Snowate

Leading Home & Commercial Water Treatment Equipment Distributor

UNIVERSAL PRODUCTS CATALOGUE

High Quality Water Purification Starts Here

CONTENT

Sinowate

Leading Home & Commercial Water Treatment Equipment Distributor

Sinowate is a high-end brand under Snowate, specializing in home and commercial water treatment. Sinowate consistently emphasizes the importance of water quality health and environmental sustainability, dedicated to providing professional water treatment solutions for homes, businesses, and public places. Whether meeting the daily water needs of household users or providing large-scale, efficient water quality management services for commercial and public facilities, Sinowate satisfies the diverse needs of different customers with excellent quality and innovative technology.

OEM

Production is carried out based on the design, technical specifications, or brand requirements provided by the client. The products are then sold under the client's brand.

ODM

The manufacturer independently designs and produces the products. Clients can directly sell them under their own brand or make secondary design modifications before selling.

Quality Assurance

All products undergo multiple tests to meet international quality standards to ensure our customers can purchase with confidence and use with peace of mind.

Technical Support

We provide technical services and establish an online service platform to answer customer questions at any time and provide equipment maintenance advice.

Flexible Options

We offer various water purification equipment options, allowing users to choose the right product combinations based on their needs whether it's for homes or offices.

Efficient & Eco-Friendly

All products comply with international standards. We provide customers with efficient, eco-friendly water purification devices, delivering users a sound experience.

Home Water Purifier

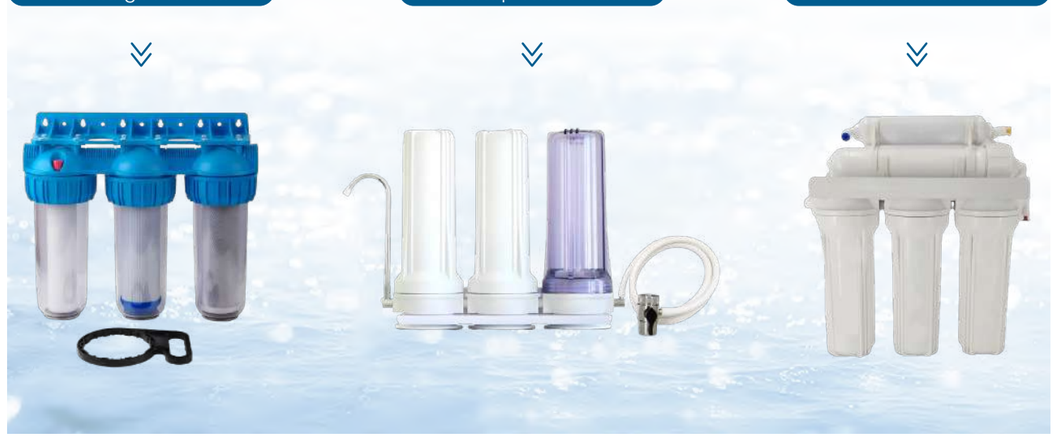
Enjoy Healthy Water Quality, Live a Quality Life

Home water purifier removes harmful substances from water through physical filtration, chemical adsorption, or other technical means, improving water quality and providing families with purer, safer, and better-tasting drinking water.

Three-stage Pre-filter

Countertop Water Purifier

Home RO Water Purifier



Three-stage Pre-filter

The three-stage pre-filter uses a 10" PP cotton filter cartridge, UDF filter cartridge, CTO filter cartridge or other cartridges for graded filtration of the water source. It removes large particles such as sediment and rust, adsorbs residual chlorine and odors, and eliminates organic matter, heavy metals, and other contaminants. This enhances water quality and taste, while also protecting downstream water purification equipment.

The three-stage pre-filter is typically installed at the entrance of the pipeline system or under the kitchen sink. Users can select and install specific filter types in the filter bottle based on water quality and specific filtration needs.

Structure

1 Mounting plate

Used in combination with the filter bottle, it can be installed on the wall.

2 Bottle cap

Made of PP material, it connects with the filter bottle. The inlet and outlet interface sizes are universal 1/4" or 1/2" or 1" copper thread.

3 Pressure relief valve

When the pressure inside the bottle reaches a certain level and the bottle cap cannot be unscrewed, press the pressure relief valve to release the pressure inside the bottle, allowing the cap to be unscrewed.

4 Filter bottle

Transparent PET material filter bottle, it is convenient for observing the filter cartridge usage status.

5 Filter cartridge

Choose from PP cotton filter cartridge, UDF filter cartridge, CTO filter cartridge, etc., for graded filtration according to your needs.

6 Wrench

It is used to tighten the filter bottle to prevent poor connection leading to water leakage.

Features

- The upper housing is made of PP material, and the lower housing is made of PET material, resistant to high temperatures and corrosion, with a long service life.
- The PET material bottle body has high transparency, allowing for a clear view of observinig the filter cartridge's operating status.
- It removes large particles, residual chlorine, odors, heavy metals, and other contaminants to improve water quality.
- It has a simple structure, and can be flexibly installed under the kitchen sink or integrated with the pipeline system.
- The inlet and outlet ports are 1/4", 1/2", or 1" universal ports, making installation convenient without the need for professional tools.
- The leak-proof filter bottle top features a twist cap design, allowing for easy disassembly and filter cartridge replacement, offering flexible combinations.
- Low maintenance cost, with affordable 10" universal filter cartridges, regular replacement ensures good performance.

Other Types

In addition to the three-stage pre-filter, there are also single-stage pre-filters with single-stage filter cartridges and dual-stage pre-filters with dual-stage filter cartridges. Users can choose the appropriate filter according to their needs.

Single-stage Pre-filter

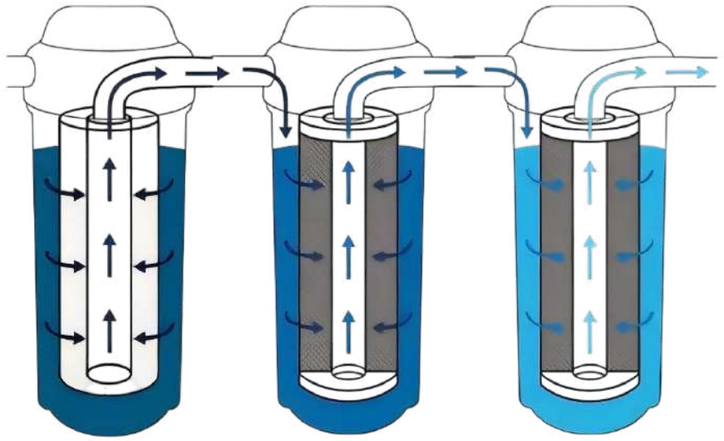
The single-stage pre-filter is the most basic filtration device. Usually installed at the beginning of the water supply pipeline, it is used to filter large particles of impurities in the water, such as sediment, rust, and suspended solids. Different filter cartridges can be replaced according to needs.

Dual-stage Pre-filter

The combination of commonly used PP cotton filter cartridges and CTO filter cartridges adds an additional filtration process based on the primary filter, mainly targeting finer particles and some dissolved pollutants, further enhancing the filtration effect.

Principle

The raw water first enters the first-stage PP cotton filter cartridge, removing large particles such as sediment, rust, and suspended solids from the water; Then it enters the second-stage UDF filter cartridge, adsorbing odors, chlorine, and organic compounds in the water, improving the taste of the water; Then it proceeds to the third-stage CTO filter cartridge, further adsorbing residual odors, heavy metals, and other pollutants in the water, finally resulting in filtered water.



Specifications

Three-stage Pre-filter Specifications

Material	PP and PET
Inlet and Outlet Connections	1/4" or 1/2" or 1"
Filter Cartridge	PP cotton filter cartridge + UDF filter cartridge + CTO filter cartridge
Filter Cartridge Size	10"
Power Source	Manual
Maximum Pressure	Exceeds 20 kg
Accessories	Bracket, wrench, screws
Net weight	16 kg
Gross weight	17 kg
Package dimensions (L × W × H)	53.5 × 44.5 × 35.5 cm

Countertop Water Purifier

The countertop water purifier is a compact and efficient water filtration system that allows users to choose different types of filter cartridges, such as PP cotton filter cartridge, UDF filter cartridge, CTO filter cartridge, etc., based on their needs. It effectively removes impurities from water, enhancing the water taste and quality to meet daily drinking and cooking needs.
The countertop water purifier is usually installed on the kitchen counter and directly connected to the main water faucet. It has a small footprint, making it ideal for small households or users with limited budgets.

