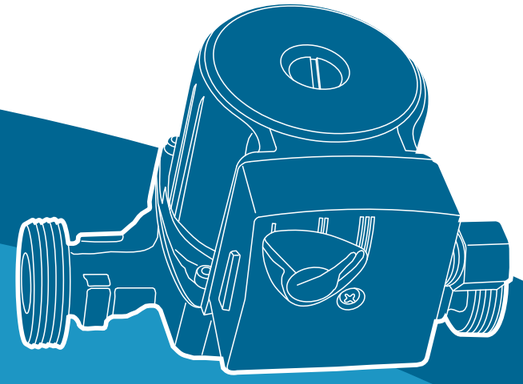
CIRCULATING PUMP

UPB Series



www.witapump.com

Made in Germany

Made in Germany

CIRCULATING PUMP
UPB Series

Applications

UPB series circulator pump researched and developed by scientific research personnel of our company has following merits:low noice,no leakage,environmental protection,elegant appearance,easy installation,reliable operation and so on,Can be used for single and double-heating systems and large-scale mixed-loop system.It also can be used to supply water and add pressure for mansions of city,villa of suburb,house,to match with industrial equipment,to supply water in cycle for cooling air-condition,boiler and solar energy,supply hot water and keep warm in cycle,etc.

Running Conditions

1. Power Source:Voltage 110~230V,frequency 50~60Hz
2. The greatest pressure of the system: No more than 1.0MPa.
3. To avoid NHP damage to the pump bearing,pumps should be maintained the minimum pressure below:

Liquid Temperature	85℃	90℃	100℃
Entrance Pressure	0.5m Head	3m Head	10m Head
	0.05 bar	0.28 bar	1 bar

4. Transmission Fluid: Lean,clean,non-corrosive and non-explosive liquids,and without any solid particles,fibers or mineral oil,Pump absolutely must not be used to transport flammable liquids such as diesel and petrol.
5. The pumps should work under air temperature of environment rang of 0 ℃～40 ℃,water temperature range of 2℃~ 100℃, except the automatic pump(UPB·A Model)

Product Selection

Users can choose models of pump according to the chart.
The pumps have thread connection and flange connection.If customers have special request,we can design for you.
The pump body is usually cast iron,copper and stainless steel.
The customer can choose material of pump body among cast iron,copper and stainless steel.When the pump is used to take clean water in normail temperature,you can choose cast iron,when it is uesd in cycle of living hot water,you can choose copper or stainless steel.

Installation

1. The main parts of the pump are:pump body,impeller,stator, rotor,shielding sets,gas screws and so on.
2. Sealing:The pump does not use mechanical seal,stator and rotor are sealed with stainless steel shield.Overall structure is shielded with two heat-resistant rubber gasket sealed to avoid leakage.
3. Lubrication and Coolling: The pump used in inline cycle,the bearing is lubricanted and cooled by water.
4. Motor is class H insulation and equipped with thermal protection.



The lowest liquid temperature.....2℃
The highest liquid temperature.....110℃
The lowest environment temperature.....0℃
The hingest environment temperature.....40℃

