPS15-6C	105/80/55	2.8	6	15	135	115	124	2.2	2.3	0.002
BPS15-7C	130/85/60	2.8	7	15	135	115	124	2.3	2.4	0.002

Sectional Drawing Of XP

Stator assembly

100% pure copper wire and silicon steel are adopted, which guarantee to provide strong dynamic force.

Shdft sleeve

Shaft sleeve made up by carborundum features good performance of good wearing resistance and low ratio of thermal expension.

Bearing

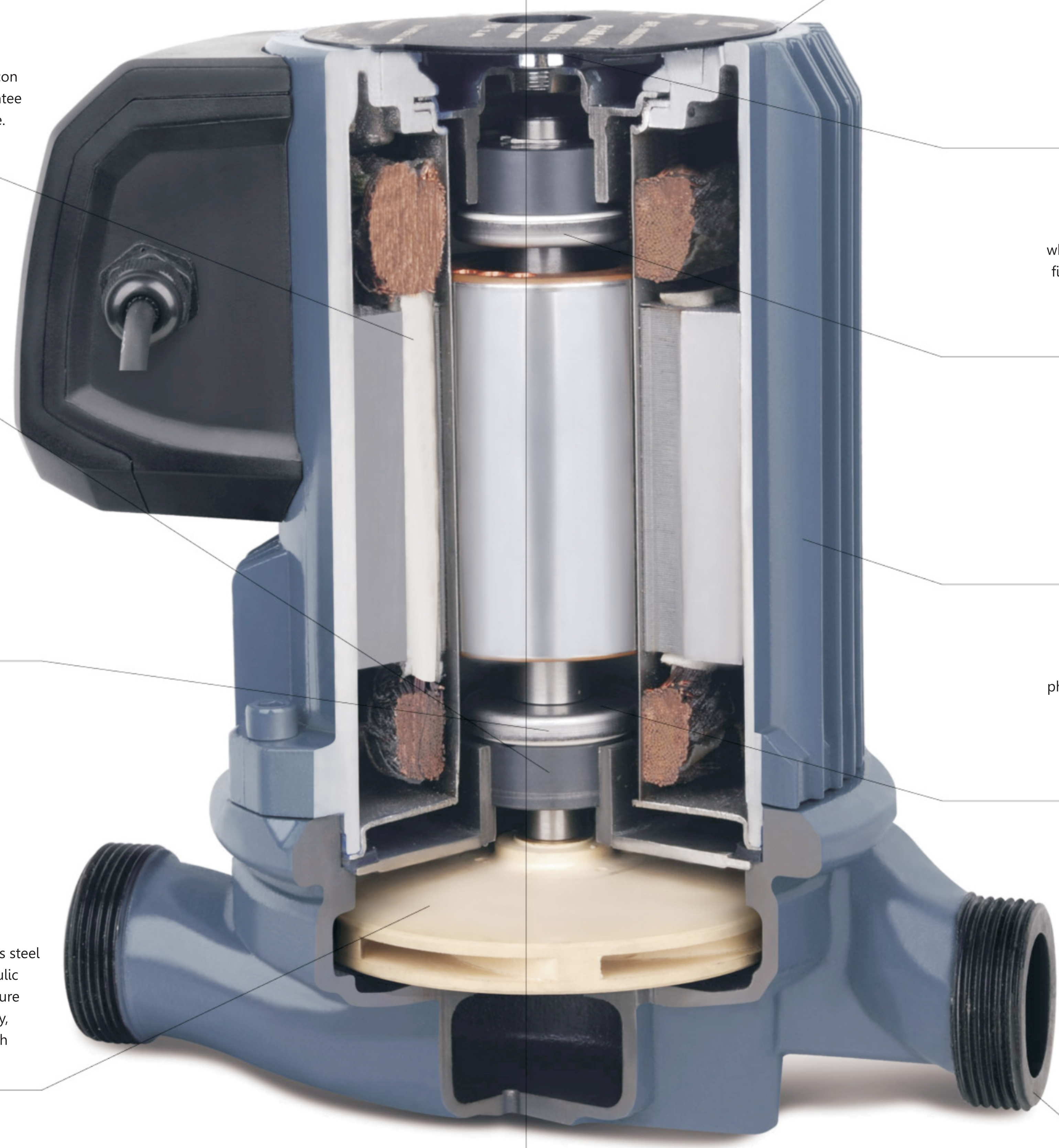
Bearing made up by carborundum features fine wear resisting and low ratio of thermal expension ensure it long life expectancy.