Structure

1 Special faucet

Filtered water flows out from here, distinguishing it from unfiltered water.

2 PP material housing

Wear-resistant, corrosion-resistant, long service life, and allows for quick manual replacement of the filter cartridge.

3 Bracket

Supports the filter cartridge.

4 Water supply hose

Used for conveying water flow.

5 Diverter valve

Switches the direction of water flow, used to select water flow into different devices, for example, switching raw water to flow directly from the faucet or to the purifier for filtration.

Features

- **Long service life.**
  It adopts a PP material housing, resistant to high temperatures and corrosion.
- **Improved water quality and taste.**
  It can remove large particles, residual chlorine, and odors.
- **Special faucet.**
  It is equipped with a special faucet for dispensing filtered water.
- **Portable design.**
  Compact structure, lightweight, no complex installation required.
- **Low maintenance cost.**
  The replacement time for the filter cartridge is usually 6–12 months.

Principle

The countertop water purifier connects directly to the faucet and switches between filtered and unfiltered water through a diverter valve. When filtered water is needed, turn the diverter valve, and the water flows through the filter cartridges (PP cotton filter cartridge, UDF filter cartridge, CTO filter cartridge, etc., optional) and is discharged from the special faucet.

Specifications

Countertop Water Purifier Specifications

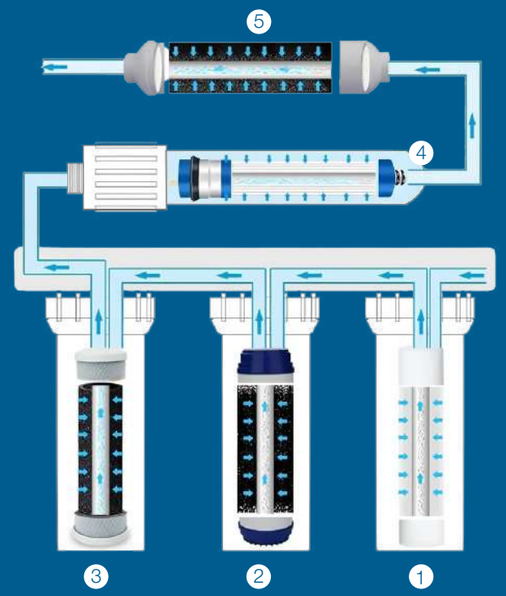
Filter cartridge size	10"
Stages	Single-stage / dual-stage / three-stage
Housing material	PP / Stainless steel
Housing color	White / Transparent
Filter cartridge	PP / UDF / CTO / Ceramic filter cartridge (optional)
Inlet / outlet port	1/2", 1/4"or 3/8"
Inlet pressure	8–125 PSI

Home RO Water Purifier

Home RO water purifier is one of the mainstream choices for modern household drinking water purification. Using an RO membrane with a precise filter rating of 0.0001 microns, it can efficiently filter heavy metals, bacteria, viruses, and other harmful substances from water. The water filtered by the RO water purifier can be directly consumed, meeting the needs for daily drinking, cooking, and tea brewing. It is widely used in home kitchens and office places.

Structure

The home RO water purifier includes multi-stage filtration system, generally consisting of 5–8 stages of filtration.



1. **PP Cotton Filter Cartridge**
   First-stage filtration, it removes large particles in the water, such as sand, sediment, and suspended solids.
2. **Granular activated carbon filter cartridge**
   Second-stage filtration, it adsorbs odors, chlorine, and organic compounds in the water, improving its taste.
3. **CTO filter cartridge**
   Third-stage filtration, it further removes residual odors, heavy metals, and other contaminants from the water.
4. **RO membrane filter cartridge**
   4.Core filtration, it removes heavy metals, bacteria, viruses, mineral salts, and other impurities from the water.
5. **Post-activated carbon filter cartridge**
   Fifth-stage filtration, it enhances the taste of purified water.

Features

- **Precision filtration.**
  Equipped with a 0.0001-micron RO membrane, it can effectively remove heavy metals, bacteria, viruses, and other harmful substances from water. The filtered water quality is close to pure water, almost free of impurities and pollutants, truly achieving health and safety.
- **Multi-stage filtration.**
  Multi-stage filter design includes a 10-inch pre-PP cotton filter cartridge, granular activated carbon filter cartridge, compressed activated carbon filter cartridge, RO membrane filter cartridge, and post-activated carbon filter cartridge, purifying water quality layer by layer.
- **Compact design.**
  With a compact structure and reasonable design, it is relatively small in size, making it particularly suitable for installation under the kitchen sink without occupying additional home space, while maintaining ease of maintenance.
- **Stable water supply.**
  The filtered pure water is stored in a storage tank, which can provide a stable water volume during peak times, ensuring a steady supply of pure water in a short period.
- **Low maintenance cost.**
  The storage tank reduces the working time of the pump, thereby extending the service life of the water pump and RO membrane, reducing long-term maintenance costs, and saving expenses for household users.

Specifications

Home RO Water Purifier Specifications

Stages	5 / 6 / 7 / 8	
Gallon	50 / 75 /100 / 150 / 200 / 300 / 400 / 600 / 800 G	
Flush	Manual / Automatic	
Support	With / without	
Pressure gauge	With / without	
Power	110 / 220 V, 50 / 60 Hz	
N.W / G.W	12 / 13 KG	
MEAS	37 x 26 x 73 CM (3.2 G)	42 x 29 x 76 CM (4.0 G / 5.0 G)

Commercial Water Purifier

Making Every Drop of Water Purer

Commercial water purifier, specifically designed for various commercial settings, can provide high-flow, high-quality water purification solutions to meet diverse water quality needs in different places. It is widely used in industries such as catering, healthcare, education, and office environments.

Commercial RO Water Purifier

The commercial RO water purifier utilizes reverse osmosis (RO) technology combined with a multi-stage filtration system, balancing efficient purification capabilities with a compact design. It can continuously provide high-quality pure water to meet various water consumption needs in commercial spaces (such as offices, restaurants, cafes, beauty salons, etc.), including drinking, cooking, and equipment cleaning.

Traditional home water purifiers are unable to meet the water consumption needs of commercial spaces, while large industrial water purifier is too expensive and space-consuming. Therefore, small commercial RO water purifiers have emerged to provide commercial users with cost-effective and efficient water purification solutions.

Structure

Booster Pump
It provides sufficient pressure to allow water to flow through the RO membrane.

Water auto flusher
It is used to periodically flush the membrane and monitor operating status.

Mounting bracket
It is used to secure and support the RO water purifier.

PP cotton filter cartridge
First-stage filtration, it removes large particles in the water, such as sand, sediment, and suspended solids.

Granular activated carbon filter cartridge
Second-stage filtration, it adsorbs odors, chlorine, and organic compounds in the water, improving its taste.

CTO filter cartridge
Third-stage filtration, it further removes residual odors, heavy metals, and other contaminants from the water.

RO membrane filter cartridge
Core filtration, it removes heavy metals, bacteria, viruses, mineral salts, and other impurities from the water.

Features

- **High-efficiency purification.**
  It utilizes a 0.0001-micron RO membrane to thoroughly remove heavy metals, bacteria, viruses, and harmful chemicals, with the output water approaching pure water standards.
- **Stable water supply.**
  Equipped with a large-capacity storage tank, the filtered pure water is stored in the tank, providing a stable water supply during peak periods to ensure consistent supply during high-demand times.
- **Multi-stage filtration.**
  It includes a 20-inch universal pre-filter PP cotton filter cartridge, granular activated carbon filter cartridge, compressed activated carbon filter cartridge, RO membrane filter cartridge, and post activated carbon filter cartridge, purifying water quality step by step.
- **Compact structure.**
  Miniaturized design with a small footprint, it can be easily installed in limited spaces such as under counters or in equipment rooms. Its simple and stylish appearance perfectly integrates with modern commercial environments.
- **Economical and environmentally friendly.**
  It adopts a water-saving design to optimize the wastewater ratio, reducing water resource waste. The filter cartridge is easy to maintain, lowering long-term operating costs and saving expenses for users.

