

Intelligent variable frequency DC mute  
Fully automatic booster pump



## Whole house water pressurization

Small and medium-sized units only require one pump for full house pressurization

INTELLIGENT  
TECHNOLOGY

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Single control type



Multi-control type

### Product Features

This pump adopts a permanent magnet variable frequency motor and intelligent chip drive control, which is energy-saving and efficient, saving 40% -70% electricity compared to conventional water pumps.

Adopting Hall sensing principle, automatic start and stop can be achieved with small flow rates, high sensitivity, no frequent starts, no faults

Long service life (currently the most advanced control switch). Multi - control pressure switch control pump installed on the first floor .can start automatically when using water.

Multi mode automatic control for start and stop, When the sensor senses that the water pressure is close to zero, it can automatically start pressure maintaining standby, and the power during pressure maintaining is only.

About 8W, when the sensor senses normal water pressure, it can automatically stop standby and maintain pressure.

Automatic delayed standby and pressure maintaining. If the faucet is temporarily turned off during the water use process, this pump can automatically enter delayed standby after 2 seconds

Pressure maintaining mode, with a pressure maintaining power of only about 8W and a delay time of 5 minutes, if the faucet is not turned on after 5 minutes, it can automatically exit the delay mode

The standby pressure maintaining mode and automatic shutdown function can effectively solve the problem of low water pressure and inability to start automatically when using water.

The adapter power supply is designed with a wide voltage range, suitable for both 110V-240V an universal for all household power sources worldwide. The working voltage is DC36V.

Very safe.

The power cord is connected to the water pump using an aviation plug, which has stronger waterproof and tensile properties and is more upscale.

Beautiful and generous appearance, fully sealed design, with a protection level of IP67 or above.

Shielding structure, silent design, no leakage, no vibration, high flow rate, and high head.

Multiple protections: water shortage protection, locked rotor protection, anti frequent startup iprotection ,and voltage anomaly protection.

Using alloy materials that never rust, making water more hygienic.

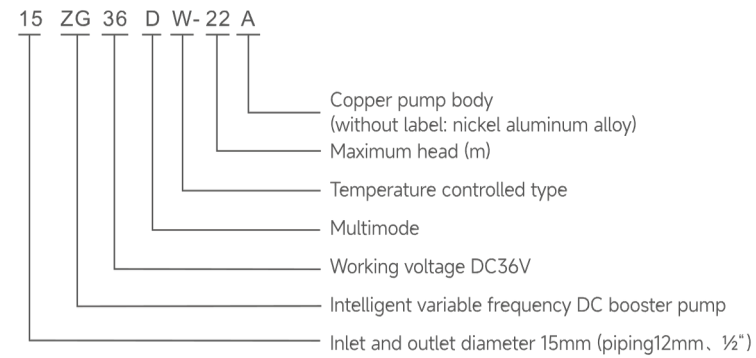
### Application Occasions

- |                         |                                 |                        |
|-------------------------|---------------------------------|------------------------|
| • Gas water heater      | • Intelligent toilet            | • Shampoo room         |
| • Electric water heater | • Water dispenser               | • Bathing center       |
| • Air energy            | • Washing machine               | • Tap water pipeline   |
| • Shower nozzle         | • Solar energy                  | • Livestock ranch      |
| • Shower                | • Gas wall mounted furnace      | • Small hotels         |
| • Wash basin            | • Electric wall mounted furnace | • Industrial equipment |

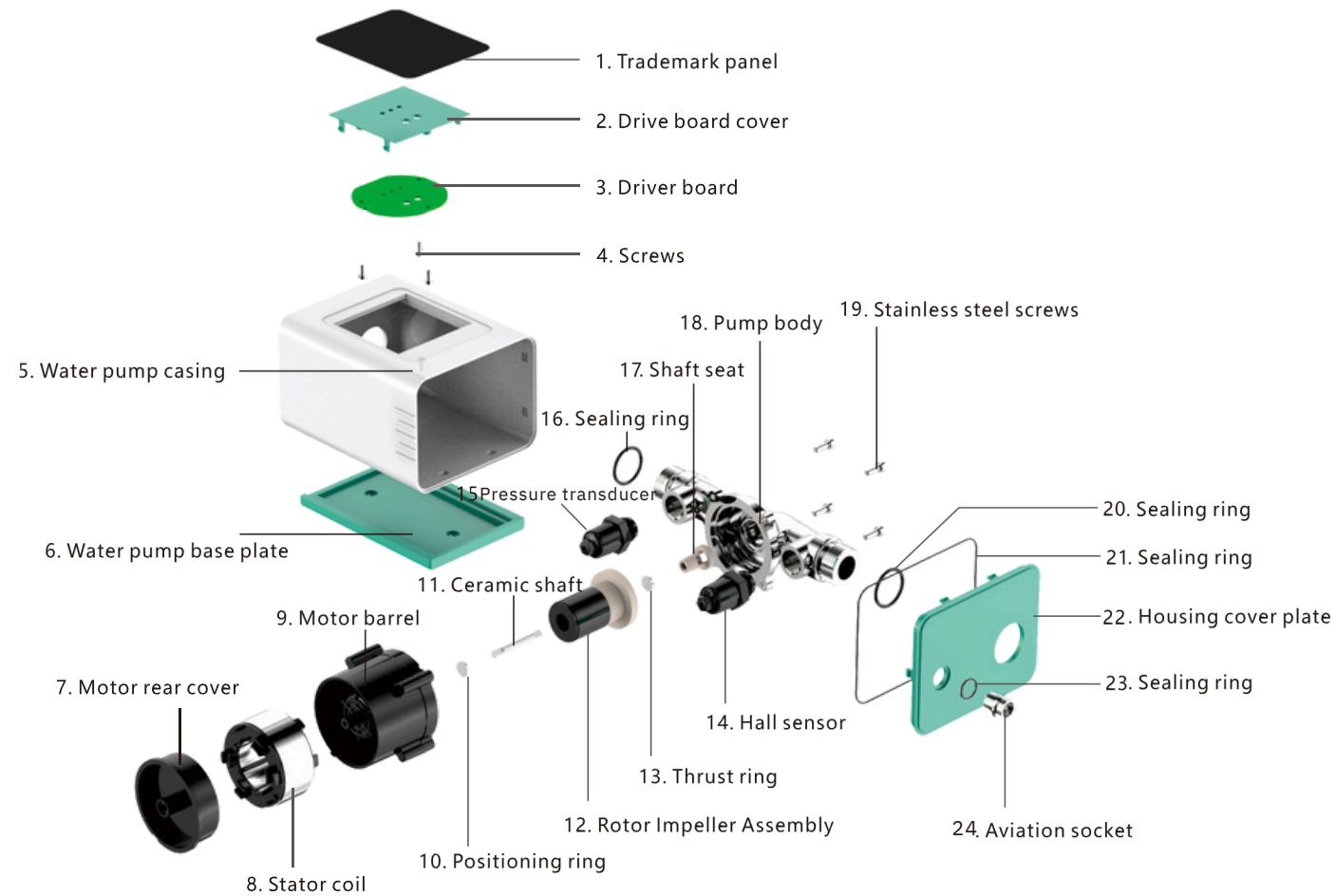
### Usage Conditions:

- Adapter power input voltage: AC110-240V/50-60Hz
- Motor input voltage: DC36V
- Automatic start condition: water output of faucet or nozzle  $\geq$  1L/min
- Maximum system pressure:  $\leq$  6bar
- Medium temperature: 2-95 °C
- Environmental temperature:  $\leq$  50 °C
- Media conditions: clean, free of solid matter, fiber free, non viscous, Non mineral oil based, approximately medium non corrosive, non explosive and flammable liquid.

