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Circulation Pump

50Hz/60Hz

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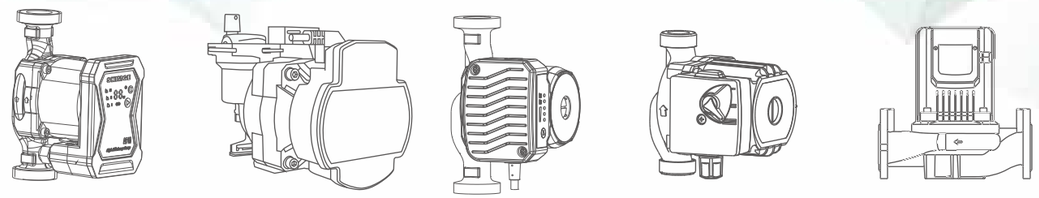

Shimge Pump (JIANGSU) Co. Ltd.

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SHIMGE PUMP (JIANGSU) CO.,LTD

SHIMGE PUMP (JIANGSU) CO.,LTD

SHIMGE
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CONTENTS

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Company Profile

Established in 1984 and headquartered in Daxi Town, Wenling City, Zhejiang Province—a town with flourishing pump industry, Shimge Pump Industry (Zhejiang) Co., Ltd. is a limited liability company specialized in producing various kinds of pumps and control equipment. For over three decades, Shimge Pump Industry has been committed to technical researches, manufacturing and marketing of all kinds of pumps and control equipment, as well as providing first-class pumps and water treatment system solutions for the world.

Based on keen market insight, the company developed the "screw pump" in 1987, which filled the gap in the domestic market at that time. Due to its excellent quality, Shimge soon stood out in the industry, and started its journey as a legendary brand in China's pump industry. The company was once successfully listed in the A-share market in Shenzhen Stock Exchange on December 31, 2010 (stock code: 002532. According to the development strategy of the company, it was delisted in the form of asset reorganization and completed privatization in July 2020`). Currently, the company has 6 major brands, 12 product series with more than 2,000 specifications, and 8 holding subsidiaries, becoming a real leading brand in China's pump industry.

Shimge's production base in HangZhou, Zhejiang Province

Shimge's production base in SanChiku, Wenling, Zhejiang Province

Shimge's casting parts production base in JiangSu Province

Shimge's casting production base in JiangXi Province

Shimge's casting production base in JiangSu Province

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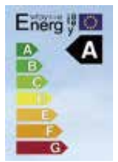
Strict Quality Control

FOR BETTER LIFE

Since its establishment, Shimge has always actively promoted comprehensive "lean" quality and environment management, and has currently passed ISO9001, ISO14001 and OHSAS18001 certification, introduced excellent performance management in line with GB/T 19580 and established a sound quality assurance system.

SHIMGE has equipped an industry-leading physicochemical testing center, and its delivery performance inspection platform has reached a precision of grade B (grade 1) in the evaluation conducted by an authoritative agency. In addition, its products have passed GS, CE and UL certification, and met the specifications of the RoHS Directive.



EEI≤0.20

APM4&6m

Application Limits

- Liquid temperature: 2℃～110℃
- Maximum ambient temperature +40℃
- Maximum system pressure 10bar
- Protection level: IP42
- Mains connection: 230V; 50Hz/60Hz
- Insulation class: F
- Pumped liquid characteristics: clean liquid, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water
- Installation: the motor shaft must be kept in horizontal direction
- pH: 6.5 to 8.5

Certificate

Applications Fields

For domestic hot water system such as mix water underfloor heating system, air energy hot water circulation system, solar hot water circulation system and family hot, cold water pressurization circulation, etc.

Model Instruction

APM 20 - 6 - 130

- 130 — Distance between Inlet and Outlet(mm)
- 6 — Max. Head(m)
- 20 — Inlet and Outlet diameter(mm)
- APM — Intelligent frequency converter circulation type

Features

- “A”Rated energy efficiency-lowest power consumption
- Permanent magnet motor-intelligent frequency conversion control
- Proportional pressure mode(PP)
- Constant pressure mode(CP)
- Constant speed mode(S)
- AUTO mode
- Night-setback mode
- Actual power display
- Low noise, no leakage

Performance Range

Max. Flow: 3m³/h
Max. Head: 6m

Optional Available on Request

(* Standard configuration on Page 03)

- Products can be customized according to customer's voltage and frequency

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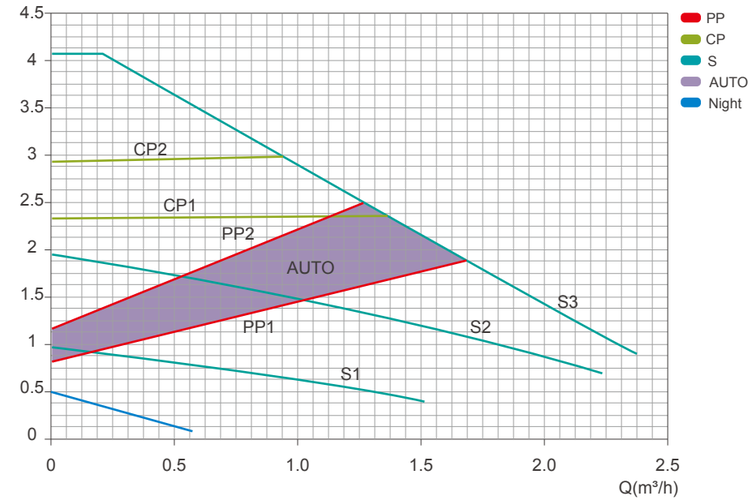
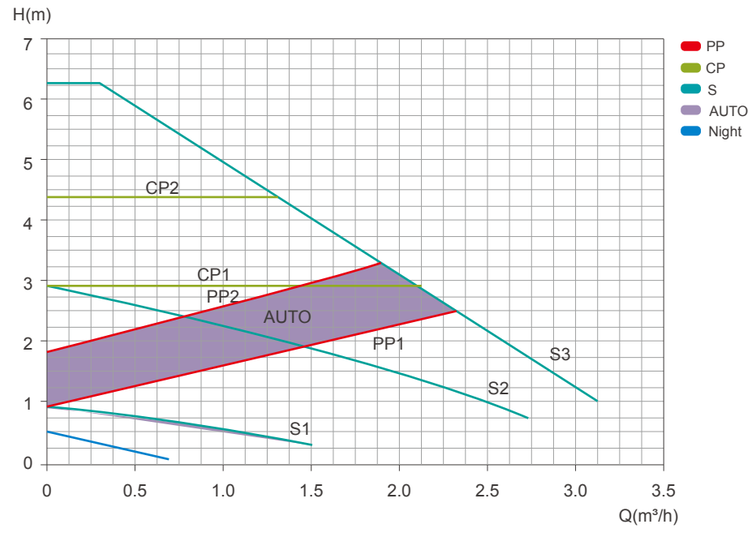
APM4&6m

Performance Curve

APMXX-4-XXX



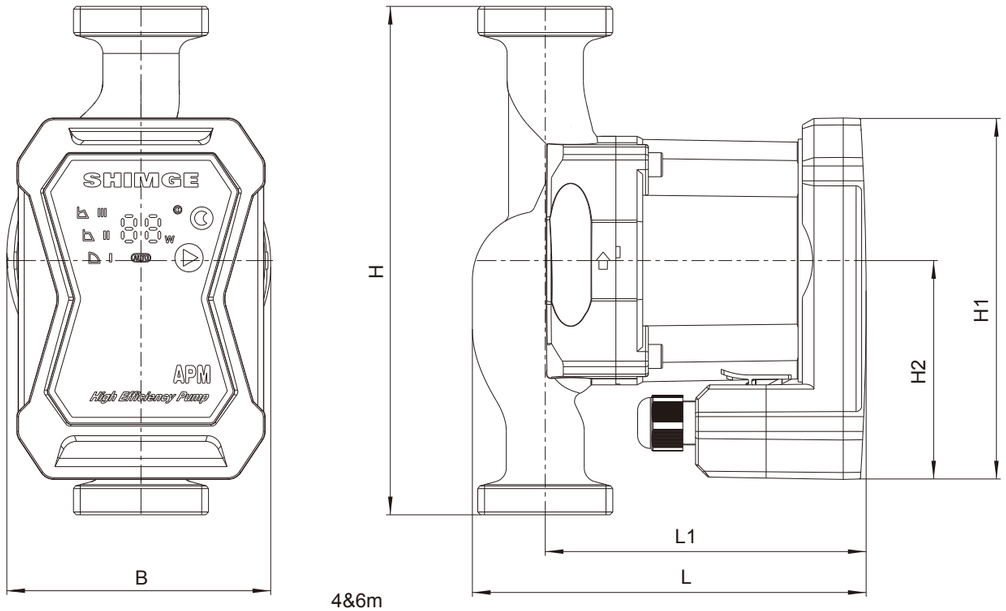
APMXX-6-XXX



Eiectrical And Hydraulic Data

Model	Pipe Distance (mm)	Electrical Data			Max.head	Max. flow
		Voltage	P1(W)	IN(A)	(m)	(m^3/h)
APM20-4-130	130	230V-50Hz/60HZ	22	0.25	4	2.5
APM20-6-130			38	0.31	6	3
APM25-4-130	130		22	0.25	4	2.5
APM25-6-130			38	0.31	6	3
APM25-4-180	180		22	0.25	4	2.5
APM25-6-180			38	0.31	6	3
APM32-4-180	180		22	0.25	4	2.5
APM32-6-180			38	0.31	6	3

Dimensions



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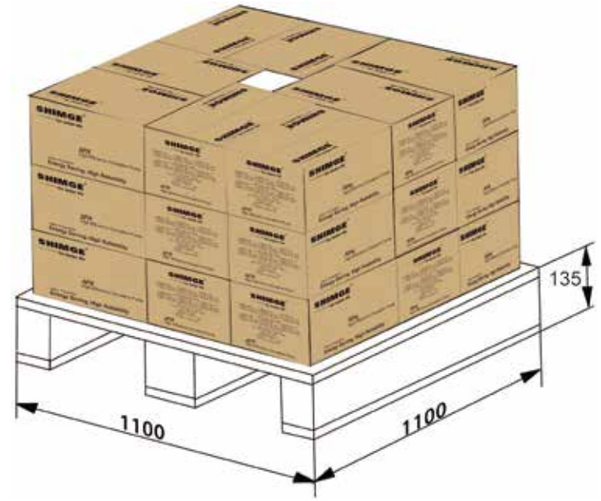
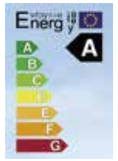
APM4&6m

Technical Data

Model	Dim.(mm)						Inter Box		Outer Box		
	L	B	H	H1	G	Unions	G.W(kg)	Dim(L×W×H)	PCS/CTN	Dim(L×W×H)	G.W(kg)
APM20-4-130	133	95	130	128	G1"	G1"-G¾"	2.4	200×145×175	4	420×310×195	10.5
APM20-6-130											
APM25-4-130	138	95	130	128	G1½"	G1½"-G1"	2.7	200×145×175	4	420×310×195	11.5
APM25-6-130											
APM25-4-180	138	95	180	128	G1½"	G1½"-G1"	3	200×145×175	4	420×310×195	12.5
APM25-6-180											
APM32-4-180	143	95	180	128	G2"	G2"-G1¼"	3.5	200×145×175	4	420×310×195	14.5
APM32-6-180											





8&10m

12m

EEI≤0.23

APM

Application Limits

- Liquid temperature: 2℃ ~ 110℃
- Maximum ambient temperature +40℃
- Maximum system pressure 10bar
- Protection level: IP42
- Mains connection: 230V; 50Hz/60Hz
- Insulation class: F
- Pumped liquid characteristics: clean liquid, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water
- Installation: the motor shaft must be kept in horizontal direction
- pH: 6.5 to 8.5

Certificate

Applications Fields

For domestic hot water system such as mix water underfloor heating system, air energy hot water circulation system, solar hot water circulation system and family hot, cold water pressurization circulation, etc.

Model Instruction

APM 25 - 8 - 180

- 180 — Distance between Inlet and Outlet(mm)
- 8 — Max. Head(m)
- 25 — Inlet and Outlet diameter(mm)
- APM — Intelligent frequency converter circulation type

Features

- “A”Rated energy efficiency-lowest power consumption
- Permanent magnet motor-intelligent frequency conversion control
- Proportional pressure mode(PP)
- Constant pressure mode(CP)
- Constant speed mode(S)
- AUTO mode
- Night-setback mode
- Actual power display
- Low noise, no leakage

Performance Range

Max. Flow: 10m³/h
Max. Head: 12m

Optional Available on Request

(* Standard configuration on Page 03)

- Products can be customized according to customer's voltage and frequency

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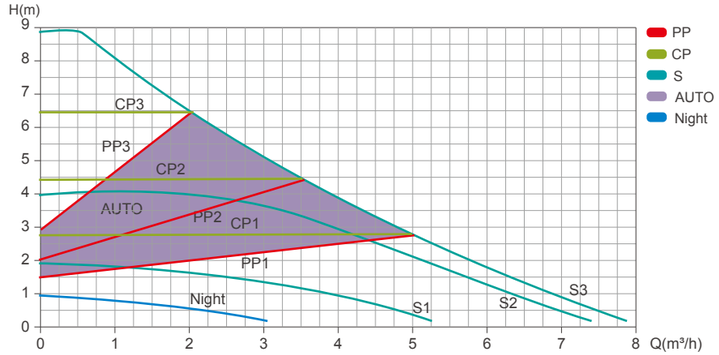
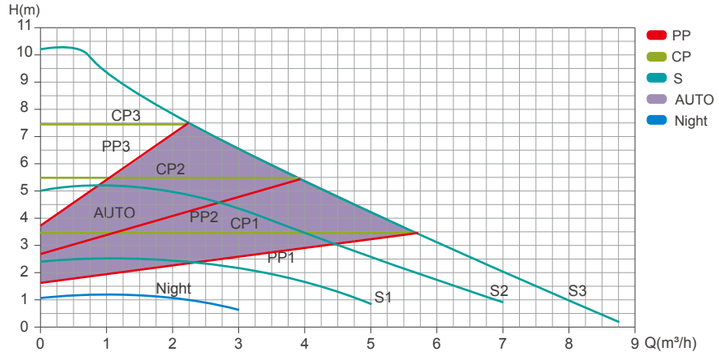
APM8&10&12m

Performance Curve

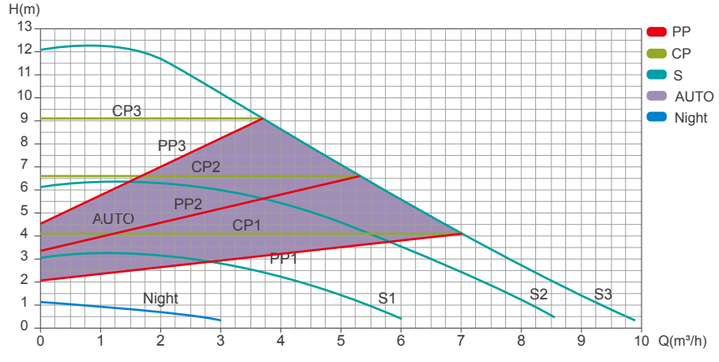
APMXX-8-XXX



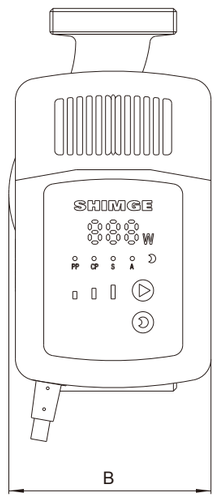
APMXX-10-XXX

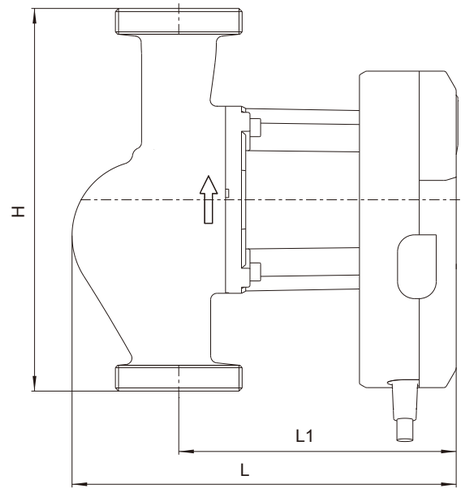


APMXX-12-XXX

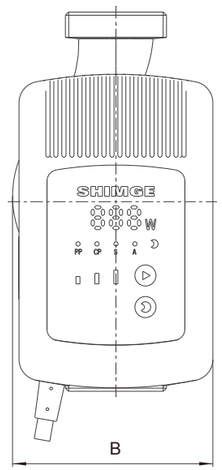


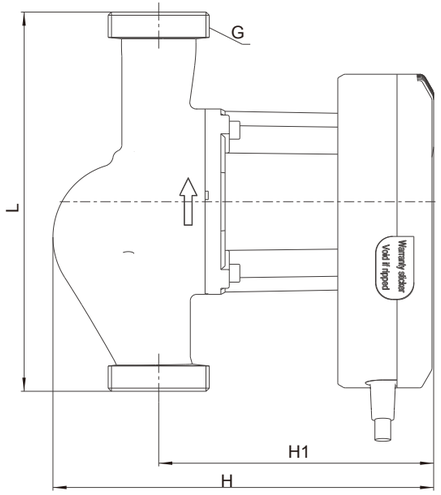
Dimensions





8&10m



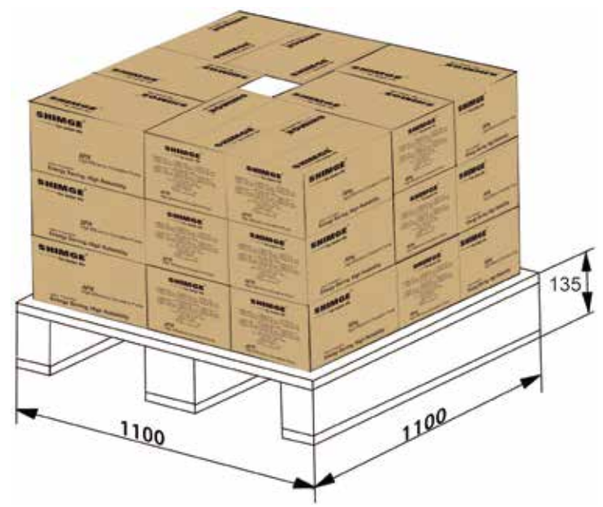


12m

Technical Data

Model	Pipe Distance (mm)	Electrical Data			Max.head	Max. flow
		Voltage	P1(W)	IN(A)	(m)	(m^3/h)
APM25-8-180	180	230V-50Hz/60HZ	80	0.72	8	8
APM32-8-180			80	0.72	8	8
APM25-10-180	180		120	1.08	10	9
APM32-10-180			120	1.08	10	9
APM25-12-180	180		180	1.55	12	10
APM32-12-180			180	1.55	12	10

Model	Dim.(mm)						Inter Box		Outer Box		
	L	B	H	H1	G	Unions	G.W(kg)	Dim(L×W×H)	PCS/CTN	Dim(L×W×H)	G.W(kg)
APM25-8-180	180	95	182	131	G1½"	G1½"-G1"	3.5	225×165×210	4	470×350×230	14
APM25-10-180											
APM25-12-180							3.75				15
APM32-8-180	180	95	182	131	G2"	G2"-G1¼"	4	225×165×210	4	470×350×230	16
APM32-10-180											
APM32-12-180							4.1				16.5



4&6m

EEI≤0.20

8m

EEI≤0.21

APM-A

Model Instruction

APM 25 - 6 - 130 - A

- Power display
- Distance between Inlet and Outlet(mm)
- Max. Head(m)
- Inlet and Outlet diameter(mm)
- Intelligent frequency converter circulation type

Performance Range

Max. Flow: 4.8 m³/h
Max. Head: 8m

Application Limits

- Medium temperature: 2 ℃ ～ 110 ℃
- Ambient temperature: 0 ℃ ～40 ℃
- Maximum system pressure: 1.0MPa (10bar)
- Protection grade: IP44
- Thermal classification: F
- Voltage / frequency: 230V, 50 / 60Hz
- Suitable medium: Clean water without particles, mineral oil, non-toxic and neutral PH
- Installation method: The motor shaft is installed along the horizontal direction

Certificate

Applications Fields

It is used in heating and hot water supply system, medium circulation of cooling system and air conditioning system, boiler, solar water supply and other fields.

