

BACK TO NATURE!

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Bnko Environmental Technology (Shanghai) Co., Ltd.
本珂环保科技(上海)有限公司



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Add: A605, No. 33, Lane 3100, GuDai Road,
Minhang District, Shanghai, China
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PRODUCT MANUAL

**Water Treatment
System & Parts**

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About US

Lucky to meet you !

Bnko Environmental technology (shanghai) Co., Ltd., is one of the rapid rising exporting companies focus on Water Treatment and Fluid technology products. Motivated by Change the MADE IN CHINA To QUALITY IN CHINA, We are working as a window for the foreign clients who are looking for reliable water treatment products and water solution in China mainland. Through the more the decade of industrial experience accumulation .we are lucky to had our long term cooperation partner over 85 countries world widely . repeated order from B2B customers are more than 75%. our product range are covered Commercial & Industrial. Our main products are commercial and industrial RO & UF system, Chemical Dosing system, RO membrane, water pump, FRP membrane vessel, FRP tank, UV, dosing pump, various filter cartridges, bag filter, water softener, flow meter, pressure gauge, manual and automatic filling line.

BNKO, back to nature! Looking forward to establish the long term cooperation with you!

BACK TO NATURE!

Contents



1 8 10

RO Water Treatment System

1500GPD/3000GPD/6000GPD/12000GPD

Seawater Desalination System

1.5/3/5/10/20/30/50/60/100/200m³/Day

Water Softener

1/ 2 / 3.5 m³/Day



11 12 13

Commercial Use RO sytem

200/400/600/800/1200/1600GPD

Whole house Jumbo Housing Water Filtration

1 / 2 / 3 / 4 Stage
Filter Cartridge:10" / 20" Jumbo PP / GAC / CTO / UV

Ultrafiltration filter



15 16 17

Bag Filling Machine

SJ-1000 / SJ-2000

RO Membrane

Size:2540 / 2521 / 4040 / 8040

FRP Membrane Housing

Size:2521 / 2540 / 4040 / 8040
working pressure:300 / 450 / 600 / 800 / 1000 /1200 PSI



18 19 20

FRP Tank

Size:835/844/1054/1252/1354/1465/1665.....

Precision Filter

S.S precision filter / UPVC Filter Housing

OZONE

Ozone output (g/h):3g/5g/7g/10g/15g/20g
Voltage:220V 50HZ 110V 50-60HZ



21 22 25

UV Sterilizer

1/2/6/8/9/10/12/24/36/48/72/96/120/144GPM

Permanent Magnetic Variable Frequency Pump

APG / APX / APF

Parts

On-line instrument / control valve / Pressure Switch
Needle valve / Solenoid valve / Salt tank / Booster pump
Pressure gauge / Water distributor



26

Filter Cartridge

PP/UDF/CTO/PP Yarn/Pleated/Resin/Filter Bag

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Blue Mountain 12000GPD/2000LPH RO Water treatment system

Main parts for RO water treatment system

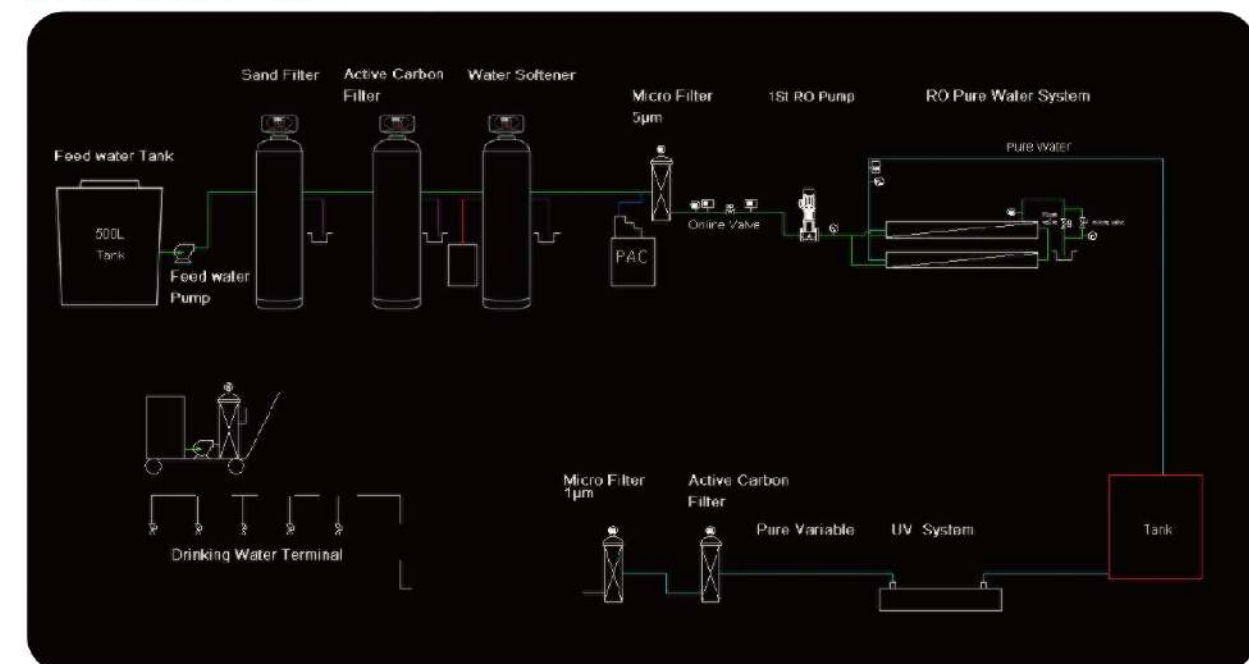
- « Booster pump- provide the pressure to pretreatment filters.
- Multi-medium filter- Reduce turbidity,Slit,suspended matter, organic matter, colloid, ect.
- Active Carbon filter-Remove the color, free chlorine, organic matter, odors, ect.
- Softener-exchange Ca+and Mg+ in raw water by Na+ through resin ion exchange resin .
- Security filter-prevent small particles, bacteria, viruses into RO membrane, accuracy is 5um.
- High pressure pump- Provide the high pressure to RO membrane.
- RO element- main part of the plant. The RO membrane's desalination rate can reach 99%.
- « UV sterilizer or ozone generator- kill bacteria.



Technical Parameters

Model Number	BK-RO-12000
Capacity	12000GPD/2000LPH @25°C
Frame Material	SUS
Membrane Brand	BNKO 8040 / Vontron 8040
Control Valve	RUNXIN
Pump Brand	SHIMGE/CNP/LX AC 380V 50Hz
Membrane Vessel	Stainless steel / FRP
Pipelines	UPVC/SUS
Working Pressure	150PSI (LP) / 225PSI (RW)
Inlet Water Pressure	0.2~0.4Mpa
Recovery Ratio	45%~75%
Rejection Ratio	97% minimum
Suitable Places	Restaurants,hotels,factories,schools

Flow chart for reference



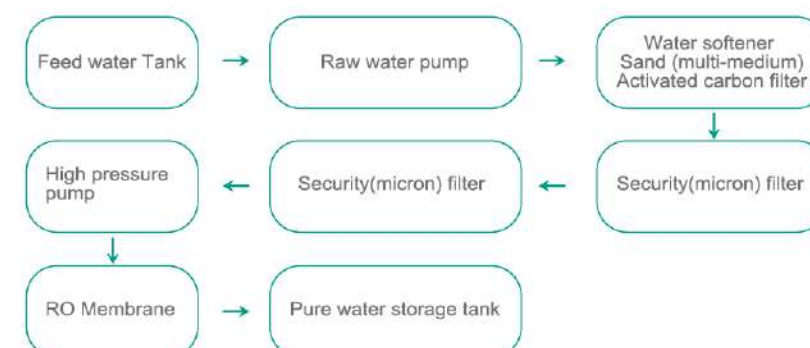
Sliver Plus 1500-6000GPD/250-1000LPH RO Water treatment system

Main parts for RO water treatment system

- « Booster pump- provide the pressure to quartz sand filter/active carbon filter.
- « Multi-medium filter- get rid of turbidity, suspended matter, organic matter, colloid, ect.
- « Active Carbon filter-Remove the color, free chloride, organic matter, harmful matter, ect.
- « Softener-exchange "ions" of calcium and magnesium with the most common and easiestmethod.
- « Security filter-prevent large particles, bacteria, viruses into RO membrane, accuracy is5um.
- « High pressure pump- Provide the high pressure to RO membrane.
- « RO system- main part of the plant. The RO membrane's desalting rate can reach 99%.removing over 99% ions.
- « UV sterilizer or ozone generator- kill bacteria.