Specifications

RO-ZJ Commercial RO Water Purifier

Model	RO-ZJ-20 to RO-ZJ-23
Stages	5 stages
Gallon	100 / 200 / 300 / 400 / 600 / 800 G
Flush	Manual / Automatic
Power	110 / 220 V, 50 / 60 Hz
N.W / G.W	19 / 20 kg
MEAS	47 x 31 x 88 cm

RO-LBG-01 Commercial RO Water Purifier

Stages	5 Stages
Gallon	200 / 300 / 400 / 600 / 800 / 1000 / 1200 G
Flush	Manual / Automatic
Power	110 / 220 V, 50 / 60 Hz
N.W / G.W	19 / 20 kg
MEAS	56 x 37 x 102 cm
MEAS	47 x 31 x 88 cm

Water Purifier Accessories

Making Every Drop of Water Purer

In water treatment systems, the quality and performance of accessories are crucial to the effectiveness of water treatment and the stable operation of the equipment. Our high-quality water purifier accessories have high compatibility and can be flexibly replaced according to user needs, making them widely applicable to various household and commercial water treatment devices.

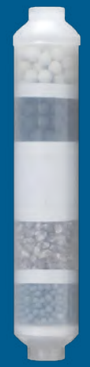
PP Cotton Filter Cartridge

UDF Filter Cartridge

CTO Filter Cartridge

RO Membrane Filter Cartridge

T33 Post-Activated Carbon Filter Cartridge



Mineral Ball Filter Cartridge

Resin Filter Cartridge

Polyphosphate Cartridge

Ceramic Filter

Quick Connect Inline Water Filter Cartridge

Pre-filter Housing

RO Membrane Housing

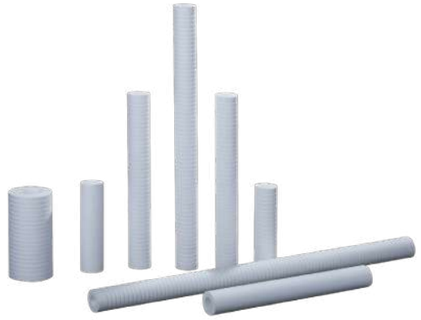
PP Cotton Filter Cartridge

PP cotton filter cartridge is made of non-toxic, odorless polypropylene fiber material, featuring acid and alkali resistance and stable performance. It is commonly used as the first line of defense in water purification systems and is an indispensable core component in water purification equipment, specifically designed to filter sediment, rust, suspended solids, and other large particulate impurities in water. With its efficient, stable, and economical filtration performance, it is widely used in household, commercial, and industrial water treatment applications.

Features

- **Highly efficient at intercepting impurities.**
  Filter rating can reach 1–50 microns, effectively removing sediment, rust, suspended solids, and other particulates.
- **Progressive structure design.**
  A multi-layer filtration structure with a loose outer layer and tight inner layer enhances dirt-holding capacity and extends the filter cartridge's lifespan.
- **Food-grade safe material.**
  It is free of chemical additives, strong acid and alkali resistance and meets drinking water standards, ensuring every drop of water is safer.
- **Wide compatibility.**
  Standard size design (such as 10 inches, 20 inches, etc.) fits most water purifier brands and models on the market.
- **Economical.**
  PP cotton filter cartridges are affordable, with a replacement time of 3–6 months. The filter cartridge is easy and quick to replace, with low maintenance costs.

Category



Melt-blown

PP Cotton Filter Cartridge

Manufactured using the melt-blown process, it is made through heating, melting, spinning, drawing, and forming. It features a progressive multi-layer pore structure, with larger pores on the outer layer to capture large particles and smaller pores on the inner layer for filtering fine particles. It is seamlessly formed with no joints.It is suitable for first-stage filtration in household water purification systems and as a pre-treatment unit in commercial water purification systems.

Specifications

Material	PP
Surface	FLAT / POINT / LINE / GROOVE
Height	5" / 10" / 20" / 30" / 40"
Inner Diameter	20 / 28 / 30 mm
Outer Diameter	40 / 51 / 53 / 57 / 60 / 63 / 100 / 114 mm
Weight	80–850 grams

String Wound

PP Cotton Filter Cartridge

Manufactured using a string winding process, polypropylene fiber threads are wound tightly around a porous core. The winding tightness forms a gradient pore structure, with the inner layer being denser and the outer layer looser. The fixed wire-wound structure enhances stability, while the core support and wire-wound design enable it to withstand high water pressure.It is suitable for industrial water treatment, high-pressure filtration systems, and similar applications.

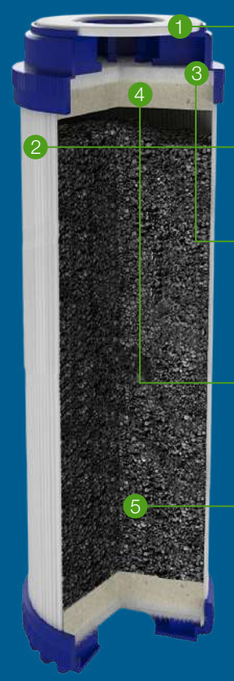
Specifications

Material	PP
Height	10" / 20" / 30" / 40"
Weight	90–1600 grams

UDF Filter Cartridge

UDF filter cartridge, also known as GAC (Granular Activated Carbon Filter) cartridge, is specifically designed for water quality optimization. It uses high-quality coconut shell activated carbon or coal-based activated carbon to effectively adsorb harmful substances in water, such as residual chlorine, odors, and organic pollutants, enhancing the cleanliness and taste of the water. It is typically used as the second-stage filter cartridge in RO water purifiers to further improve water quality. It is widely applied in both home and commercial water purifiers, making it an ideal choice for modern healthy water consumption.

Structure



White rubber ring
It prevents water leakage caused by gaps due to water pressure after the filter cartridge is installed; this end should be installed facing upwards.

Housing
Made of high-quality plastic material, it ensures long-lasting durability.

Non-woven fabric
Located at both ends of the filter cartridge, it is used to intercept large particles of impurities in the water.

Filter cotton layer
It further removes large particles of impurities in the water, protecting the core activated carbon layer.

Activated carbon filter material
It has strong adsorption capacity, and efficiently removes odors, residual chlorine, and organic pollutants from the water.

Features

- **High adsorption performance.**
  It utilizes high-quality coconut shell activated carbon or coal-based activated carbon for stronger adsorption capacity.
- **Improved water taste.**
  It removes impurities such as odors, residual chlorine, and organic pollutants to enhance the drinking experience.
- **Multi-purpose compatibility.**
  Universal standard filter cartridges ranging from 5" to 40", suitable for various water purification devices.
- **Eco-friendly and durable.**
  Recommended replacement time is 3–6 months, offering long service life and reducing replacement frequency.
- **Simple installation design.**
  Easy filter cartridge replacement, effortlessly adaptable, no professional tools required.

Working Principle

The raw water enters from the inlet of the filter cartridge, first passing through the non-woven fabric layer and the filter surface layer, intercepting large particles of impurities. Subsequently, the water flows into the granular activated carbon layer, where harmful substances in the water are effectively removed through the adsorption action of the activated carbon. After purification treatment, clean water flows out from the outlet, ensuring users can drink water without worry.

Since the two ends of the UDF filter cartridge are different, there is an installation direction. The water flow can only achieve the filtering effect by flowing from the direction of the hollow end cap to the direction of the white rubber ring end cap.

Specifications

UDF Filter Cartridge Specifications

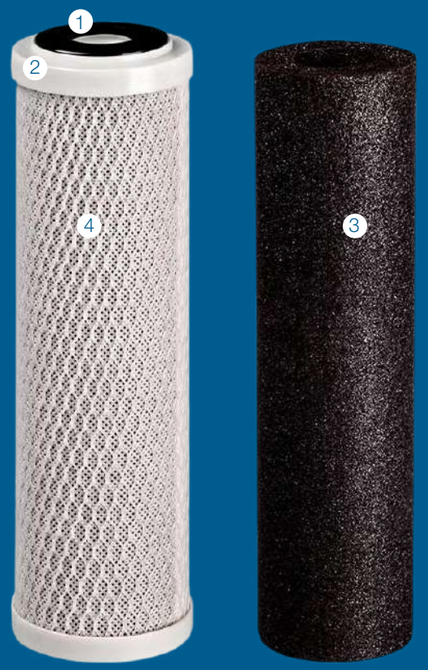
Material	Granular activated carbon or coal-based activated carbon
Type	NORMAL / JUMBO
Height	5" / 10" / 20" / 30" / 40"
Out diameter	2.5" / 4.5"

CTO Filter Cartridge

The CTO filter cartridge (Compressed Activated Carbon Filter Cartridge) is a core filter cartridge widely used in water purification systems. It is made from compressed activated carbon and is typically used as the third-stage filter cartridge in water purifiers. Its primarily function is to adsorb residual chlorine, heavy metal ions, pesticide residues, etc., thereby improving water quality and taste.