- Boiler system
- Heating pump
- Solar thermal energy system
- Heating equipment
- Domestic hot water system
- Micro cogeneration (CHP)

Features

- The controller and motor are designed as a whole. The whole water pump has compact structure and small installation size
- The cable is with quick connection plug , which is convenient for installation and maintenance
- Constant speed mode
- Proportional pressure mode
- Constant pressure mode
- Auto adaptive mode
- Class A energy efficiency, more energy-saving
- With power display
- Automatic exhaust function
- Low noise and no leakage

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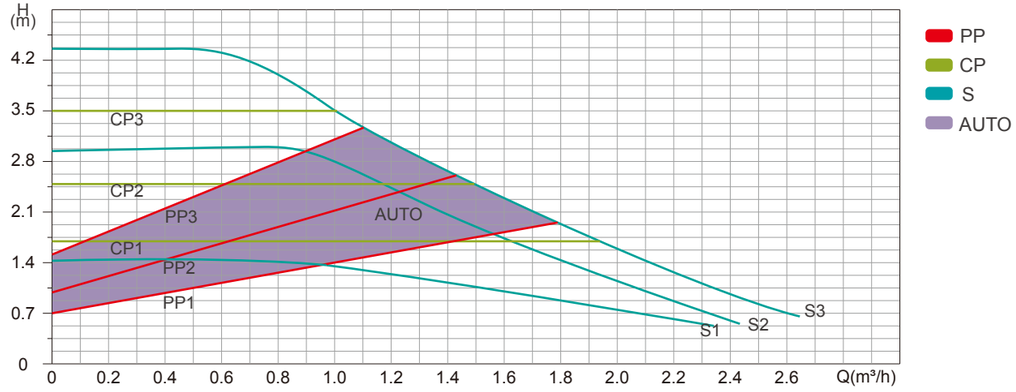
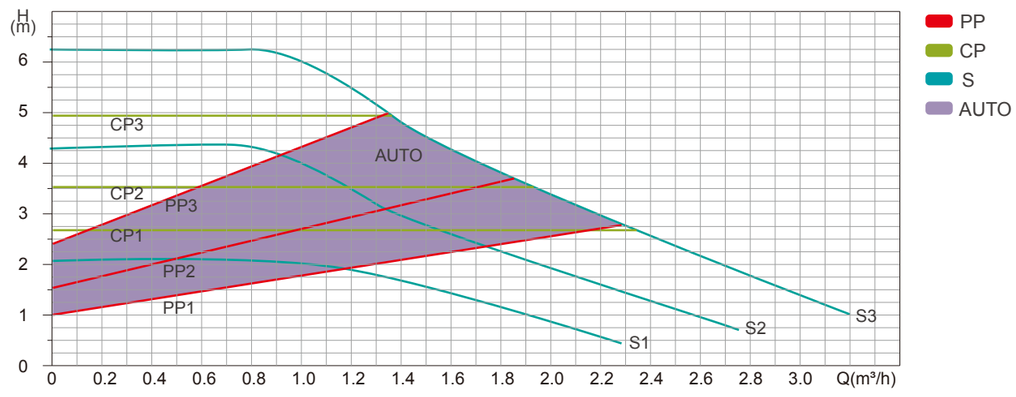
APM-A

Performance Curve

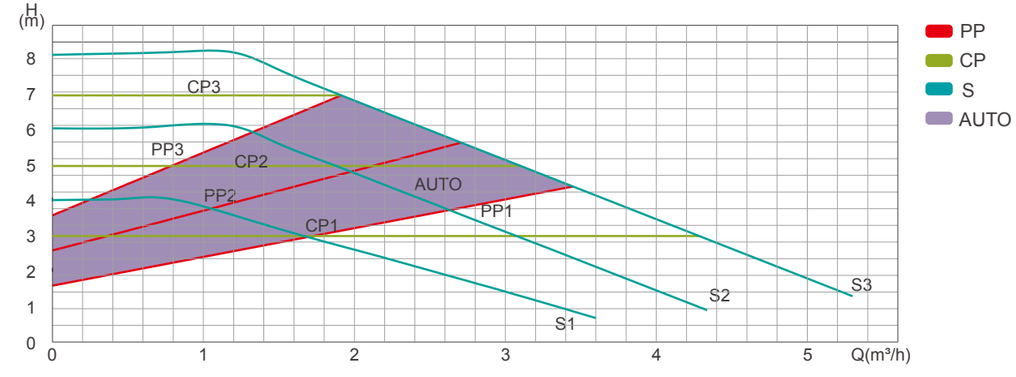
APMXX-4-XXX A



APMXX-6-XXX A



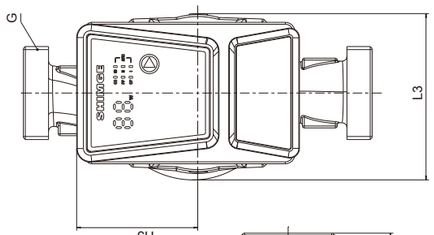
APMXX-8-XXX

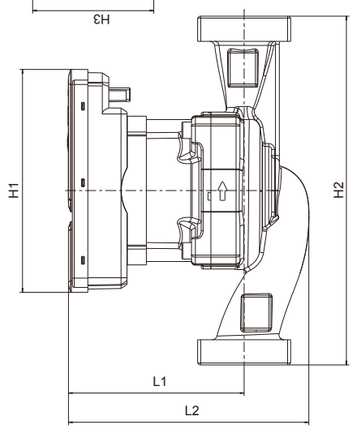


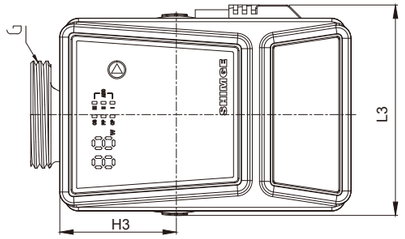
Eiectrical And Hydraulic Data

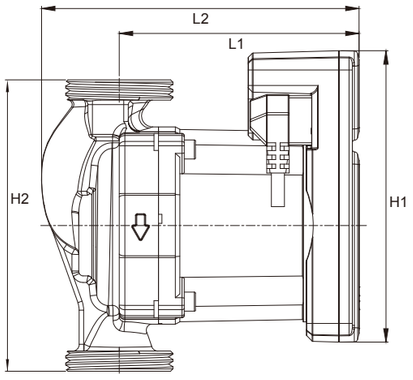
Model	Electrical Data			Max.head	Max. flow
	Voltage	P1(W)	IN(A)	(m)	(m³/h)
APM20-4-130A	230V-50Hz/60HZ	25	0.3	4	2.2
APM25-4-130A					2.5
APM25-4-180A					2.5
APM32-4-180A					2.9
APM20-6-130A		45	0.5	6	2.4
APM25-6-130A					3.2
APM25-6-180A					3.2
APM32-6-180A					3.6
APM25-8-130A		90	0.75	8	4.3
APM25-8-180A					4.3
APM32-8-180A					4.8

Dimensions



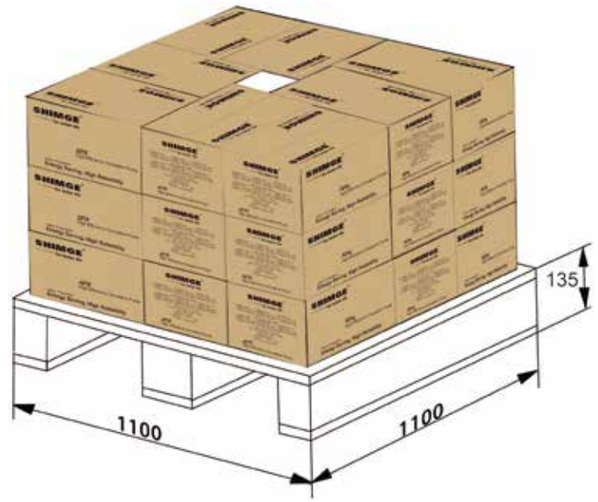






Technical Data

Model	Dim.(mm)								Inter Box		Outer Box		
	L1	L2	L3	H1	H2	H3	G	Unions	G.W(kg)	Dim(L×W×H)	PCS/CTN	Dim(L×W×H)	G.W(kg)
APM20-4-130A	93	126	86	114	130	62	G1	G1"-G¾"	1.4	170×135×90	8	360×290×200	12
APM20-6-130A													
APM25-4-130A							G1½	G1½"-G1"	1.5	170×135×90	8	360×290×200	16
APM25-6-130A													
APM25-4-180A					180				1.9	200×130×95	8	420×280×210	15.5
APM25-6-180A													
APM32-4-180A							G2	G2"-G¼"	1.8	200×130×95	8	420×280×210	21
APM32-6-180A													
APM25-8-130A	107	142	94	130	130	52	G1½	G2"-G¼"	2.2	200×150×110	8	420×320×240	22.4
APM25-8-180A					180				2.4				24
APM32-8-180A							G2		2.8				29.6



EEI≤0.21

APM-T

Model Instruction

APM 25 - 6 - 130 T

- T: Power display
- 130: Distance between Inlet and Outlet(mm)
- 6: Max. Head(m)
- 25: Inlet and Outlet diameter(mm)
- APM: Intelligent frequency converter circulation type

Performance Range

Max. Flow: 4m³/h
Max. Head: 8m

Application Limits

- Medium temperature: 2 ℃ ~ 110 ℃
- Ambient temperature: 0 ℃ ~ 40 ℃
- Maximum system pressure: 1.0MPa (10bar)
- Protection grade: IP44
- Thermal classification: F
- Voltage / frequency: 230V, 50 / 60Hz
- Suitable medium: Clean water without particles, mineral oil, non-toxic and neutral PH
- Installation method: The motor shaft is installed along the horizontal direction

Certificate

Applications Fields

- It is used in heating and hot water supply system, medium circulation of cooling system and air conditioning system, boiler, solar water supply and other fields.
- Boiler system
- Heating pump
- Solar thermal energy system
- Heating equipment
- Domestic hot water system
- Micro cogeneration (CHP)

Features

- The controller and motor are designed as a whole. The whole water pump has compact structure and small installation size
- The cable is with quick connection plug , which is convenient for installation and maintenance
- Constant speed mode
- Proportional pressure mode
- Constant pressure mode
- Auto adaptive mode
- Class A energy efficiency, more energy-saving
- With power display
- Automatic exhaust function
- Low noise and no leakage

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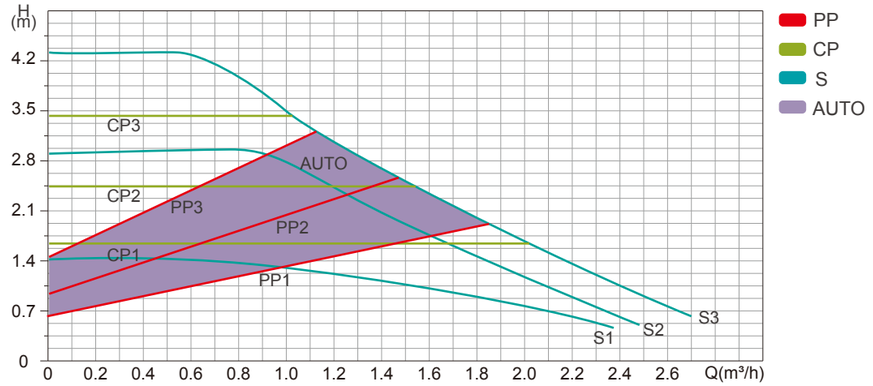
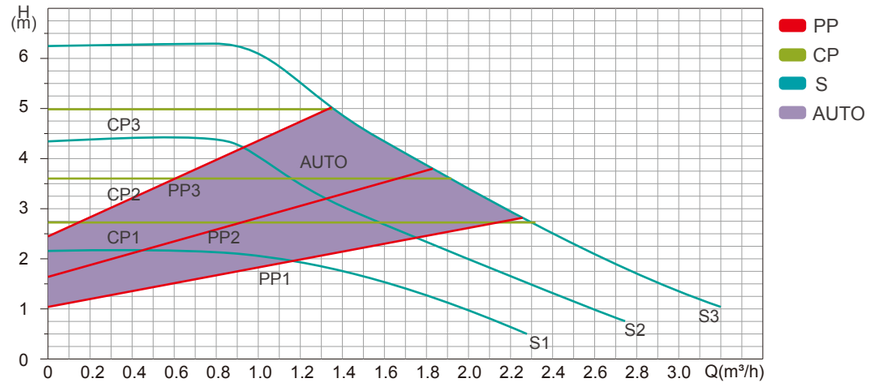
APM-T

Performance Curve

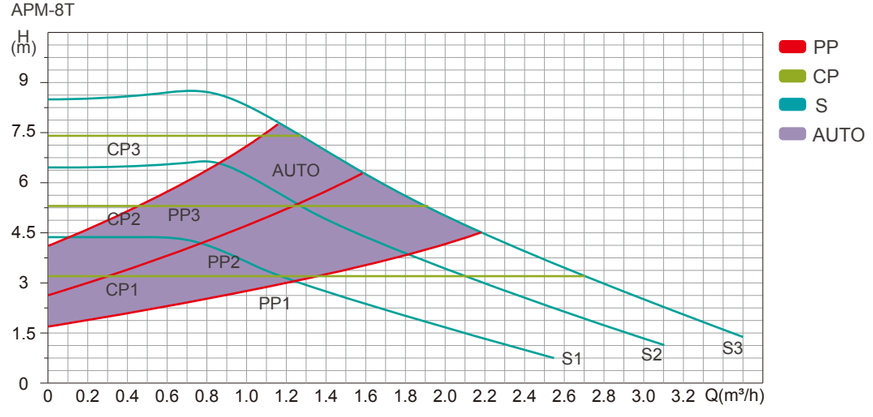
APM-4T



APM-6T



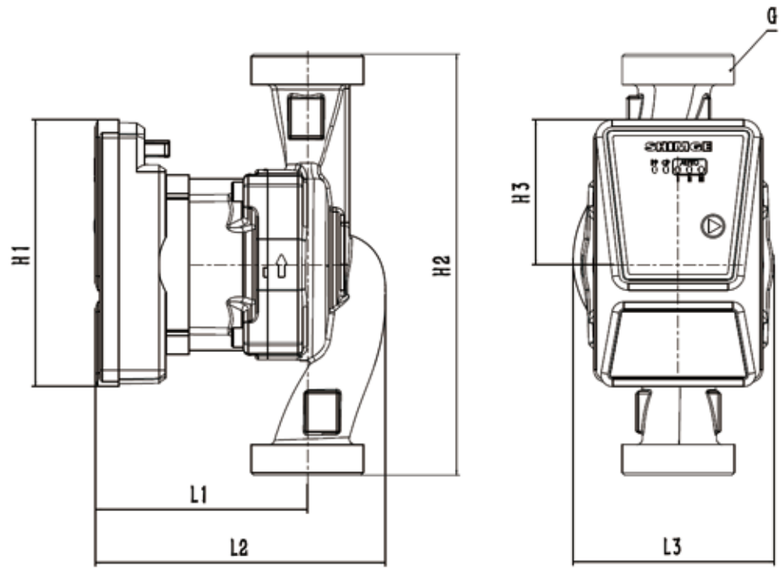
APM-8T



Eiectrical And Hydraulic Data

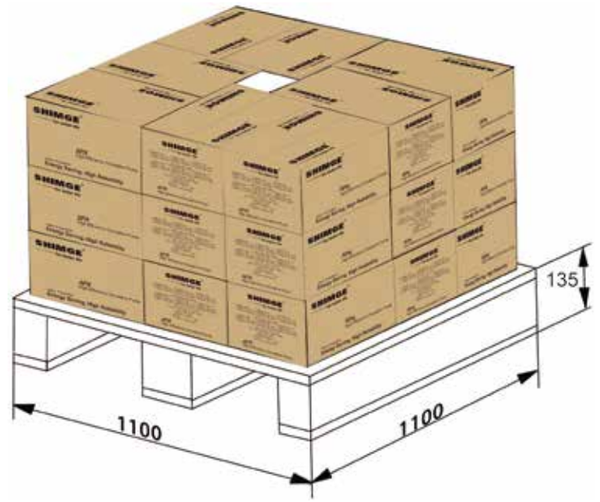
Model	Voltage	Max.Input power (W)	Max. Current (W)	Max.head (m)	Max. flow (m³/h)
APM20-4-130T	230V-50Hz/60HZ	25	0.3	4	2.2
APM25-4-130T					2.5
APM25-4-180T					2.5
APM32-4-180T					2.9
APM20-6-130T		45	0.5	6	2.4
APM25-6-130T					3.2
APM25-6-180T					3.2
APM32-6-180T					3.6
APM20-8-130T		65	0.65	8	2.9
APM25-8-130T					3.4
APM25-8-180T					3.6
APM32-8-180T					4

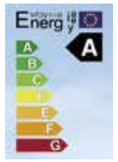
Dimensions



Technical Data

Model	Dim.(mm)								Inter Box		Outer Box		
	L1	L2	L3	H1	H2	H3	G	Unions	G.W(kg)	Dim(L×W×H)	PCS/CTN	Dim(L×W×H)	G.W(kg)
APM20-4-130T	93	126	86	114	130	62	1	G1"-G¾"	1.8	170×135×90	8	360×290×200	12
APM20-6-130T													
APM20-8-130T													
APM25-4-130T							1½	G1½"-G1"	2	170×135×90	8	360×290×200	16
APM25-6-130T													
APM25-8-130T													
APM25-4-180T					180				2.4	200×130×95	8	420×280×210	15.5
APM25-6-180T													
APM25-8-180T													
APM32-4-180T							2	G2"-G1¼"	2.5	200×130×95	8	420×280×210	21
APM32-6-180T													
APM32-8-180T													





EEI≤0.23

APF

Application Limits

- Liquid temperature: 2℃～110℃
- Maximum ambient temperature +40℃
- Maximum system pressure 10bar
- Protection level: IP42/IP44
- Mains connection: 230V; 50Hz/60Hz
- Insulation class: F
- Pumped liquid characteristics: clean, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water
- Installation: the motor shaft must be kept in horizontal direction

Certificate

Features

- “A” Rated energy efficiency-lowest power consumption
- Permanent magnet motor-intelligent frequency conversion control
- Proportional pressure mode
- Constant speed mode
- Low noise, no leakage

Model Instruction

APF 20 - 6 - 130

- 130 — Distance between Inlet and Outlet(mm)
- 6 — Max. Head(m)
- 20 — Inlet and Outlet diameter(mm)
- APF — Intelligent frequency converter circulation type

Performance Range

Max. Flow: 9m³/h
Max. Head: 12m

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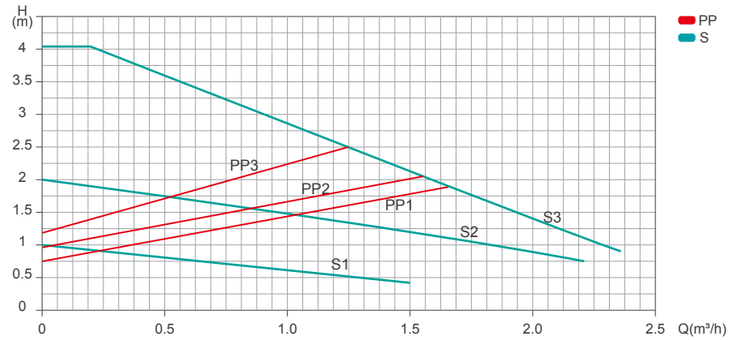
Eiectrical And Hydraulic Data

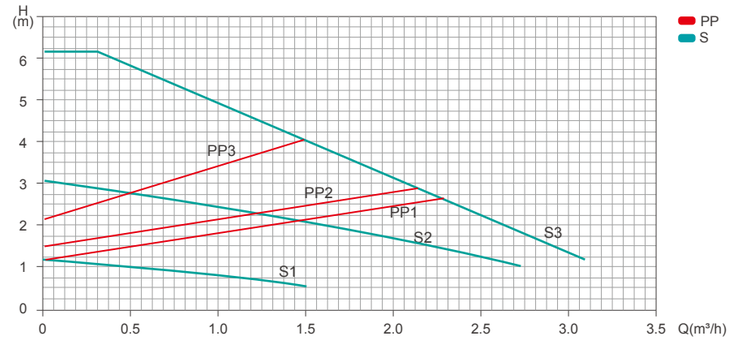
Model	Pipe Distance (mm)	Electrical Data			Max.head	Max. flow
		Voltage	P1(W)	IN(A)	(m)	(m³/h)
APF20-4-130	130	230V-50Hz/60HZ	22	0.18	4	2.5
APF20-6-130			38	0.3	6	3
APF25-4-130	130		22	0.18	4	2.5
APF25-6-130			38	0.3	6	3
APF25-4-180	180		22	0.18	4	2.5
APF25-6-180			38	0.3	6	3
APF25-8-180			80	0.7	8	7
APF32-4-180	180		22	0.18	4	2.5
APF32-6-180			38	0.3	6	3
APF32-8-180			80	0.7	8	7
APF25-10-180	180		140	0.95	10	7.5
APF32-10-180						8
APF25-12-180	180		180	1.18	12	8
APF32-12-180						9
APF25-10-180 PWM1	180		140	0.95	10	7.5
APF32-10-180 PWM1						8
APF25-12-180 PWM1	180		180	1.2	12	8
APF32-12-180 PWM1						9
APF25-10-180 PWM2	180		140	0.95	10	7.5
APF32-10-180 PWM2						8
APF25-12-180 PWM2	180		180	1.2	12	8
APF32-12-180 PWM2						9

Performance Curve

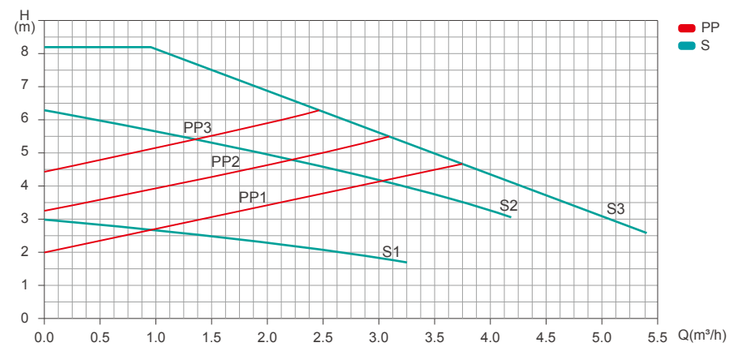
APFXX-4-XXX



APFXX-6-XXX



APFXX-8-XXX



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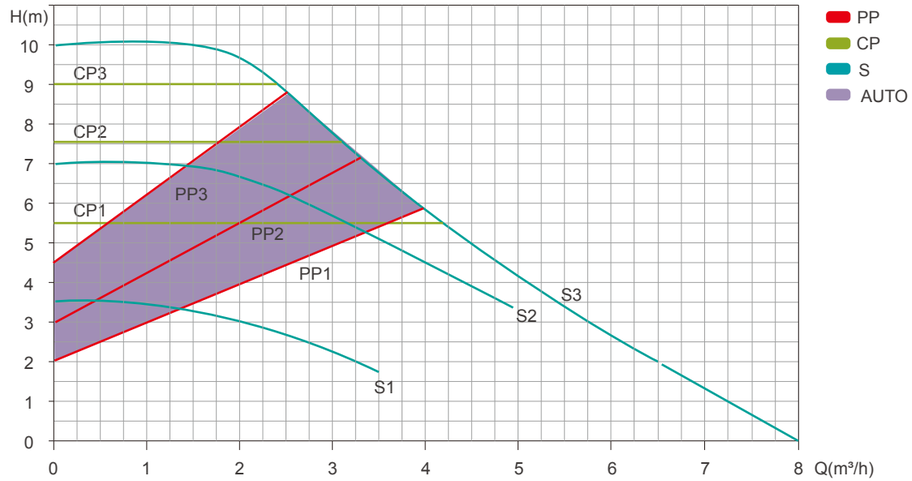
Performance Curve