Filtration Process



Technical Parameters

Model Number	BK-RO-1500~6000
Capacity	1500~6000GPD/250~1000LPH @25°C
Control	Intelligent controller(automatic valve)
Frame Material	SUS
Membrane Brand	BNKO 4040
Control Valve	RUNXIN
Pump Brand	SHIMGE/CNP/LX AC 220V 50Hz (380V 50/60Hz Optional)
Membrane Vessel	Stainless steel / FRP
Pipelines	UPVC/SUS
Touch screen	10inch
PLC	Siemens
Working Pressure	0.7~0.8Mpa
Inlet Water Pressure	0.2~0.4Mpa
Overall Dimension	1570*720*1800mm
Recovery Ratio	45%~75%
Rejection Ratio	97% minimum
Suitable Places	Restaurants,hotels,factories,schools



Perfect and compact outlook, easy installation maintenance.
Long service life and stable performance.

WATER ZONE

RO Water treatment system



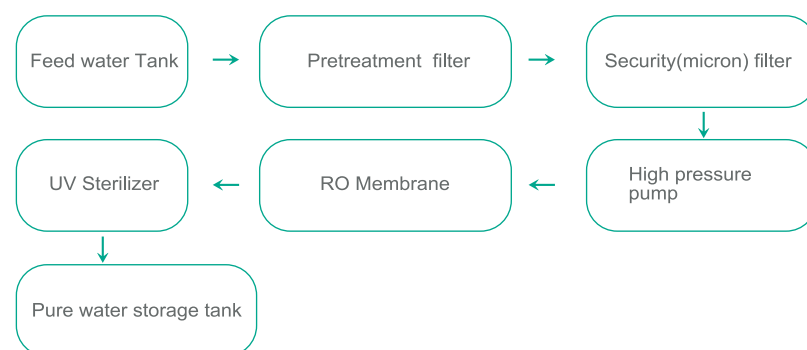


Water Guard 1500GPD/250LPH 3000GPD/500LPH RO Water treatment system

Main parts for RO water treatment system

- « Booster pump- provide the pressure to quartz sand filter/active carbon filter.
- « Multi-medium filter- get rid of turbidity, suspended matter, organic matter, colloid, ect.
- « Active Carbon filter-Remove the color, free chloride, organic matter, harmful matter, ect.
- « Softener-exchange "ions" of calcium and magnesium with the most common and easiestmethod.
- « Security filter-prevent large particles, bacteria, viruses into RO membrane, accuracy is5um.
- « High pressure pump- Provide the high pressure to RO membrane.
- « RO system- main part of the plant. The RO membrane's desalting rate can reach 99%.removing over 99% ions.
- « UV sterilizer or ozone generator- kill bacteria.

Filtration Process



Technical Parameters

Model Number	BK-RO-1500 / BK-RO-3000
Capacity	1500GPD/250LPH 3000GPD/500LPH @25°C
Control	Intelligent controller(automatic valve)
Frame Material	SUS
Membrane Brand	BNKO 4040
Pump Brand	SHIMGE/CNP/LX AC 220V 50Hz (380V 50/60Hz Optional)
Membrane Vessel	Stainless steel / FRP
Pipelines	UPVC/SUS
Touch screen	7inch
Working Pressure	0.7~0.8Mpa
Inlet Water Pressure	0.2~0.4Mpa
Overall Dimension	750*600*1630mm
Recovery Ratio	45%~75%
Rejection Ratio	97% minimum
Suitable Places	Restaurants,hotels,factories,schools

Perfect and compact outlook, easy installation maintenance.
Long service life and stable performance.

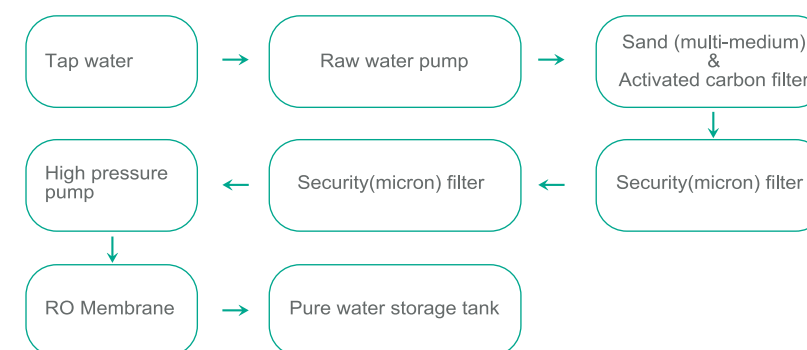


Eco Pure 1500GPD/250LPH 3000GPD/500LPH RO Water treatment system

Main parts for RO water treatment system

- « Booster pump- provide the pressure to quartz sand filter/active carbon filter.
- « Multi-medium filter- get rid of turbidity, suspended matter, organic matter, colloid, ect.
- « Active Carbon filter-Remove the color, free chloride, organic matter, harmful matter, ect.
- « Softener-exchange "ions" of calcium and magnesium with the most common and easiestmethod.
- « Security filter-prevent large particles, bacteria, viruses into RO membrane, accuracy is5um.
- « High pressure pump- Provide the high pressure to RO membrane.
- « RO system- main part of the plant. The RO membrane's desalting rate can reach 99%.removing over 99% ions.
- « UV sterilizer or ozone generator- kill bacteria.

Filtration Process



Technical Parameters

Model Number	BK-RO-1500 / BK-RO-3000
Capacity	1500GPD/3000GPD @25°C/150PSI
Frame Material	SUS/Coated galvanized plate
Membrane Brand	BNKO 4040
Control Valve	RUNXIN
Pump Brand	SHIMGE/CNP/LX AC 220V 50Hz (380V 50/60Hz Optional)
Membrane Vessel	Stainless steel
Pipelines	UPVC
FRP Tank	835
Sediment Filter	20*2pcs
Working Pressure	0.7~0.8Mpa
Inlet Water Pressure	0.2~0.4Mpa
Overall Dimension	650*500*1550mm
Recovery Ratio	45%~75%
Rejection Ratio	97% minimum
Suitable Places	Restaurants,hotels,factories,schools

Perfect and compact outlook, easy installation maintenance.
Long service life and stable performance.