### Model Description



### 3D structure diagram

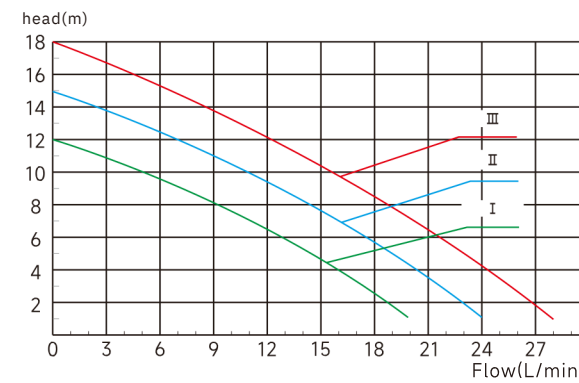


### Technical parameters and performance curve,

Using voltage: 110V-240V/50Hz-60Hz

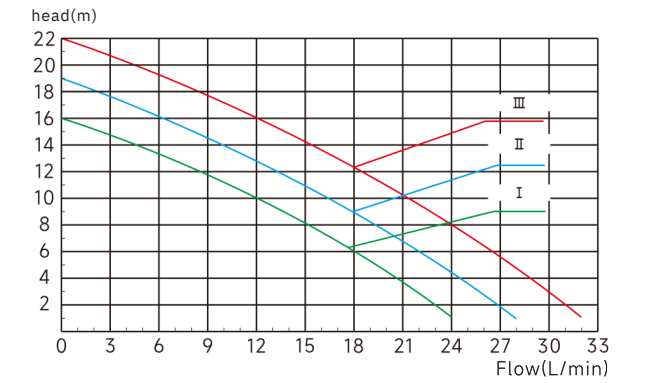
Working voltage: DC 36V

**15ZG36-18** Loose joint 15mm(3/4")change12mm(1/2"), Piping 12mm(1/2")



Gear position	Power(W)	Maximum head(m)	Maximum flow(L/min)
III	75	18	28
II	55	15	24
I	35	12	20

**15ZG36-22** Loose joint 15mm(3/4")change12mm(1/2"), Piping 12mm(1/2")



Gear position	Power(W)	Maximum head(m)	Maximum flow(L/min)
III	88	22	32
II	68	19	28
I	48	16	24

### Packaging and Outline Dimensional Drawing



Single control type

### Packing information

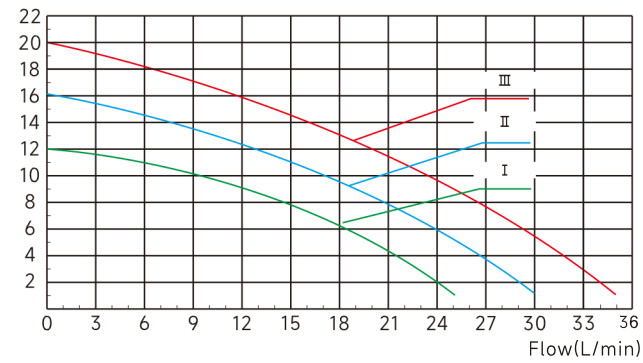
Model	Carton size(mm)	Number of units(tower)	Weight(pcs)
15ZG36-18	365x355x310	8	13.5
15ZG36-22	365x355x310	8	14

## Technical parameters and performance curve:

Using voltage: 110V-240V/50Hz-60Hz

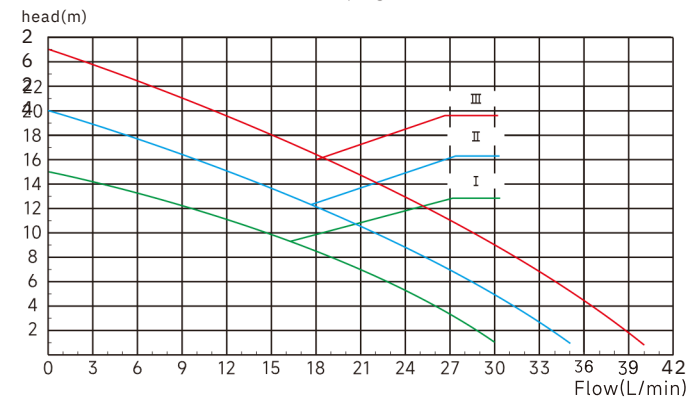
Working voltage: DC 36V

**15ZG36-20** Loose joint 15mm(3/4")change12mm(1/2"),  
Piping 12mm(1/2")



Gear position	Power(W)	Maximum head(m)	Maximum flow(L/min)
III	90	20	3
II	75	16	5
I	50	12	35
			0

**15ZG36-25** Loose joint 15mm(3/4")change12mm(1/2"),  
Piping 12mm(1/2")



Gear position	Power(W)	Maximum head(m)	Maximum flow(L/min)
III	100	25	40
II	85	20	35
I	60	15	30

## Packing information

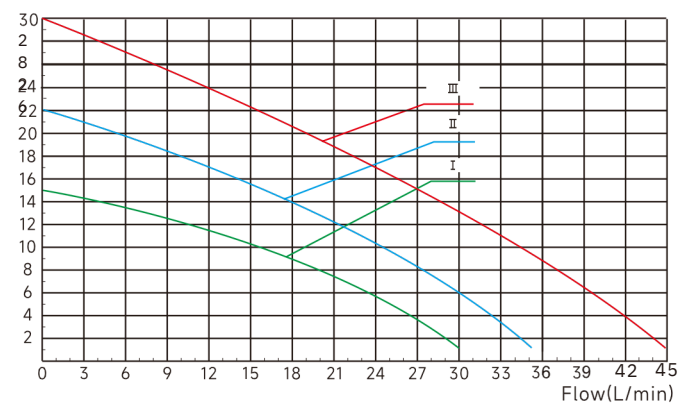
Model	Carton size(mm)	Number of units(tower)	Weight(pcs)
15ZG36-20	425x360x350	8	1
20	425x360x350	8	7
15ZG36-25	425x360x350	8	11
25			9
15ZG36-30			
30			

## Packaging and Outline Dimensional Drawing



Multi-control type

**15ZG36-30** Loose joint 15mm(3/4")change12mm(1/2"),  
Piping 12mm(1/2")



Gear position	Power(W)	Maximum head(m)	Maximum flow(L/min)
III	130	30	45
II	95	22	35
I	60	15	30