APF32-10-XXX



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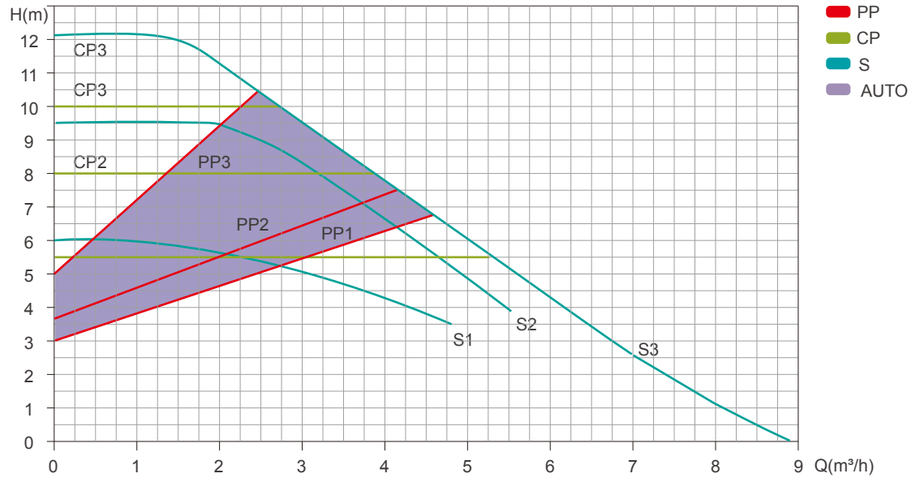
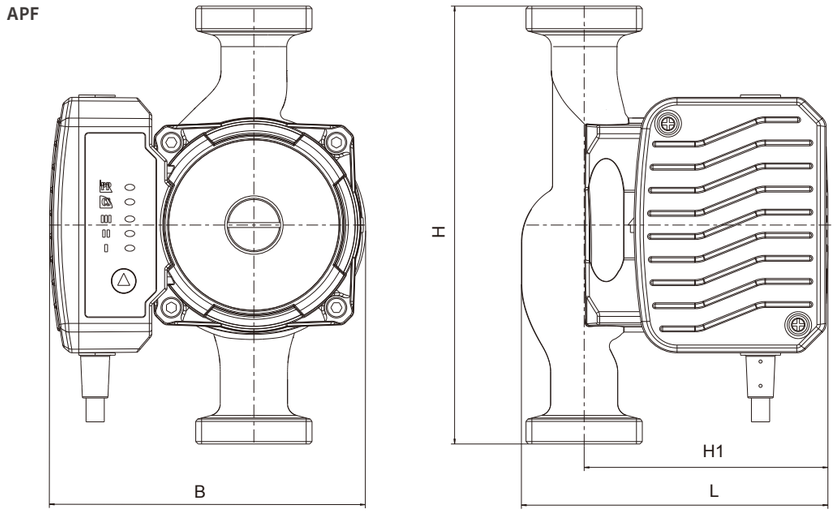
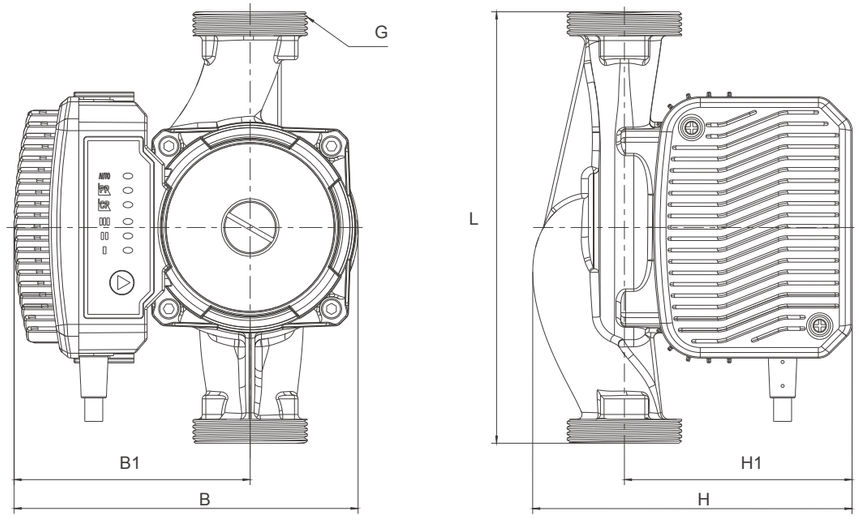


Dimensions

APF



4&6&8m



10&12m

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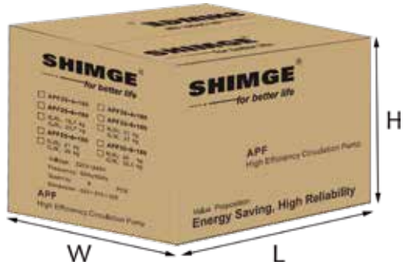
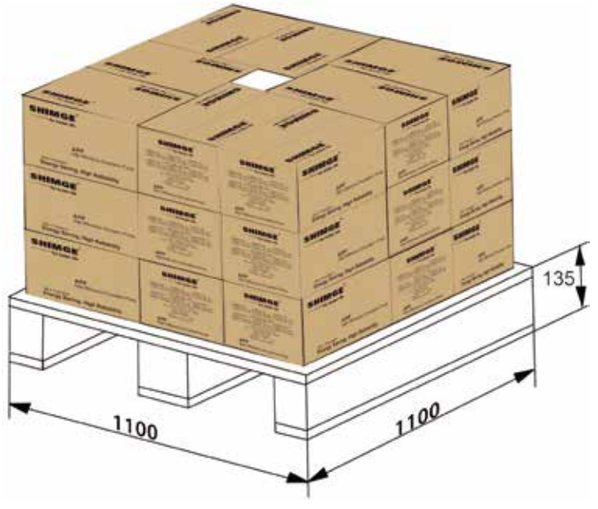
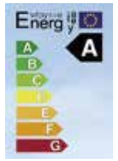
Technical Data

Model	Dim.(mm)							Inter Box		Outer Box		
	L	B	B	H	H1	G	Unions	G.W(kg)	Dim(L×W×H)	PCS/CTN	Dim(L×W×H)	G.W(kg)
APF20-4-130	126	130	98	130	100	G1"	G1"-G1¼"	2.4	160×145×140	8	340×310×300	19.7
APF20-6-130												
APF25-4-130						G1½"	G1½"toG1"	2.7				22.0
APF25-6-130												
APF25-4-180				180				2.9	200×145×155		420×310×330	23.7
APF25-6-180												
APF25-8-180	148							3.1				26.0
APF32-4-180	131					G2"	G2"toG1¼"	3.3				27.0
APF32-6-180												
APF32-8-180	148							4.0				32.5
APF25-10-180 (PWM1/PWM2)	180	143		133	95	G1½"	G1½"-G1"	3.1	200×160×140		420×340×320	26.0
APF25-12-180 (PWM1/PWM2)												
APF32-10-180 (PWM1/PWM2)						G2"	G2"-G1¼"	4.0				32.5
APF32-12-180 (PWM1/PWM2)												







APF-A

Model Instruction

APF 25 - 6 - 180 A

- Power display
- Distance between Inlet and Outlet(mm)
- Maximum Head (m)
- Inlet and Outlet diameter(mm)
- Intelligent frequency converter circulation type

Performance Range

Max. Flow: 6m³/h
Max. Head: 8m

Application Limits

- Liquid temperature: 2℃～110℃
- Ambient temperature 0℃～40℃
- Maximum system pressure 10bar
- Protection level: IP44
- Mains connection: 230V; 50Hz/60Hz
- Insulation class: F
- Pumped liquid: clean liquid, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water.
- Installation: the motor shaft must be kept in horizontal direction

Certificate

CE TÜV GS

Applications Fields

- For medium circulation in heating and hot water system, cooling system, air conditioning, boiler, solar system etc.
- Boiler system
- Heat pump
- Solar system
- Heating equipment
- Domestic hot water system
- (CHP) CHP

Features

- Control electronics besides the motor, easy to install
- CS mode
- PP mode
- CP mode
- Auto adapt mode
- EEI≤0.21 High efficiency, EEI≤0.21
- PWM external control available
- Low noise, no leakage

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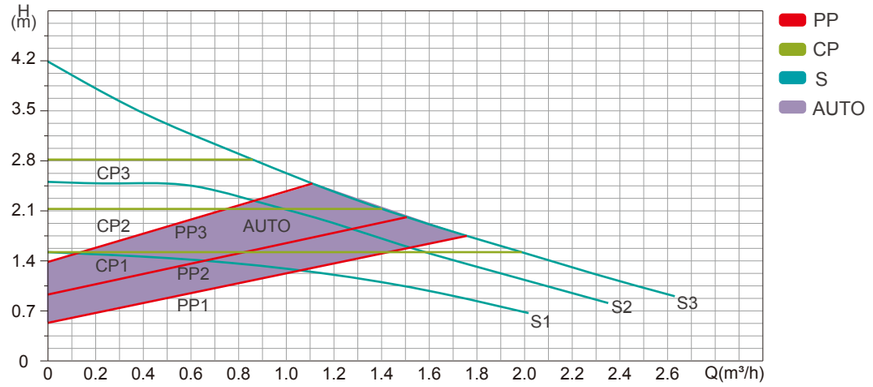
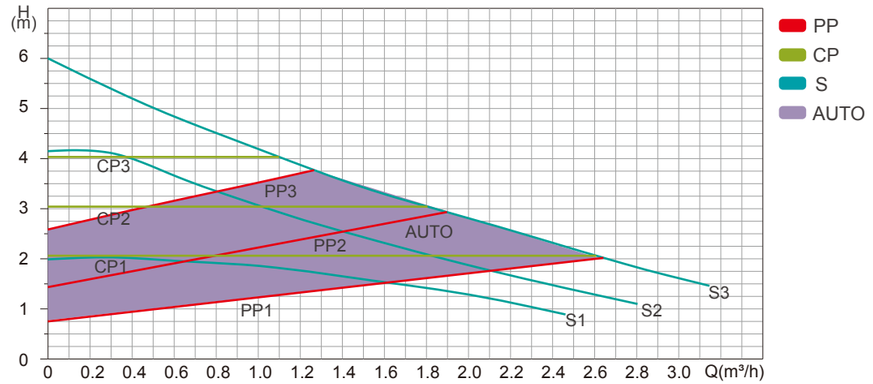
APF-A

Performance Curve

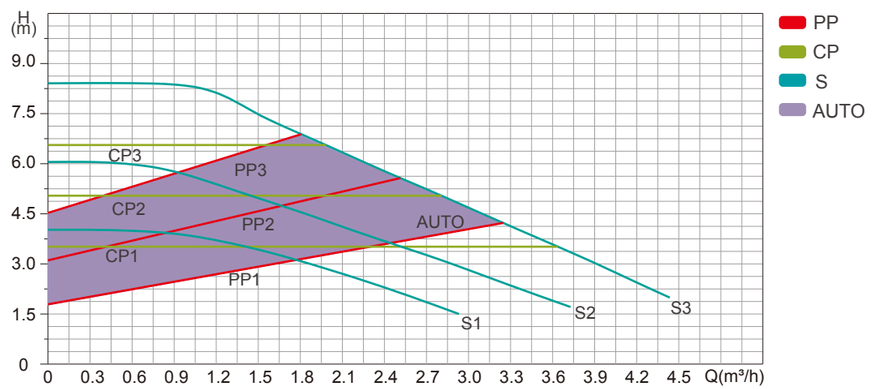
APF-4A



APF-6A



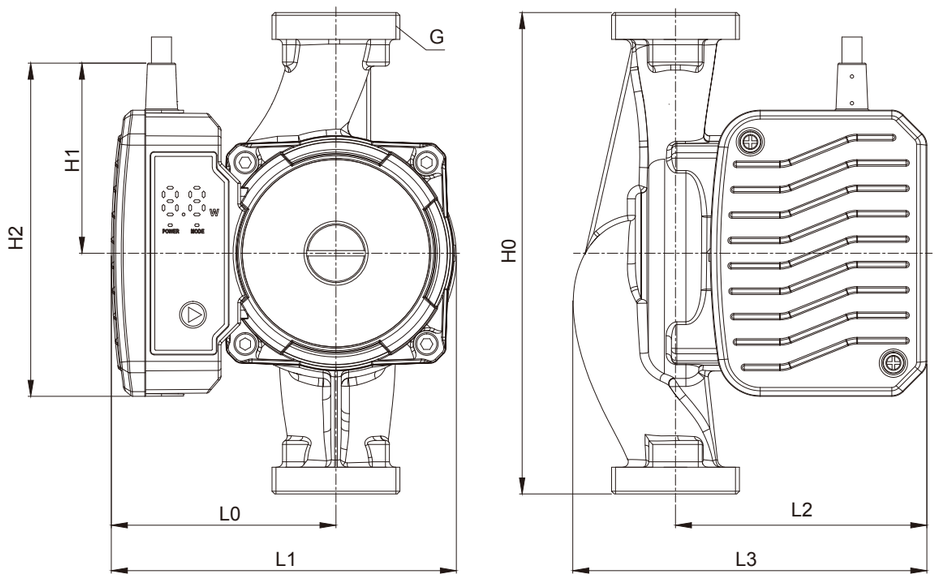
APF-8A



Eiectrical And Hydraulic Data

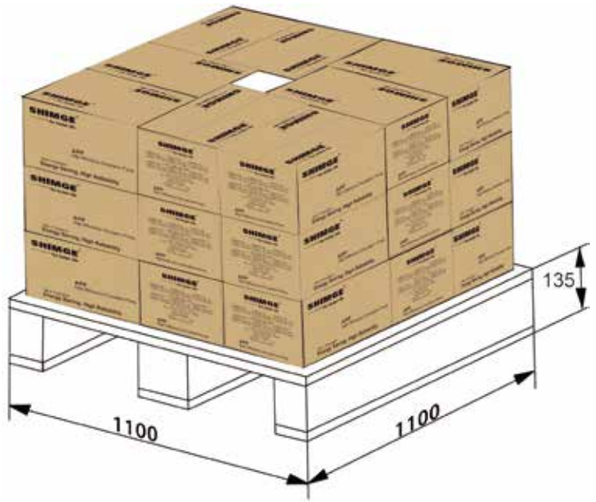
Model	Electrical Data			Max.head	Max. flow
	Voltage	P1(W)	IN(A)	(m)	(m³/h)
APF20-4-130A	230V-50Hz/60HZ	25	0.3	4	2.2
APF25-4-130A					2.5
APF25-4-180A					2.5
APF32-4-180A					2.9
APF20-6-130A		45	0.5	6	2.9
APF25-6-130A					3.2
APF25-6-180A					3.2
APF32-6-180A					3.6
APF25-8-130A		80	0.7	8	5.0
APF25-8-180A					5.0
APF32-8-180A					6.0

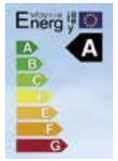
Dimensions



Technical Data

Model	Dim.(mm)									Inter Box		Outer Box		
	L0	L1	L2	L3	H0	H1	H2	G	Unions	N.W(kg)	G.W(kg)	PCS/CTN	Dim(L×W×H)	G.W(kg)
APF20-4-130A	84	130	104	127	130	71	125	G1	G1"-G¾"	2.0	2.4	8	340×310×300	19.7
APF20-6-130A														
APF25-4-130A								G1½	G1½"-G1"	2.2	2.7			22
APF25-6-130A														
APF25-4-180A					180					2.4	2.9		420×310×330	23.7
APF25-6-180A														
APF25-8-130A			94	132	130					2.7	3.2			27
APF25-8-180A					180									
APF32-4-180A			104	127				G2	G2"toG¼"	2.6	3.3			
APF32-6-180A														
APF32-8-180A			94	132						3.0	4.1			33





APE

Application Limits

- Medium temperature: 2℃～110℃
- Ambient temperature 0℃～40℃
- Maximum system pressure 10bar
- Protection level: IP44
- Thermal classification: E
- Voltage / frequency: 230V, 50Hz/60Hz
- Suitable medium: Clean water without particles, mineral oil, non-toxic and neutral pH
- Installation method: the motor shaft is installed along the horizontal direction

Applications Fields

- It is used in heating and hot water supply system, medium circulation of cooling system and air conditioning system, boiler and solar water supply ,etc.
- Boiler system
- Heat pump
- Solar thermal energy system
- Heating equipment
- Domestic hot water system
- Micro cogeneration (CHP)

Model Instruction

APE 20 - 6 - 130

- 130 — Distance between Inlet and Outlet(mm)
- 6 — Max. Head(m)
- 20 — Inlet and Outlet diameter(mm)
- APE — Intelligent frequency converter circulation type

Performance Range

Max. Flow: 4m³/h
Max. Head: 8m

Certificate

Features

- The controller and motor are designed as a whole. The whole water pump has compact structure and small installation size
- The cable is of quick plug structure, which is convenient for installation and maintenance
- Constant speed mode
- Proportional pressure mode
- Constant pressure mode
- Adaptive mode
- Class A energy efficiency, more energy-saving
- External PWM speed control
- Low noise and no leakage
- **Venting：Exhust the air inside the pump to ensure normal working (this function does not vent the heating system)**
- **Manual restart：Restart the pump manually (The electric pump rotor would stuck due to long-time non operation in summer)**

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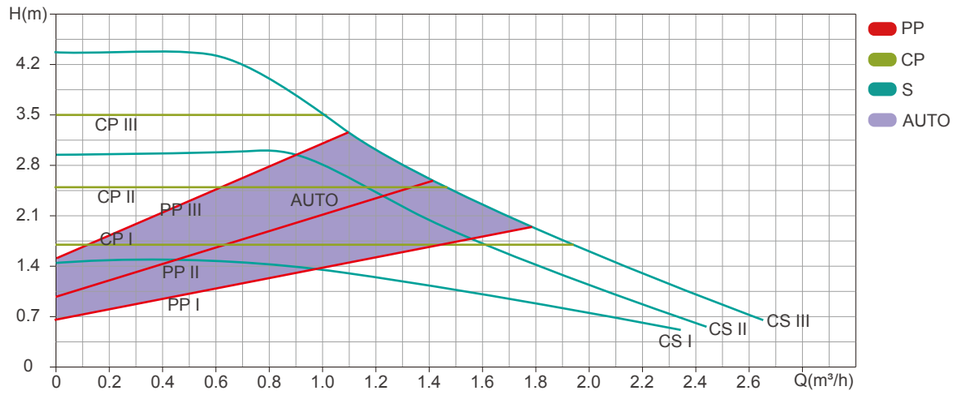
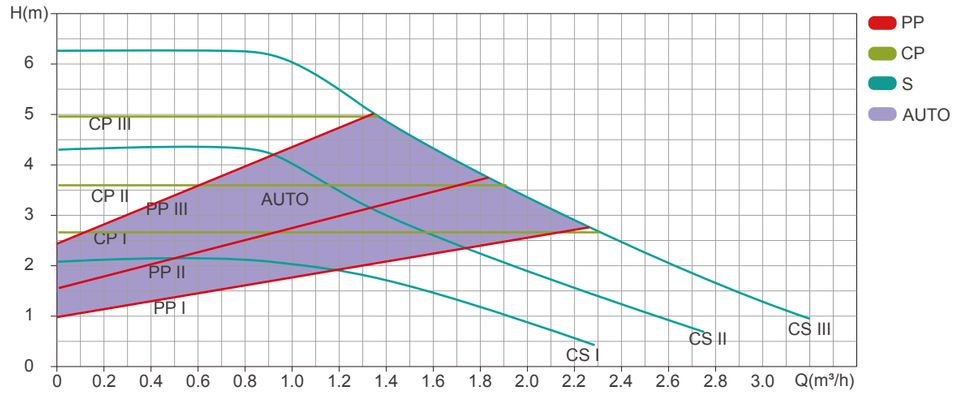
Performance Curve