Bearing block

By dismantling fixed screw, it is an easy job for bearing replacement.

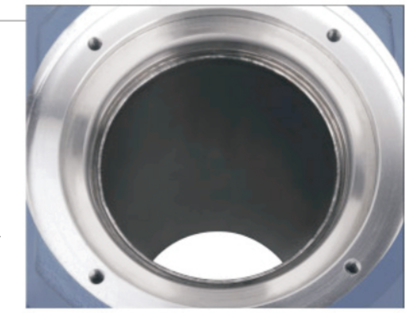
Impeller

Modified plastic PPO or stainless steel which used for advanced hydraulic model are adopted so as to ensure that flow and head keep stability, normal operating is done in high temperature.



Shielding sleeve

Welding used for housing and pump body hood ensure supporting bearing.

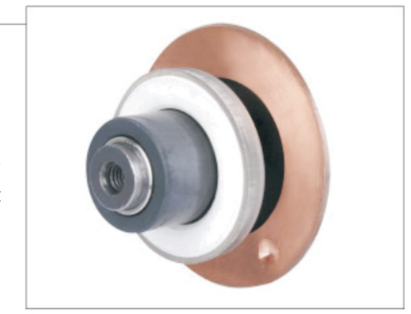


Sheet gasket

Fine EPDM are adopted which possess the peformance of fire resitance and high resiliency.

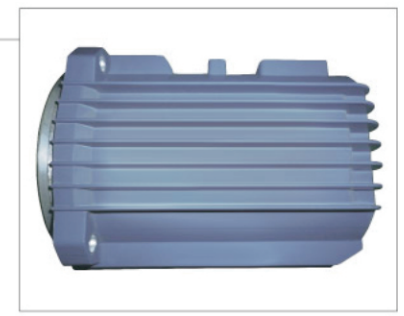
Shaft

Unique designing structure are adopted so that the product reliability are guarantee.



Motor bracket

Surface treatment are done by phosphorization, electrophoresis, painting so that its appearance is handiness and beauty.



Thrust bearing

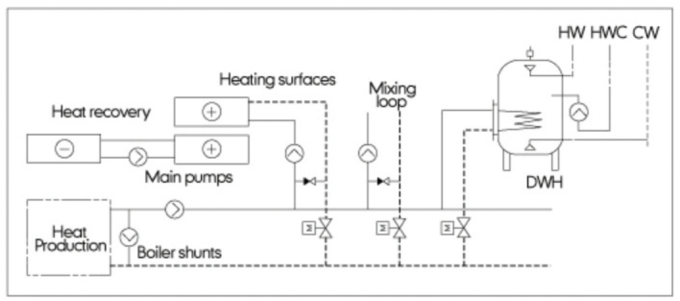
High performance of wearing resistance, long life expectancy.

Pump body

Cast iron pump body which its surface double treatment are done so that looks handiness and beauty.

XP

ADJUSTABLE/UNADIUSTAME SPEED HIGH QUALITY CIRCULATION PUMP



The circulation pumps are applied in sun energy, water heaters, industrial circulation systems, heating ventilating, small air conditioners, automatic water supply pressure for household, air source and ground heat source etc.

Bronze, brass cast iron pump body.

Operating range: from 0 to 30 m^3/h with head up to 18 metres.

XP32-9-220
XP32-12-220
XP32-16-230
XP32-18-230
XP40-9F-250
XP40-12F-250
XP40-16F-250
XP40-18F-250
XP50-9F-280
XP50-12F-280
XP50-16F-280
XP65-9F-300
XP65-12F-300

The circulation pumps are applied in sun energy, water heaters, industrial circulation systems, heating ventilating, middle air conditioners, automatic water supply pressure for household, air source and ground heat source etc..