Black

White

bnko

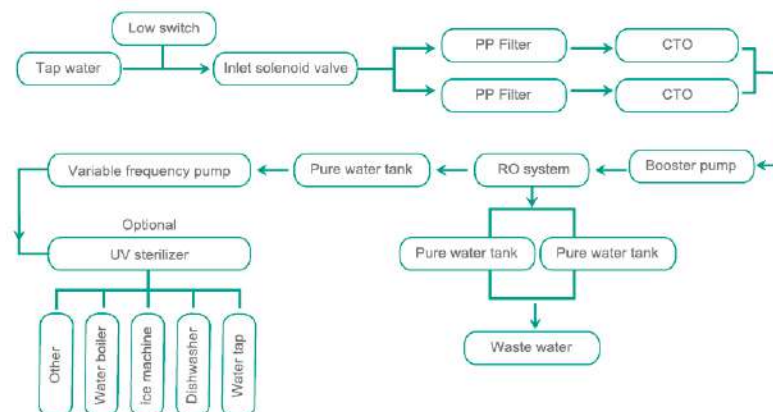


Water Shark 1500GPD/250LPH 3000GPD/500LPH RO Water treatment system

Function of each part of water treatment plant

- « Booster pump- provide the pressure to quartz sand filter/active carbon filter.
- « Multi-medium filter- get rid of turbidity, suspended matter, organic matter, colloid, ect.
- « Active Carbon filter-Remove the color, free chloride, organic matter, harmful matter, ect.
- « Softener-exchange "ions" of calcium and magnesium with the most common and easiest method.
- « Security filter-prevent large particles, bacteria, viruses into RO membrane, accuracy is 5um.
- « High pressure pump- Provide the high pressure to RO membrane.
- « RO system- main part of the plant. The RO membrane's desalting rate can reach 99%.removing over 99% ions.
- « UV sterilizer or ozone generator- kill bacteria.

Working Process



Technical Parameters

Applicable water quality:	TDS<500ppm	
Flow rate:	500L/H	300L/H
Power supply:	AC220V/50Hz	
Equipment power:	2.1KW	1.7KW
Water inlet pressure:	0.25-0.4Mpa	
Equipment inlet temperature:	5-40 °C	
Working pressure:	0.7-1.0Mpa	
Purified water tank:	Material:SUS304 Diameter:50cm High:1500cm(volume about 300L)	
Purified water supply pressure:	0.25-0.35Mpa	
Main machine Size	Material:Carbon steel plate & electrostatic spraying Size:72*110*175cm	

Equipment demand

- 1.Voltage :220V(one fire, one ground wire)
- 2.Wire diameter :2.5mm² copper wire
- 3.Machine power :1.7KW / 2.1KW
- 4.Machine size(L*W*H) :1100*720*1750mm
- 5.Reserve the leakage protection switch at a height of 1.6 meters on the right side of the machine.

Seawater Desalination System

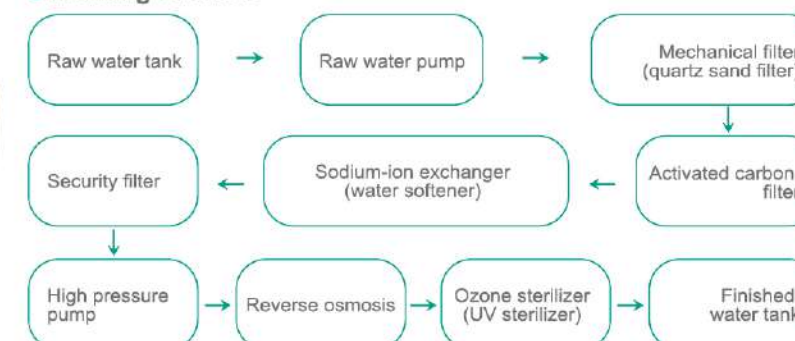


BK-SW03



BK-SW05

Working Process



BK-SW1.5



BK-SW10

Technical Parameters

MODEL	Capacity of water (m³/day)	Recovery rate (%)	Power (KW)	Working pressure (Mpa)	Working temperature (°C)	Feed water TDS (PPM)	Salt Rejection Rate (%)	Output water TDS (PPM)	Size (Length*Width*Height) (mm)
BK-SW1.5	1.5	12	1.5	35-55	5-45	<40000	99.2	<700	1100*580*520
BK-SW03	3	15	1.5	35-55	5-45	<40000	99.2	<700	500*570*1350
BK-SW05	5	15	2.2	35-55	5-45	<40000	99.2	<700	910*500*1540
BK-SW10	10	20	5.5	35-55	5-45	<40000	99.2	<700	1700*1120*1900
BK-SW20	20	25	5.5	35-55	5-45	<40000	99.2	<700	1700*1120*1900
BK-SW30	30	30	7.5	35-55	5-45	<40000	99.2	<700	2440*1000*2120
BK-SW50	50	35	18.6	35-55	5-45	<40000	99.2	<700	2300*1100*2310
BK-SW60	60	35	18.5	35-55	5-45	<40000	99.2	<700	2300*1100*1900
BK-SW100	100	35	60	35-55	5-45	<40000	99.2	<700	5000*2000*1900
BK-SW200	200	35	60	35-55	5-45	<40000	99.2	<700	5000*2000*1900



Seawater Desalination System

- « High-pressure pump of corrosion-resistant, ultra reliable, high-performance.
- « Small size, low weight, easy to operating, installation and maintenance.
- « Made in U.S (DOW) supreme quality Reverse Osmosis membranes for excellent desalination rate, durability and efficiency.
- « High-density 5-micron sediment filters to remove impurities from feed water during the pre-filtering process so as to extend the service life of Reverse Osmosis membranes.
- « Accurate real-time monitoring of the systems working pressures by top-graded meters specifically designed for maritime use. Real-time TDS water quality monitoring with digital display.
- « Water levels and over-pressure warning alarms with light and sound warning signals together with automatic shutdown protection to ensure the system is operating safely and properly.
- « System equipped with Food Safety Level UPVC pipelines and premium quality 316 stainless steel valves and interfaces.
- « With heavy duty corrosion-resistant steel and anti-corrosion coated framework, the system is able to operate durably and stably under harsh environments with high temperature, high humidity and high salinity conditions.

Seawater
Desalination System

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Water Softener

Integrated Water Softener

Model No.	BWS817	BWS835	BWS844
Flow rate	1CBM/Hour	1CBM/Hour	2CBM/Hour
Resin capacity	8L	18L	21L
Inlet/Outlet	¾"/1"	¾"/1"	¾"/1"
Product size	440x225x640mm	440x225x1110mm	440x225x1330mm
Packing size	520x235x740mm	520x235x1170mm	520x235x1390mm
Resin Tank	817	835	844
Working temperature	5~50 °C	5~50 °C	5~50 °C
Control Method	Auto-Control	Auto-Control	Auto-Control
Working pressure	0.14~0.35Mpa	0.14~0.35Mpa	0.14~0.35Mpa



2 CBM/H Water Softener

Model No.:BWS03
Flow rate:2CBM/Hour
Inlet/Outlet:¾"
Control Method:Auto-Control
Resin Tank:1054
Salt Tank:70L
Working Temperature:5~50℃



3.5 CBM/H Duplex Water Softener

Model No.:BWSD01
Flow rate:3.5CBM/Hour
Inlet/Outlet:1"
Control Method:Auto-Control (RUNXIN F73)
Resin Tank: 1665
Salt Tank:100L
Working Temperature:5~50℃

Commercial Use RO Water treatment system



BK-CRO-2200 2200GPD Standing RO

Suitable Power Supply: AC220V 50Hz
Power Rating: 240W
Inlet Pressure: 0.1MPa-0.4MPa
Suitable Water Temperature: 5-45°C
Suitable water Quality: Municipal water
Pure water flow: 300L/H
Machine Dimension (mm): 480 × 300 × 554
Packing Dimension (mm): 660 × 350 × 610

Stage 1, 5 Micron Sediment Filter (10" Jumbo).
Stage 2, Coconut shell activated carbon composite filter element (10" Jumbo).
Stage 3, Reverse Osmosis Membrane (3213 Membrane 2PCS).
Stage 4, Post Carbon Filter.