APEXX-4-XXX



APEXX-6-XXX



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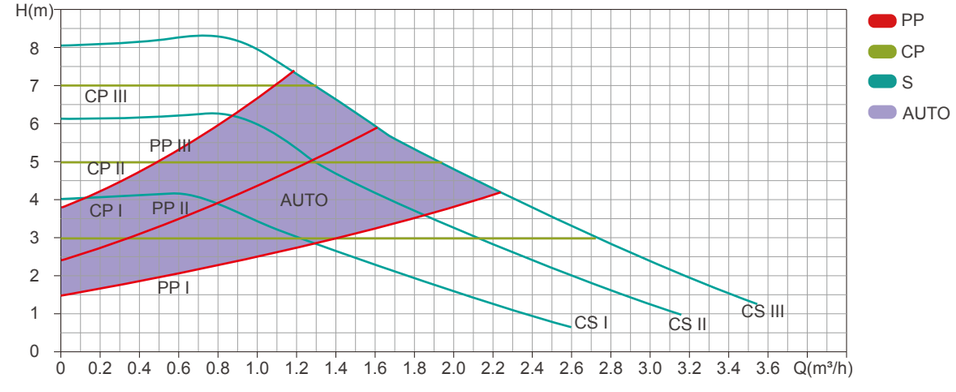
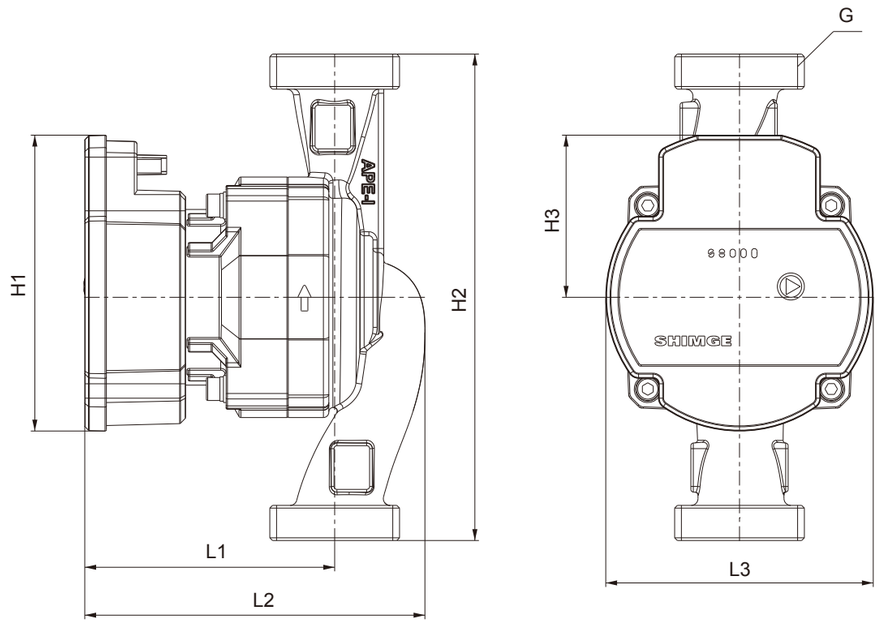


Eiectrical And Hydraulic Data

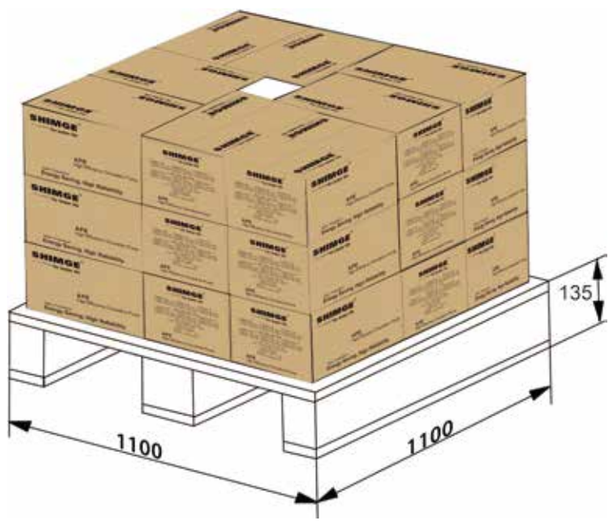
Model	Voltage (V)	Frequency (Hz)	Max. input power(W)	Max. current (A)	Max. head (m)	Max. flow (m³/h)
APE20-4-130(PWM1/PWM2)	230V	50Hz/60HZ	25	0.3	4	2.2
APE25-4-130(PWM1/PWM2)						2.5
APE25-4-180(PWM1/PWM2)						2.5
APE32-4-180(PWM1/PWM2)						2.9
APE20-6-130(PWM1/PWM2)			45	0.5	6	2.9
APE25-6-130(PWM1/PWM2)						3.2
APE25-6-180(PWM1/PWM2)						3.2
APE32-6-180(PWM1/PWM2)						3.6
APE20-8-130(PWM1/PWM2)			65	0.65	8	2.9
APE25-8-130(PWM1/PWM2)						3.4
APE25-8-180(PWM1/PWM2)						3.6
APE32-8-180(PWM1/PWM2)						4.0

Dimensions



Technical Data

Model	Dim.(mm)								Inter Box		Outer Box		
	L1	L2	L3	H1	H2	H3	G	Unions	N.W(kg)	G.W(kg)	PCS/CTN	Dim(L×W×H)	G.W(kg)
APE20-4-130(PWM1/PWM2)	93	126	99	110	130	60	G1	G1"-G¾"	1.6	2.0	8	320×290×260	16
APE20-6-130(PWM1/PWM2)													
APE20-8-130(PWM1/PWM2)													
APE25-4-130(PWM1/PWM2)							G1½	G1½"-G1"	1.7	2.2		320×290×260	18
APE25-6-130(PWM1/PWM2)													
APE25-8-130(PWM1/PWM2)													
APE25-4-180(PWM1/PWM2)					180				1.9	2.4		410×290×240	20
APE25-6-180(PWM1/PWM2)													
APE25-8-180(PWM1/PWM2)													
APE32-4-180(PWM1/PWM2)							G2	G2"-G1¼"	2.0	2.75		420×280×210	22.5
APE32-6-180(PWM1/PWM2)													
APE32-8-180(PWM1/PWM2)													



APE-L

APE-L-4/6EEI: ≤0.20
APE-L-8EEI: ≤0.21

Model Instruction

APE 20 - 6 - 130 L

- L — Power display
- 130 — Distance between Inlet and Outlet(mm)
- 6 — Max. Head(m)
- 20 — Inlet and Outlet diameter(mm)
- APE — Intelligent frequency converter circulation type

Applications Fields

- It is used in heating and hot water supply system, medium circulation of cooling system and air conditioning system, boiler and solar water supply ,etc.
- Boiler system
- Heat pump
- Solar thermal energy system
- Heating equipment
- Domestic hot water system
- Micro cogeneration (CHP)

Application Limits

- Medium temperature: 2 ℃ ~ 110 ℃
- Ambient temperature: 0 ℃ ~ 40 ℃
- Maximum system pressure: 1.0MPa (10bar)
- Protection level: IP44
- Thermal classification: F
- Voltage / frequency: 230V, 50Hz / 60Hz
- Suitable medium: Clean water without particles, mineral oil, non-toxic and neutral pH
- Installation method: the motor shaft is installed along the horizontal direction

Certificate

Features

- The controller and motor are designed as a whole. The whole water pump has compact structure and small installation size
- The cable is of quick plug structure, which is convenient for installation and maintenance
- Constant speed mode
- Proportional pressure mode
- Constant pressure mode
- Adaptive mode
- Class A energy efficiency, more energy-saving
- External PWM speed control
- Low noise and no leakage

Performance Range

Max. Flow: 4m³/h
Max. Head: 8m

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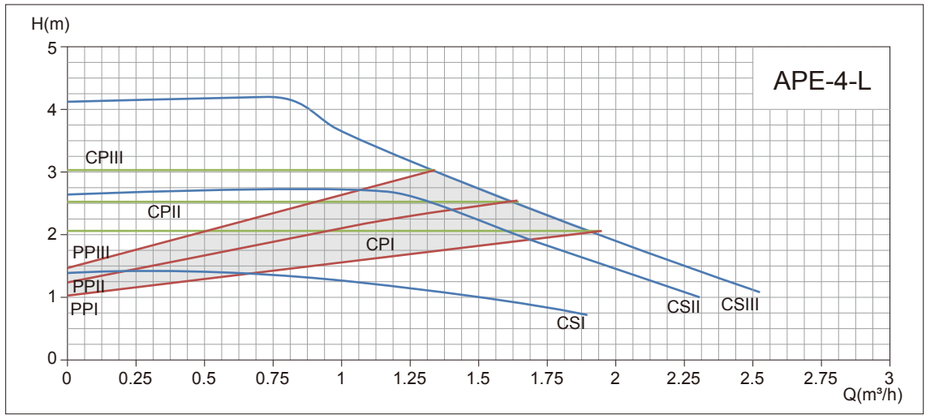
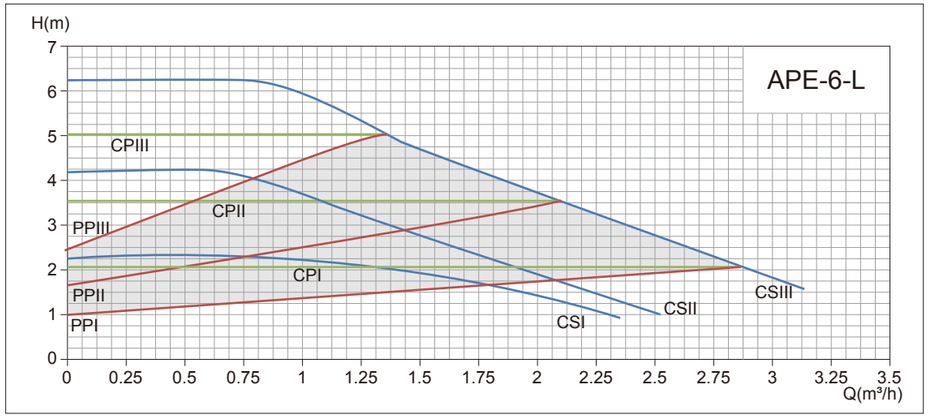
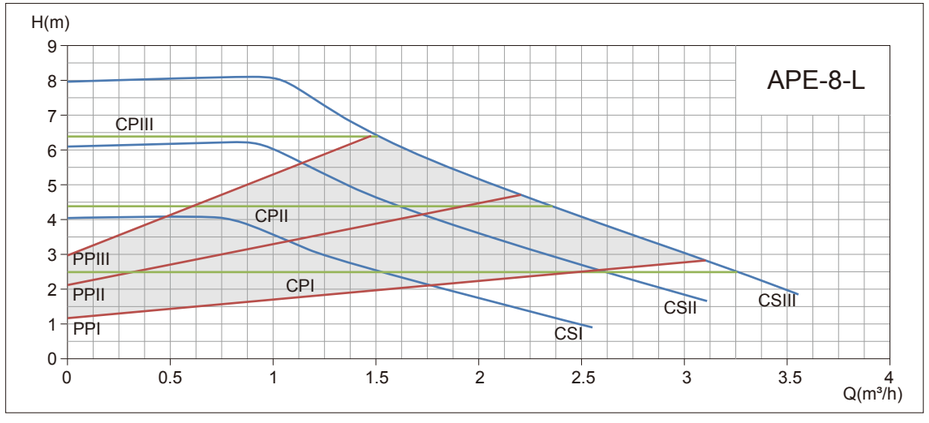
APE-L

Performance Curve



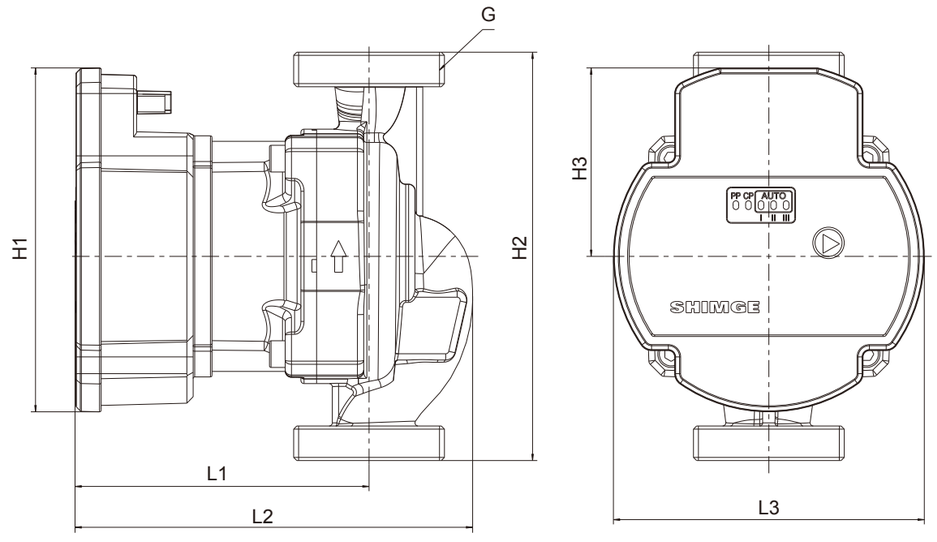




Eiectrical And Hydraulic Data

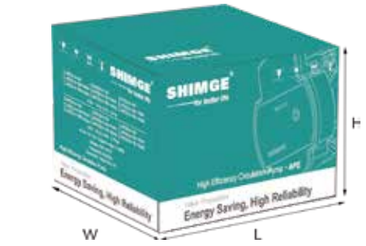
Model	Pipe Distance (mm)	Voltage (V/Hz)	Max. input power(W)	Max.head (m)	Max.flow (m³/h)	Dated.flow (m)	Efficiency (%)
APE20-4-130L	DN20	230V-50Hz/60HZ	25	4	2.2	1.5	40
APE20-6-130L			45	6	2.5	1.8	
APE20-8-130L			63	8	2.5	1.9	
APE25-4-130L	DN25		25	4	2.5	1.5	
APE25-6-130L			45	6	3.5	1.8	
APE25-8-130L			63	8	3.5	1.9	
APE25-4-180L			25	4	2.5	1.5	
APE25-6-180L			45	6	3.5	1.8	
APE25-8-180L			63	8	3.8	1.9	
APE32-4-180L	DN32		25	4	3.0	1.5	
APE32-6-180L			45	6	3.5	1.8	
APE32-8-180L			63	8	4.0	1.9	

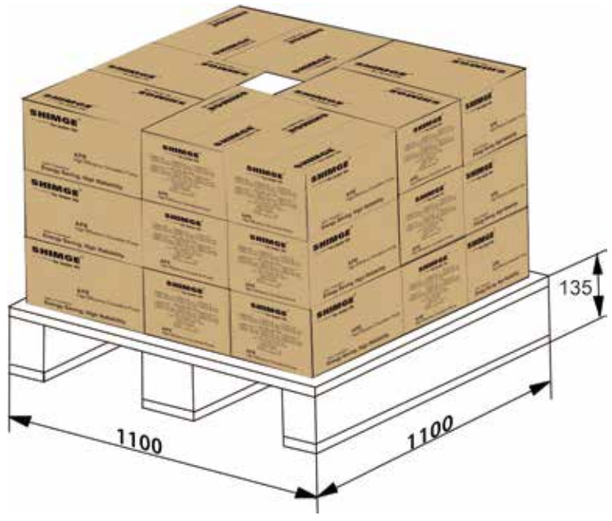
Components & Materials

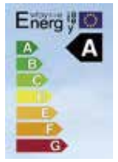


Technical Data

Model	Dim.(mm)								Inter Box (kg)		Outer Box		
	L1	L2	L3	H1	H2	H3	G	Unions	Net weight	Gross weight	PCS/CTN	Overall dimension (mm)	Gross weight (kg)
APE20-4-130L(PWM1)	94	127	99	110	130	60	G1	G1-G¾	1.6	2.0	8	320×290×260	16
APE20-6-130L(PWM1)													
APE20-8-130L(PWM1)													
APE25-4-130L(PWM1)							G1½	G1½-G1	1.7	2.2			18
APE25-6-130L(PWM1)													
APE25-8-130L(PWM1)													
APE25-4-180L(PWM1)					180				1.9	2.4		410×290×240	20
APE25-6-180L(PWM1)													
APE25-8-180L(PWM1)													
APE32-4-180L(PWM1)							G2	G2-G1¼	2.0	2.75			22.5
APE32-6-180L(PWM1)													
APE32-8-180L(PWM1)													







EEI≤0.23

BPE

Model Instruction

BPE 15 - 8A

- 8:Max.Head(m)
  A:Pump bodytype
- Inlet and Outlet diameter(mm)
- Intelligent frequency converter circulation type

Performance Range

Max. Flow: 2.2m³/h
Max. Head: 8m

Application Limits

- Medium temperature: 2 ℃ ~ 95 ℃
- Ambient temperature: 0 ℃ ~ 40 ℃
- Maximum system pressure: 0.3MPa (3bar)
- Protection level: IP44
- Thermal classification: E
- Voltage / frequency: 230V, 50 / 60Hz
- Suitable medium: Clean water without particles, mineral oil, non-toxic and neutral PH
- Installation method: The motor shaft is installed along the horizontal direction

Certificate

Applications Fields

This series of products are suitable for supporting gas wall hang boiler, electric wall hang boiler ,cold and hot water circulation system.

Features

- The cable is of quick plug structure, which is convenient for installation and maintenance
- Anti condensation, high insulation
- Small size and light weight
- Four pump body installation modes are suitable for a variety of installation environments
- Automatic exhaust function ,discharge valve from Italian Caleffi
- EEI≤0.23
- Internal five speed adjustable, external PWM speed control available
- Low noise and no leakage

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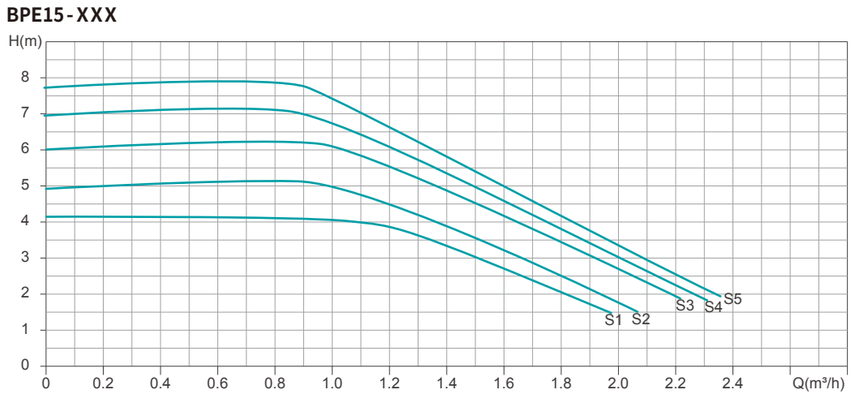
BPE

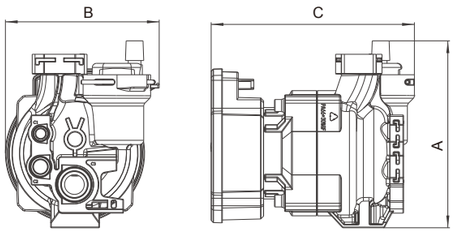
Performance Curve



Eiectrical And Hydraulic Data

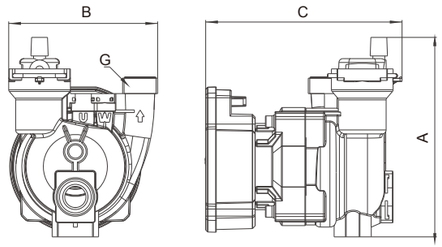
Model	Voltage (V)	Tap position	Input power (W)	Current (A)	Max. head (m)	Max. flow (m³/h)
BPE15-8A	230V/50Hz	S5	60	0.55	8	2.2
		S4	55	0.5	7	2.15
		S3	50	0.45	6	2.1
		S2	40	0.37	5	2
		S1	35	0.33	4	1.9
BPE15-8C		S5	60	0.55	8	2.2
		S4	55	0.5	7	2.15
		S3	50	0.45	6	2.1
		S2	40	0.37	5	2
		S1	35	0.33	4	1.9
BPE15-8D		S5	60	0.55	8	2.2
		S4	55	0.5	7	2.15
		S3	50	0.45	6	2.1
		S2	40	0.37	5	2
		S1	35	0.33	4	1.9
BPE15-8E		S5	60	0.55	8	2.2
		S4	55	0.5	7	2.15
		S3	50	0.45	6	2.1
		S2	40	0.37	5	2
		S1	35	0.33	4	1.9

Dimensions

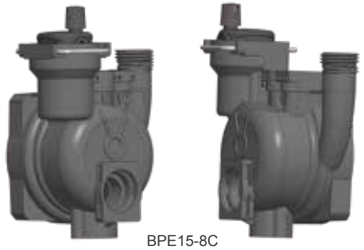


BPE15-8A

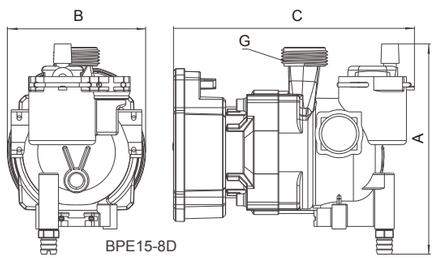
BPE15-8A



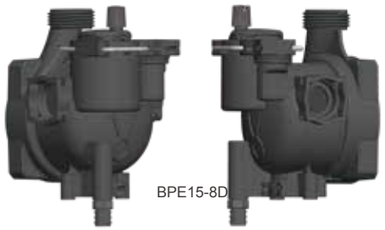
BPE15-8C



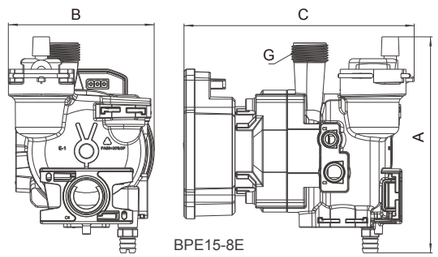
BPE15-8C



BPE15-8D



BPE15-8D



BPE15-8E

BPE15-8E

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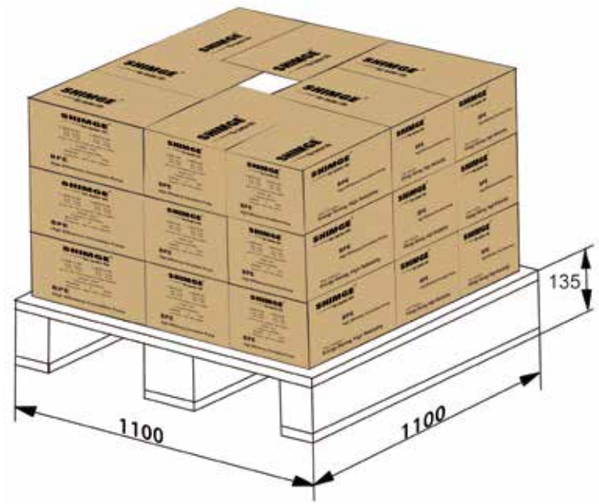
BPE

Technical Data

Model	Inlet /outlet size	Size(mm)				Inner box		Outer box		
	(mm)	A	B	C	G	N.W (kg)	G.W (kg)	PCS/ CTN	Overall dimension(mm)	G.W (kg)
BPE15-8A	15	133	109	144	-	1.2	1.4	8	350×260×340	12
BPE15-8C	15	150	112	148	G¾"	1.2	1.4	8	350×260×340	12
BPE15-8D	15	151	99	172	G1"	1.2	1.5	8	400×340×260	13
BPE15-8E	15	158	106	168	G¾"	1.2	1.6	8	400×340×260	14



HBS-12

Certificate

CE

Feature to hot water circulator

1. Offering the warm water in any time when you open the tap, which have your life comfortable and intelligent!

2. Saving the cooling water every drop, which have us join the action to protect the water resource!

3. Offering big water when the pressure is lower.

Start Mode

01. Timing mode
Any hour and period in the 24 hours can be set freely,the pump is in the intelligent constant temperature mode during the set period. (Note: Return pipe or temperature control valve is required)

02. Forced water mode
In any state, press the"On /Off" key to start the water pump. After reaching the set time or the preset target temperature, the water pump stops.