Under the same working conditions, UDF filter cartridge has a relatively shorter lifespan and require regular replacement. In contrast, CTO filter cartridge has a longer service life, effectively reducing the frequency of filter replacement.

Structure

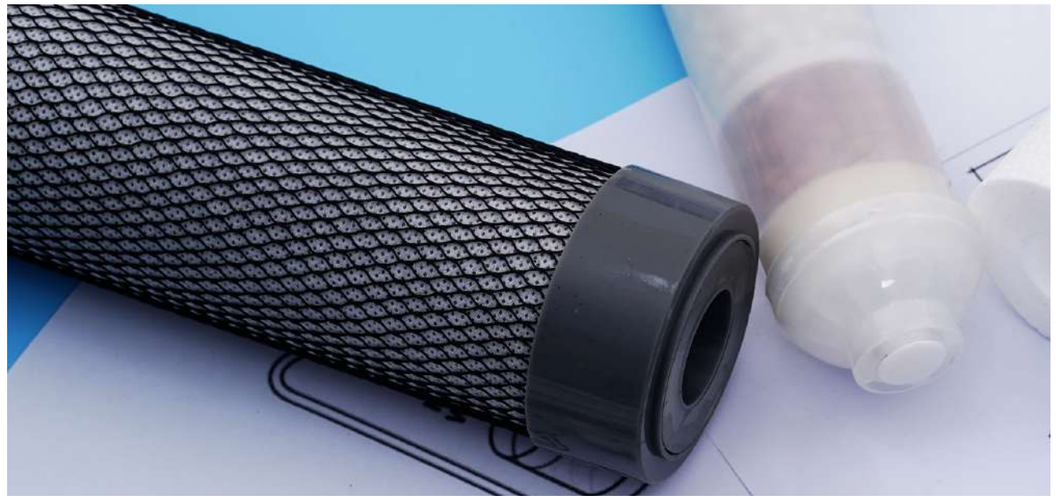


1 O-ring
High temperature resistance, good sealing performance.

2 End cap
Made of polypropylene material, reliably sealed, and durable.

3 Compressed activated carbon
Made by mixing granular activated carbon powder with an inorganic liquid binder, then placed into a special designed mold, compressed under high pressure with a press, and dried after demolding.

4 PP non-woven fabric
It filters impurities and sludge, stabilizes the filter cartridge structure.



Features

- **High-efficiency adsorption.**
  Made of high-density activated carbon material, it offers excellent adsorption capacity and can effectively remove heavy metal ions and chemical residues from water.
- **Precision filtration.**
  Through a special compression process, a uniform pore structure is formed, which can both adsorb impurities and physically intercept fine particles.
- **Eco-friendly and durable.**
  Under normal circumstances, the lifespan of the filter cartridge is 6–12 months, with the specific replacement time depending on water quality and usage frequency.
- **Wide applicability.**
  Universal standard filter cartridges range from 5" to 40" in size, and are suitable for various types of water purification equipment like RO water purifiers.

Specifications

CTO Filter Cartridge Specifications

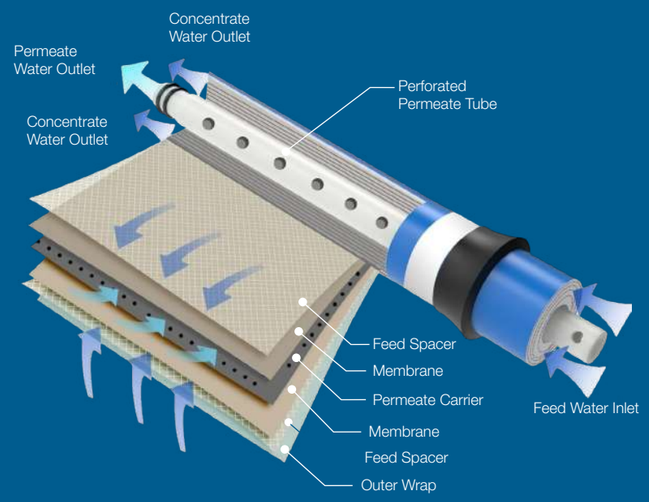
Material	Granular activated carbon or coal-based activated carbon
Type	NORMAL / JUMBO
Height	5" / 10" / 20" / 30" / 40"
Out diameter	2.5" / 4.5"

RO Membrane Filter Cartridge

The RO (Reverse Osmosis) membrane filter cartridge is a core component of modern water purification systems. Utilizing reverse osmosis technology, it boasts a filter rating of 0.0001 microns, effectively removing heavy metals, bacteria, viruses, and other tiny pollutants and harmful substances from water. Water filtered through the RO membrane is safe for direct consumption.

The RO membrane filter cartridge is typically installed as the fourth stage of filtration in water purifiers, following the activated carbon filter cartridge. Whether ensuring the safety of household drinking water or meeting the demand for commercial pure water, our RO membrane filter cartridge is a technological pioneer in the water purification industry.

Working Principle



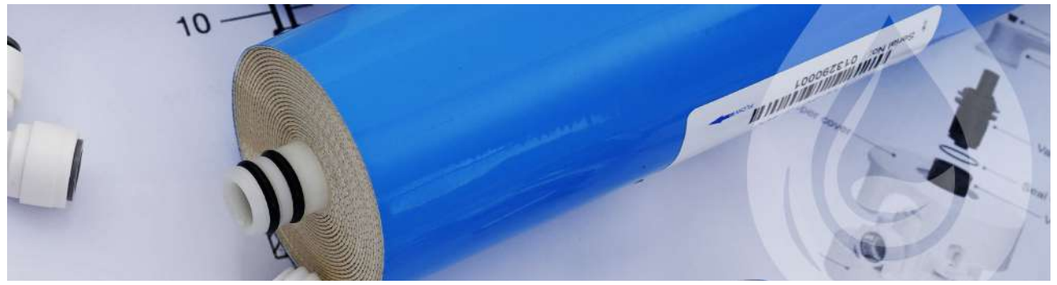
Under high pressure, raw water flows into the RO membrane from the end without the double O-ring seals. The RO membrane performs deep filtration through its ultra-fine pores (approximately 0.0001 microns).

Harmful substances in the water, such as dissolved salts, heavy metals, bacteria, viruses and organic substances, are trapped by the membrane. The trapped impurities and concentrated water are discharged through the drain outlet.

Water molecules and a very small amount of tiny mineral ions can pass through the RO membrane, becoming purified water. The purified water flows out from the outlet, available for users to drink or use.

Features

- **Ultra-high filter rating.**
  0.0001 micron filter rating allows it to effectively remove bacteria, viruses, heavy metals, and dissolved salts from water, providing safe drinking water.
- **Energy-saving and environmentally friendly design.**
  High salt rejection (up to 95% or above), high purity purified water, high water resource utilization rate, low wastewater ratio, saving water resources.
- **High flow design.**
  Daily water production up to 50 G to 400 G, fully meeting the high-frequency drinking water needs of homes, offices, cafes, and other places.
- **Exceptional durability.**
  Multi-layer composite membrane structure offers excellent anti-fouling performance. The filter cartridge lifespan can reach 16–24 months, reducing maintenance costs.
- **Compact compatibility.**
  It meets standard 1812 and other specifications, compatible with most household and commercial water purifiers, modular design for easy installation.



Specifications

RO Membrane Filter Cartridge Specifications

Model	RO-50G	RO-75G	RO-100G	RO-200G	RO-300G
Flow Rate	50 GPD	75 GPD	100 GPD	200 GPD	300 GPD
Filtration Life	16–24 months				
Housing dimensions	1.8" x 12"				
Max Adapted Pressure	150 psi				
Maximum Operating Temperature	113 °F (45 °C)				
Test Liquid Pressure psi (Mpa)	65 (0.45)				
Test Liquid Temperature (°C)	25				
Recovery rate (%)	15				
Salt Rejection	95%–98%				
PH	6.5–8				

T33 Post-Activated Carbon Filter Cartridge

The T33 post-activated carbon filter cartridge is a highly efficient post-filter cartridge commonly used in the final stage of water purification systems. It is filled with high-quality activated carbon, specially designed to further optimize water quality by adsorbing residual odors, discoloration, and residual chlorine, thereby improving the taste of the water.