Multi-control  
2-second standby

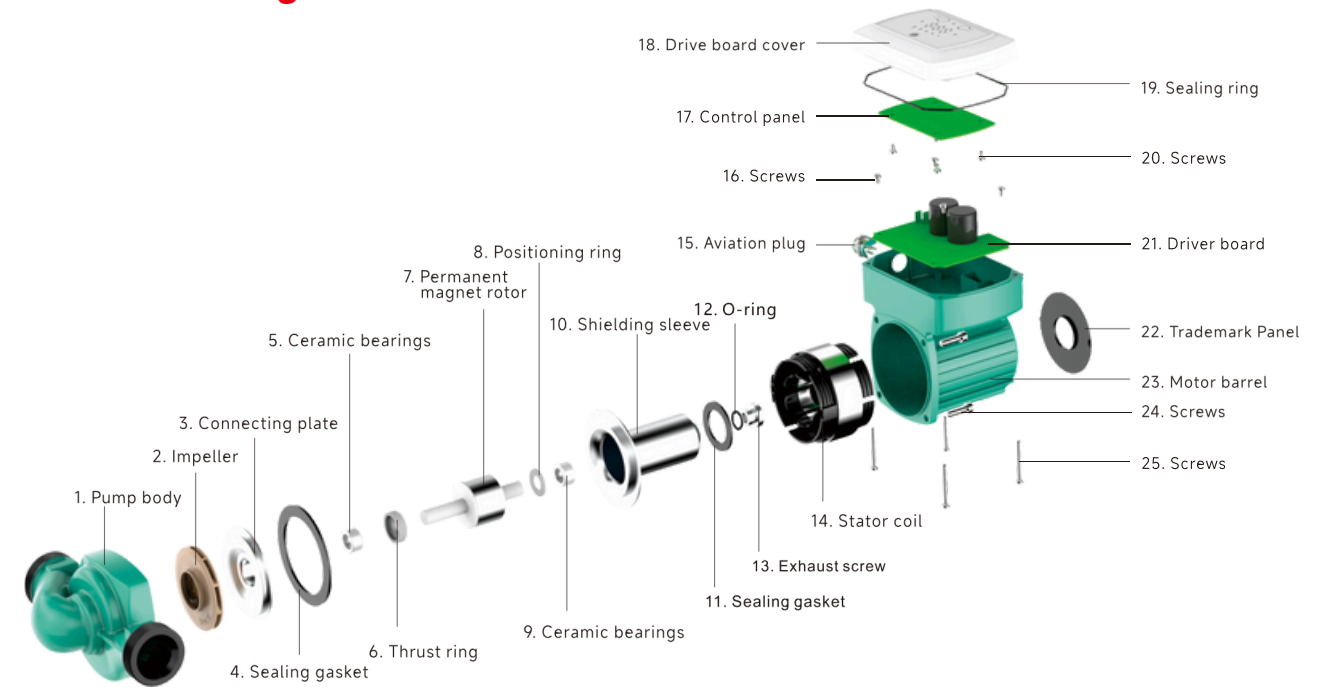


Pressure control multilayer pressurization

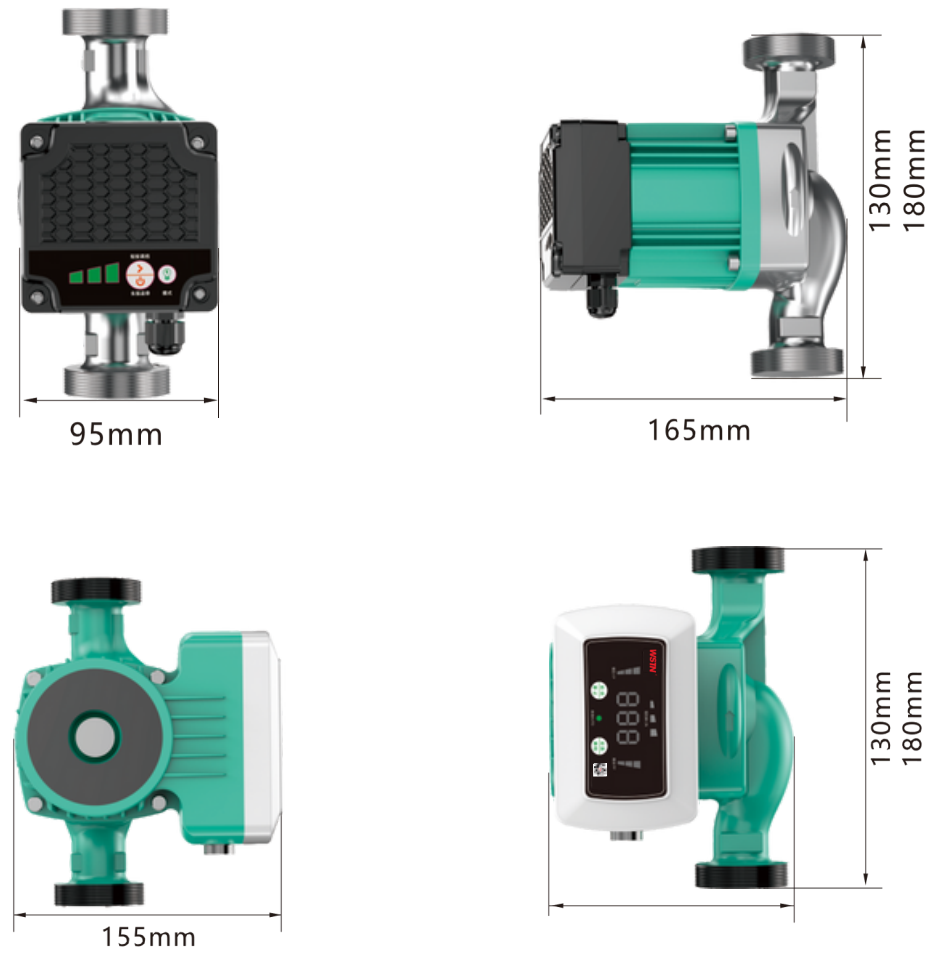
**Intelligent variable frequency circulating booster pump**