03.Flow mode
Before using water, turn on the tap for 2-6 seconds and then turn it off. When the water temperature of the water pump is lower than the set target temperature, it will run. Turn on the tap again and there will be hot water.

04.Remote control mode
In the same water flow mode, the water temperature detection is triggered by remote control. Remote control distance is 15m and can come through a wall.

Model Instruction

HB S -12

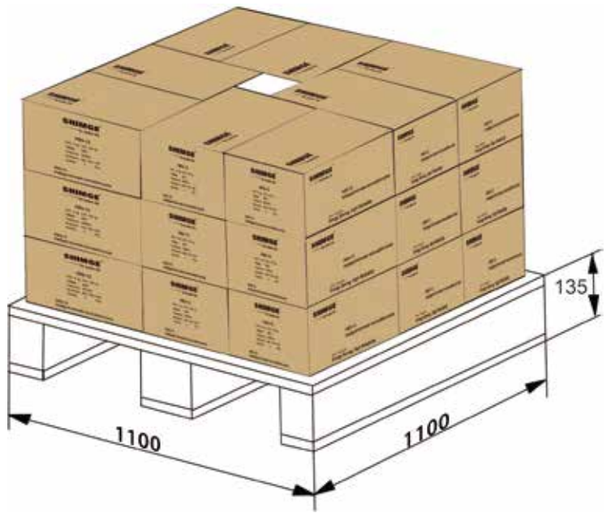
- -12 — The Highest lift(m)
- S — Type is device
- HB — Hot Water backwater series

Performance Range

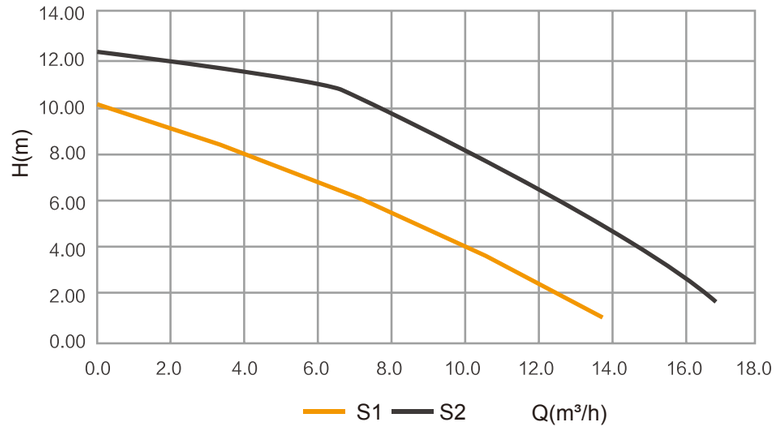
Rated Flow: 8L/Min
Max. Head: 12m

Specification to hot water circulator

Item / Specification	ITEM: High efficiency converter circulation pump
Pump Model:	HBS-12
Motor:	Permanent Magnet DC motor
Pump structure:	plastic packaging motor , LED screen
Power:	220V AC 187 ~253V
Working pattern	Touch control and remote control, wi-fi connection
Medium temperature:	2 to 70℃
Hydraulic performance:	Max. Head: 12m Rated Head: 10m Rated. Flow: 9L/m
Pipe date:	Pipe size: G ½ Circulation pipe length: 150m
Min. Input pressure:	0.005MPa
Max. working pressure:	1.0MPa
Ambient temperature:	-20 to 40℃ (without freezing)
Storage temperature / Humidity	-20 to 80℃ (without freezing) / 40℃ 95%RH

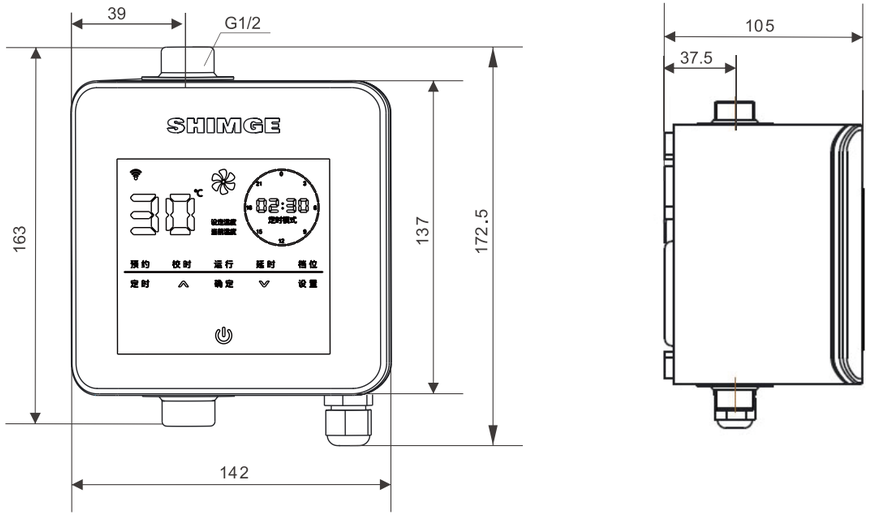


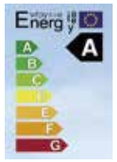
Performance to hot water circulator



Item No.	Max. Head	Dated. Flow	Dated. Head	Max. Input Power	Pump efficiency
	m	L/min	m	W	%
HBS-12	12	8	10	55	27

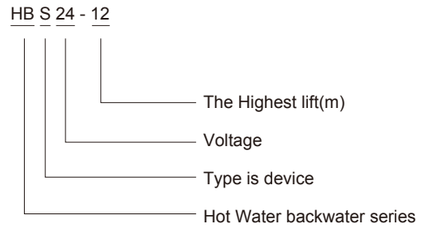
Dimensions & Technical Data





HBS24-12

Model Instruction



Application Limits

For gas water heater, air energy water heater, electric water heater, wall-hanging gas boiler, solar water heater etc.

Installation instructions

- For houses without return pipes, the product should be installed at the end of hot water pipe, or under the basin near the end, in series between the hot water pipe and the cold water pipe.
- For houses with return pipes, the product should be installed at the return port of the water tank, or at the end of hot water pipe or under the basin near the end, connected in series between the hot water pipe and the return pipe.

Certificate

CE

Features

- Brass pump body, clean and anti-rust
- 24V ultra low safe voltage
- Low noise
- High head, big flow
- Smart size, easy to install
- Simplified but nice-looking outlook
- With built-in high efficiency pump
- One-button start
- Remote start

Performance Range

Max. Flow: 23L/min
Max. Head: 12m

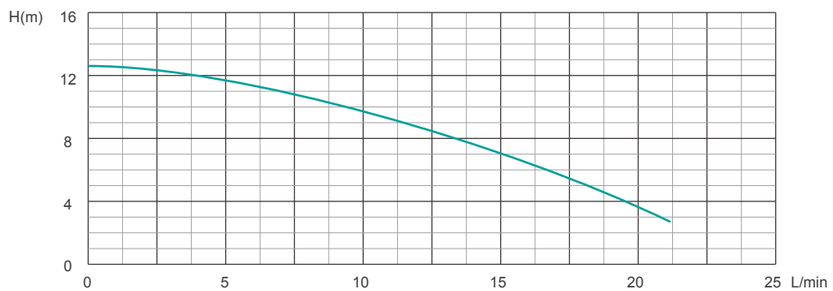
Initiating mode

- Smart constant temperature mode:
  When turned on, the "SHIMGE" icon lights orange, and the pump operates at constant temperature throughout a day.
- Energy-saving constant temperature mode:
  When turned on, the "SHIMGE" icon lights green, and the pump operates at energy-saving constant temperature state throughout a day.
- Energy-saving remote control mode:
  Remove control distance 15m(can pass through a wall). When turned on, the pump operates at constant temperature for one hour.
- Mandatory mode:
  Short press the "SHIMGE" icon in any state, the pump will start until it reach the set time or the target temperature.

Debug method

- **Mode switch: Long press the "SHIMGE" icon**
- **Speed switch: Short press the "SHIMGE" icon**
- **Temperature adjustment: Press the +/- button of the remote control to change the set temperature.**
  When the set temperature is reached, the buzzer will beep for a long time.

Performance Curve



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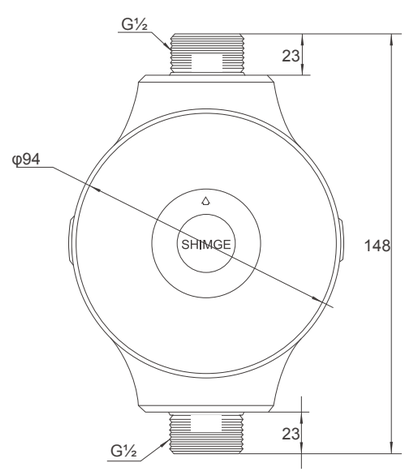
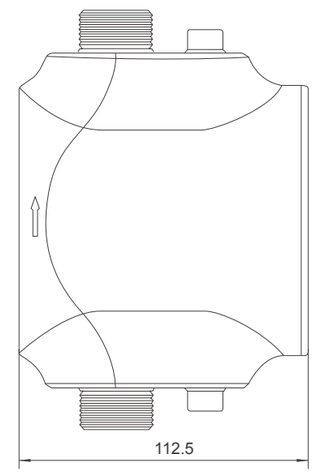
HBS24-12

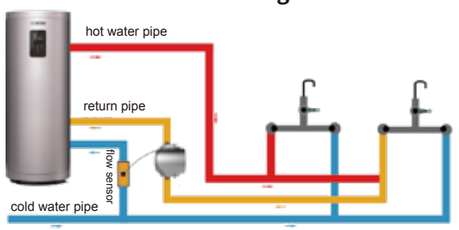
Installation size



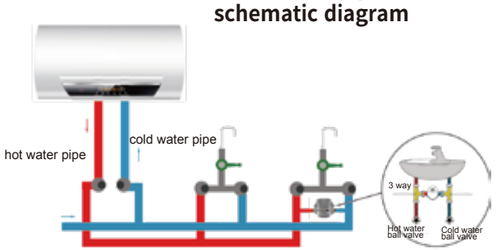


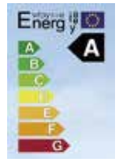
Iznstallation schematic diagram

With return pipe installation schematic diagram



With return pipe installation schematic diagram





HB

Application Limits

The built-in hot water re-circulation pump adopts plastic sealed motor, NdFeB rotor, ceramic shaft and engineering plastics pump body. Flow range 0-16L/min, input power 0-55W, used in the circulating heating of the cooled hot water in the water heater system.

Application Limits

- Liquid temperature： 0℃-80℃
- Ambient temperature：-20℃ -60℃（No condensation）
- Max. system pressure： 1.0MPa
- Protection level：IPX4
- Pumped liquid characteristics：clean water, free from solids and mineral oils, non-toxic, chemically neutral
- Installation：Installation: the motor shaft must be kept in horizontal direction

Model Instruction

HB 24 - 12 A

- A — Company customization
- 12 — The Highest lift(m)
- 24 — voltage
- HB — Hot Water backwater series

Performance Range

Max. Flow: 18L/min
Max. Head: 12m

Applications Fields

The product is applied to the system for the purpose of warmwater circulation, especially suitable for the circulating heating of the cooled hot water in the water heater system, reducing the waiting time of hot water and the waste of water.

Features

- Ceramic shaft, wear-resistant and corrosion-resistant, longer service life
- High head, low noise and no leakage
- Modular design, easy for maintenance

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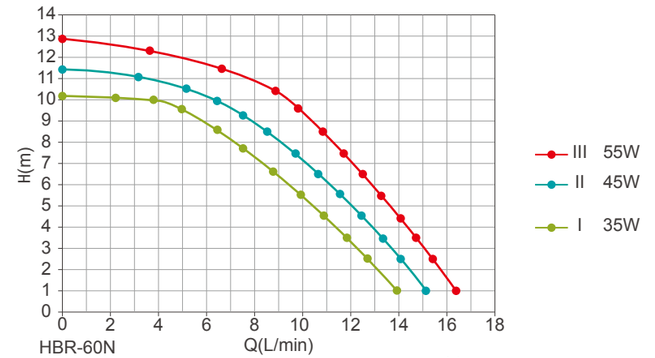
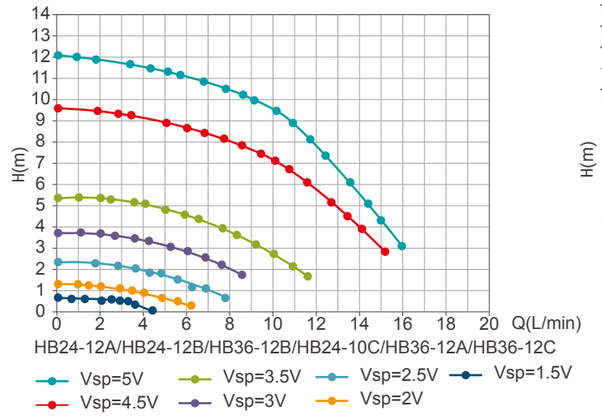
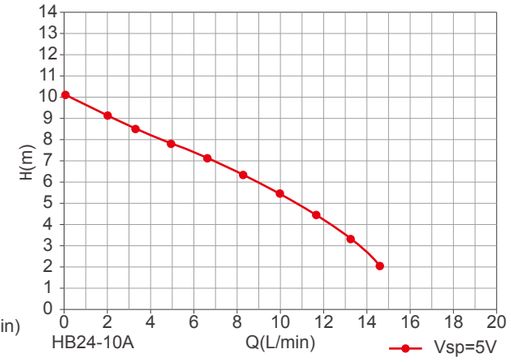
HB

Performance Curve

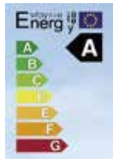






Eiectrical And Hydraulic Data

Model	Pipe Diameter (mm)	Voltage /	Tapposition /	Max.head (m)	Rated.flow (L/min)	Rated.head (m)	Input power (W)
HBR60N	10	220V/50Hz	III	12	8	10	55
HB24-10A	10	24	VSP/PWM	10	8	6	30
HB24-12A	10	24	VSP/PWM	12	9	10	55
HB24-12B	10	24	VSP/PWM	12	9	10	55
HB24-10C	10	24	VSP/PWM	10	9	8	45
HB36-12A	10	36	VSP/PWM	12	9	8	45
HB36-12B	10	36	VSP/PWM	12	9	10	50
HB36-12C	10	36	VSP/PWM	12	9	8	45



XPH15

Application Limits

- Liquid temperature: +2℃ ~+70℃
- Maximum ambient temperature +40℃
- Maximum system pressure 10bar
- Protection level: IP42
- Mains connection: 115V/60Hz
- Insulation class: H
- Pumped liquid characteristics: clean, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water
- Installation: the motor shaft must be kept in horizontal direction
- PH: 6.5 to 8.5

Certificate

CSA NSF

Applications Fields

The product is applied to the system for the purpose of warm water circulation. It is suitable for the re-circulating heating of cooled water in the water heater system with heat storage part, so as to reduce the waiting time of water heating and avoid water wasting.

Model Instruction

XPH 15 - 2 - 130

- 130 — Distance Between Inlet And Outlet(mm)
- 2 — Max. Head(m)
- 15 — Inlet And Outlet Diameter(mm)
- XPH — Timing And Constant Temperature Circulation Type

Features

- Low noise
- No leakage
- Timing operation

Performance Range

Max. Flow: 1m³/h
Max. Head: 2m

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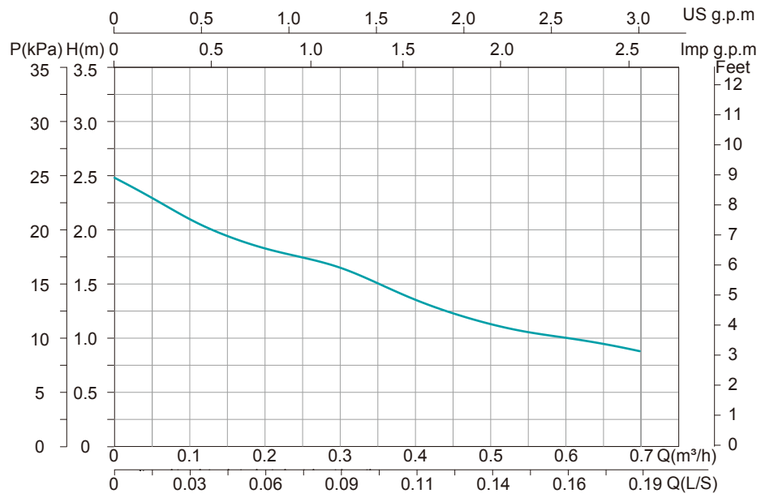
XPH15

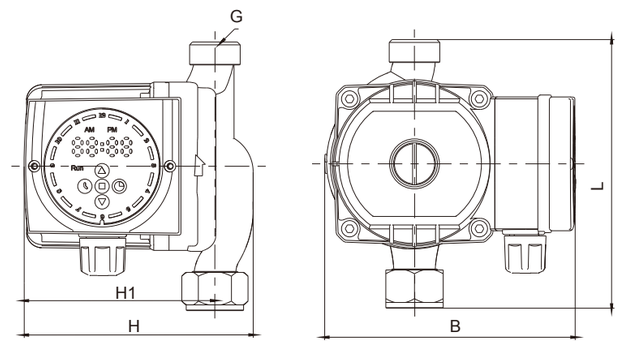
Performance Curve



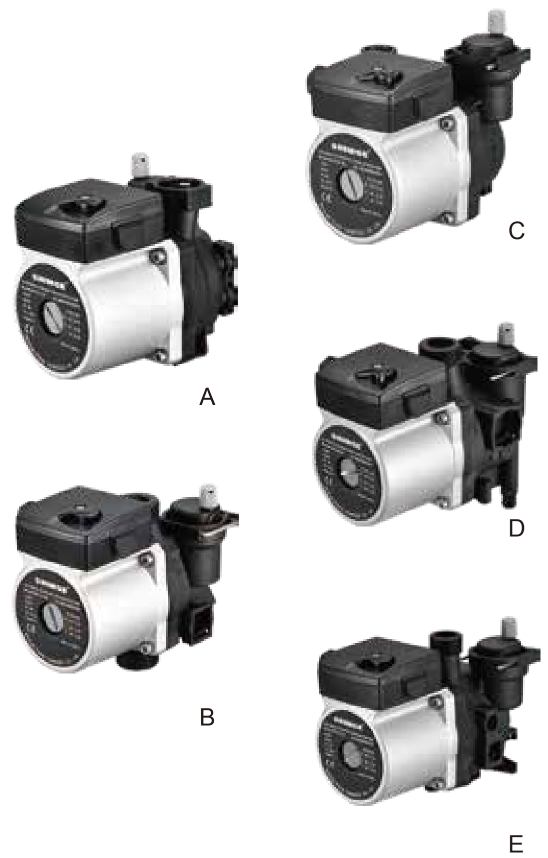
Eiectrical And Hydraulic Data

Model	Input power P1(W)	Current (A)	Pipe Distance (mm)	Max.head (m)	Max.flow (m³/h)
XPH15-2-130	30	0.26	130	2	1

Dimensions & Technical Data



Model	Dim.(mm)					Unions	N.W(kg)	Inter Box		Outer Box		
	H	H1	L	G	B			G.W.(kg)	Dim.(L×W×H)	PCS/CTN	Dim.(L×W×H)	G.W.(kg)
XPH15-2-130	120	100	140	G¾"	130	G¾"-G½"	2.5	3.5	165×140×150	8	350×300×320	29



BPS

Application Limits

- Liquid temperature: +2℃ ~ +95℃
- Maximum ambient temperature +40℃
- Maximum system pressure 10bar
- Protection level: IP44
- Mains connection: 220V/50Hz
- Insulation class: H
- Pumped liquid characteristics: clean, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water
- Installation: the motor shaft must be kept in horizontal direction
- pH: 6.5 to 8.5

Certificate

CE

Applications Fields

For gas hanging boilers

Model Instruction

BPS 15 - 5 A

- A — Pump Body Type
- 5 — Max. Head(m)
- 15 — Inlet And Outlet Diameter(mm)
- BPS — Automatic Pressure Circulation Type

Features

- 3-speed adjustment
- Low noise
- No leakage
- Automatic Exhaust
- Various pump body structures applied to various types of installation