The T33 post-activated carbon filter cartridge has a wide range of applications and can be used in household, commercial water purifiers, and other water treatment devices, providing you with a sweet and refreshing direct drinking water experience.

Composition

The material in the T33 post-activated carbon filter cartridge is coconut shell activated carbon, which is a high-quality activated carbon made from coconut shells, refined through high-temperature carbonization and activation processes. Due to its unique microporous structure and excellent adsorption properties, it is particularly suitable for adsorbing pollutants such as organic matter, residual chlorine, odors, and heavy metals in water.

Features

- **Improved water taste.**
  It efficiently adsorbs residual chlorine, odors, and organic matter from water, making it sweeter and more refreshing.
- **Standard port design.**
  It uses a 1/4" port, compatible with mainstream water purifiers, easy and quick to install.
- **High-quality activated carbon material.**
  Made from premium coconut shell activated carbon, It offers strong adsorption capacity, safe and durable.
- **Energy-saving and environmentally friendly.**
  Pure physical filtration, no electricity required, low operating cost, environmentally friendly.
- **Exceptional durability.**
  Recommended filter cartridge replacement time is 6–12 months, low cost, easy maintenance.
- **Compact design.**
  Standard 10" housing, compact shape, small footprint, flexible installation.

Specifications

T33 Post-Activated Carbon Filter Cartridge Specifications

Material	Coconut Shell Activated Carbon
Height	10"
Outer Diameter	2"
Inlet/Outlet Size	1/4"
QTY	1 pc / plastic package, 25 pcs / carton
Carton Size	27 x 27 x 27 cm
Net Weight / Gross Weight	7 / 8 kg

Mineral Ball Filter Cartridge

The mineral ball filter cartridge is a special filter cartridge focused on mineralizing water quality. It is filled with various high-quality natural mineral balls (such as maifan stone balls, negative potential balls, alkaline balls, etc.) that can release minerals such as calcium, magnesium, potassium, and sodium into the water. Additionally, it improves the taste and pH balance of the water, making it more beneficial to human health.

The mineral ball filter cartridge is typically installed at the final stage of water purifiers, and is suitable for both home and commercial water purification systems. It is especially ideal for users seeking a high-quality drinking water experience.

Features

- **Mineral supplementation.**
  Continuously releases minerals such as calcium, magnesium, and potassium needed by the human body, making drinking water healthier.
- **Improved water taste.**
  It optimizes trace element content in the water, making it closer to the refreshing and sweet taste of natural spring water.
- **PH balance regulation.**
  It adjusts the water's PH to a mildly alkaline level, helping to neutralize acidic substances in the body and promote healthy metabolism.
- **High compatibility.**
  Standard universal sizes are suitable for various water purification devices, including RO purifiers and direct drinking water systems.
- **Long-lasting use.**
  Stable structure with uniform release of mineral balls. Recommended filter replacement interval is 6–12 months for prolonged service life.
- **Eco-friendly materials.**
  Mineral ball filter cartridges are made from natural mineral materials, ensuring they are pollution-free and free of side effects.
- **Easy maintenance.**
  Simple to install, no special operations required for long-term use, with low maintenance costs.

Filter Materials

The filter materials in the mineral ball filter cartridge can be categorized into various types based on their functions, such as mineral supplement, alkaline adjustment, activity enhancement, adsorption purification, antioxidant, far-infrared, and trace element supplement. These filter materials are usually used in combination to achieve multiple purification and mineralization effects.

Energy ball

Contains natural minerals (such as calcium, magnesium, potassium, etc.) that help maintain cellular health. It generates microcurrents and emits infrared rays to regulate the pH of water.

Maifan stone

Contains trace elements like calcium and iron, which help regulate water quality and improve taste. It has the dual function of adsorbing impurities and releasing minerals.

Liquid calcium balls

Enhances the mineral content in water, improves taste, slightly increases the pH of water to make it weakly alkaline, and can also moderately increase water hardness.

Activated carbon

A porous carbon-based material with a large surface area and strong adsorption capacity, effectively adsorbing toxic and harmful substances in water.

Ion exchange resin

Removes calcium and magnesium ions, converting hard water into soft water, thereby preventing scale formation and protecting household appliances and pipelines.

Far-infrared mineralization ball

Activates water molecules through the action of far-infrared rays, enhancing the solubility and permeability of water while releasing minerals.

Negative ion ball

Possess excellent optical, magnetic, and electrical properties, with energy levels higher than other materials. In addition, it carries trace elements and minerals.

Specifications

Mineral Ball Filter Cartridge Specifications

Materials	Far-infrared mineralization ball, negative ion ball, energy ball, maifan stone, etc.
Height	10"
Outer Diameter	2"
Inlet/Outlet Size	1/4"
QTY	1 pc / plastic package, 25 pcs / carton
Carton Size	27 x 27 x 27 cm
Net Weight / Gross Weight	7 / 8 kg

Resin Filter Cartridge

Resin filter cartridge uses food-grade cation exchange resin material, specifically designed for water softening. It can effectively remove calcium and magnesium ions from water, reduce water hardness, prevent scale formation, protect household appliances and plumbing systems, and provide comfortable and soft domestic water. Resin filter cartridges are generally used in the second or third stage of filtration in water purification systems, combined with other filter cartridges (such as PP cotton filter cartridge, activated carbon filter cartridge). It is suitable for various water purification devices, meeting the needs of both household and commercial water use, making it an ideal choice for improving water quality.

Composition

The resin filter cartridge is filled with ion exchange resin internally. This resin is basically an insoluble matrix typically in the shape of small (1–2 mm diameter) beads. The material has highly developed structure of pores on the surface of which are sites with easily trapped and released ions. This process of rapping of ions happens with a simultaneous releasing of other ions resulting in the term ion-exchange.

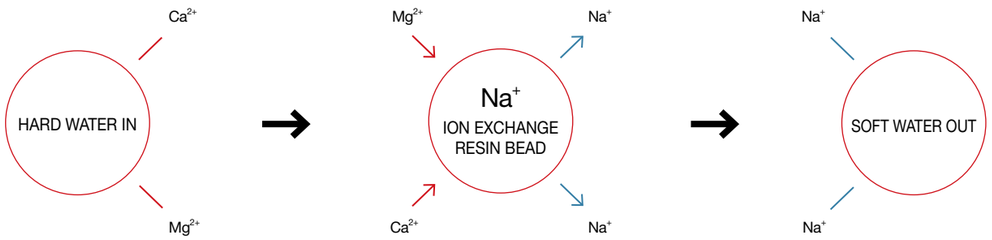
Water passes through the ion exchange resin charged with sodium (Na^+) ions. As hard water passes through the resin hardness ions (Ca^{2+} & Mg^{2+}) are physically exchanged with the sodium ions on the ion exchange resin.

Features

- **Efficient softening water quality.**
  It quickly removes calcium and magnesium ions from water, effectively prevents scale, and extends the lifespan of equipment.
- **Food-grade material.**
  Filled with high-quality food-grade cation exchange resin, it is suitable for drinking water treatment.
- **Renewable.**
  It ssupports brine regeneration treatment, allowing for multiple reuses, economical and environmentally friendly.
- **Strong compatibility.**
  Universal 10-inch standard size, compatible with various water purifiers, easy to install.
- **Durable design.**
  Plastic housing is high-pressure resistant and corrosion-resistant, ensuring stable performance over long-term use.
- **Regular replacement.**
  It is recommended to replace the filter cartridge every 6–12 months, depending on the water quality.

Principle

When water flows through the resin filter cartridge, it passes through the ion exchange resin inside the cartridge. These resin beads can exchange calcium and magnesium ions in the water for sodium ions, thereby effectively softening the water.