BK-CRO-A 400/600/800GPD Standing RO

Suitable Power Supply: AC220V 50Hz
Power Rating: 35-120W
Inlet Pressure: 0.1MPa-0.4MPa
Suitable Water Temperature: 5-45°C
Suitable water Quality: Municipal water
Capacity: 400-800GPD@25°C, 65Psi
Tank: 11G steel tank (Optional)
Machine Dimension (mm): 480 × 300 × 554
Packing Dimension (mm): 510 × 370 × 860/420 × 410 × 640 (11G Tank)

Stage 1, 5 Micron Sediment Filter 20 inch.
Stage 2, Activated Carbon Filter 20 inch.
Stage 3, CTO Filter 20 inch.
Stage 4, Reverse Osmosis Membrane.
Stage 5, Post Carbon Filter.



BK-CRO-C 1200/1600GPD Cabinet RO

Suitable Power Supply: AC220V 50Hz
Power Rating: 96W
Inlet Pressure: 0.1MPa-0.4MPa
Suitable Water Temperature: 5-45°C
Suitable water Quality: Municipal water
Capacity: 400-800GPD@25°C, 65Psi
Tank: 11G steel tank
Machine Dimension (mm): 540 × 570 × 1380

Stage 1, 5 Micron Sediment Filter 20 inch.
Stage 2, Activated Carbon Filter 20 inch.
Stage 3, CTO Filter 20 inch.
Stage 4, Reverse Osmosis Membrane.
Stage 5, Post Carbon Filter.



BK-CRO-B 400/600/800GPD Cabinet RO

Suitable Power Supply: AC220V 50Hz
Power Rating: 35-120W
Inlet Pressure: 0.1MPa-0.4MPa
Suitable Water Temperature: 5-45°C
Suitable water Quality: Municipal water
Capacity: 400-800GPD@25°C, 65Psi
Tank: 11G steel tank (Optional)
Machine Dimension (mm): 540 × 350 × 950
Packing Dimension (mm): 550 × 370 × 970/420 × 410 × 640 (11G Tank)

Stage 1, 5 Micron Sediment Filter 20 inch.
Stage 2, Activated Carbon Filter 20 inch.
Stage 3, CTO Filter 20 inch.
Stage 4, Reverse Osmosis Membrane.
Stage 5, Post Carbon Filter.



20inch Whole house 3/4 Stage Jumbo Housing Water Filtration

- « Ideal for a wide range of applications
- « Inlet / Outlet: 1 1/2" / 1"
- « Frame Material: Baked enamel / Stainless steel
- « Connector: Copper thread / plastic
- « Filter cartridges and pressure gauge are optional
- « With plastic housing wrench
- « Machine size (L × W × H): 580 × 215 × 760mm
- « Packaging size (L × W × H): 600 × 235 × 785mm



Stage 1 5 Micron Sediment Filter 4.5*20 inch

Sediment filter can efficiently eliminate suspending sand, rust, and other particles bigger than 5 micron.

Stage 2 Activated Carbon Filter 4.5*20 inch

GAC Filter can efficiently absorb the free chlorine, heavy metals, organic chemicals and bad smell.

Stage 3A 1 Micron Sediment Filter 4.5*20 inch ☐ Optional

Sediment filter can efficiently eliminate suspending sand, rust, and other particles bigger than 1 micron.

Stage 3B CTO Filter 4.5*20 inch ☐ Optional

CTO Filter can efficiently remove the free chlorine, heavy metals, organic chemicals and bad smell.

Stage 4 UV sterilizer ☐ Optional

Kill the bacteria while the water getting through.



10 inch 1/2/3 Stage Jumbo Water Filter

- « Filter Cartridge: 10 inch Jumbo PP / GAC
- « Packaging size (L × W × H):

Single Stage: 380 × 380 × 390mm / Carton (4 Sets)
Double Stage: 420 × 230 × 450mm / Carton (1 Set)
Third Stage: 595 × 230 × 450mm / Carton (1 Set)



20 inch 1/2/3 Stage Jumbo Water Filter

- « Filter Cartridge: 20 inch Jumbo PP / GAC / CTO
- « Packaging size (L × W × H):

Single Stage: 390 × 390 × 640mm / Carton (4 Sets)
Double Stage: 420 × 235 × 700mm / Carton (1 Set)
Third Stage: 600 × 235 × 700mm / Carton (1 Set)

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20inch Pre-filtration 6Stage Housing Water Purification

- « Ideal for a wide range of applications
- « Inlet / Outlet: 1/2" / 3/4"
- « Other color is optional(White housing or Blue housing)
- « Connector:plastic
- « Filter cartridge zis optional
- « With plastic wrench
- « Machine size(L x W x H): 530 x 150 x 605mm
- « Packaging size(L x W x H): 600 x 190 x 730mm



Stage 1 5 Micron Sediment Filter 20 inch

Sediment filter can efficiently eliminate suspending sand, rust, and other particles bigger than 5 micron.



Stage 2 Resin Filter Cartridge

Resin Filter is filled with quality cation resin, which can soften water and remove the hardness material in the water,such as calcium,magnesium.

Stage 3 CTO Filter 20 inch

CTO Filter can efficiently remove the free chlorine, heavy metals, organic chemicals and bad smell.

Stage 4 Ultrafiltration Membrane

UF membrane filter precision is 0.01 micron, could remove colloid, bacteria, virus and so on.

Stage 5 UV sterilizer

Kill the bacteria in the running water.

Stage 6 Post Carbon filter

Removes objectionable tastes and odors to enhance taste.



20 inch 2 Stage Housing Water Purification

- « Inlet / Outlet:1/2" / 3/4"
- « Filter Cartridge:20inch PP / CTO
- « Packaging size(L x W x H): 430 x 320 x 640mm/Cartron(3Sets)



20 inch 3 Stage Housing Water Purification

- « Inlet / Outlet:1/2" / 3/4"
- « Filter Cartridge:20inch PP / GAC / CTO
- « Packaging size(L x W x H): 430 x 320 x 640mm/Cartron(2Sets)



Ultrafiltration Filter

Real PVDF can be washed by hand.

« Stretch up to 200%

Exclusive double-sided welding process.

« 20000 times of 1.2Mpa water hammer test

Super Clamp Design.

« 3.2 Mpa blasting test

Food grade SUS 304 body.