Performance Range

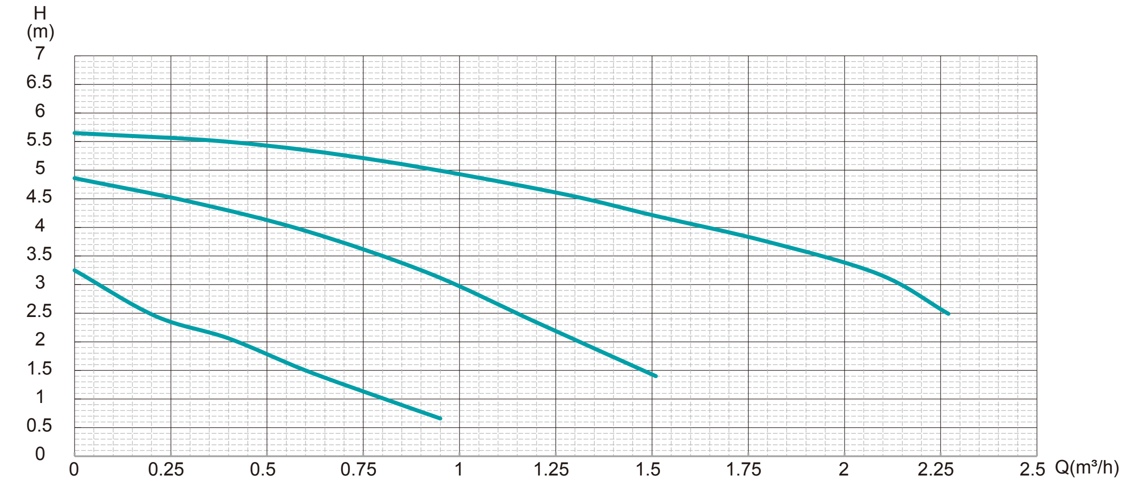
Max. Flow: 2m³/h
Max. Head: 6.5m

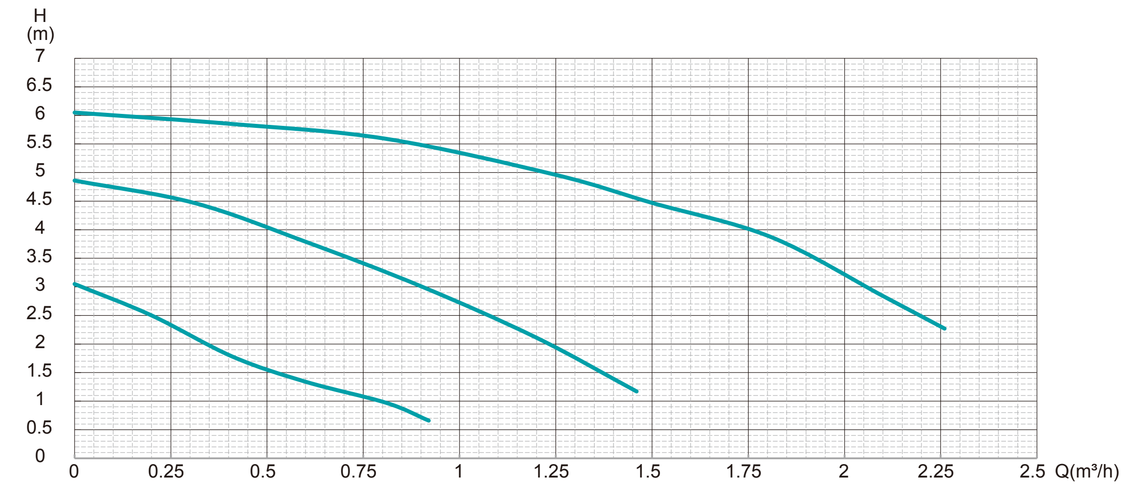
Optional Available on Request

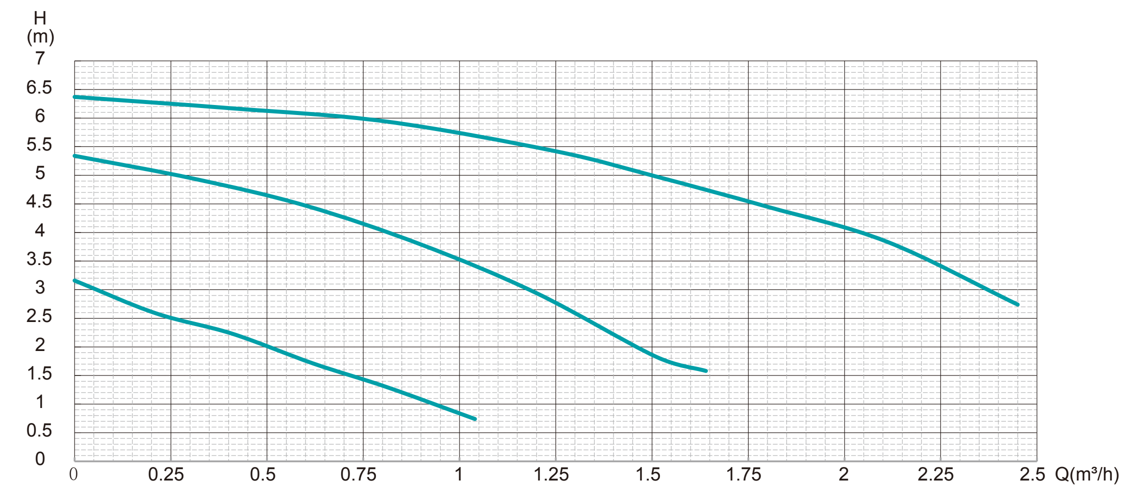
(* Standard configuration on Page 16)

- Products can be customized according to customer's voltage and frequency

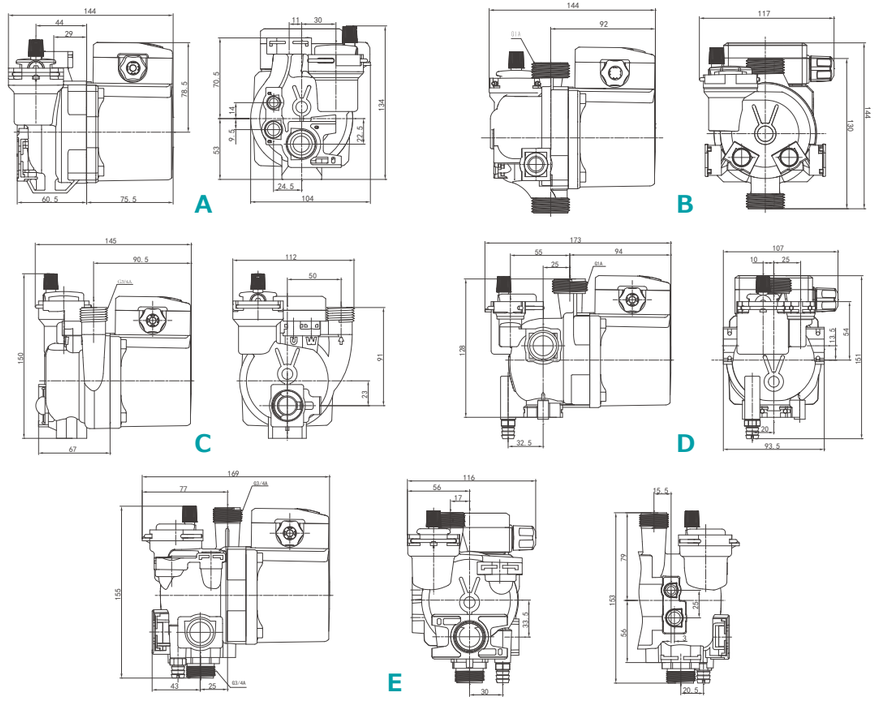
Performance Curve







Components & Materials



Eiectrical And Hydraulic Data

Model	Inlet (mm)	Dim.(mm)			G	Inter Box		Outer Box		
		Height	Width	Length		G.W.(kg)	Dim.(L×W×H)	PCS/CTN	Dim.(L×W×H)	G.W.(kg)
BPS15-5A	15	134	104	144	-	2	150×130×140	8	320×280×300	16.5
BPS15-6A										
BPS15-7A										
BPS15-5B		144	117	144	G1"	2	155×130×150	8	330×280×320	16.5
BPS15-6B										
BPS15-7B										
BPS15-5C		150	112	145	G¾"	2	155×130×150	8	330×280×320	16.5
BPS15-6C										
BPS15-7C										
BPS15-5D		151	107	173	G1"	2.2	170×120×180	8	500×360×200	18.5
BPS15-6D										
BPS15-7D										
BPS15-5E		155	116	169	G¾"	2.2	170×120×180	8	500×360×200	18.5
BPS15-6E										
BPS15-7E										

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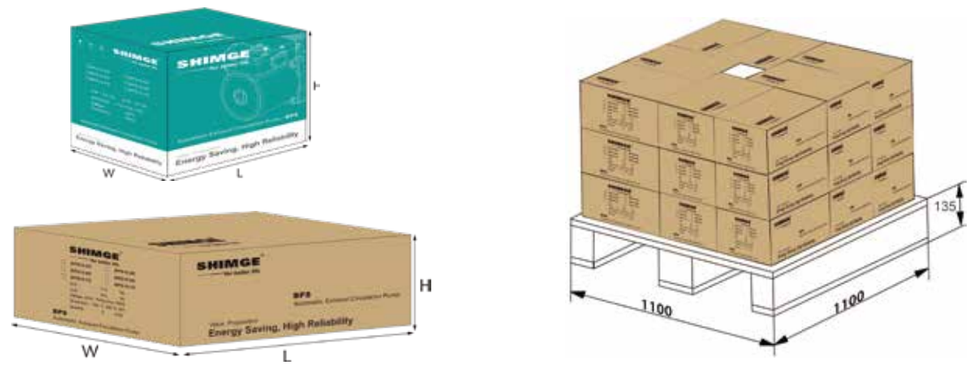
BPS

Dimensions & Technical Data

Model	Speed	Input power	Current	Capacitor		Max.head	Max.flow
		P1(W)	(A)	μF	Vc	(m)	(m³/h)
BPS15-5A	3	95	0.41	2.5	450	5	2
	2	75	0.33				
	1	50	0.23				
BPS15-6A	3	105	0.43			6	
	2	80	0.36				
	1	55	0.26				
BPS15-7A	3	135	0.58	3		6.5	
	2	115	0.53				
	1	80	0.38				
BPS15-5B	3	95	0.41	2.5		5	
	2	75	0.33				
	1	50	0.23				
BPS15-6B	3	105	0.43			6	
	2	80	0.36				
	1	55	0.26				
BPS15-7B	3	135	0.58	3		6.5	
	2	115	0.53				
	1	80	0.38				
BPS15-5C	3	95	0.41	2.5		5	
	2	75	0.33				
	1	50	0.23				
BPS15-6C	3	105	0.43			6	
	2	80	0.36				
	1	55	0.26				
BPS15-7C	3	135	0.58	3		6.5	
	2	115	0.53				
	1	80	0.38				
BPS15-5D	3	95	0.41	2.5		5	
	2	75	0.33				
	1	50	0.23				
BPS15-6D	3	105	0.43			6	
	2	80	0.36				
	1	55	0.26				
BPS15-7D	3	135	0.58	3		6.5	
	2	115	0.53				
	1	80	0.38				
BPS15-5E	3	95	0.41	2.5		5	
	2	75	0.33				
	1	50	0.23				
BPS15-6E	3	105	0.43			6	
	2	80	0.36				
	1	55	0.26				
BPS15-7E	3	135	0.58	3		6.5	
	2	115	0.53				
	1	80	0.38				



XPS

XPS-F

Application Limits

- Liquid temperature: +2℃～ +110℃
- Maximum ambient temperature +40℃
- Maximum system pressure 10bar
- Protection level: IP44
- Mains connection: 220V/50Hz
- Insulation class: H
- Pumped liquid characteristics: clean, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water
- Installation: the motor shaft must be kept in horizontal direction
- pH: 6.5 to 8.5

Certificate

CE

Applications Fields

XPS pumps are designed for circulation of liquids in heating and air-conditioning systems. Pumps with bronze or stainless steel housings are also suitable for use in hot-water service systems. Examples of typical applications are mix water underfloor heating system, air energy hot water circulation system, solar hot water circulation system, etc.

Model Instruction

XPS 32 - 8 F-220

- F-220: Distance Between Inlet And Outlet(mm)
- F: Flange ,No "F" For Thread
- 8: Max. Head(m)
- 32: Inlet And Outlet Diameter(mm)
- XPS: Basic Circulation Type

Features

- 3-speed adjustment
- Low noise
- No leakage

Performance Range

Max. Flow: 10m³/h
Max. Head: 12m

Optional Available on Request

(* Standard configuration on Page 22)

- Products can be customized according to customer's voltage and frequency
- Brass pump body, enamel pump body, stainless steel pump body

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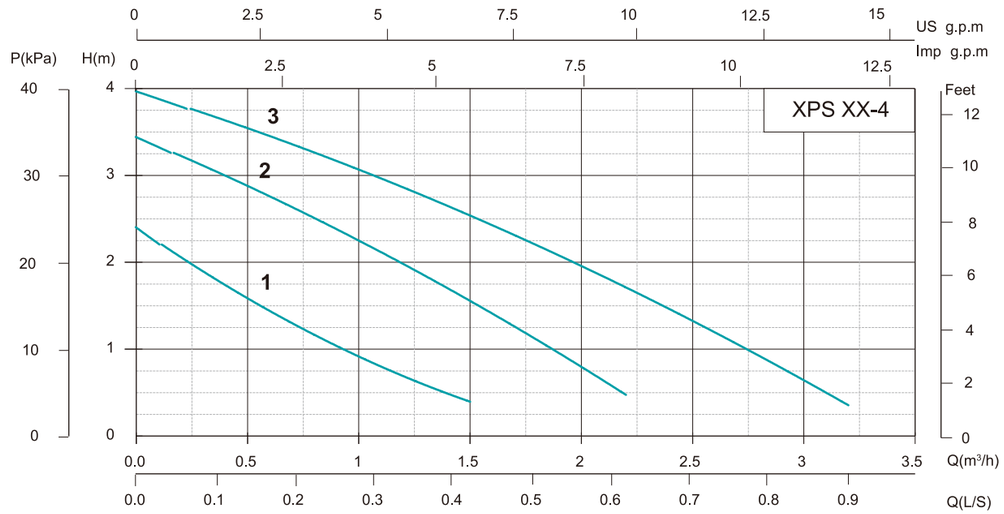
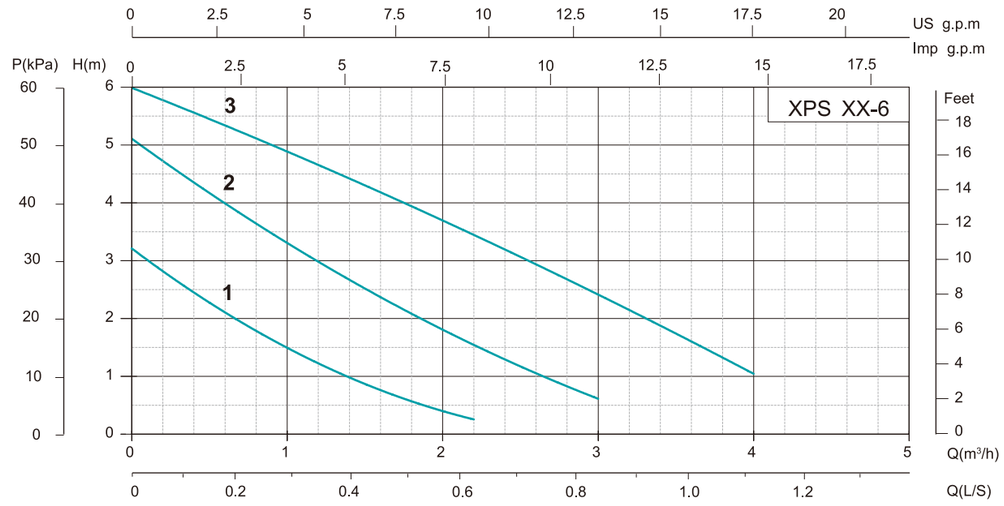
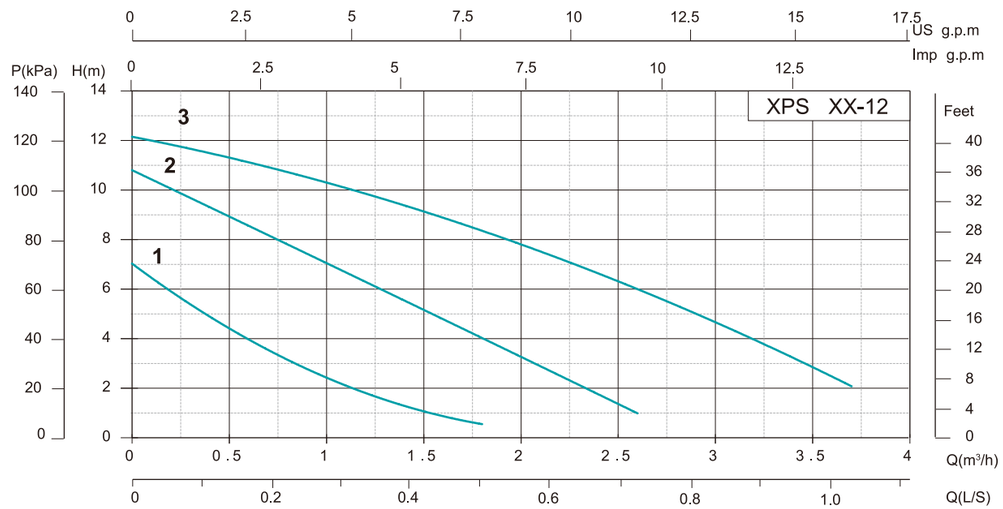
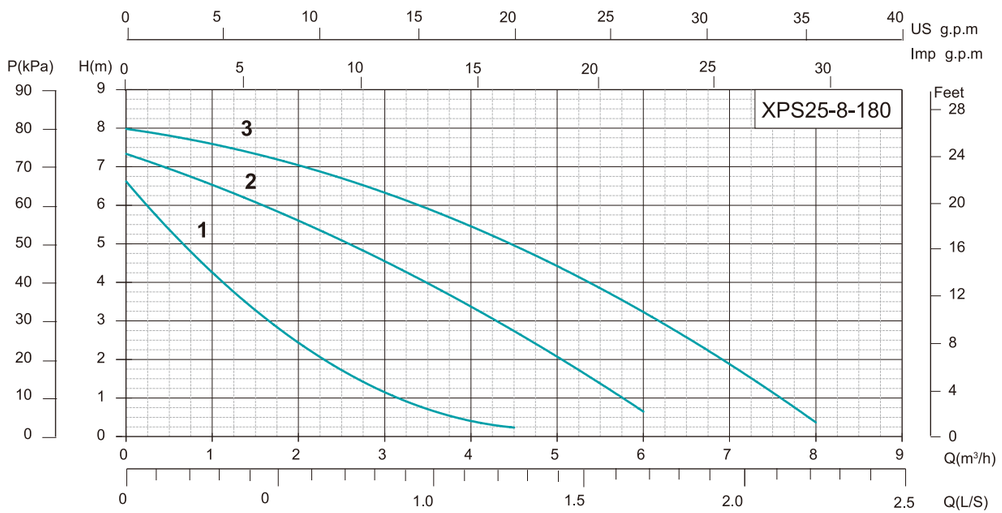
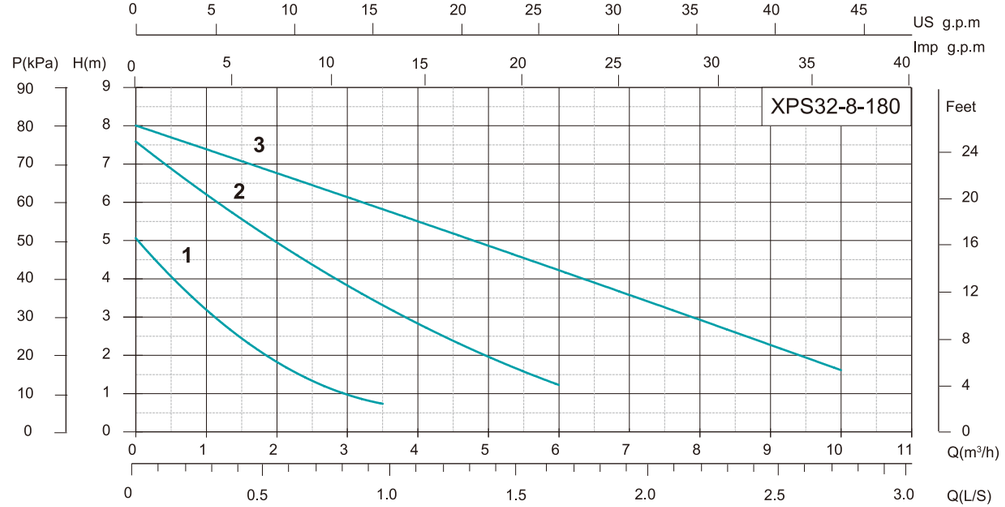
Performance Curve