Specifications

Resin Filter Cartridge Specifications

Material	Ion Exchange Resin
Shell Material	PP
Shell Color	Transparent / White
Height	5" / 10"

Polyphosphate Cartridge

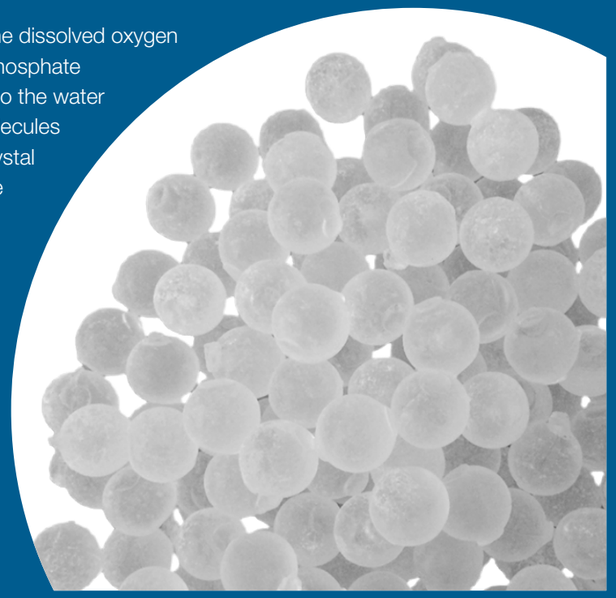
The polyphosphate cartridge is a filter cartridge specifically designed to prevent scale formation (anti-scaling cartridge). It releases trace amounts of polyphosphate to encapsulate calcium and magnesium ions in the water, preventing them from crystallizing into scale. This protects equipment pipelines, water heaters, boilers, etc., from scale damage and provides anti-corrosion benefits, significantly extending the equipment's service life.

Polyphosphate cartridges are typically installed as a pre-filter of water purification systems, such as a pre-filter of RO water purifiers, the water inlet of water heaters, and the water inlets of washing machines or dishwashers.

Composition

The filler in the polyphosphate anti-scaling cartridge is polyphosphate crystals. Polyphosphate is a polymer compound formed by the condensation reaction of phosphoric acid molecules, usually appearing as transparent or translucent granules or crystals.

When water flows through the filter cartridge, the dissolved oxygen in the water comes into contact with the polyphosphate crystals, and some polyphosphate dissolves into the water in ionic form. The dissolved polyphosphate molecules achieve an anti-scaling effect by altering the crystal structure of calcium and magnesium ions in the water, without reducing the content of calcium and magnesium ions.



Polyphosphate forms a protective film on the surface of metal pipes or equipment, isolating oxides from contacting the metal and preventing corrosion reactions.

Although polyphosphate is food-safe, its chemical components, once dissolved in water, are not suitable for long-term consumption.

Features

- **High-efficiency anti-scaling.**
  It inhibits the precipitation of calcium and magnesium ions by releasing trace amounts of polyphosphate, effectively reducing the formation of scale.
- **Safe and environmentally friendly.**
  Made from food-grade polyphosphate materials, it is non-toxic and harmless, meeting drinking water treatment standards.
- **Extended equipment lifespan.**
  It prevents blockages and corrosion issues caused by scale in heating equipment (such as water heaters) or pipelines.
- **Wide range of applications.**
  It comes in universal standard size and can be installed in pre-filters, water softeners, or other water treatment equipment.
- **Operating temperature.**
  It is suitable for cold and warm water systems (recommended not to exceed 75 °C), effectiveness may decrease at high temperatures.
- **Easy to install and maintain.**
  Cartridge lifespan is typically 6–12 months, modular design for easy replacement.

Specifications

Polyphosphate Cartridge Specifications

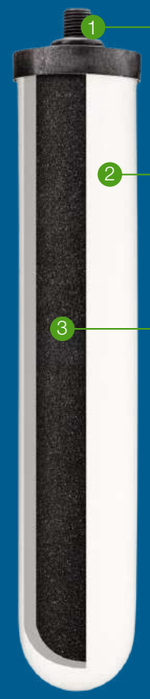
Material	Polyphosphate Crystals
Housing Material	AS
Housing Color	Transparent
Height	5" / 10"
QTY	20 pcs
N.W / G.W	19.5 / 20 kg
MEAS	37 x 30 x 26.5 cm

Ceramic Filter

The ceramic filter is a precision filtration component made from natural diatomaceous earth fired at high temperatures, with pore sizes typically ranging from 0.1–0.5 microns. It is internally filled with activated carbon material, and can effectively remove bacteria, sediment, suspended solids, and other contaminants from water, while retaining beneficial minerals.

Ceramic filters can be used in under-sink installations, other point of use applications, or as portable filters you can take on camping trips or elsewhere. The most common application for ceramic water filters is point of use drinking water. Because of its 0.5 micron filtration, simple upkeep, and low cost, a ceramic filter makes an excellent countertop or under-sink filter in households.

Structure



End cap
It plays the role of sealing and connecting.

Housing
Made from natural diatomaceous earth fired at high temperatures.

Activated carbon
Removes bacteria, sediment, suspended solids, and other contaminants from water while retaining beneficial minerals.

Features

- **High-efficiency physical filtration.**
  Precise microporous structure effectively removes bacteria, suspended solids, and particulate impurities, with a bacteria removal rate of up to 99.99%.
- **Economical and eco-friendly.**
  The filter surface is washable, supports repeated use, reduces replacement frequency, lowers usage costs, and complies with environmental protection concepts.
- **Safe and non-toxic.**
  The ceramic filter is made from natural materials, non-toxic and harmless, with no chemical additives, ensuring healthy water quality.
- **Retained minerals.**
  It does not alter the natural mineral content in the water, ensuring the health and natural taste of drinking water.
- **Strong compatibility.**
  The ceramic filter with universal standard size can fit various water purification devices, offering wide applicability and easy installation.
- **Durable and high temperature resistant.**
  Ceramic material has high strength, corrosion resistance, and high-temperature resistance, suitable for various environments.

Specifications

Ceramic Filter Specifications

Model	TC-10B	TC-10A	TC-10C
Head	Long end	Short end	Flat ends on both sides
Height	10"		
Inner Diameter	28 mm		
Outer Diameter	51 mm		
QTY	50 / 60 pcs		
N.W / G.W	15 / 16 kg		
MEAS	59 x 29 x 31.5 cm		

Quick Connect Inline Water Filter Cartridge

The quick connect inline water filter cartridge features a cylindrical and fully enclosed shell, distinct from traditional filter housings. It can be filled with various filter materials such as PP cotton filter cartridge, activated carbon, RO membrane filter cartridge, etc. The inlet and outlet connectors are designed with quick connect fittings, plug-and-play, making installation and replacement convenient. During replacement, the entire filter cartridge is discarded, preventing water contamination caused by filter pollution. It is commonly used in home RO water purifiers or commercial RO water purifiers, etc.

Features

- **Integrated compact design.**
  The filter cartridge and housing are combined into one unit. When replacing, the entire filter cartridge is discarded, preventing water contamination caused by filter pollution.
- **Easy and quick maintenance.**
  With a quick connect design, it is plug-and-play, allowing tool-free replacement. Recommended replacement time is 6–12 months.
- **Multiple filtration media.**
  The filter cartridge can be filled with various filter materials such as activated carbon and RO membrane filter cartridges, meeting the filtration needs of different water qualities.
- **Strong applicability.**
  Standard size port, commonly used in home water purifiers (such as countertop water purifiers, under-sink water purifiers) or commercial RO water purifiers, etc.

Specifications

Quick Connect Inline Water Filter Cartridge Specifications

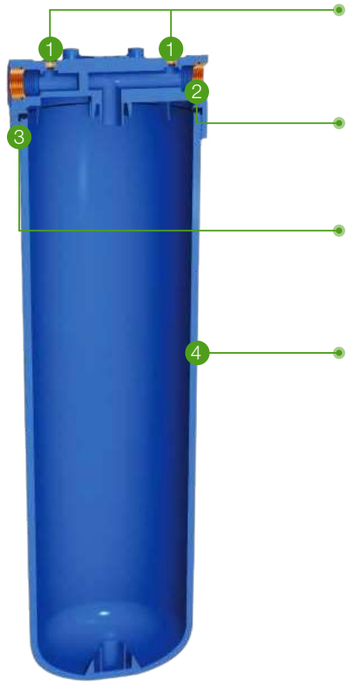
Materials	PPF / CTO / GAC / RO Membrane
Height	10"
Outer Diameter	2"
QTY	25 pcs
MEAS	32 x 32 x 29 cm

Pre-filter Housing

The pre-filter housing is a device designed to secure filter cartridges (such as PP cotton filter cartridges, activated carbon filter cartridges, etc.) . Its main function is to protect the filter cartridges and provide a sealed filtering environment as water flows through. Made from high-quality PP and AS materials, the filter housing offers advantages such as wear resistance, corrosion resistance, and long service life.