Die-cast aluminium motor casing, Technopolymer impeller. Stainless steel shaft, SIC bearing mounted on graphite brushings lubricated by the pumped liquid itself.

Stainless steel protective rotor sleeve, stator sleeve. Ceramic thrust bearing, E.P.D.M "O" rings.

Operating range: from 0 to 10 m^3/h with head up to 18 metres.

Liquid temperature range: 2℃-110℃.

Ambient temperature range: 0℃-40℃.

Pumped liquid characteristics: clean, free from solids and mineral oils, non viscous. chemically neutral, close to the characteristics of water (max.30% glycol).

Maximum working pressure: 10 bar(1000kpa).

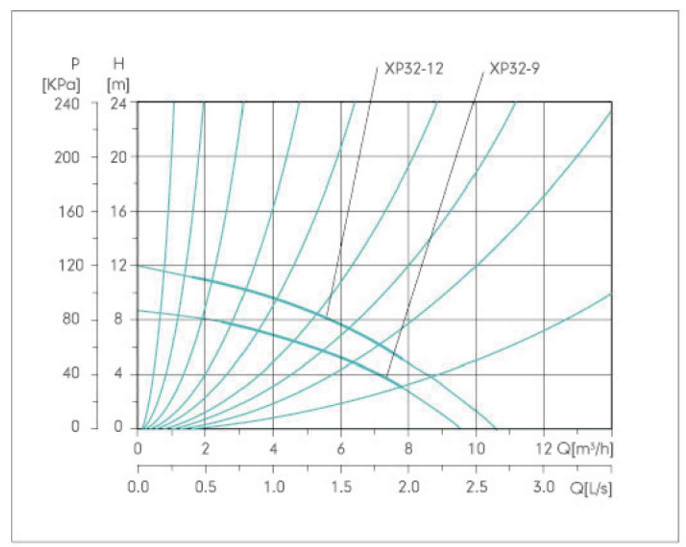
Protection level: IP44.

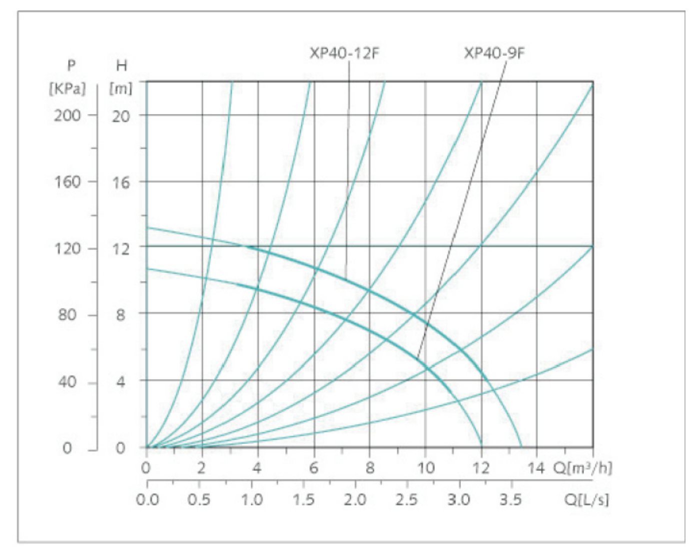
Voltage/Herz: 110V~240V; 380V;50/60Hz.

Insulation class: F.

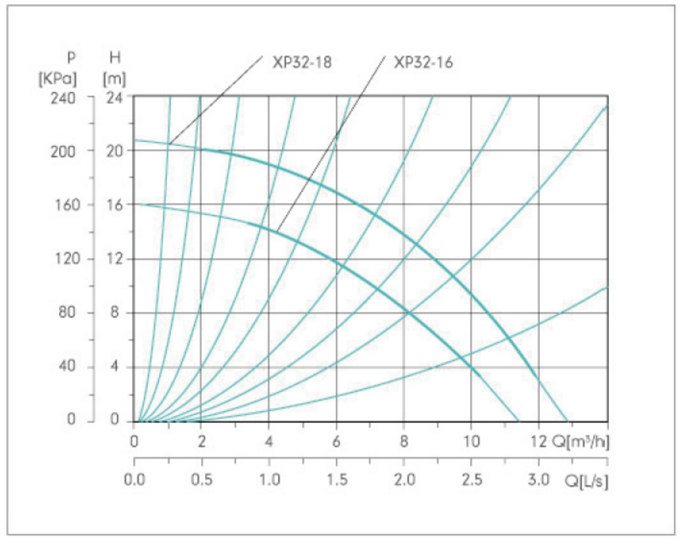
Installation: with motor axis horizontal.