« 36 wading sanitary tests



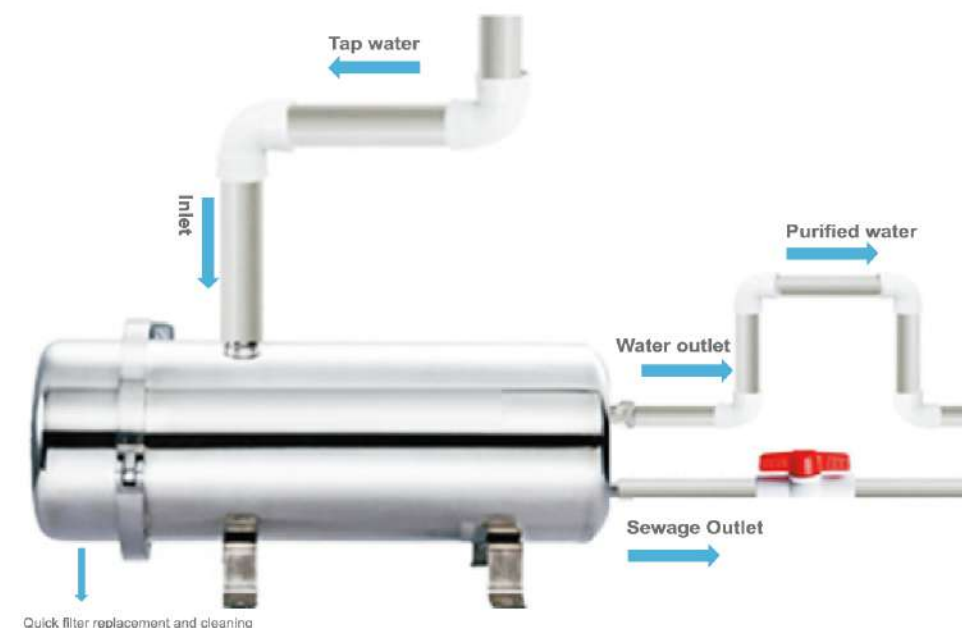
Size specification

Model NO.	Flow rate	Diameter	Connection size	Product size(L*W*H)
UF1000-KGC	1000L/hour	114	1/2" Male thread	370*175*165mm
UF2000-KGC	2000L/hour	114	3/4" Male thread	550*175*165mm
UF3000-KGC	3000L/hour	141	1" Male thread	500*190*190mm
UF5000-KGC	5000L/hour	141	1" Male thread	760*190*190mm
UF8000-KGC	8000L/hour	141	1" Male thread	900*190*190mm

« Support customization

Small innovation,greatly improved

Water natural new generation clamp type central water purifier



Automatic Water Bag Filling Machine

Product Description

- « Computer controlled, simple operation, easy to maintain stable performance, reliable quality. Packaging speed stepless speed regulation.
- « Use of specific control technology bags, bags without long-adjustable. Bag length adjusted accurately and convenient adjustment.
- « Intelligent temperature control device, can control temperature heat sealing temperature to ensure that the sealing quality.
- « Replacement of parts. Closure can be realized trilateral, quadrilateral letters, flat bag, pillow-bag production.
- « Photoelectric unique positioning technology to ensure that the subject colored logo bag integrity.
- « Packaging within the framework of rated capacity in the stepless.
- « Automatic batch printing products, and easy to tear mouth, easy to use.
- « Generous local pleasing in appearance, stainless-steel structure, in line with food and medicine packaging health requirements for the food, pharmaceutical and chemical industries.

Packing material:

Polyester/polyethylene, polyester/foil/polyethylene, polyester/aluminium/polyethylene, Paper/polyethylene, Nylon and other heat sealable laminated film structures. Film material requirement: thickness between 40 micron and 80 micron, roll core no more than 75mm, roll diameter no more than 320mm.

The equipment used volumetric liquid filler system for miso soup, sauce, gel quality grease, and Zhigao shrub such as bags, etc., applicable to the food, cosmetics, pharmaceutical and chemical industries. The viscosity of various products or even soft wide-complex products all can be filling. Liquid packaging machine is fast, accurate, practical and economic advantages.

Technical Parameters

Model	SJ-1000	SJ-2000
Bag length	50-150mm	50-250mm
Bag width	40-150mm	40-175mm
Film width	100-320mm	100-380mm
Bag volume	50-500ml	200-1000ml
Packing speed	33-37Bag/M	19-22Bag/M
Power supply	220V AC 50HZ 1.6Kw	220V AC 50HZ 2.5Kw
Machine dimension	500*700*1700mm	500*700*1700mm
Machine weight	275Kg	380Kg
Sealing style	Pillow style	

Industrial RO Membrane



ULP series RO element

ULP series RO element normally suitable for treatment of surface water, underground water and municipal water with TDS is less than 2000 ppm. It is mainly applied in bottle water, drinking water, boiler replenishment water, food processing and pharmaceutical manufacturing industries and other fields.

LP series of low pressure aromatic polyamide RO element

LP series of low pressure aromatic polyamide RO element for treatment of brackish water. It has the characteristics of low-pressure in operation, high permeate flow and excellent rejection performance in removing of solvable salts, TOC, SiO₂, etc. It is especially suitable for the preparation of high purity water in electronics and power industry.

Technical Parameters

Membrane element category	Model NO.	Active membrane Area ft ² (m ²)	Permeate Flow Rate gpd (m ³ /d)	Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
LP (Low Pressure)	BKLP1-4040	90 (8.4)	2400 (9.1)	99.5	99.3
	BKLP1-8040	440 (40.9)	12000 (47.3)	99.5	99.3
	BKLP2-8040	400 (37.2)	10500 (39.7)	99.5	99.3
Testing Conditions	Testing Pressure 225 psi (1.55Mpa) Testing Solution Temperature 25 °C Concentration of Testing Solution (NaCl) 2000ppm pH value of Testing Solution 7.0±0.5 Recovery Rate of Single Element 15%				
Application field	LP series of low pressure element normally suitable for treatment of brackish water, surface water, underground water and municipal water with TDS is less than 10000 ppm. It is mainly used for producing various scales of bottle water, drinking water, industrial used pure water, high purity water, boiler replenishment water, also for wastewater reuse, material concentration, purification and refining purposes.				

Membrane element category	Model NO.	Active membrane Area ft ² (m ²)	Permeate Flow Rate gpd (m ³ /d)	Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
ULP (Ultra Pressure)	BKULP1-2540	30 (2.8)	750 (2.84)	99.0	98.5
	BKULP1-4021	36 (3.3)	950 (3.6)	99.0	98.5
	BKULP1-4040	90 (8.4)	1900 (7.2)	99.3	99.0
	BKULP1-8040	400 (37.2)	12000 (45.4)	99.0	98.5
	BKULP2-8040	400 (37.2)	10500 (39.7)	99.5	99.3
Testing Conditions	Testing Pressure 150 psi (1.03Mpa) Testing Solution Temperature 25 °C Concentration of Testing Solution (NaCl) 1500ppm pH value of Testing Solution 7.0±0.5 Recovery Rate of Single Element 15%				
Application field	ULP series RO element normally suitable for treatment of surface water, underground water and municipal water with TDS is less than 2000 ppm. It is mainly applied in bottle water, drinking water, boiler replenishment water, food processing and pharmaceutical manufacturing industries and other fields.				

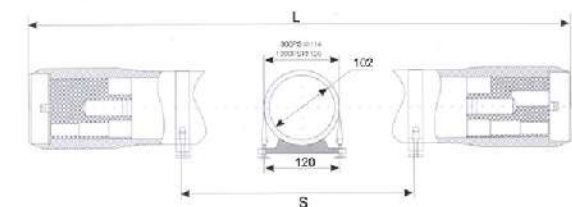
FRP Membrane Housing

2.5" FRP Membrane Housing

Size: W2540 E300
working pressure : 300, 1000PSI
Φ: 2.5"
Connection: End



4" End Connection Membrane Housing



4" End Connection FRP installation diagram

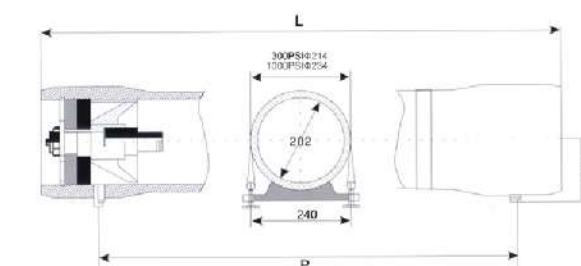
working pressure	core	L(mm)	S(mm)
300PSI 450PSI	1	1118	700
	2	2135	1350
	3	3152	1960
	4	4168	1580*2
600PSI 800PSI 1000PSI	1	1177	700
	2	2193	1350
	3	3210	1960
	4	4226	1580*2