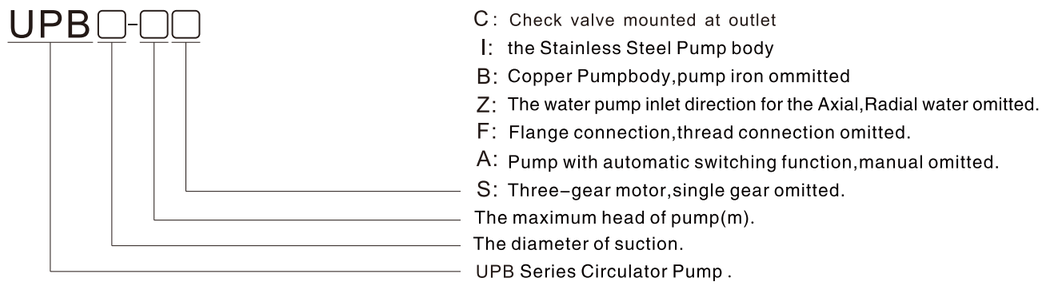


Attention

Pump installation must ensure the motor shaft in horizontal

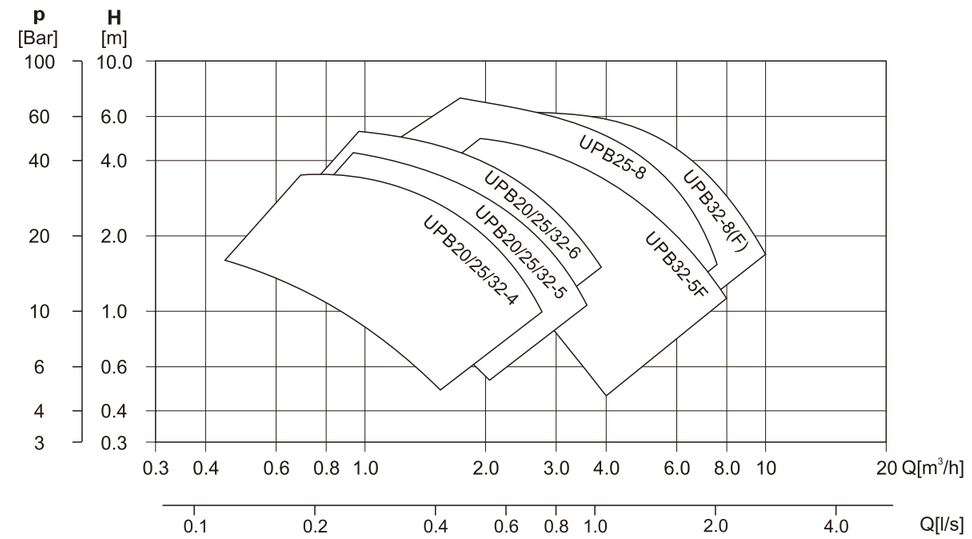
Demonstration of the model

The models of pump is indicated with the capital letter and Arabic number,its significance is as follow:



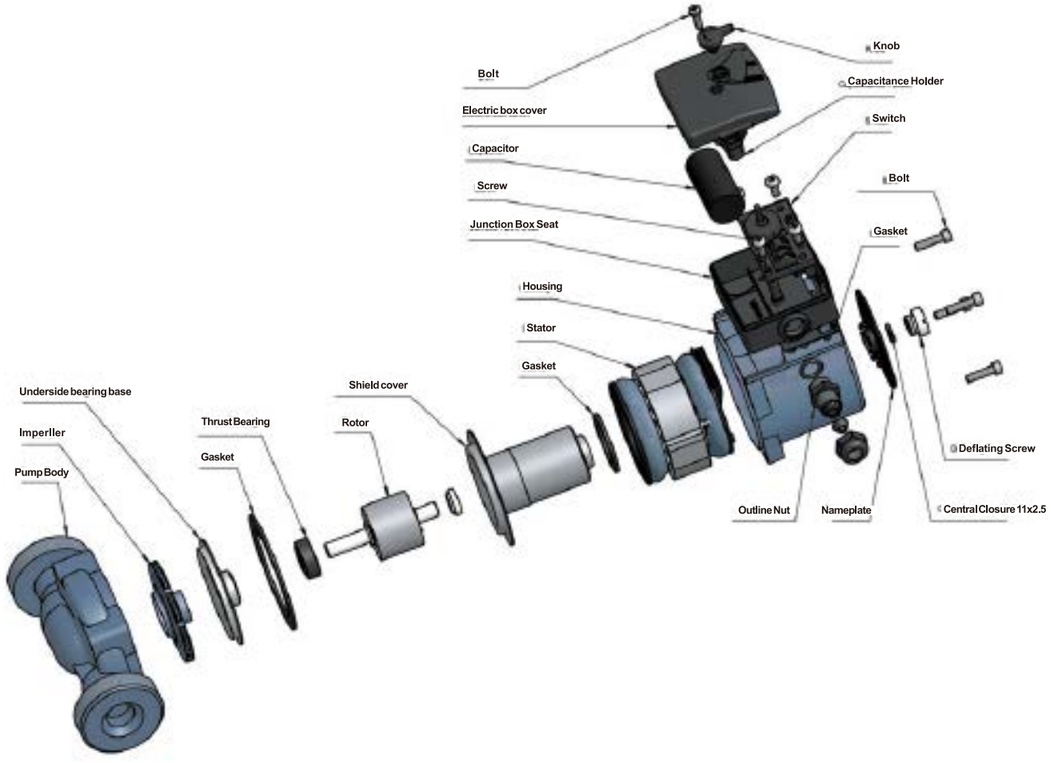
Model examples:UPB32–8SF means the pump is three–gear,the max head is 8 meters,it adopts the flange connection and the diameter of the suction is 32mm,the material of the pump body is cast iron.