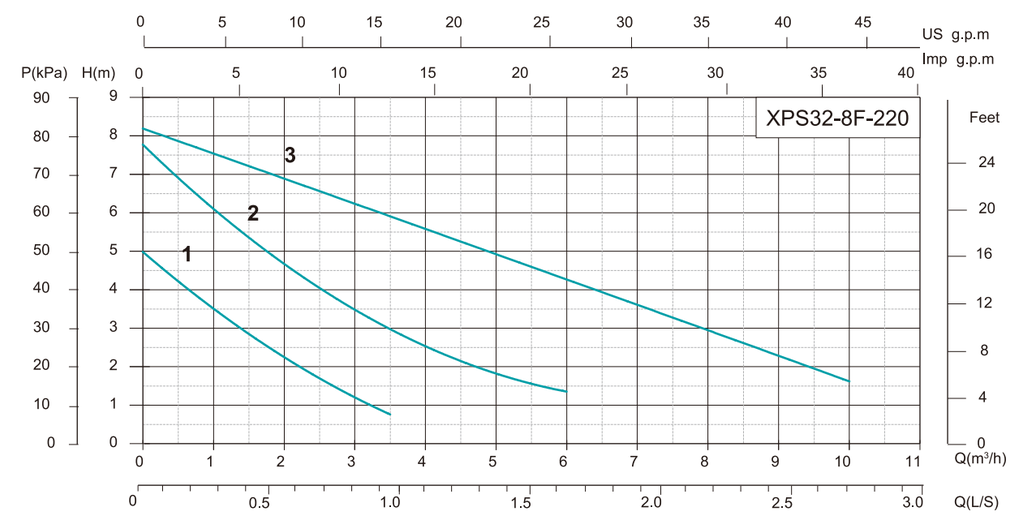




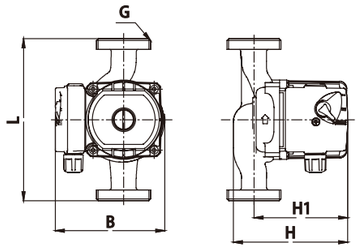

XPS XX-12
US g.p.m
Imp g.p.m
P(kPa)
H(m)
Feet
Q(m³/h)
Q(L/S)
1
2
3


XPS25-8-180
US g.p.m
Imp g.p.m
P(kPa)
H(m)
Feet
Q(m³/h)
Q(L/S)
1
2
3

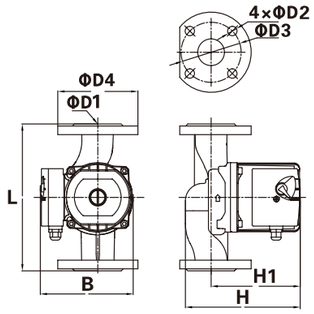

XPS32-8-180
US g.p.m
Imp g.p.m
P(kPa)
H(m)
Feet
Q(m³/h)
Q(L/S)
1
2
3


XPS32-8F-220
US g.p.m
Imp g.p.m
P(kPa)
H(m)
Feet
Q(m³/h)
Q(L/S)
1
2
3

Dimensions & Technical Data



XPS



XPS-F

Model	Dim.(mm)									Unions or Flange	N.W (kg)
	H	H1	L	G	B	D1	D2	D3	D4		
XPS15-4-130	120	105	130	G¾"	125	-	-	-	-	G¾"to G½"	2.3
XPS15-6-130											
XPS15-9-140	125	102	140	G¾"	105	-	-	-	-	G¾"to G½"	2.6
XPS20-4-130	125	105	130	G1"	130	-	-	-	-	G1"to G¾"	2.5
XPS20-6-130											
XPS25-4-130	125	105	130	G1½"	130	-	-	-	-	G1½"to G1"	2.8
XPS25-6-130											
XPS25-4-180	125	105	180	G1½"	130	-	-	-	-	G1½"to G1"	3
XPS25-6-180											
XPS32-4-180	130	105	180	G2"	130	-	-	-	-	G2"to G 1¼"	3.4
XPS32-6-180											
XPS20-12-180	160	135	180	G1"	150	-	-	-	-	G1"to G¾"	4.6
XPS25-8-180	160	130	180	G1½"	150	-	-	-	-	G1½"to G1"	4.8
XPS25-12-180											
XPS32-8-180	170	130	180	G2"	150	-	-	-	-	G2"to G 1¼"	5.2

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Model	Speed	Input Power P_1(W)	Current (A)			Capacitor		Pipe Distance (mm)	Max. head (m)	Whole lift (m)	Max. flow (m^3/h)	Inter Box		Outer Box			20" Loading Qty (pcs)
						μF/450V	μF/250V					G.W. (kg)	Dim. (L×W×H)	PCS/ CTN		G.W. (kg)	
			220V 50Hz	220V 60Hz	127V 60Hz	220V 50Hz/60Hz	127V/ 60Hz										
XPS15-4-130	3	60	0.26						4	0~4	2						
	2	45	0.20	/	/	2	/	130				2.5	150x130x140	8	320×280×300	21	6664
	1	30	0.13														
XPS15-6-130	3	90	0.40	0.40	0.80				6	0~6	2						
	2	65	0.30	0.30	0.65	2.5	6										
	1	45	0.20	0.20	0.4												
XPS15-9-140	3	120	0.48	0.48	0.95												
	2	85	0.38	0.38	0.66	3	10	140	9	0~9	1.6	2.8	180x120x135	8	380×260×290	23	5880
	1	60	0.26	0.26	0.45												
XPS20-4-130	3	60	0.26						4	0~4	2.2						
	2	45	0.20	/	/	2	/	130				2.7	150x130x140	8	320×280×300	22	6664
	1	30	0.13														
XPS20-6-130	3	90	0.40	0.40	0.80				6	0~6	2.2						
	2	65	0.30	0.30	0.65	2.5	6										
	1	45	0.20	0.20	0.4												
XPS25-4-130	3	60	0.26						4	0~4	3						
	2	45	0.20	/	/	2	/	130				3.0	150x130x140	8	320×280×300	25	6664
	1	30	0.13														
XPS25-6-130	3	90	0.40	0.40	0.80				6	0~6	3						
	2	65	0.30	0.30	0.65	2.5	6										
	1	45	0.20	0.20	0.4												
XPS25-4-180	3	60	0.26						4	0~4	3						
	2	45	0.20	/	/	2	/	180				3.2	200x130x155	8	415×280×330	26	4800
	1	30	0.13														
XPS25-6-180	3	90	0.40	0.40	0.80				6	0~6	3						
	2	65	0.30	0.30	0.65	2.5	6										
	1	45	0.20	0.20	0.4												
XPS32-4-180	3	60	0.26						4	0~4	3.5						
	2	45	0.20	/	/	2	/	180				3.6	200x130x155	8	415×280×330	30	4800
	1	30	0.13														
XPS32-6-180	3	90	0.40	0.40	0.80				6	0~6	3.5						
	2	65	0.30	0.30	0.65	2.5	6										
	1	45	0.20	0.20	0.41												
XPS20-12-180	3	245	1.04	1.04	1.80				12	0~12	3	4.8				20	3200
	2	210	0.92	0.92	1.60	6	20										
	1	140	0.63	0.63	1.10												
XPS25-8-180	3	200	0.83	0.83	1.65				8	0~8	7						
	2	185	0.78	0.78	1.55	6	15					5.0	200x160x180	4	415×340×200	21	3200
	1	145	0.62	0.62	1.45												
XPS25-12-180	3	245	1.04	1.04	1.80			180	12	0~12	3.5						
	2	210	0.92	0.92	1.60	6	20										
	1	140	0.63	0.63	1.10												
XPS32-8-180	3	245	1.04	1.04	1.80				8	0~8	10	5.4				22	3200
	2	210	0.92	0.92	1.60	6	/										
	1	140	0.63	0.63	1.10												

*Types with "/" can be developed according to need.

Application Limits

- Medium temperature：2℃~110℃
- Ambient temperature：0℃~40℃
- Maximum system pressure：1.0MPa
- Protection level：IP42
- Voltage / frequency：220V/50Hz
- Insulation class：H
- Suitable media:Clean water without particles, mineral oil, non-toxic and neutral pH
- Installation method: Install along the horizontal direction of motor shaft

Certificate

XPS-B

Model Instruction

XPS 20 - 6 130 B

- Company customization
- Distance Between Inlet And Outlet(mm)
- Max. Head(m)
- Inlet And Outlet Diameter(mm)
- Basic Circulation Type

Performance Range

Max. Flow: 6m³/h
Max. Head: 9m

Applications Fields

This series of products are applied to HVAC cold and hot water systems, such as floor heating mixed water system, air energy hot water circulation system, solar hot water circulation system and household cold and hot water circulation pressurization system

Features

- Three speed adjustable
- Low noise
- No leakage
- Energy saving and environmental protection

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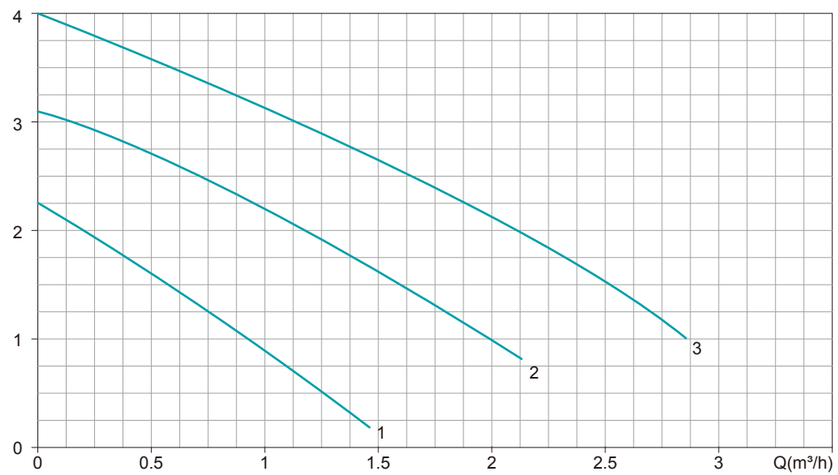
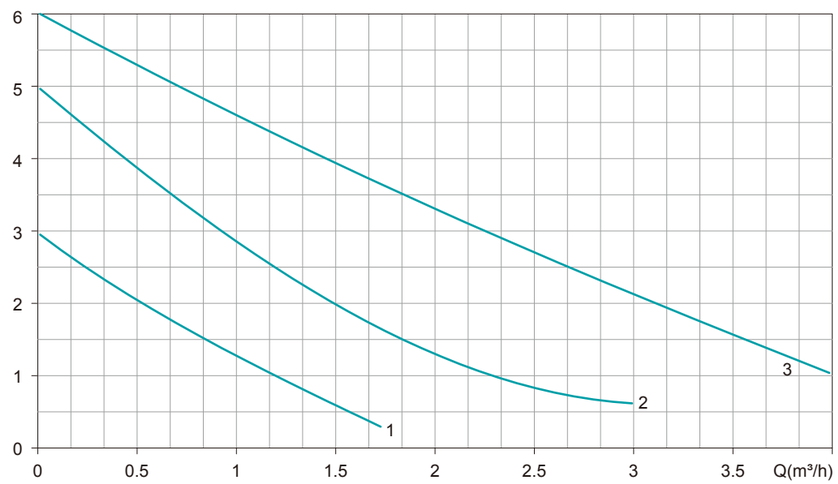
XPS-B

Performance Curve

XPS-B-4

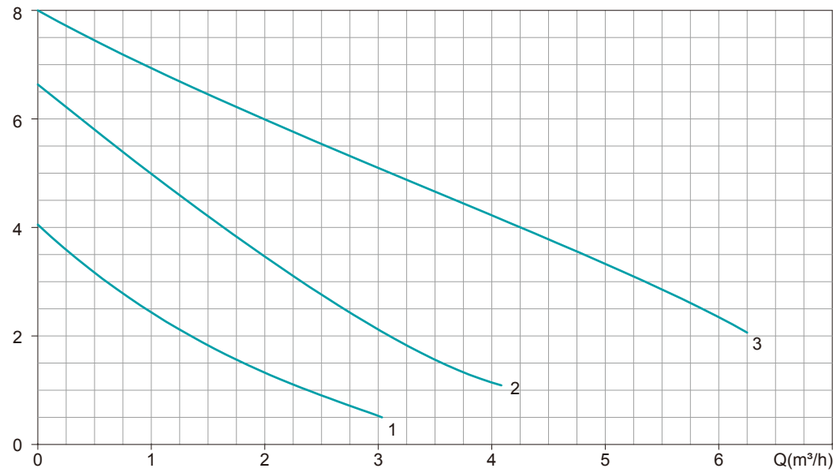


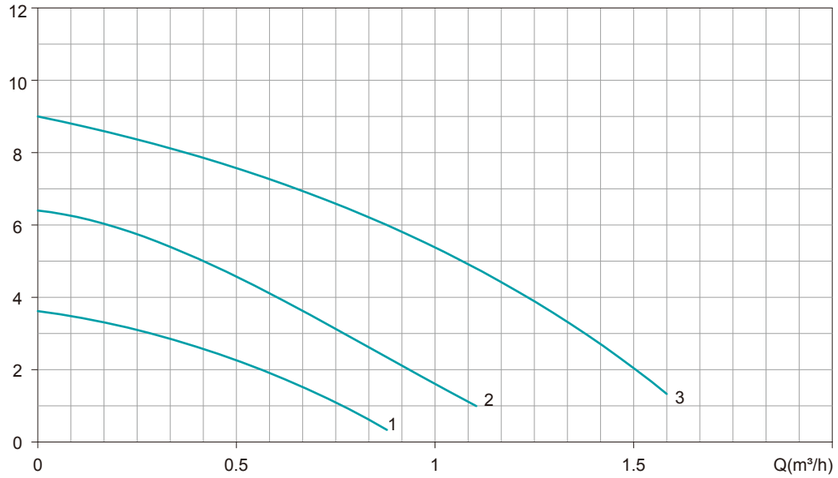
XPS-B-6



Performance Curve

XPS25/32-8-180B





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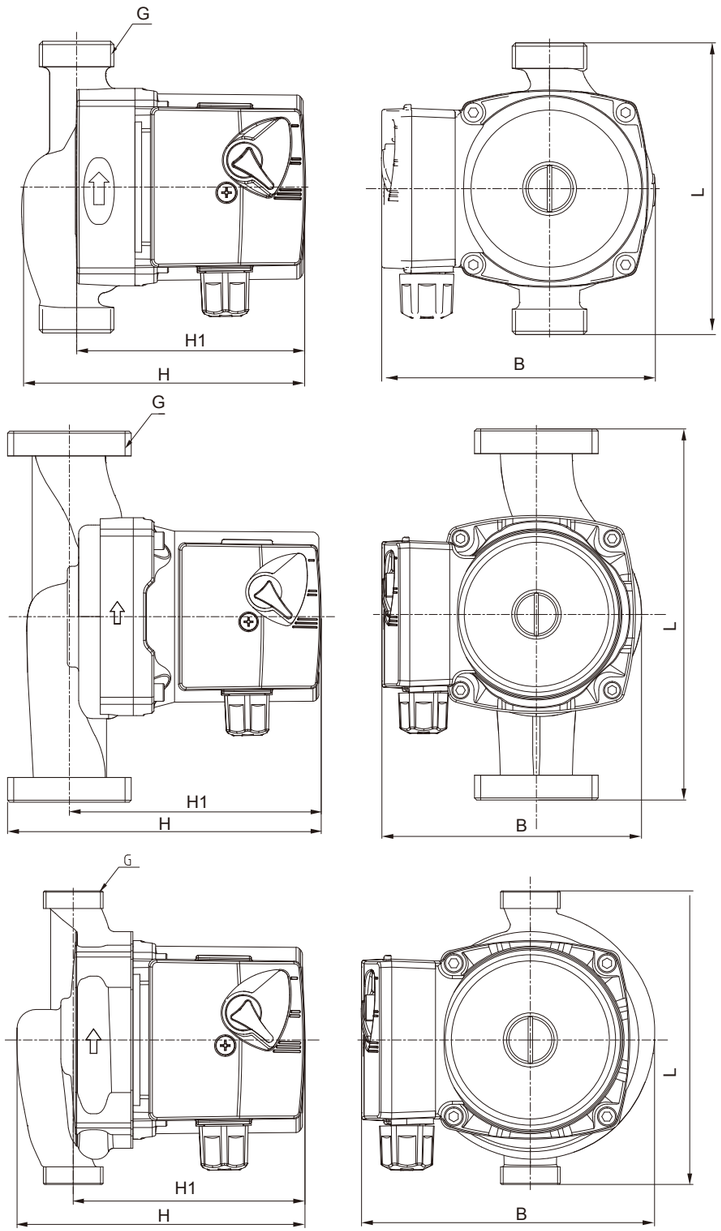
XPS-B

Eiectrical And Hydraulic Data

Model	Pipe Distance (mm)	Voltage	Speed	Input power	Current	Capacitor		Max.head	Max.flow
				P1(W)	(A)	μF	Vc	(m)	(m³/h)
XPS15-4-130B	130	130	3	70	0.35	2.5	450	4	2
			2	50	0.25				
			1	40	0.18				
XPS15-6-130B	130	130	3	100	0.5	3		6	2
			2	70	0.35				
			1	45	0.2				
XPS15-9-130B	130	130	3	120	0.58	3		9	1.6
			2	90	0.42				
			1	55	0.26				
XPS20-4-130B	130	130	3	70	0.35	2.5		4	3
			2	50	0.25				
			1	40	0.18				
XPS20-6-130B	130	130	3	100	0.5	3		6	3
			2	70	0.35				
			1	45	0.2				
XPS25-4-130B	130	130	3	70	0.35	2.5		4	3
			2	50	0.25				
			1	40	0.18				
XPS25-6-130B	130	130	3	100	0.5	3		6	3
			2	70	0.35				
			1	45	0.2				
XPS25-4-180B	180	180	3	70	0.35	2.5		4	3
			2	50	0.25				
			1	40	0.18				
XPS25-6-180B	180	180	3	100	0.5	3		6	3
			2	70	0.35				
			1	45	0.2				
XPS32-4-130B	130	130	3	70	0.35	2.5		4	3.5
			2	50	0.25				
			1	40	0.18				
XPS32-6-130B	130	130	3	100	0.5	3		6	3.5
			2	70	0.35				
			1	45	0.2				
XPS32-4-180B	180	180	3	70	0.35	2.5		4	3.5
			2	50	0.25				
			1	40	0.18				
XPS32-6-180B	180	180	3	100	0.5	3		6	3.5
			2	70	0.35				
			1	45	0.2				
XPS25-8-180B	180	180	3	180	0.85	4		7.5	5
			2	150	0.75				
			1	90	0.5				
XPS32-8-180B	180	180	3	180	0.85	4		7.5	6
			2	150	0.75				
			1	90	0.5				

Components & Materials



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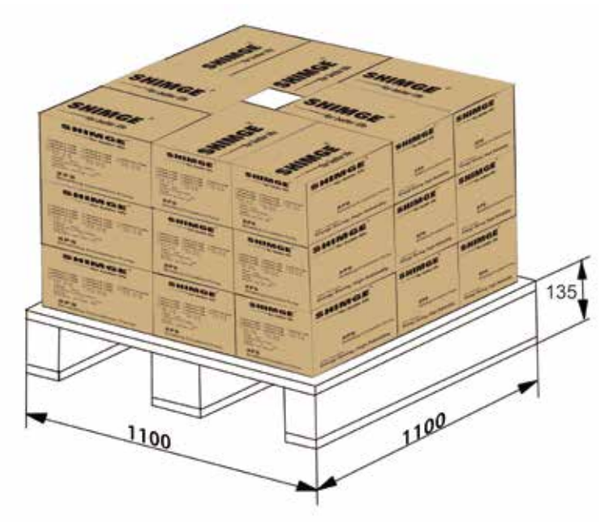
XPS-B

Dimensions & Technical Data
Technical Data

Model	Dim.(mm)						Inter Box		Outer Box		
	H	H1	L	B	G	Unions	G.W(kg)	Dim(L×W×H)	PCS/CTN	Dim(L×W×H)	G.W(kg)
XPS15-4-130B	125	102	130	122	G¾"	G¾"-G1½"	2.60	150×130×140	8	320×280×300	20
XPS15-6-130B	125	102	130	122	G¾"	G¾"-G1½"	2.75	150×130×140		320×280×300	23
XPS15-9-130B	127	102	130	130	G¾"	G¾"-G1½"	2.80	180×120×135		380×260×290	23
XPS20-4-130B	125	102	130	122	G1"	G1"-G¾"	2.60	150×130×140		320×280×300	20
XPS20-6-130B	125	102	130	122	G1"	G1"-G¾"	2.75	150×130×140		320×280×300	23
XPS25-4-130B	125	102	130	123	G1½"	G1½"-G1"	2.60	150×130×140		320×280×300	20
XPS25-6-130B	125	102	130	123	G1½"	G1½"-G1"	2.75	150×130×140		320×280×300	23
XPS25-4-180B	127	103	180	123	G1½"	G1½"-G1"	2.80	200×130×155		420×280×330	23
XPS25-6-180B	127	103	180	123	G1½"	G1½"-G1"	2.90	200×130×155		420×280×330	24
XPS32-4-180B	133	103	180	123	G2"	G2"-G1¼"	3.10	200×130×155		420×280×330	25
XPS32-6-180B	133	103	180	123	G2"	G2"-G1¼"	3.30	200×130×155		420×280×330	27
XPS25-8-180B	152	122	180	126	G1½"	G1½"-G1"	3.80	200×135×165	4	420×290×185	16
XPS32-8-180B	152	122	180	126	G2"	G2"-G1¼"	3.80	200×135×165		420×290×185	16



XP-F

XP

Application Limits

- Liquid temperature: +2℃～ +110℃
- Maximum ambient temperature +40℃
- Maximum system pressure 10bar
- Protection level: IP44
- Mains connection: 220V/50Hz、380V/50Hz
- Insulation class: F
- Pumped liquid characteristics: clean, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water
- Installation: the motor shaft must be kept in horizontal direction
- pH: 6.5 to 8.5

Certificate

CE

Model Instruction

XP 40 - 12 F-250

- Distance Between Inlet And Outlet(mm)
- F:Flange ,No ”F” For Thread
- Max. Head(m)
- Inlet And Outlet Diameter(mm)
- High-Power Circulation Type

Performance Range

Max. Flow: 30m³/h
Max. Head: 18m

Applications Fields

For HVAC systems such as air energy hot water circulation system, solar hot water circulation system, boiler heating system, pressurization of domestic tap water, industry hot or cold water circulation system, etc.