* Note: 300PSI, 450PSI, 600PSI, 800PSI, 1000PSI available

Membrane Housing Parts



8" Side Connection Membrane Housing



8" Side Connection FRP installation diagram

working pressure	core	L(mm)	P(mm)	working pressure	core	L(mm)	P(mm)
300PSI	1	1459	1139	600PSI	1	1459	1139
	2	2475	2155		2	2475	2155
	3	3491	3171		3	3491	3171
	4	4510	4190		4	4510	4190
	5	5526	5206		5	5526	5206
	6	6542	6222		6	6542	6222
	7	7558	7238		7	7558	7238
450PSI	1	1459	1139	1000PSI	1	1524	1142
	2	2475	2155		2	2540	2158
	3	3491	3171		3	3556	3174
	4	4510	4190		4	4574	4192
	5	5526	5206		5	5588	5208
	6	6542	6222		6	6606	6226
	7	7558	7238		7	7622	7242

* Note: 300PSI, 450PSI, 600PSI, 800PSI, 1000PSI, 1200PSI available



FRP Tank Series

Material

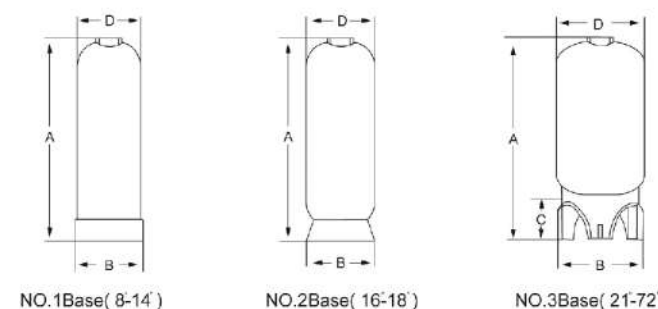
High quality ABS/PE/FRP materials ensure high performance FRP tank.

Source Water

Municipal/acid/brackish water.

Winding Technology

Based on years' experience and numerous experiments, we successfully solve the leaking problem of top and bottom connection.



FRP Tank Specification

Spec		VOL		Opening		Base	A	B	C	D
Inch	mm	Gallon	Liter	TOP	Lower (B)		mm	mm	mm	mm
818	200*450	3.1	12	2.5"		NO.1	465	220		210
835	200*875	6.3	24	2.5"		NO.1	855	220		210
811	200*1100	8.5	32	2.5"		NO.1	1120	220		210
942	225*1050	9.6	36	2.5"		NO.1	1060	242		238
1035	250*875	9.8	37	2.5"		NO.1	885	274		258
1054	250*1350	16	59	2.5"		NO.1	1355	274		258
1252	300*1300	22	83	2.5"		NO.1	1300	323		310
1354	325*1350	26	99	2.5"		NO.1	1345	351		333
1465	350*1625	34	113	2.5"		NO.1	1580	372		354
1665	400*1625	47	179	2.5"		NO.2	1645	412		404
1865	450*1625	60	227	4"	4"	NO.2	1685	447		453
2162	525*1500	71	270	4"	4"	NO.3	1660	520	300	526
2472	600*1800	118	447	4"	4"	NO.3	1940	610	300	613
3072	750*1800	177	670	4"	4"	NO.3	1992	710	300	757
3672	900*1800	250	946	4"	4"	NO.3	1990	880	300	900
4272	1050*1800	357	1351	6"Flange	6"Flange	NO.3	2196	1090	310	1072
4872	1200*1800	462	1748	6"Flange	6"Flange	NO.3	2166	1170	310	1200
4896	1200*2400	548	2076	6"Flange	6"Flange	NO.3	2440	1170	310	1200
6096	1500*2400	791	2995	6"Flange	6"Flange	NO.3	2400	1480	310	1505
7296	1800*2400	1173	4441	6"Flange	6"Flange	NO.3	2400	1798	310	1820

Precision Filter Series

S.S precision filter series

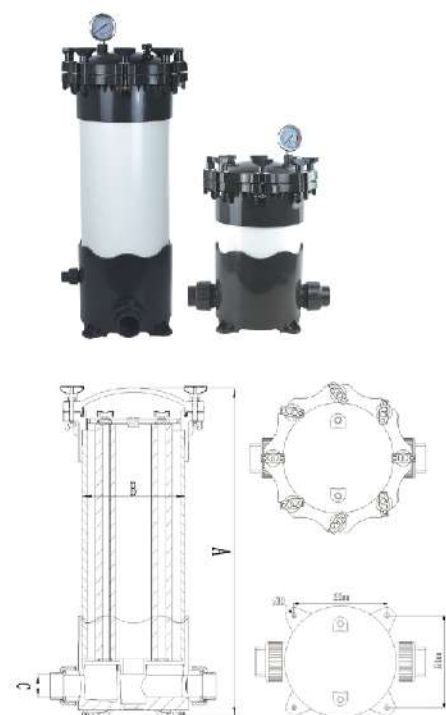
Material: SS304, SS316L
Max working pressure: 100Psi
Polished or sandblast external surface

MODEL	drain outlet	In/out let	Dimension	SS304 Thickness
3core*10"	1/4"	1"-1 1/2"	170mm	1.2mm
3core*20"	1/4"	1"-1 1/2"	170mm	1.2mm
3core*30"	1/4"	1"-2"	170mm	1.2mm
3core*40"	1/4"	1"-2"	170mm	1.2mm
5core*10"	1/4"	1"-1 1/2"	200mm	1.2mm
5core*20"	1/4"	1"-1 1/2"	200mm	1.2mm
5core*30"	1/4"	1"-2"	200mm	1.2mm
5core*40"	1/4"	1"-2"	200mm	1.2mm
7core*10"	1/2"	1"-2"	250mm	1.5mm
7core*20"	1/2"	1"-2"	250mm	1.5mm
7core*30"	1/2"	1"-2 1/2"	250mm	1.5mm
7core*40"	1/2"	1"-2 1/2"	250mm	1.5mm
12core*40"	1/2"	1"-2 1/2"	350mm	1.5mm
15core*40"	3/4"	2"-3"	350mm	1.5mm



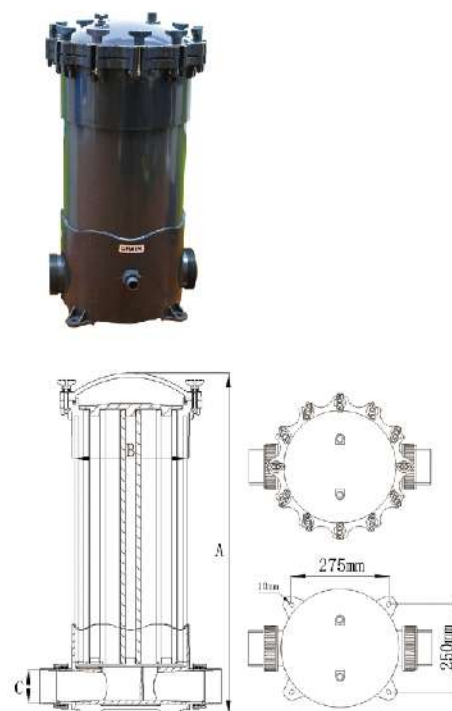
Bag filter housing

MODEL	Bag size #	In/outlet size	Dimension	Flow rate
BFH-1#	1	2"flange	219mm	20T/H
BFH-2#	2	2"flange	219mm	40T/H
BFH-3#	3	1"female thread	120mm	6T/H
BFH-4#	4	1"female thread	120mm	10T/H
BFH-5#	5	1"female thread	178mm	18T/H



5 Core UPVC Filter Housing

MODEL	Dimensions(mm)			Filter size	Max.Working Pressure
	A	B	C		
BK105	455	225	48.5/50	10"	0.6Mpa
BK205	710	225	48.5/50	20"	0.6Mpa
BK305	965	225	48.5/50	30"	0.6Mpa
BK405	1220	225	48.5/50	40"	0.6Mpa



9 Core UPVC Filter Housing

MODEL	Dimensions(mm)			Filter size	Max.Working Pressure
	A	B	C		
BK109	505	315	88.9/90	10"	0.6Mpa
BK209	760	315	88.9/90	20"	0.6Mpa
BK309	1000	315	88.9/90	30"	0.6Mpa
BK409	1270	315	88.9/90	40"	0.6Mpa



Ozone Generator

Applications

- Swimming pool;
- Refrigeratory disinfection;
- Medicine, food procession production-line sterilization and oxygenation;
- Food equipments, production water, bathroom disinfection;
- Prevent mildew and keep fresh on egg, fruits, vegetable, and food.