UPB series three–gear circulator pump



CIRCULATING PUMP
UPB Series

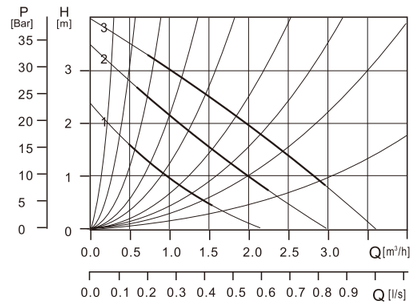
Structural Diagram:

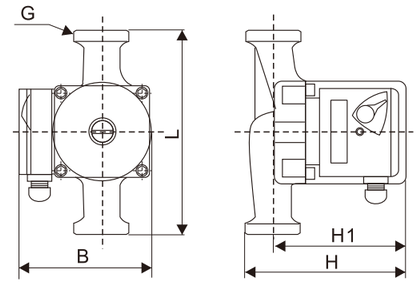


The main components material table

No.	Parts	Material
1	Pump Body	Stainless Steel HI200/Stainless Steel 1Cr18Ni9Ti
2	Impeller	Engineering Plastics
3	Shaft	Ceramic/Stainless Steel 1Cr18Ni9Ti
4	shaft block	Stainless Steel 1Cr18Ni9Ti
5	thrust bearing	Impregnated Graphite /Carborundum
6	Bearing	Ceramic/Baptist antimony graphite
7	Housing	Stainless Steel 1Cr18Ni9Ti







- System pressure:the max system pressure is 10bar
- Brass and Bronze pump body are alternative for 20/25 model
- Stainless steel pump body is alternative for 20 model

Gear	P1 (W)	In (A)
3	65	0.28
2	50	0.22
1	32	0.15

Parameter of performance:

Model	Size (mm)					Weight (kg)		Dimension (m^3)
	H	H1	L	G	B	N.W.	G.W.	
UPB20-4S	130	105	130	1" to 3/4"	130	2.7	2.9	0.004
UPB25-4S	130	105	130/180	1 1/2" to 1"	130	2.7	2.9	0.004
UPB32-4S	130	105	180	2" to 1 1/4"	130	2.7	2.9	0.004

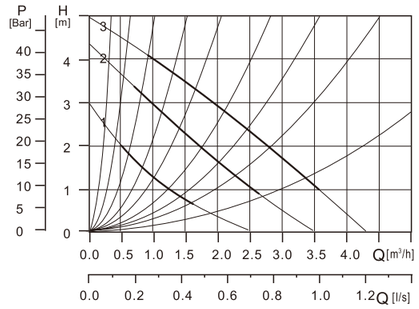
CIRCULATING PUMP
UPB Series

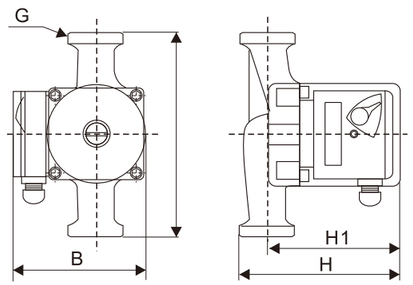










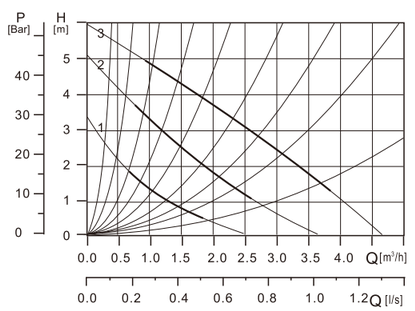


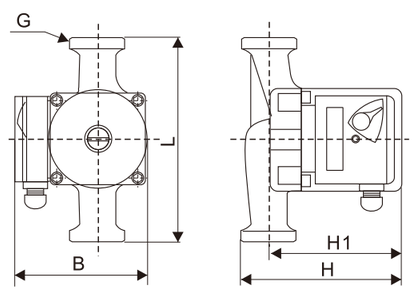
- System pressure:the max system pressure is 10bar
  Brass and Bronze pump body are alternative for 20/25 model
  Stainless steel pump body is alternative for 20 model