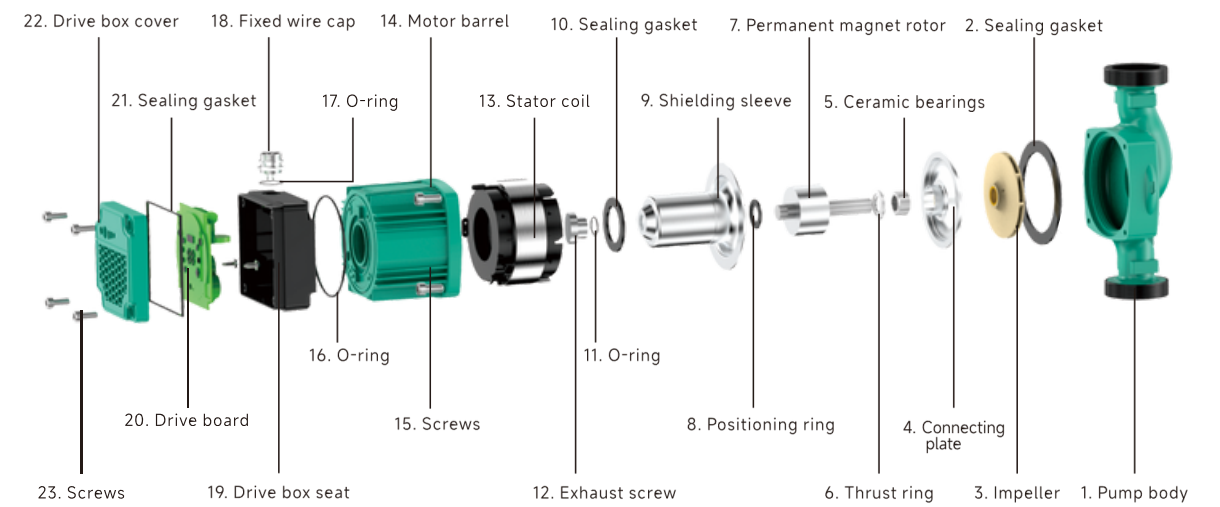
**3D structure diagram**



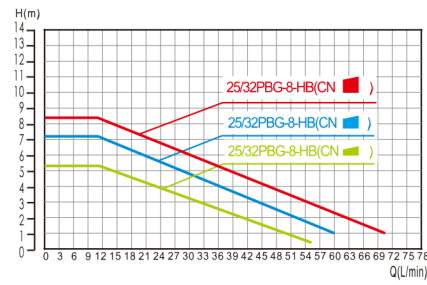
**Outline dimension drawing:**



**3D structure diagram**

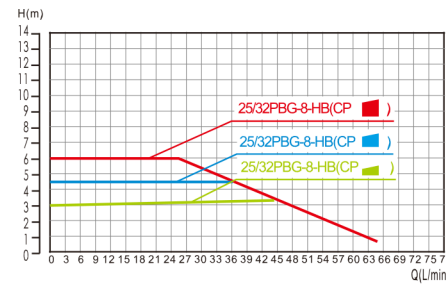


## 25/32PBG-8-HB Technical parameters and performance curve:



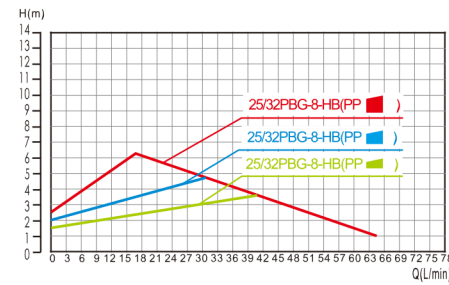
Constant power CN mode

Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	80	8	70
	55	6.5	60
	35	5	55



Constant pressure CP mode

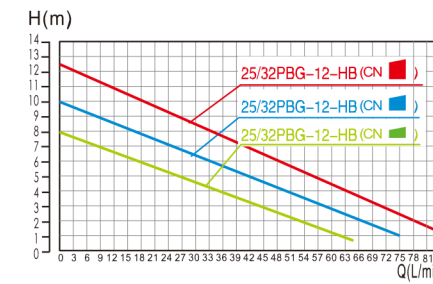
Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	40-65	6	65
	25-65	4.5	65
	15-60	3	65



Proportional high-efficiency energy-saving (PP) mode

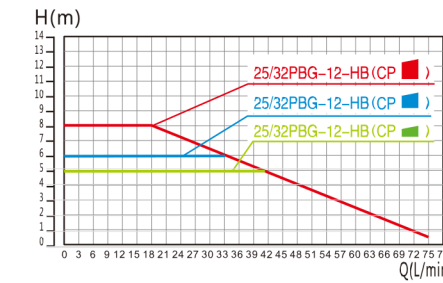
Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	15-65	3-6	65
	10-60	2-4.5	65
	8-50	1.5-3	65

## 25/32PBG-12-HB Technical parameters and performance curve:



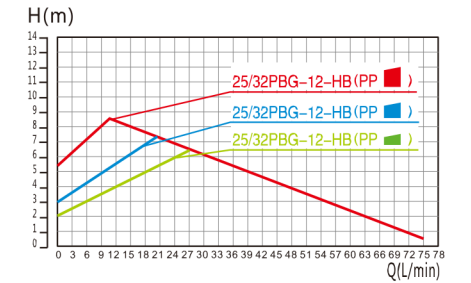
Constant power CN mode

Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	120	12	85
	90	10	75
	60	8	65



Constant pressure CP mode

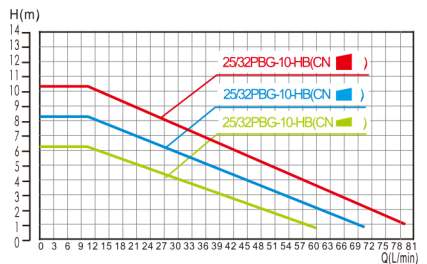
Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	65-90	8	75
	50-90	6	75
	25-85	5	75



Proportional high-efficiency energy-saving (PP) mode

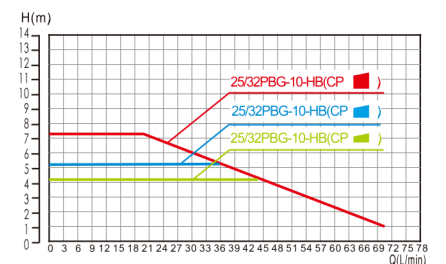
Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	30-90	5-9	75
	20-85	3-7	75
	15-75	2-6	75

## 25/32PBG-10-HB Technical parameters and performance curve:



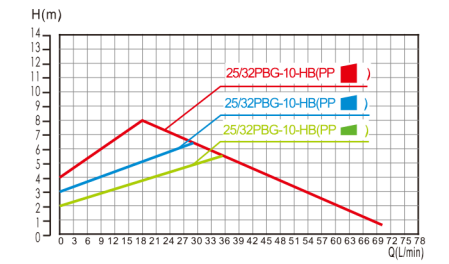
Constant power CN mode

Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	100	10	80
	75	8	70
	55	6	60



Constant pressure CP mode

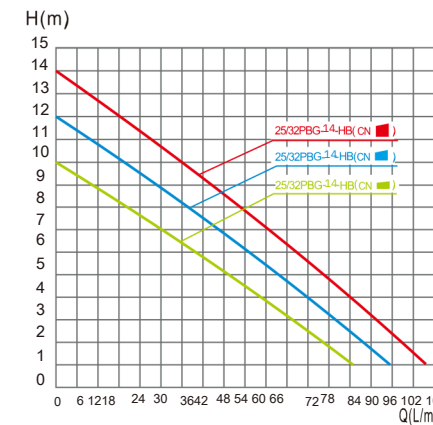
Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	55-80	7	70
	40-80	5.5	70
	20-75	4	70