Scope of application

- Water treatment;
- Air treatment;
- Household treatment: in addition to smell, bleaching, bleaching: smell elimination of cabinets, refrigerators and litter decomposition of toluene, ethanol, sulfur dioxide, carbon monoxide, carbon dioxide and other toxic gases; can use ozone generator ozone water treatment.

Technical Parameters

Type Parameter	OZ-3G	OZ-5G	OZ-7G	OZ-10G	OZ-15G
Ozone output (g/h)when the oxygen is inputted	3	5	7	10	15
Ozone output (g/h)when the dry air is inputted	2.5	3.5	3.5	7	9
Cooling type	Air cooling				
Max. ozone density (g/m³)	Oxygen source: 25-50 dry air source: 5-15				
Length X Width X Height (mm)	350×250×520	350×250×580		350×250×630	
Weight(kg)	11	12	12	13	13
Power(W)	140	160	160	180	200
Max. Operation Current	≤0.3 A	≤0.35 A	≤0.4 A	≤0.45 A	≤0.55 A
Interface Dimension	φ6.5mm, you can also select the φ5.8 * 8mm ozone-proof rubber hose attached with the machine.				
Power supply	220V 50HZ 110V 50-60HZ				



UV Sterilizer

FEATURES

EFFECTIVE

99.99% destruction of bacteria (such as Ecoli), viruses and protozoan cysts.

SAFE

No chemicals added to water and no danger of overdosing.

EASY

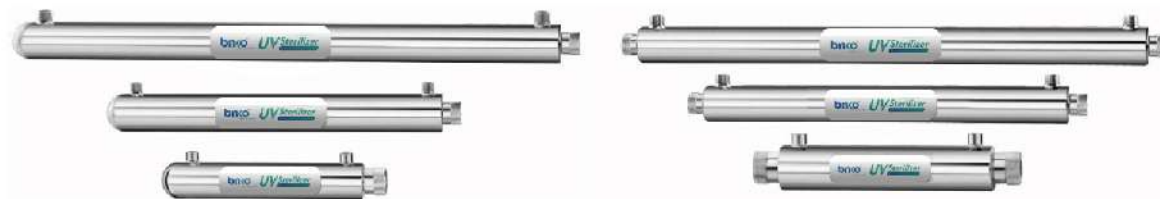
Simple installation. Audible and visual alarm if lamp fails.

ECONOMICAL

Low maintenance and easy servicing.

PARAMETER

- Operating pressure: 8bar (116psi)
- Ambient temperature: 2-40 °C
- Chamber material: 304 SS, 316L SS available on request
- Vertical or horizontal installation
- Iron < 0.3ppm
- Turbidity < 1NTU
- UV transmittance > 75%
- 4 pins domestic uv lamp, 2+2 pins philips uv lamp optional



Model	Flow rate m³/hr	GPM	Inlet/Outlet	UV Lamp code	Lamp power	Quartz tube code	Ballast code
BS-004	0.1	0.3	1/2" F	UVT5-404	4W	QT5-185	EB-G6
BS-006	0.1	0.5	1/2" F	UVT5-406	6W	QT5-245	EB-G6
BS-012	0.2	1	1/2" F	UVT5-412	12W	QT5-300	EB-G16
BS-016	0.5	2	1/2" M	UVT5-416	16W	QT5-360	EB-G16
BS-025	1.4	6	1/2" M	UVT5-425	25W	QT5-580	EB-G28
BS-030	1.8	8	3/4" M	UVT5-430	30W	QT5-900	EB-G35
BS-035	2.0	9	3/4" M	UVT5-435	35W	QT5-940	EB-G35
BS-040	2.3	10	3/4" M	UVT5-440	40W	QT5-875	EB-G55
BS-055	2.7	12	3/4" M	UVT5-455	55W	QT5-940	EB-G55

Model	Flow rate m³/hr	GPM	Inlet/Outlet	UV Lamp code	Lamp power	Quartz tube code	Ballast code
BD-004	0.1	0.3	1/2" F	UVT5-404	4W	QT5-185	EB-G6
BD-006	0.1	0.5	1/2" F	UVT5-406	6W	QT5-245	EB-G6
BD-012	0.2	1	1/2" F	UVT5-412	12W	QT5-300	EB-G16
BD-016	0.5	2	1/2" M	UVT5-416	16W	QT5-360	EB-G16
BD-025	1.4	6	1/2" M	UVT5-425	25W	QT5-580	EB-G28
BD-030	1.8	8	3/4" M	UVT5-430	30W	QT5-900	EB-G35
BD-035	2.0	9	3/4" M	UVT5-435	35W	QT5-940	EB-G35
BD-040	2.3	10	3/4" M	UVT5-440	40W	QT5-875	EB-G55
BD-055	2.7	12	3/4" M	UVT5-455	55W	QT5-940	EB-G55



Model	Flow rate m³/hr	GPM	Inlet/Outlet	UV Lamp code	Lamp power	Quartz tube code	Ballast code
BDS-110	5.4	24	1" M	UVT5-455	55W*2	QT5-940	EB-G55
BDS-165	8.2	36	1 1/2" M	UVT5-455	55W*3	QT5-940	EB-G55
BDS-220	10.9	48	1 1/2" M	UVT5-455	55W*4	QT5-940	EB-G

Model	Flow rate m³/hr	GPM	Inlet/Outlet	UV Lamp code	Lamp power	Quartz tube code	Reactor dimension
BDB-110	5.4	24	1" M	UVT5-455	55W*2	QT5-940	950*108*1.2mm
BDB-165	8.2	36	1 1/2" M	UVT5-455	55W*3	QT5-940	950*133*1.2mm
BDB-220	10.9	48	1 1/2" M	UVT5-455	55W*4	QT5-940	950*133*1.2mm
BDB-330	16.3	72	2" M	UVT5-455	55W*6	QT5-940	950*168*1.2mm
BDB-440	21.8	96	3" M	UVT5-455	55W*8	QT5-940	950*219*1.2mm
BDB-550	27.2	120	4" M	UVT5-455	55W*10	QT5-940	950*275*1.2mm
BDB-660	32.7	144	4" M	UVT5-455	55W*12	QT5-940	950*275*1.2mm

APX Permanent Magnetic Variable Frequency Pump

Product features/产品特点

- 恒压 Constant pressure
- 高效 Efficient
- 节能 Energy saving
- 舒适 Comfortable
- 自吸 Self-priming

Materials/材料

铜叶轮, 304焊接轴, Sensata 传感器, IP54
Copper impeller, 304 welding shaft, Sensata sensor, IP54

Product overview/产品概述

- 系统采用稀土永磁同步电机, 超高能效, 超低功耗;
- 低至1W的待机功率设计, 让节能技术得以完美呈现;
- 电机无感驱动技术(FOC), 完全实现电机系统零维护;
- 转子轴采用不锈钢对焊技术, 保证过水部件永不生锈;
- 配套液晶显示的人机界面, 操作简单;
- 配备工业级压力传感器;
- 系统集成逆止阀结构;
- 专为家庭倾心打造的恒压控制系统, 完全实现水压恒定。