Features

- Wet rotor, canned motor, low noise, no leakage
- Silicon carbide friction pair, which is very wear-resisting

Optional Available on Request

(* Standard configuration on Page 28)

- Products can be customized according to customer's voltage and frequency
- Brass pump body, enamel pump body, stainless steel pump body

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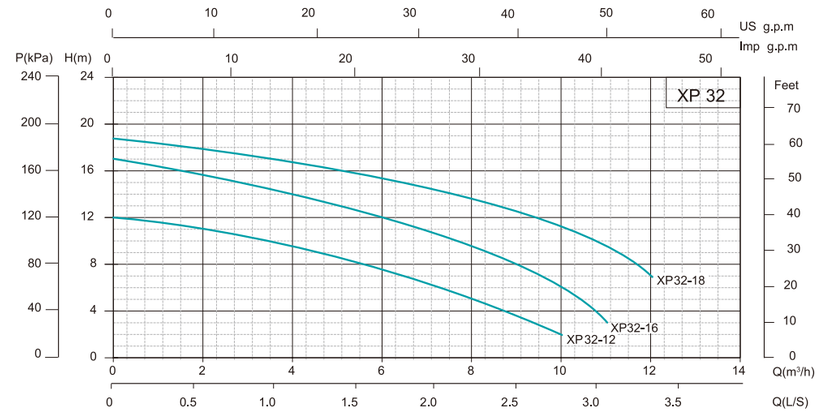
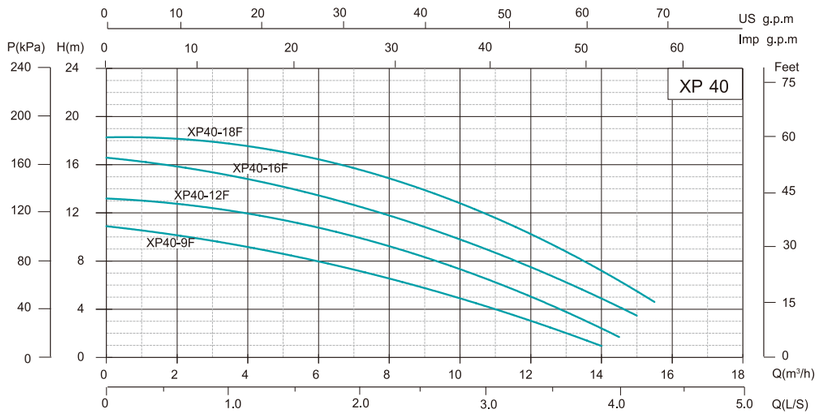
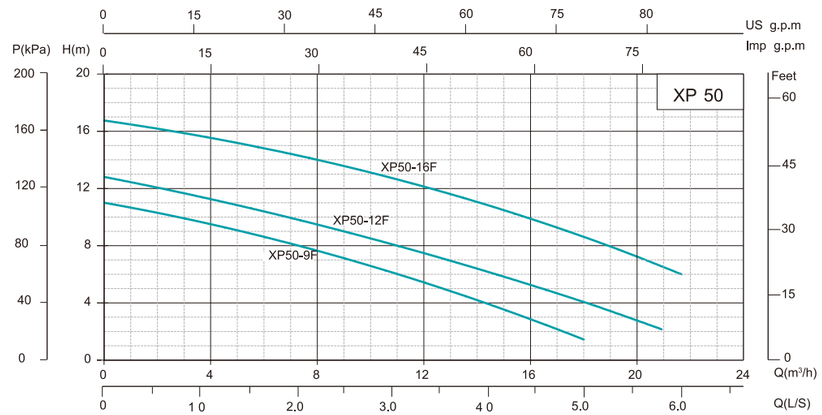
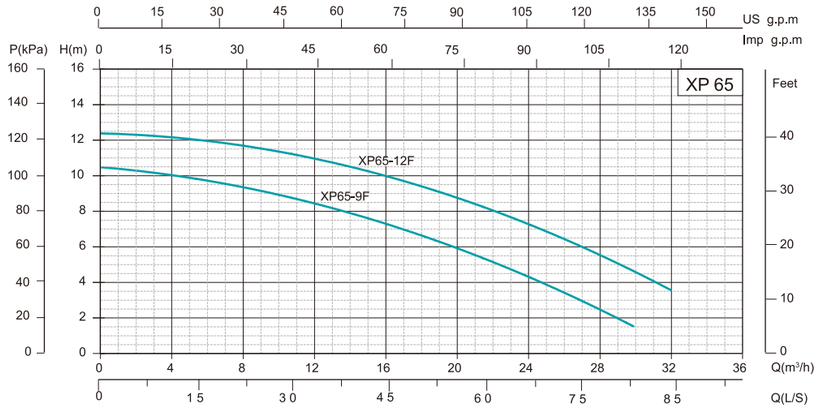
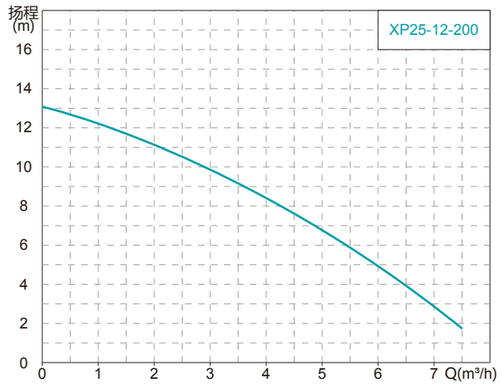
Performance Curve

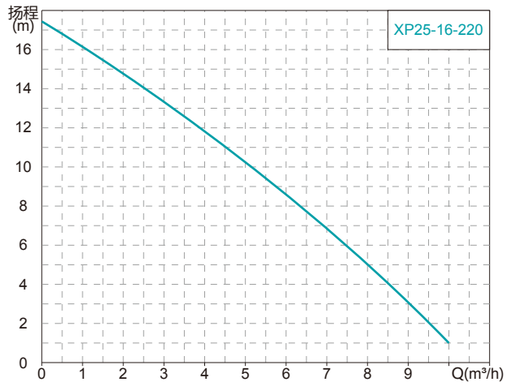




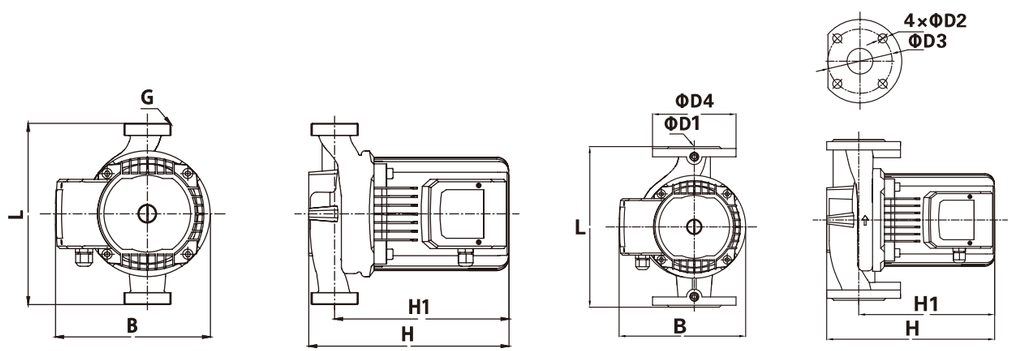








Dimensions & Technical Data



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Model	Dim.(mm)									Flange	N.W.(kg)
	H	H1	L	G	B	D1	D2	D3	D4		
XP25-12-200	202	163	200	G1½	165	-	-	-	-	G1½toG1	6.6
XP25-16-220	213	171	220	G1½	173	-	-	-	-	G1½toG1	8.2
XP32-12-220	245	200	220	2"	200	-	-	-	-	G2"to G1.25"	9.5
XP32-16-230	255	220	230	2"	215	-	-	-	-	G2"to G1.25"	12
XP32-18-230	255	220	230	2"	215	-	-	-	-	G2"to G1.25"	13
XP40-9F-250	255	200	250	DN40	200	40	14	100	130	DN40 to G2"	14.5
XP40-12F-250	265	210	250	DN40	215	40	14	100	130	DN40 to G2"	18
XP40-16F-250	265	210	250	DN40	215	40	14	100	130	DN40 to G2"	18
XP40-18F-250	265	210	250	DN40	215	40	14	100	130	DN40 to G2"	18.5
XP50-9F-280	280	220	280	DN50	215	50	14	11 0	140	DN50 to G2"	19
XP50-12F-280	280	220	280	DN50	215	50	14	110	140	DN50 to G2"	20
XP50-16F-280	280	220	280	DN50	215	50	14	110	140	DN50 to G2"	21
XP65-9F-300	290	220	300	DN65	215	65	14	130	160	DN65 to G2.5"	23
XP65-12F-300	290	220	300	DN65	215	65	14	130	160	DN65 to G2.5"	24

Model	Input power P_1(W)	Current (A)		Capacitor μF/450V 220V/50Hz	Pipe Distance (mm)	Max. head (m)	Whole lift (m)	Max. flow (m³/h)	G.W. (kg)	Dim. (L×W×H)	20" Loading Qty (pcs)
		220V/50Hz	380V/50Hz (PH3)								
XP25-12-200	300	1.5	/	10	200	12	0-12	8	7.5	235x200x230	
XP25-16-220	500	2.4	/	10	220	16	0-16	10	9.2	255x205x240	
XP32-12-220	500	2.2	/	10	220	12	0~12	10	10.5	250x210x275	1540
XP32-16-230	700	3.4	2	12.5	230	16	0~16	11	13	285x265x235	1368
XP32-18-230	1000	4.9	2.2	16		18	0~18	12	14		
XP40-9F-250	500	2.2	/	10	250	9	0~9	14	15.5	275x210x285	1200
XP40-12F-250	700	3.4	2	12.5		12	0~12	14	19	300x285x215	1197
XP40-16F-250	1000	4.9	2.2	16		16	0~16	15	19		
XP40-18F-250	1300	5.8	2.9	25		18	0~18	15	19.5		
XP50-9F-280	700	3.4	2	12.5	280	9	0~9	18	20	310x305x215	1071
XP50-12F-280	1000	4.9	2.2	16		12	0~12	22	21		
XP50-16F-280	1300	5.8	2.9	25		16	0~16	22	22		
XP65-9F-300	1000	4.9	2.2	16	300	9	0~9	30	24	325x325x225	1071
XP65-12F-300	1300	5.8	2.9	25		12	0~12	30	25		

CPH

Application Limits

- Suction head up to 7m
- Liquid temperature up to +100℃
- Ambient temperature up to +40℃
- Max. Working pressure: 6bar
- Voltage fluctuation should not exceed 10% of rated value.
- pH: 6.5 to 8.5
- Mains connection: 220V/50Hz、380V/50Hz

Certificate

CE

Applications Fields

- Suitable for transferring water without abrasive particles or other liquid whose properties are similar to water.
- Widely used in HVAC, industrial circulating water system, solar hot water and boiler circulating system, living water supply, etc.

Model Instruction

CPH S 220-40 F

- F: Flange
- Inlet And Outlet Diameter(mm)
- Rated Power1/10(W)
- Three-Phase Circulation Motor
- Hot Water Circulation Type

Features

- Pump body: Cast iron, electrophoretic treatment
- Impeller: Cast iron, electrophoretic treatment
- Shaft: 304 stainless steel welding shaft
- Mechanical seal: SiC/Graphite/ FPM rubber
- Motor: 2 pole asynchronous motor, copper wires, built-in thermal protector, fully closed fan cooling, continuous running
- Protection: IPX4 or IP22
- Insulation: B
- NSK bearing

Performance Range

Max. Flow: 36m³/h
Max. Head: 30m

Optional Available on Request

(* Standard configuration on Page 37)

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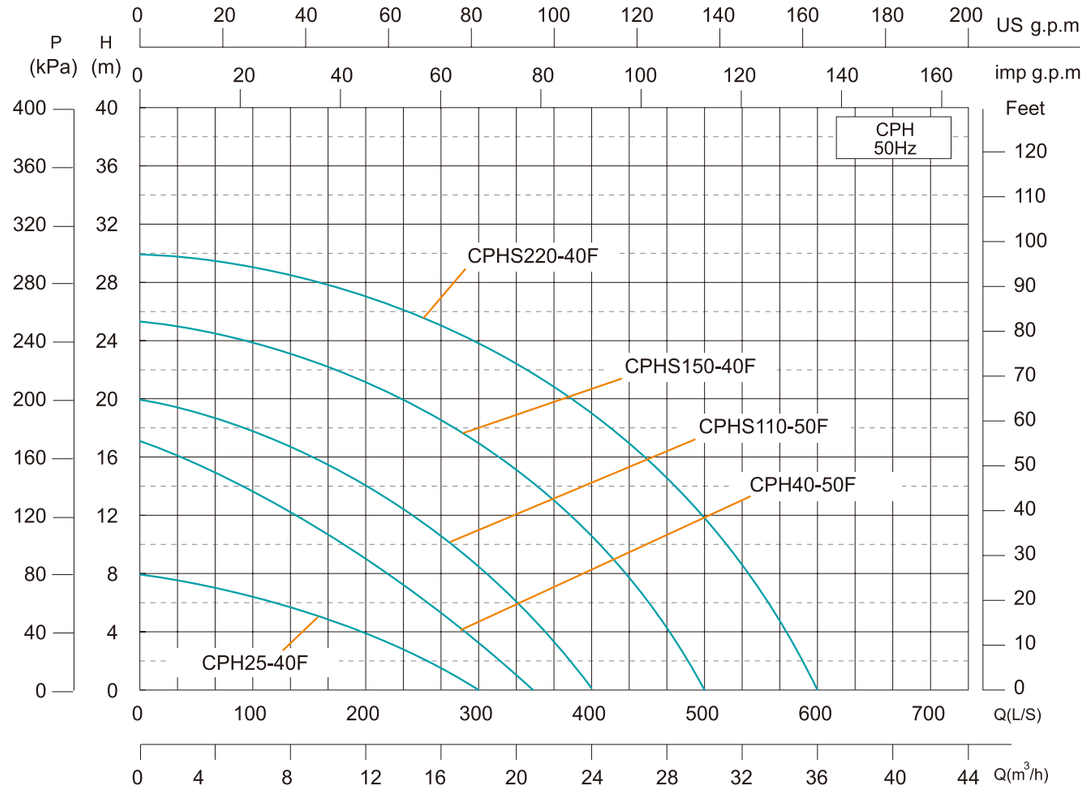
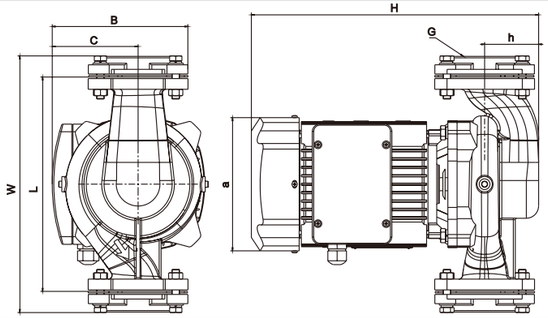
Performance Curve

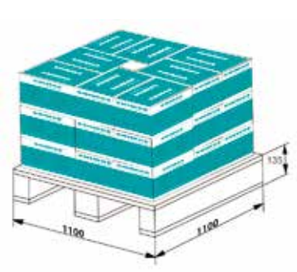


Dimensions & Technical Data



Model		Dim.(mm)							N.W.(kg)
Single-Phase	Three-Phase	H	h	a	L	B	C	W	
CPH10-40F	-	248	34	129	210	175	104	264	8.9
CPH12-50F	-	276	55	129	260	175	104	312	12.8
CPH25-40F	-	240	34	129	260	178	104	312	10.3
CPH25-50F	-	328	65	136	280	160	85	335	17
CPH40-50F	-	385	70	172	280	195	112	335	24.5
CPH110-50F	-	385	70	172	280	195	112	335	26
-	CPHS150-40F	435	76	193	310	220	124	365	35
-	CPHS220-40F	435	76	193	310	220	124	365	37.5

Model		Electrical Data				Max. flow (m^3/h)	Max. head (m)	Whole lift (m)	G (mm)	Outer Box		20" Loading Qty (pcs)
Single-Phase	Three-Phase	Input power P_1(W)	Current (A)	Capacitor μF	Capacitor Vc					G.W. (kg)	Dim.(L×W×H)	
CPH10-40F	-	240	0.9	8	450	9	5.5	0-5.5	G1½	8.9	290×280×220	1600
CPH12-50F	-	300	1.3	10	450	15	6	0-6	G2	12.8	330×325×225	1190
CPH25-40F	-	450	1.8	10	450	9	15	0-15	G1½	10.3	330×280×225	1360
CPH25-50F	-	410	1.87	12	450	18	8	0~8	DN50(G2")	19	310×195×350	1188
CPH40-50F	-	900	2.95	25	450	21	17	0~17	DN50(G2")	26.5	315×235×430	810
CPH110-50F	-	1500	7.02	35	450	24	20	0~20	DN50(G2")	28	315×235×430	810
-	CPHS150-40F	2100	3.4	/	/	30	25	0~25	DN40(G1.5")	37.5	500×350×280	528
-	CPHS220-40F	2900	4.8	/	/	36	30	0~30	DN40(G1.5")	40	500×350×280	528



Application Limits

- Liquid temperature: +2℃～ +100℃
- Maximum ambient temperature +40℃
- Maximum system pressure 10bar
- Protection level: IP44
- Mains connection: 220V/50Hz
- Insulation class: H
- Pumped liquid characteristics: clean, free from solids and mineral oils, non-toxic, chemically neutral, close to the characteristics of water
- Installation: the motor shaft must be kept in horizontal direction
- pH: 6.5 to 8.5

Certificate

CE

CPHB

Model Instruction

CPH B 12 - 50 F

- F: Flange
- Inlet And Outlet Diameter(mm)
- Rated Power1/10(W)
- Shield Motor
- Hot Water Circulation Type

Applications Fields

For hot water circulation system such as HVAC systems, solar hot water circulation system, boiler heating system, pressurization of domestic tap water, industry water circulation system, etc.

Features

- Flange connection
- Low noise
- No leakage

Performance Range

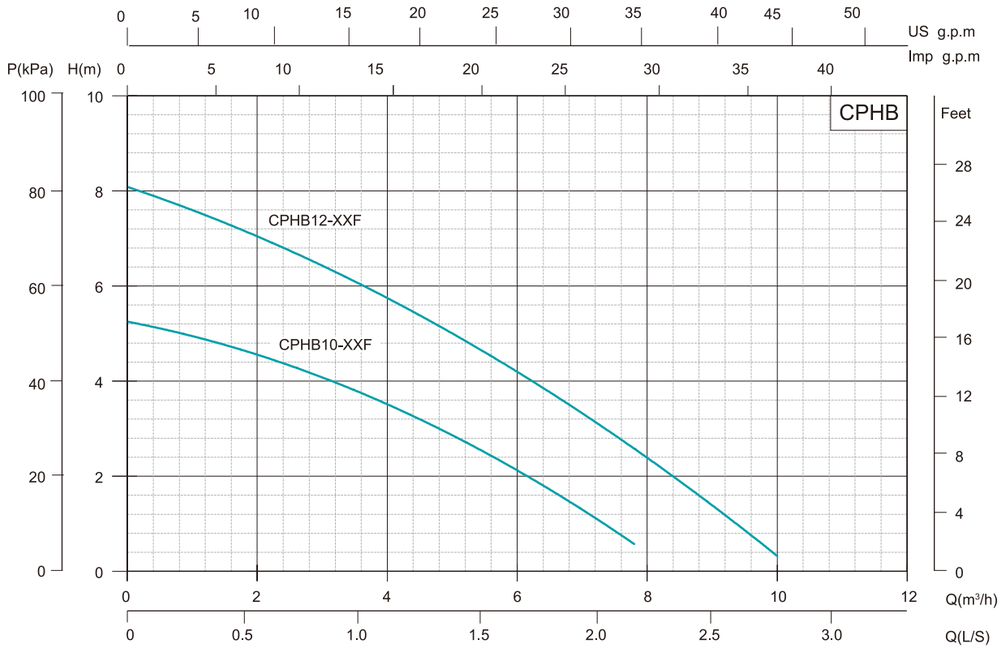
Max. Flow: 10m^3/h
Max. Head: 8m

Optional Available on Request

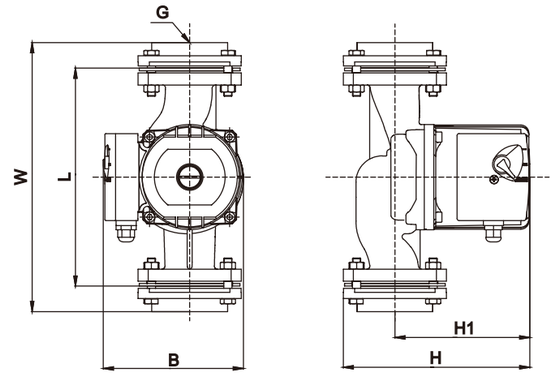
(* Standard configuration on Page 33)

- Products can be customized according to customer's voltage and frequency
- Brass pump body, enamel pump body, stainless steel pump body

Performance Curve



Dimensions & Technical Data



Model	Dim.(mm)					N.W.(kg)
	H	H1	L	B	W	
CPHB10-40F	185	135	215	140	265	7.2
CPHB10-50F						
CPHB12-40F						7.7
CPHB12-50F						

Model	Input power P_1(W)	Current (A)	Capacitor		Max. flow (m^3/h)	Max. head (m)	Whole lift (m)	G (mm)	Inter Box		Outer Box			20" Loading Qty (pcs)
			μF	Vc					G.W. (kg)	Dim (L×W×H)	PCS/CTN	Dim (L×W×H)	G.W. (kg)	
CPHB10-40F	160	0.75	4	450	6	5	0~5	40(1½")	/	/	/	276x152x200	7.5	3080
CPHB10-50F	160	0.75	4	450	8	5	0~5	50(2")						
CPHB12-40F	260	1.21	6	450	7	8	0~8	40(1½")					8	
CPHB12-50F	260	1.21	6	450	10	8	0~8	50(2")