Proportional high-efficiency energy-saving (PP) mode

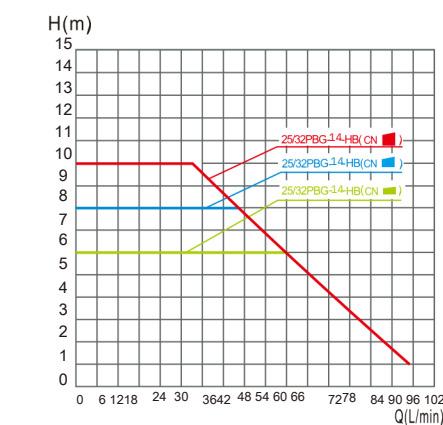
Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	25-80	4-8	70
	15-75	3-6	70
	10-65	2-5	70

## 25/32PBG-14-HB Technical parameters and performance curve:



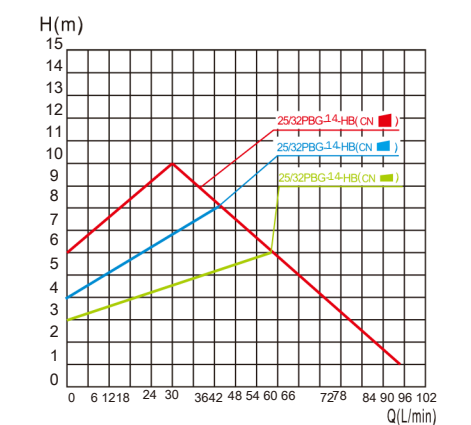
Constant power CN mode

Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	150	14	105
	120	12	95
	90	10	85



Constant pressure CP mode

Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	90-120	10	95
	75-120	8	95
	40-110	6	95



Proportional high-efficiency energy-saving (PP) mode

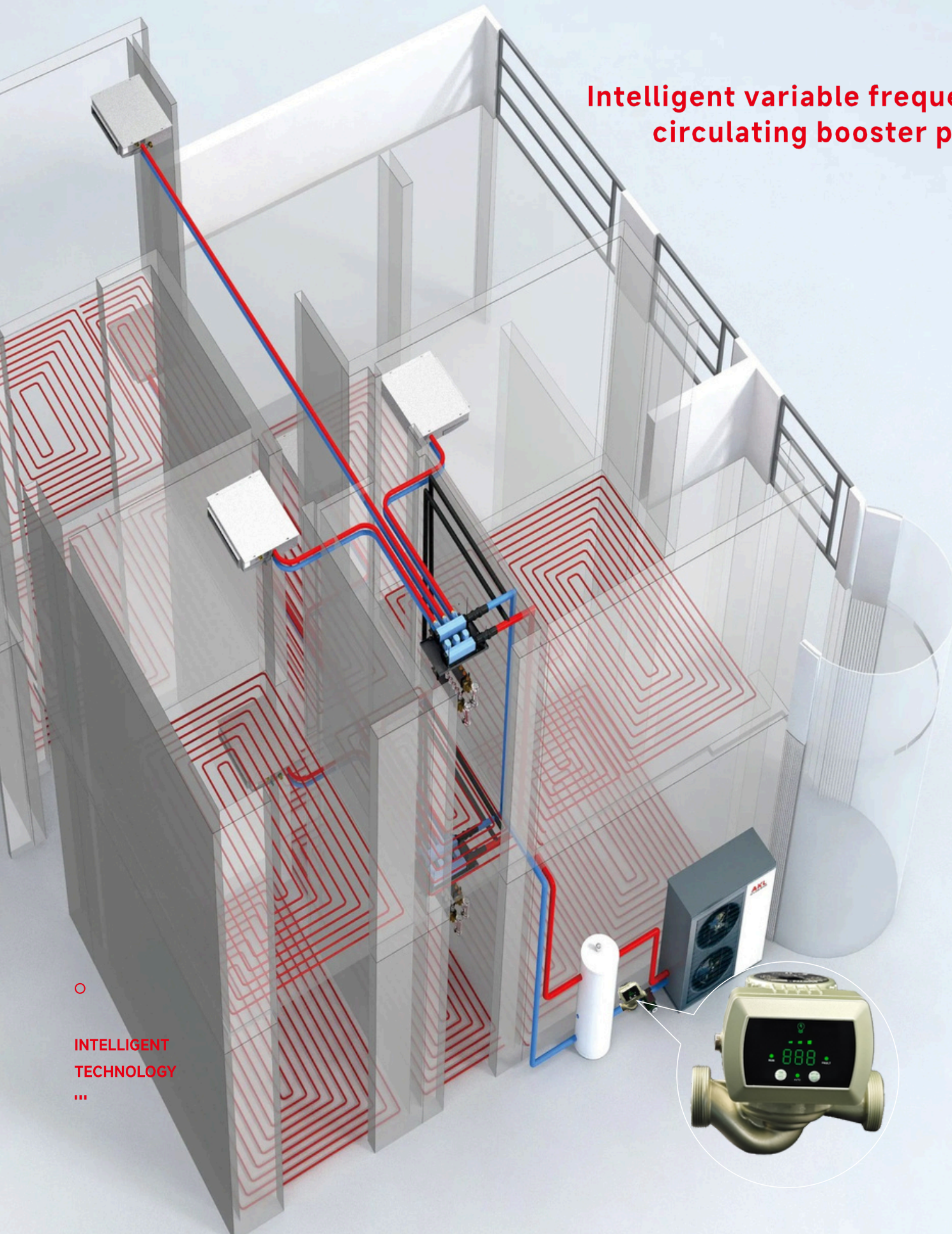
Gear	power (W)	Max.Head (m)	Max.Flow (L/min)
	40-120	10	95
	30-110	8	95
	20-95	6	95

- The various types of water pumps mentioned above can be freely selected for different combinations of pump body materials, pump body diameters, pump body lengths, machine barrels, and pump bodies. All specific performance parameters are subject to the test report, and the external dimensions and packing weight are subject to the actual situation.

- Single mode model reference constant power mode parameter reference

- The pump body has a length of 130mm/180mm
- The pump body materials include cast iron, stainless steel, and brass
- Pipe diameter: 15 (1/2"), 20 (3/4"), 25 (1"), 32 (1 1/4")

## Intelligent variable frequency circulating booster pump



INTELLIGENT TECHNOLOGY

### Product Features

- This pump adopts a permanent magnet variable frequency motor and intelligent chip drive control, which is energy-saving and efficient, saving 40% -70% electricity compared to conventional water pumps.
- PWM Communication Data Interface
- Adopting a shielded motor to prevent internal leakage, some motors are filled with glue to prevent condensation water generated inside the motor due to changes in ambient temperature and burning the motor.
- Adopting high-strength ceramic shafts and bearings, the motor is designed with internal circulation, resulting in longer service life and lower noise.
- Wide voltage design, when the voltage is between 160-260V, the water pump can operate normally and its performance remains basically unchanged.
- Adopting multi mode control or single mode control according to actual application scenarios has powerful functions.
- Multi mode:  
Constant power mode | Constant voltage mode | Efficient energy-saving mode | Adaptive mode | Night mode
- Multiple protection:  
Water shortage protection | Locked rotor protection | Voltage anomaly protection | Overload protection