To meet different needs, the filter housing is available in various colors and specifications, including blue, big blue, transparent, and white. It can be used alone or in combination with multiple units connected in series, offering flexible compatibility with different types of filter cartridges. This makes it widely suitable for diverse water treatment requirements in both household and commercial applications.

Structure



Pressure relief valve
Releases pressure inside the housing for easy disassembly.

Threaded connector
Standard 1/4", 1/2", 3/4", 3/8", 1", 1.5" connectors.

O-ring
Solves the risk of leakage during operation.

Housing
Pressure-resistant, wear-resistant, and corrosion-resistant.

Features

- **Eco-friendly and durable.**
  Made of high-quality PP and AS materials, it is eco-friendly, non-toxic, wear-resistant, and corrosion-resistant.
- **Multiple specifications available.**
  Blue, white, and transparent filter housings are available in 10-inch and 20-inch sizes.
- **Visual design.**
  The transparent filter housing design allows for easy observation of the filter cartridge's condition, facilitating timely replacement.
- **High-strength sealing.**
  The filter housing is equipped with a high-quality O-ring seal to ensure no risk of leakage during operation.
- **Strong compatibility.**
  Compatible with various filter cartridges (PP cotton, activated carbon, ultrafiltration membrane, resin filter cartridges, etc.), with a wide range of applications.
- **Convenient installation and maintenance.**
  Standard size threaded connector allows for installation and removal of the filter cartridge without the need for professional tools.

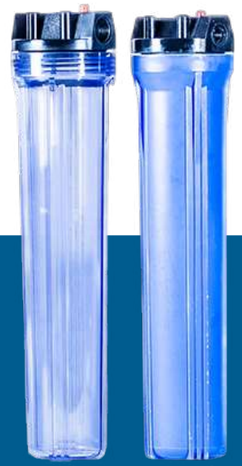
Specifications

10" Pre-filter Housing

- Height: 10"
- Diameter: 2.5"
- Threaded connector: 1/4", 1/2", 3/4", 3/8"

10" Big Blue Filter Housing

- Height: 10 "
- Diameter: 4.5"
- Threaded connector: 3/4", 1", 1.5"



20" Blue Pre-filter Housing

- Height: 20 "
- Diameter: 2.5"
- Threaded connector: 1/2", 3/4", 1"

20" Big Blue Filter Housing

- Height: 20 "
- Diameter: 4.5"
- Threaded connector: 3/4", 1", 1.5"

RO Membrane Housing

The RO membrane housing is an important component in reverse osmosis water purification systems, primarily used to secure and protect the RO membrane filter element, ensuring its stable operation under high-pressure conditions. The housing design includes an inlet, a pure water outlet, and a concentrated water outlet, providing separate flow paths for raw water, purified water, and concentrated water to prevent water pollution.
The RO membrane housing comes in a full range of specifications, compatible with different sizes of RO membrane filter elements (such as 50–800 G), suitable for various specifications of home RO water purifiers and commercial RO water purifiers, among others.

Structure

1 Water inlet
It connects to a high-pressure water source, with common connector specifications including 1/4" or 3/8" quick-connect and threaded connectors.

2 Housing end cap
It seals and protect the filter cartridge.

3 Brine seal
It ensures that water flows through the RO membrane filter cartridge according to the designed path.

RO membrane
It is used to remove heavy metals, bacteria, viruses, and other small pollutants and harmful substances from water.

5 Membrane housing
Made of high-quality plastic material, it ensures long-lasting durability.

6 O-ring
It ensures a tight seal in the water system to prevent water leakage under high-pressure conditions.

7 Membrane housing inner annulus
It secures the RO membrane filter element.

8 Pure water outlet
Drinkable pure water flows out from this outlet.

9 Wastewater outlet
Filtered wastewater is discharged from this outlet.

Features

- **High strength and pressure resistance.**
  Made of high-quality PP material, it can withstand high working pressure.
- **Good sealing performance.**
  Built-in high-quality O-ring effectively prevents leakage and ensures filtration efficiency.
- **Multi-specification compatibility.**
  It provides standard sizes (such as 1812, 3012, etc.) to fit different types of RO membranes.
- **Strong corrosion resistance.**
  It offers excellent chemical corrosion and aging resistance, and is suitable for different water quality environments.
- **Convenient installation and maintenance.**
  The connector is designed for quick connection or threading, making it easy to install, disassemble, and clean.

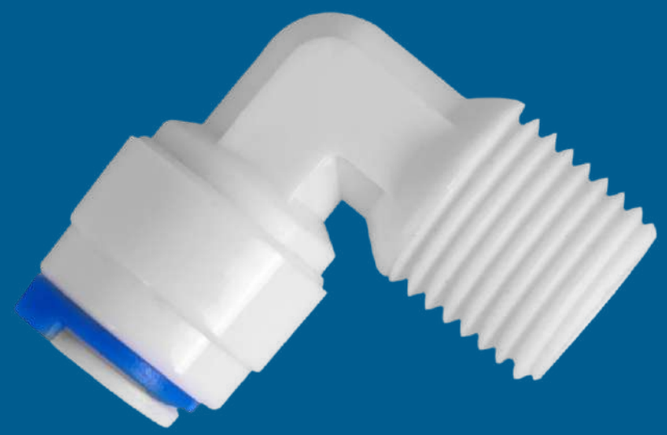
Specifications

RO Membrane Housing Specifications

Model	1812 / 2012	3012	3013
Flow rate	50 – 200 G	200 – 400 G	400 – 800 G
Connector	1/4"	1/4" / 3/8"	3/8"
Housing material	PP		

Water Purifier Connector

Water purifier connector is a key component that connects various water purification equipment and water supply systems. It plays a vital role in transporting water, ensuring sealing, and maintaining stability. Its design prioritizes ease of installation, durability, and leak-proof performance to adapt to various water treatment equipment and working places. The connectors come in a diverse specifications to meet different pressure, temperature, and water quality conditions, ensuring the proper operation of water purification systems.



Features

- **Superior sealing performance.**
  The connector is designed with excellent sealing capabilities, effectively preventing leaks or seepage, ensuring stable system operation. The use of locking clips further enhances sealing performance.
- **Long service life.**
  The connectors are made of high-quality plastic materials, offering wear resistance, corrosion resistance, and oxidation resistance, suitable for long-term use and well-adapted to high-pressure environments.
- **Easy installation and maintenance.**
  Quick-connect and threaded connectors can be installed quickly without complex tools, making it convenient for users to operate in a home environment.
- **Strong compatibility.**
  The connectors are of standard universal size, compatible with various water purification equipment and piping systems. Additionally, the connectors support multi-angle and multi-directional installation, meeting the needs of complex pipeline arrangements.

L-type Water Purifier Connector

The L-type water purifier connector is a 90° elbow fitting designed to change the direction of the pipeline. It is commonly used in confined spaces within water purifiers or in places requiring angled connections (such as the connection between the filter cartridge and the pipeline). Its unique design allows for a 90-degree turn during installation, reducing the complexity of the piping system and saving space.

L-type Threaded-Quick Connect Water Purifier Connector Specifications

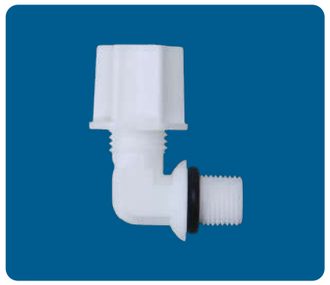
Model	Tube	Thread
KJ-01A	1/4"	1/8"
KJ-01B	1/4"	1/4"
KJ-01C	1/4"	3/8"

L-type Quick Connect Water Purifier Connector Specifications

Model	Tube	Tube
KJ-01D	1/4"	1/4"

L-type Plug-in Quick Connect Water Purifier Connector Specifications

Model	Tube	Insert
KJ-07A	1/4"	1/4"



Threaded Water Purifier Connector Specifications

Model	Tube	Thread (ring)
NL-01A	1/4"	1/8"
NL-01B	1/4"	1/4"
NL-01C	1/4"	3/8"

Quick Connect Water Purifier Check Valve Specifications

Model	Tube	Tube
NZ-01A	1/4"	1/4"

Threaded Quick Connect Water Purifier Check Valve Specifications

Model	Tube	Thread
NZ-02A	1/4"	1/8"

Straight Water Purifier Connector

The straight water purifier connector is the most basic and common type of connector, with ports located at both ends, used for connecting two sections of water pipes in a straight line, or directly connecting the inlet and outlet of equipment to the pipeline. Known for its simplicity, versatility, and durability, it is widely used in various water purification equipment and water treatment systems.