Core technology/核心技术

永磁同步电机, 无感FOC矢量驱动技术, 止回阀消除水锤

Operating conditons/工作条件

介质温度: 高温型 (0°C~+100°C)
环境温度: ≤40°C

Technical parameters/技术参数

型号 Model	功率 Power(kW)	最高扬程 Max. head (m)	额定扬程 Rated head (m)	最大流量 Max. flow(m³/h)	额定流量 Rated flow(m³/h)	最高转速 Max. speed(RPM)	进/出口管径 In/out Pipe diameter
APX	1.0	45	30	3.7	2	3500	G1"



- The system adopts rare earth permanent synchronous motor, ultra-high energy efficiency, ultra-low power consumption;
- As low as 1W of stand by power design, so that energy-saving technology can be perfectly presented;
- Motor insensitive drive technology (FOC), fully realize the zero maintenance of the motor system;
- The rotor shaft uses stainless steel welding technology to ensure that over-water components never rust;
- Supporting LCD display human-machine interface, simple operation;
- Equipped with industrial-grade pressure sensors;
- System integration reverse valve structure;
- A constant pressure control system designed for the home to achieve a complete constant water pressure.

Permanent magnetic synchronous motor, insensitive FOC vector drive technology, check valve eliminates water hammer.

Liquid temperature: High temperature(0°C~+100°C)
Environment temperature: ≤40°C

APF Permanent Magnetic Variable Frequency Pump

Product features/产品特点

恒压	Constant pressure
高效	Efficient
节能	Energy saving
舒适	Comfortable

Materials/材料

外壳ABS, 不锈钢泵体, 不锈钢叶轮, 304焊接轴, 碳化硅对石墨机械密封, Sensata压力传感器, IP54

ABS casing, stainless steel pump body, stainless steel impeller, 304 welded shaft, silicon carbide to graphite mechanical seal, Sensata pressure sensor, IP54

Product overview/产品概述

- 《外形精美,可以满足五口之家的全屋供水; 专为家庭倾心打造的恒压控制系统, 完全实现水压恒定;
- 《拥有更小的安装体积, 可节省更多的安装空间; 低至1W的待机功率设计, 让节能技术得以完美呈现;
- 《电机无感驱动技术(FOC), 完全实现电机系统零维护;
- 《转子轴采用不锈钢对焊技术, 保证过水部件永不生锈;
- 《配套液晶显示的人机界面, 操作简单;
- 《配备工业级压力传感器;
- 《系统集成逆止阀结构;
- 《专为家庭倾心打造的恒压控制系统, 完全实现水压恒定。

Core technology/核心技术

永磁同步电机, 无感FOC矢量驱动技术, 止回阀消除水锤

Operating conditons/工作条件

介质温度: 高温型 (0℃~+100℃)
环境温度: ≤40℃

Technical parameters/技术参数

型号 Model	功率 Power(kW)	最高扬程 Max. head (m)	额定扬程 Rated head (m)	最大流量 Max. flow(m³/h)	额定流量 Rated flow(m³/h)	最高转速 Max. speed(RPM)	进/出口管径 In/out Pipe diameter
APF204	0.55	28	22	4.8	2	4000	G1"
APF204H	0.65	42	33	5.0	2	4800	G1"

APG Permanent Magnetic Variable Frequency Pump

Product features/产品特点

恒压	Constant pressure
高效	Efficient
节能	Energy saving
舒适	Comfortable

Materials/材料 技术参数

不锈钢泵体, 不锈钢叶轮, 304焊接轴, 碳化硅对石墨机械密封, Sensata压力传感器, 不锈钢五通, 不锈钢注油压力表, IP54

Stainless steel pump body, stainless steel impeller, 304 welding shaft, silicon carbide to graphite mechanical seal, Sensata pressure sensor, stainless steel five-way, stainless steel oil pressure gauge, IP54

Product overview/产品概述

- 《系统采用稀土永磁同步电机, 超高能效, 超低功耗;
- 《低至1W的待机功率设计, 让节能技术得以完美呈现;
- 《电机无感驱动技术(FOC), 完全实现电机系统零维护;
- 《转子轴采用不锈钢对焊技术, 保证过水部件永不生锈;
- 《集成的压力罐核心隔膜使用IR材料;
- 《配套液晶显示的人机界面, 操作简单;
- 《配备工业级压力传感器;
- 《系统集成逆止阀结构;
- 《专为家庭倾心打造的恒压控制系统, 完全实现水压恒定。

Core technology/核心技术

永磁同步电机, 无感FOC矢量驱动技术, 隔膜压力罐技术, 止回阀消除水锤

Operating conditons/工作条件

介质温度: 高温型 (0℃~+100℃)
环境温度: ≤40℃

Technical parameters/技术参数

型号 Model	功率 Power(kW)	最高扬程 Max. head (m)	额定扬程 Rated head (m)	最大流量 Max. flow(m³/h)	额定流量 Rated flow(m³/h)	最高转速 Max. speed(RPM)	进/出口管径 In/out Pipe diameter
APG203	0.8	38	32	5.1	2	3500	G1"
APG204	1.0	54	46	5.6	2	3500	G1"
APG403	1.0	38	30	6.5	4	3500	G1.25"/G1
APG404	1.2	54	46	7.0	4	3500	G1.25"/G1



- 《The system adopts rare earth permanent magnet synchronous motor, ultra-highenergy efficiency, ultra-low power consumption.
- 《As low as 1W of standby power design, so that energy-saving technology can be perfectly presented.
- 《Motor insensitive drive technology (FOC), fully realize the zero maintenance of the motor system.
- 《The rotor shaft uses stainless steel welding technology to ensure that over-water components never rust.
- 《Integrated pressure tank core diaphragm using IR material.
- 《Supporting LCD display human-machine interface, simple operation.
- 《Equipped with industrial-grade pressure sensors.
- 《System integration reverse valve structure.
- 《A constant pressure control system designed for the home to achieve a complete constant water pressure.

Permanent magnetic synchronous motor, insensitive FOC vector drive technology, diaphragm pressure tank technology, check valve to eliminate water hammer.

Liquid temperature: High temperature(0℃~+100℃)
Environment temperature:≤40℃

Parts For Water treatment system



On-line instrument



Multi functional control valve



Pressure Switch



Needle valve

Material:SUS304 / SUS316L



Solenoid valve

Material:Brass / SUS
Voltage:DC24V / 220V AC / 110V AC



Check valve

Material:Brass / UPVC



Salt Tank

Volume:25L / 70L / 100L / 150L
Color: Grey / Black



Water distributor



Pressure gauge



Booster pump



EDI



SUS Tank

Size:818 / 835 / 844 / 1035 / 1044 / 1054 / 1254
/ 1265 / 1465 / 1665

Filter Cartridge For Water treatment system



PP Filter Cartridge

L: 10", 20", 30", 40"
Φ: Normal, Jumbo
μm: 5μm, 1μm.....



PP Yarn Cartridge

L: 10", 20", 30", 40"
Φ: Normal, Jumbo
μm: 5μm, 1μm.....



Pleated Cartridge

L: 10", 20", 30", 40"
Φ: Normal, Jumbo
μm: 5μm, 1μm.....



UDF Cartridge

L: 10", 20"
Φ: Normal, Jumbo



CTO Cartridge

L: 10", 20"
Φ: Normal, Jumbo



Residential RO membrane elements

75/100/300/400/600GPD



Empty Shell Filter Cartridge

L: 10", 20"
Φ: Normal, Jumbo



Resin



Bag Filter

bnko