### Application Occasions

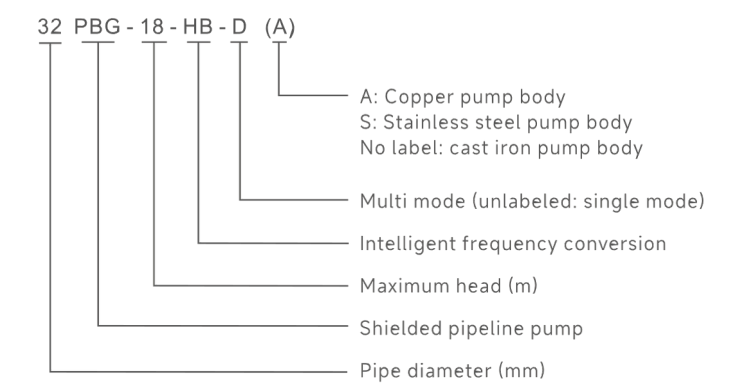
The energy-saving circulating pump is specifically designed for water circulation in underfloor heating and heating systems. The energy-saving circulating pump can be installed in:

- Gas wall mounted furnace
- Electric wall mounted furnace
- Solar energy
- Air energy
- underfloor heating system
- Energy saving furnace
- Central air withering
- Hotels and Resorts
- Single pipeline system
- Dual pipeline system
- Shampoo room, sauna center
- Industrial equipment

### Usage Conditions:

- Medium temperature: 2-110 °C,
- Environmental temperature ≤ 50 °C,
- Maximum system pressure ≤ 10 bar,
- Input voltage: 160-260V
- Media conditions: clean, free of solid matter, fiber free Non viscous, mineral oil free, approximately neutral, non corrosive Non flammable and explosive liquids, such as those used to transport acidic and alkaline liquids, You should first consult the manufacturer to choose the appropriate material.

### Model Description



Comparison table of piping caliber:

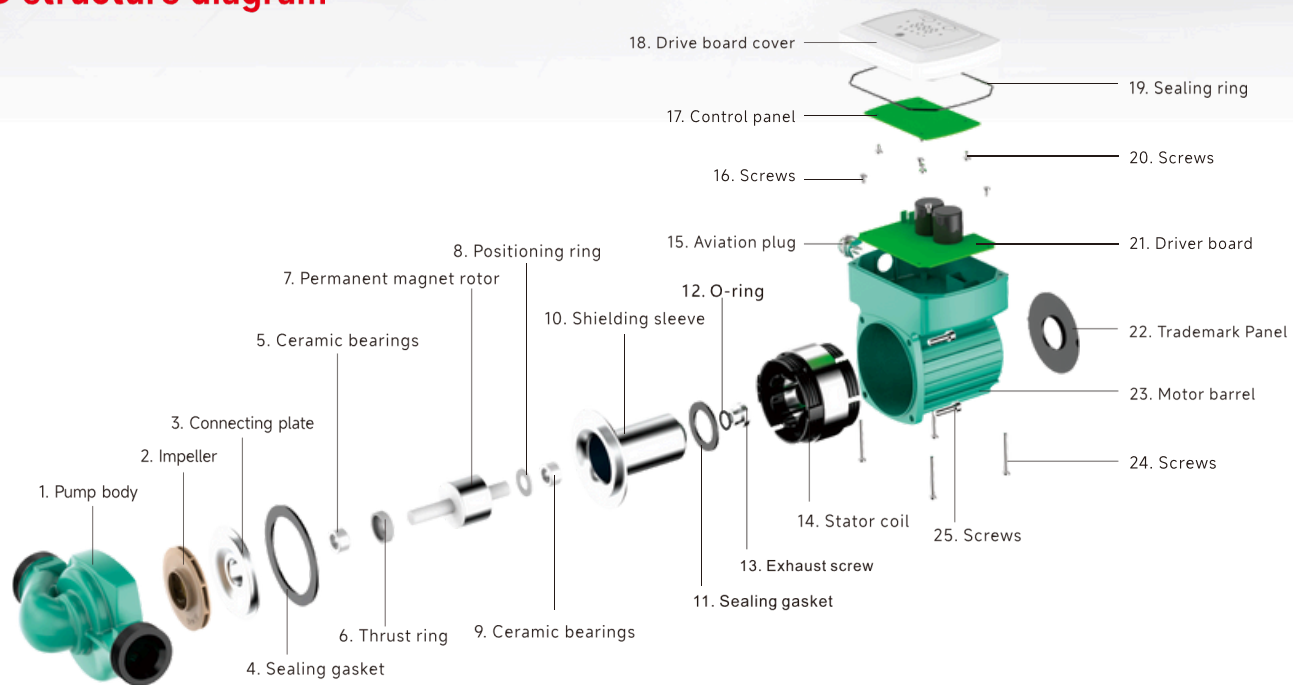
Pump body diameter (mm)	15	25	40	50
Pipe diameter (mm/In)	12, 1/2"	20, 3/4"	25, 1"	32, 1 1/4"

# Intelligent variable frequency circulating booster pump

Special purpose for air energy from coal to electricity



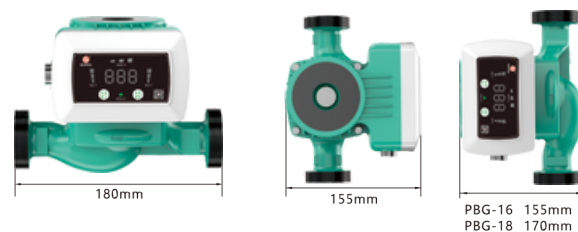
## 3D structure diagram



## Packing information

model	Car.size (mm)	Number (tower)	weight (pcs)
25PBG-16	475x425x200	4	15.5
32PBG-16	475x425x200	4	17.5
25PBG-18	475x460x200	4	17
32PBG-18	475x460x200	4	19
25PBG-24	475x460x200	4	18
32PBG-24	475x460x200	4	20

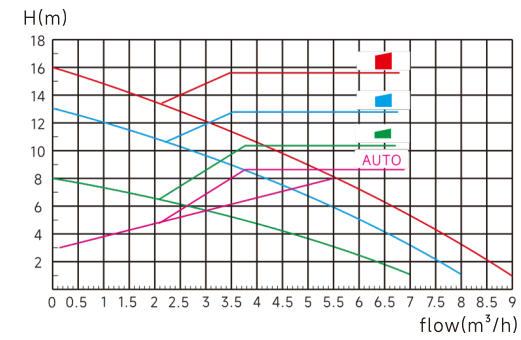
## Overall dimensions



Pump bodies have selections of CAST IRON and BRASS for all models

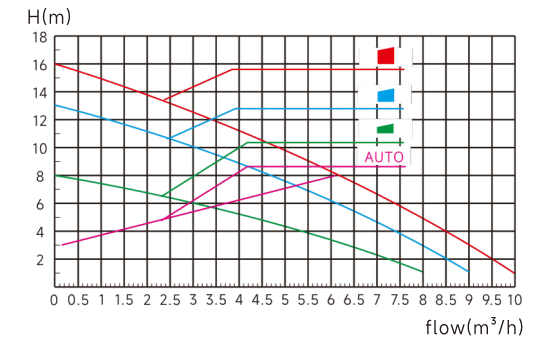
## Technical parameters and performance curve:

### 25PBG-16



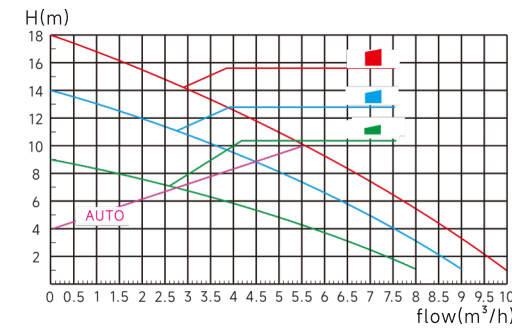
Gear	power(W)	Max.Head(m)	Max.Flow(m³/h)
High Gear	180	16	9
Medium Gear	140	13	8
Low Gear	90	8	7
automatic AUTO	35-180	3-8	9

### 32PBG-16



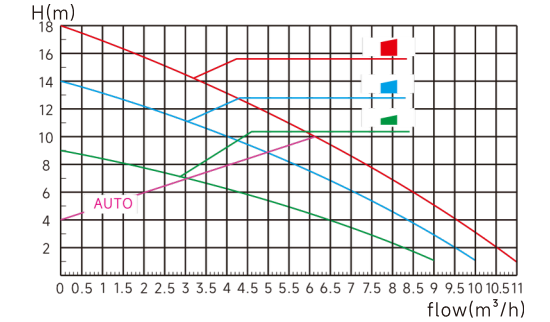
Gear	power(W)	Max.Head(m)	Max.Flow(m³/h)
High Gear	180	16	10
Medium Gear	140	13	9
Low Gear	90	8	8
automatic AUTO	35-180	3-8	10

### 25PBG-18



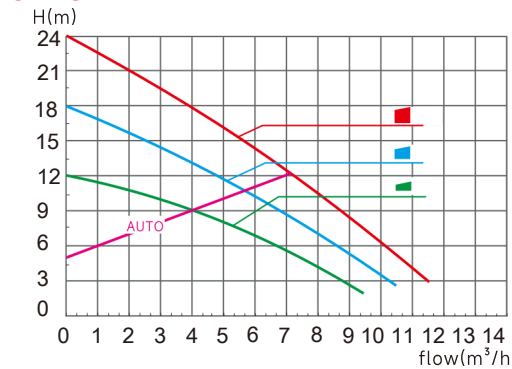
Gear	power(W)	Max.Head(m)	Max.Flow(m³/h)
High Gear	280	18	10
Medium Gear	200	14	9
Low Gear	130	9	8
automatic AUTO	40-260	4-10	10

### 32PBG-18



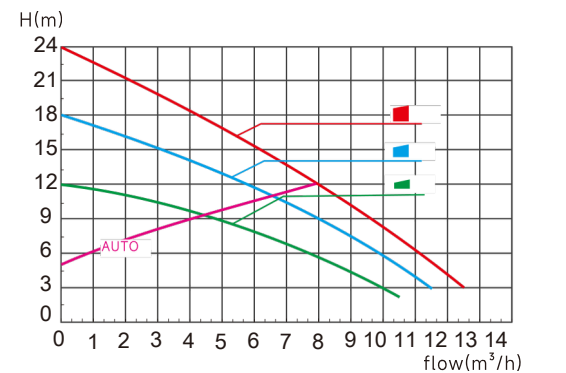
Gear	power(W)	Max.Head(m)	Max.Flow(m³/h)
High Gear	280	18	11
Medium Gear	200	14	10
Low Gear	130	9	9
automatic AUTO	40-260	4-10	11

### 25PBG-24




Gear	power(W)	Max.Head(m)	Max.Flow(m³/h)
High Gear	370	24	11.5
Medium Gear	280	18	10.5
Low Gear	180	12	9.5
automatic AUTO	50-370	5-12	11.5

### 32PBG-24



Gear	power(W)	Max.Head(m)	Max.Flow(m³/h)
High Gear	370	24	12.5
Medium Gear	280	18	11.5
Low Gear	180	12	10.5
automatic AUTO	50-370	5-12	12.5

## INTELLIGENT FREQUENCY CONVERSION Household booster pump

-  Overload Protection
-  anti-sticking
-  Wide voltage usage
-  3rd Gear speed regulation
-  Safe Mute.
-  Water shortage protection






**2** 2ND  
Generation  
INNOVATION AND UPGRADING

ration




### DC15-20

Power(V-A): DC24V-4.0A

Gear position	Power(W)	head(m)	flow(L/min)
 1st Gear	5	12	2
 2nd Gear	0	16	5
 3rd Gear	7	20	3
	5	0	
	9	3	
	0	5	

### DC15-25

Power(V-A): DC36V-5.0A

Gear position	Power(W)	head(m)	flow(L/min)
 1st Gear	60	1	3
 2nd Gear	85	5	0
 3rd Gear	10	2	3
	0	0	5
		2	4
		5	0

### DC15-30

Power(V-A): DC36V-4.0A

Gear position	Power(W)	head(m)	flow(L/min)
 1st Gear	60	1	3
 2nd Gear	95	5	0
 3rd Gear	130	2	3
		2	5
		3	4
		0	5

**2** 2ND  
Generation  
INNOVATION AND UPGRADING



# 24V DC INVERTER

New Technology of Variable Frequency  
Permanent Magnet Variable Frequency



Whole house  
pressurization



Electric water  
heater pressurization



Upper and lower  
pressurization  
of water tower



Gas water heater  
Pressurization



Solar Booster







Air can be  
Pressurized



## 24V DC VARIABLE FREQUENCY Household booster pump




# 24V DC VARIABLE FREQUENCY Household booster pump

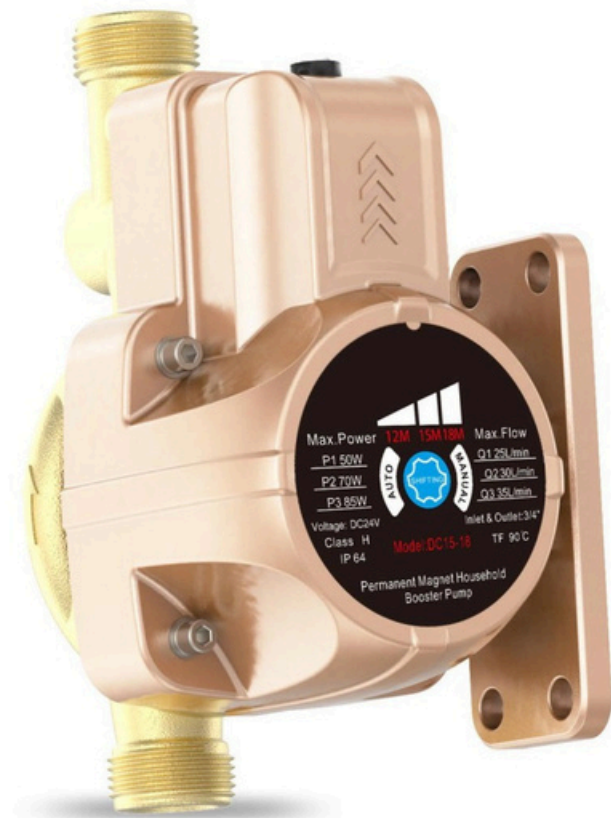
-   
Water shortage Protection
-   
Automatic start and stop
-   
Intelligent standby
-   
Mute low noise
-   
Super Power