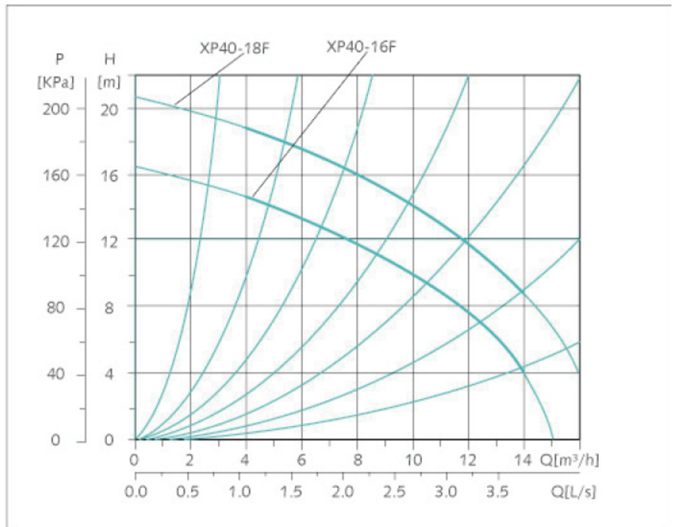
Performance Curve

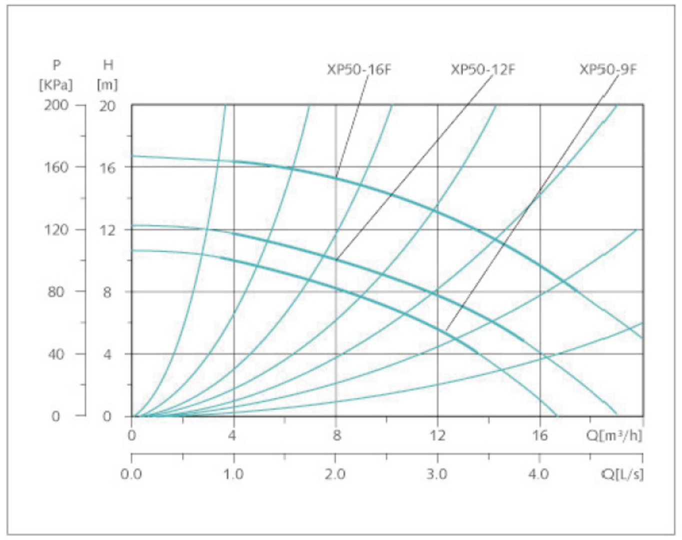


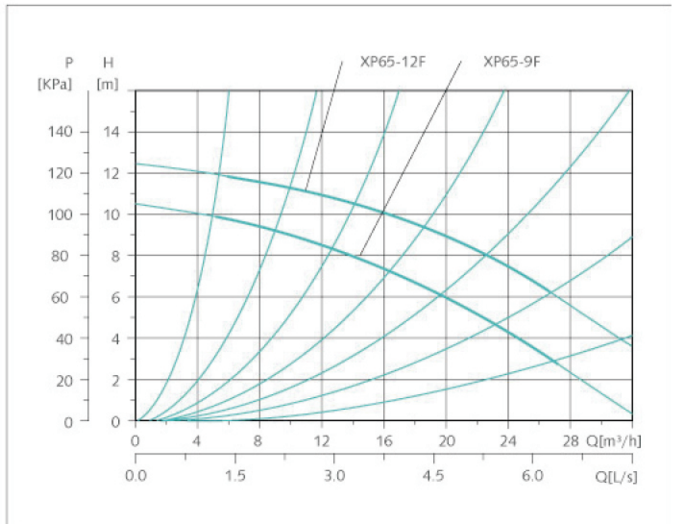


Performance Curve

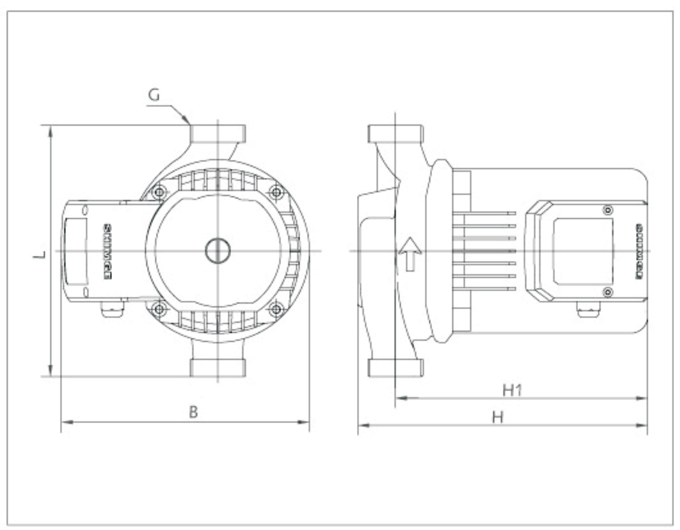


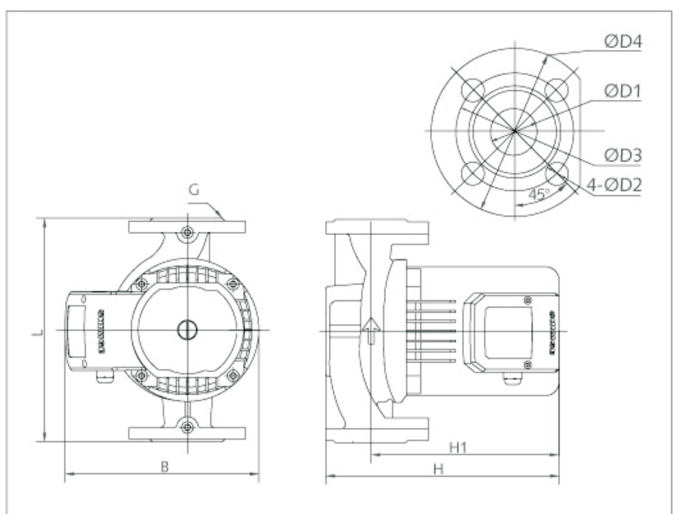






Dimensions





Electrical and Hydraulic Data

Model	Centre Distance (mm)	Electrical Data			Capacitor		Unions On Request	Max.flow (m^3/h)
		Voltage 50Hz	P1Max. (W)	In (A)	uf	Vc	Standardized	
XP32-9-220	220	220V	300	1.5	8	450	G1½"	10
XP32-12-220			500	2.5	10	450	G1½"	11
XP32-16-230	230	220V	700	3.4	12.5	450	G1½"	11
XP32-18-230			1000	4.9	16	450	G1½"	12
XP40-9F-250	250	220V	500	2.5	10	450	DN40	14
XP40-12F-250			700	3.4	12.5	450	DN40	14
XP40-16F-250			1000	4.9	16	450	DN40	15
XP40-18F-250			1300	5.8	25	450	DN40	15
XP50-9F-280	280	220V	700	3.4	12.5	450	DN50	18
XP50-12F-280			1000	4.9	16	450	DN50	22
XP50-16F-280			1300	5.8	25	450	DN50	23
XP65-9F-300	300	220V	1000	4.9	16	450	DN65	30
XP65-12F-300			1300	5.8	25	450	DN65	30