Gear	P1 (W)	In (A)
3	85	0.4
2	60	0.3
1	40	0.22

Parameter of performance:

Model	Size (mm)					Weight (kg)		Dimension (m^3)
	H	H1	L	G	B	N.W.	G.W.	
UPB20-5S	130	105	130	1″ to 3/4″	130	2.7	2.9	0.004
UPB25-5S	130	105	130/180	1 1/2″ to 1″	130	2.7	2.9	0.004
UPB32-5S	130	105	180	2″ to 1 1/4″	130	2.7	2.9	0.004





- System pressure:the max system pressure is 10bar
  Brass and Bronze pump body are alternative for 20/25 model
  Stainless steel pump body is alternative for 20 model

Gear	P1 (W)	In (A)
3	100	0.45
2	70	0.35
1	55	0.25

Parameter of performance:

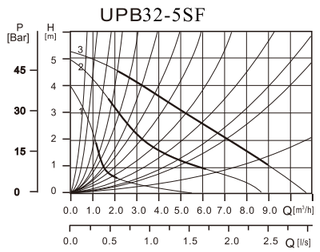
Model	Size (mm)					Weight (kg)		Dimension (m^3)
	H	H1	L	G	B	N.W.	G.W.	
UPB 20-6S	130	105	130	1″ to 3/4″	130	2.7	2.9	0.004
UPB 25-6S	130	105	130/180	1 1/2″ to 1″	130	2.7	2.9	0.004
UPB 32-6S	130	105	180	2″ to 1 1/4″	130	2.7	2.9	0.004

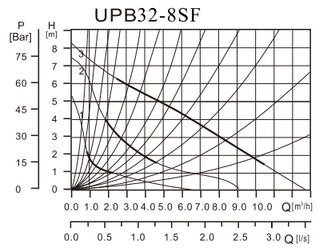
CIRCULATING PUMP
UPB Series

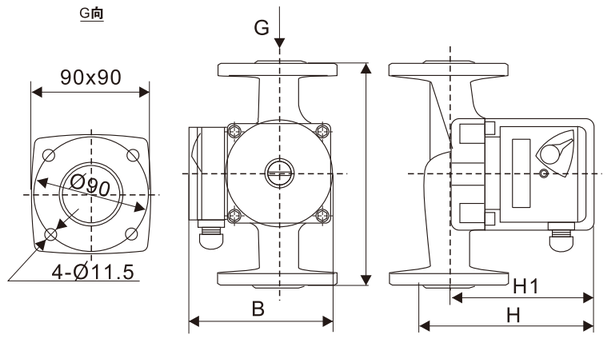












● System pressure:the max system pressure is 10bar

UPB32-5SF

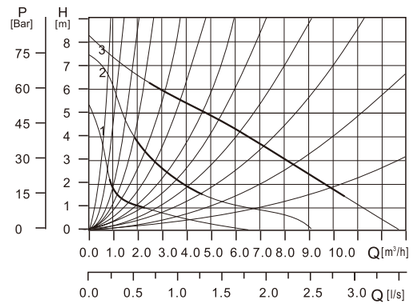
Gear	P1 (W)	In (A)
3	145	0.65
2	135	0.60
1	95	0.45

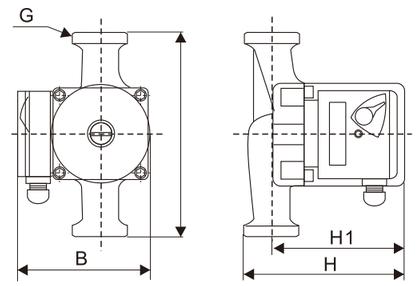
UPB32-8SF

Gear	P1 (W)	In (A)
3	245	1.1
2	190	0.85
1	135	0.60

Parameter of performance:

Model	Size (mm)					Weight (kg)		Dimension (m^3)	Alternative Model
	H	H1	L	G	B	N.W.	G.W.		
UPB32-5SF	185	130	200	DN32 to G2"	150	7.8	8.2	0.01	UPB40-5SF
UPB32-8SF	185	130	200	DN32 to G2"	150	8	8.4	0.01	UPB40-8SF





● System pressure:the max system pressure is 10bar
Brass and Bronze pump body are alternative for 20/25 model
Stainless steel pump body is alternative for 20 model

Gear	P1 (W)	In (A)
3	245	1.1
2	190	0.85
1	135	0.60

Parameter of performance:

Model	Size (mm)					Weight (kg)		Dimension (m^3)
	H	H1	L	G	B	N.W.	G.W.	
UPB25-8S	160	130	180	1 1/2" to 1"	150	4.2	4.5	0.008
UPB32-8S	160	130	180	2" to 1 1/4" or 1 1/2"	150	4.2	4.5	0.008

CIRCULATING PUMP

UPB Series

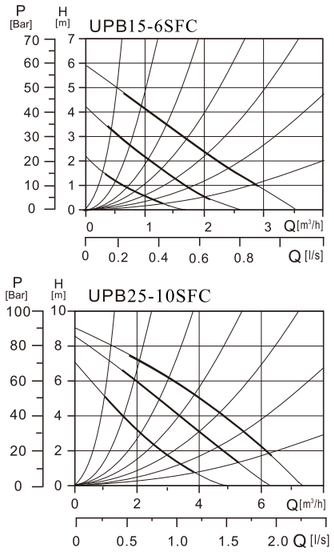
115V、60Hz:

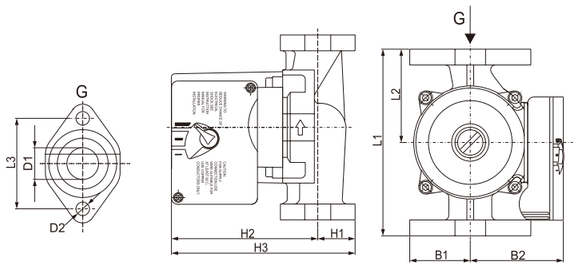


UPB15-6SFC



UPB25-10SFC





Parameter of performance:

Model	Input Power (W)	Rated Current (A)	Maximum Head (m)	Capacitance (μf)	Distribution with flange Hole in the thread
UPB15-6SFC	100/70/55	0.9/0.7/0.5	5.7	10	NPT1"
UPB25-10SFC	230/190/135	2.0/1.7/1.2	10	20	NPT1"

Model	Size (mm)										Weight(Kg)		Volume
	H1	H2	H3	L1	L2	L3	B1	B2	D1	D2	N.W.	G.W.	m^3
UPB15-6SFC	35	103	138	162	81	80	54	77	15	12	3	4.2	0.004
UPB25-10SFC	35	115	150	165	92	80	48	82	32	12	4.5	5.8	0.004

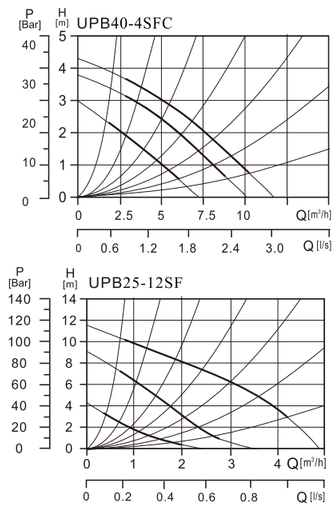
115V、60Hz:

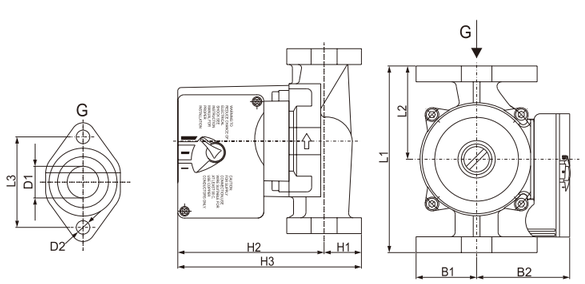


UPB40-4SFC



UPB25-12SF





Parameter of performance:

Model	Input Power (W)	Rated Current (A)	Maximum Head (m)	Capacitance (μf)	Distribution with flange Hole in the thread
UPB25-12SF	230/190/135	2.0/1.7/1.2	12	20	NPT1"
UPB40-4SFC	230/190/135	2.0/1.7/1.2	4	20	NPT1 1/2"

Model	Size (mm)										Weight(Kg)		Volume
	H1	H2	H3	L1	L2	L3	B1	B2	D1	D2	N.W.	G.W.	m^3
UPB25-12SF	35	120	155	165	82.5	80	53	82	27	12	5	6.3	0.004
UPB40-4SFC	40	130	170	215	107.5	87	60	82	40	12	6	7.6	0.01