## DC15-48



Power(V-A):DC24V-3.5A

Gear position	Power(W)	head(m)	flow(L/min)
 1st Gear	5	12	25
 2nd Gear	0	1	3
 3rd Gear	7	5	0
	0	1	3
	8	8	5
	5		



## DC15-16




Power(V-A):DC24V-3A

Gear position	Power(W)	head(m)	flow(L/min)
 1st Gear	4	12	2
 2nd Gear	0	16	5
	6		3
	0		0



## DC15-25




Power(V-A):DC24V-5.0A

Gear position	Power(W)	head(m)	flow(L/min)
 1st Gear	60	1	30
 2nd Gear	85	5	3
 3rd Gear	100	2	5
		0	4
		2	0
		5	








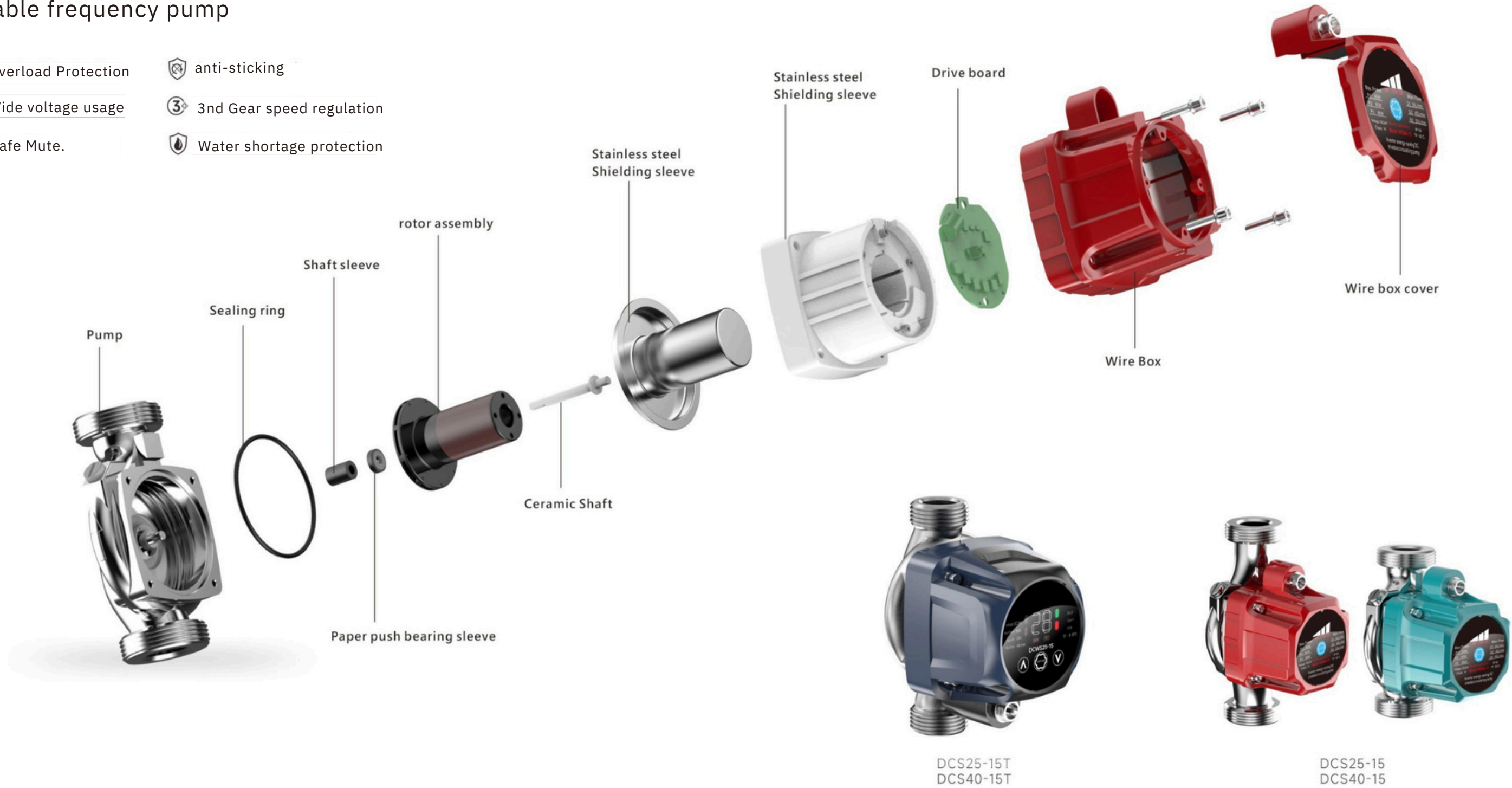
## DC20-25

Power(V-A):DC24V-5.0A

Gear position	Power(W)	head(m)	flow(L/min)
 1st Gear	6	1	3
 2nd Gear	0	5	5
 3rd Gear	100	2	4
	5	0	0
		2	4
		5	5

# 24V PERMANENT MAGNET Variable frequency pump

-  Overload Protection
-  anti-sticking
-  Wide voltage usage
-  3rd Gear speed regulation
-  Safe Mute.
-  Water shortage protection






## PRODUCT INTRODUCTION

The design of this series of water pumps is compact, lightweight, and silent. It includes multiple features such as leak free static sealing, wide range operating voltage, stable performance, long service life, food grade materials, and high temperature resistance. DC permanent magnet water pump has the advantages of large flow rate, high efficiency, low noise, and small volume




## SCOPE OF APPLICATION

- Home heating
- Air circulation
- Equipment coolant circulation

## DDCCSS2255--1155 power(V-A): DC24V-3.8A

Gear position	Power(W)	head(m)	flow(L/min)
 1nd Gear	4	9	35
 2nd Gear	0	12	40
 3rd Gear	6	15	45
	0		
	8		

## DCS40-15 power(V-A): DC24V-3.8A

Gear position	Power(W)	head(m)	flow(L/min)
 1nd Gear	4	9	35
 2nd Gear	0	12	40
 3rd Gear	6	15	55
	0		
	8		