Technical Data

Model	Rated Flow Q(M^3/h)	Rated head H(M)	Rated Power P(w)	Rated Current In(A)	Synchro-speed n(r/mm)	Inlet and outlet flange
XP32-9-220	5	5	150	1.5	3000	G1½"
XP32-12-220	5	8	280	2.5	3000	G1½"
XP32-16-230	5	12.5	400	3.4	3000	G1½"
XP32-18-230	5	16	600	4.9	3000	G1½"
XP40-9F-250	8	5	280	2.5	3000	DN40
XP40-12F-250	8	8	400	3.4	3000	DN40
XP40-16F-250	8	12.5	600	4.9	3000	DN40
XP40-18F-250	8	16	750	5.8	3000	DN40
XP50-9F-280	12.5	5	400	3.4	3000	DN50
XP50-12F-280	12.5	8	600	4.9	3000	DN50
XP50-16F-280	12.5	12.5	750	5.8	3000	DN50
XP65-9F-300	20	5	600	4.9	3000	DN65
XP65-12F-300	20	8	750	5.8	3000	DN65

Model	Measurement(mm)									Weight(kg)		Volume(m^3)
	H	H1	L	G	B	D1	D2	D3	D4	N.W.	G.W.	
XP32-9-220	230	180	220	G1½"	180	-	-	-	-	7	8	0.02
XP32-12-220	230	180	220	G1½"	180	-	-	-	-	8	9	0.02
XP32-16-230	255	220	230	G1½"	220	-	-	-	-	12	13	0.02
XP32-18-230	255	220	230	G1½"	220	-	-	-	-	14	15	0.02
XP40-9F-250	230	180	250	Flange	180	40	19	110	150	11	13	0.02
XP40-12F-250	230	210	250	Flange	220	40	19	110	150	16	18	0.02
XP40-16F-250	260	210	250	Flange	220	40	19	110	150	18	20	0.02
XP40-18F-250	260	250	250	Flange	240	40	19	110	150	26	28	0.02
XP50-9F-280	330	210	280	Flange	220	50	19	125	165	17	20	0.02
XP50-12F-280	280	210	280	Flange	220	50	19	125	165	18	21	0.02
XP50-16F-280	330	250	280	Flange	240	50	19	125	165	24	27	0.06
XP65-9F-300	300	220	300	Flange	220	65	19	145	185	19	22	0.04
XP65-12F-300	330	250	300	Flange	240	65	19	145	185	26	29	0.06

MODEL DESCRIPTION & SPARE PARTS

P Series Product Type Description

□P□□-□□-□

- Distance between inlet and outlet(mm)
- Line connection: "F" for flange. No"F" for thread
- Max. Head(m).
- Diameter of intake(mm)
- "S"for gear speed regulating; "E"for electronic speed regulating; "H"for timing and constant temperature type; No "H" for fixed rotating speed
- Single phase canned motor pump
- "X" for basic circulation type; "B" for automatic exhaust circulation type; "Z" for automatic pressurization type

SPARE PARTS

No.	Unions On Request Standardized	Materual	Picture	Styles	
1	3/4"to 1/2"	Brass or Iron		APS15-4/5/6-130、XPH15-4/5/6-130、XPH15-9-140、ZP15-9-160、ZP15-9-140、ZP15-4/5/6-130、XPS15-9-140、BPS15-5/6/7B	
2	1" to 3/4"	Brass or Iron		APS20-4/5/6-130、XPH20-4/5/6-130、ZPS20-12-180、XPS20-4/5/6-130、XPS20-12-180、BPS15-5/6/7B	
3	1½" to 1"	Iron		APS25-4/5/6-130、APS25-4/5/6-180、XPS25-4/5/6-130 XPS25-4/5/6-180、XPH25-4/5/6-130、XPH25-4/5/6-180、XPS25-8-180、XPS25-12-180、XP32-9/12-220、XP32-16/18-230	
4	2" to 1¼"	Iron		APS32-4/5/6-180、XPS32-4/5/6-180 XPS25-4/5/6-180、XPS32-8-180	
5	(Dn32)	Iron		XPS32-5F-220、XPS32-8F-220	
6	(Dn40)	Iron		XP40-9F-250、XP40-12F-250 XP40-16F-250、XP40-18F-250	
7	(Dn50)	Iron		XP50-9F-280、XP50-12F-280 XP50-16F-280	
8	Support	Stainless steel		XPS/XPH15/20/25/32-4/5/6 BPS系列、Z(X)PS15-9	
9	Support	Stainless steel		X(Z)PS20-12、XPS25-8/12 XPS32-8、XPS32-5F	

Memo