Quick Connect Straight Water Purifier Connector

Specifications

Model	Tube	Tube
KJ-02A	1/4"	1/4"

Female Thread Quick Connect Straight Water Purifier Connector

Specifications

Model	Tube	Thread
KJ-05A	1/4"	1/2"

Plug-in Quick Connect Straight Water Purifier Connector

Specifications

Model	Tube	Insert
KJ-08A	1/4"	1/4"

Male Thread Straight Water Purifier Connector

Specifications

Model	Thread (ring)	Thread (ring)
NL-03A	1/4"	1/4"

Straight Water Purifier Check Valve

Specifications

Model	Tube	Tube
NZ-03A	1/4"	1/4"

Threaded Straight Water Purifier Connector

Specifications

Model	Thread	Thread (ring)
NL-03B	1/4"	1/4"

Quick Connect Water Purifier Wastewater Flow Restrictor

Specifications

Model	Tube	Tube
FS-01A	1/4"	1/4"

Threaded Water Purifier Wastewater Flow Restrictor

Specifications

Model	Thread	Thread
FS-01B	1/4"	1/4"

T-type Water Purifier Connector

The T-type water purifier connector is a special connector with three ports, designed for splitting, merging, or multi-directional connections of water pipes. It is suitable for places requiring multiple water flow directions, such as branching pure water and raw water pipelines, connecting wastewater outlets, or linking booster pump pipelines, etc. It is widely used in the pipeline layout of water purification equipment.

Threaded T-type Water Purifier Connector Specifications

Model	Tube	Tube	Thread
KJ-03A	1/4"	1/4"	1/4"

Quick Connect T-type Water Purifier Connector Specifications

Model	Tube	Thread	Tube
KJ-03B	1/4"	1/4"	1/4"

T-type Water Purifier Connector Specifications

Model	Tube	Tube	Tube
KJ-03C	1/4"	1/4"	1/4"

Y-type Water Purifier Connector Specifications

Model	Tube	Tube	Tube
KJ-04D	1/4"	1/4"	1/4"

Plug-in T-type Water Purifier Connector Specifications

Model	Tube	Tube	Insert
KJ-06A	1/4"	1/4"	1/4"

Female Thread T-type Water Purifier Connector Specifications

Model	Thread	Thread	Thread
NL-04C	1/4"	1/4"	1/4"

Water Purifier Valve

The water purifier valve is a key component used to control the flow, direction, and pressure of water, playing the role of switching, regulating, and protecting in the water purification systems. By using valves, it is possible to shut off, switch, discharge, or restrict water flow, ensuring the safe operation and convenient management of water purification equipment.

Side T Water Purifier Ball Valve

Specifications

Model	Tube	Thread
KJ-09A	1/4"	1/4"

Straight-through Water Purifier Ball Valve

Specifications

Model	Tube	Tube
KJ-10A	1/4"	1/4"

Water Purifier Switch

The water purifier pressure switch, including high and low-pressure switches, is a common electrical component in water purifiers. It is mainly used to monitor pressure changes in the water circuit and control the booster pump or cut off the circuit based on actual conditions, ensuring the safety and stable operation of the system. The high-pressure switch is typically directly related to the pressure state of the water storage tank, while the low-pressure switch is often used in cases of insufficient water intake, interrupted water source, or abnormal inlet water pressure.

Quick-Connect High-Pressure Switch for Water Purifier

Specifications

Model	Tube	Tube	Adjustable Pressure Range
GY-01A	1/4"	1/4"	2.0–4.5 kg

Quick-Connect High-Pressure Switch for Water Purifier

Specifications

Model	Thread	Thread	Adjustable Pressure Range
GY-01B	1/4"	1/4"	2.0–4.5 kg

Quick-Connect Low-Pressure Switch for Water Purifier

Specifications

Model	Tube	Starting Pressure
DY-01A	1/4"	≥ 0.2 kg

Quick-Connect Low-Pressure Switch for Water Purifier

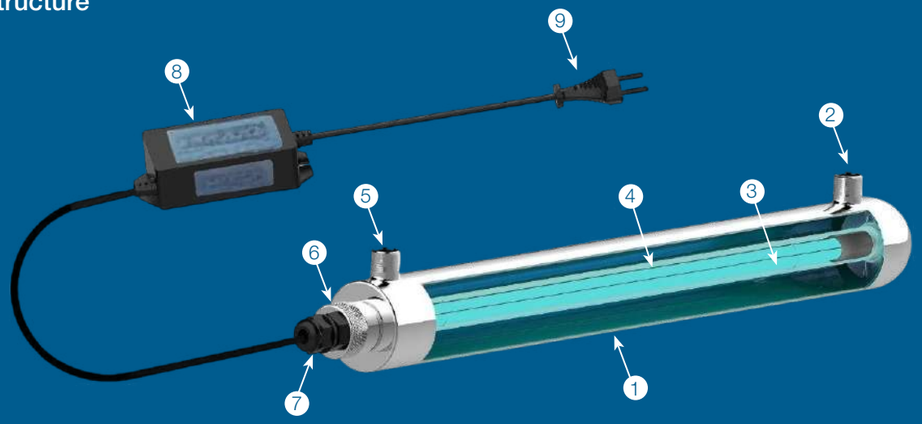
Specifications

Model	Thread	Starting Pressure
DY-01B	1/4"	≥ 0.2 kg

UV Sterilizer

The UV sterilizer uses shortwave ultraviolet light to disrupt the DNA or RNA of microorganisms in water, thereby preventing their reproduction and ability to infect. This effectively kills bacteria, viruses, and microorganisms in the water. In water purifiers, it is typically employed as the final treatment step to ensure that the water quality meets safety standards. It is particularly effective at eliminating bacteria and viruses that cannot be completely removed by filtration systems. Unlike traditional chemical disinfection methods, UV sterilization avoids harmful side effects, making it an eco-friendly and sustainable disinfection solution.

Structure



1 Stainless steel chamber
Wear-resistant and corrosion-resistant.

2 Outlet
The disinfected water flows out from here

3 UV lamp
It is used to disrupt the DNA structure of bacteria, viruses, and microorganisms to achieve sterilization.

4 Quartz tube
It prevents water from directly contacting the lamp while maintaining high ultraviolet transmittance.

5 Inlet
Water that has not been disinfected enters from here.

6 Nut
It secures connector.

7 Connector
It connects the sterilizer to the circuit.

8 Ballast
It adjusts the voltage and current of the lamp to ensure stable operation of the UV lamp.

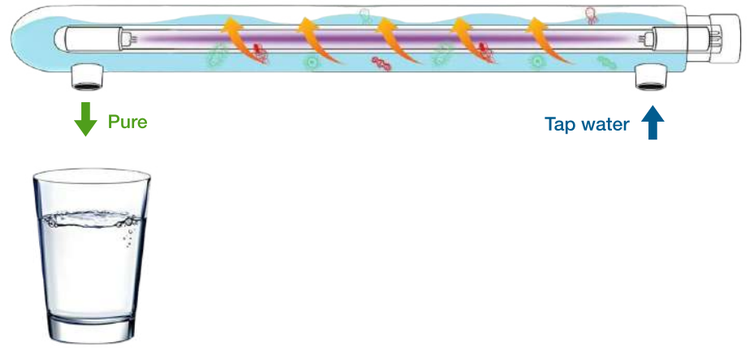
9 Plug
It connects to the power supply.

Features

- **Efficient sterilization.**
  It eliminates more than 99.99% of bacteria and viruses in a short time.
- **Environmentally friendly.**
  No chemical additives, no by-products, and no pollution.
- **Easy to operate.**
  Easy installation and maintenance, compatible with other water purification systems.
- **High safety.**
  The range of ultraviolet action is limited to the interior of the equipment, posing no harm to users.
- **Low cost.**
  Long-term operating costs are relatively low, mainly involving the replacement of UV lamps.

Principle

The core principle of the UV sterilizer is the photolysis effect of ultraviolet light. When water containing microorganisms passes through the device, the ultraviolet light emitted by the UV lamp penetrates the cell membranes of the microorganisms, disrupting their DNA or RNA chains, thereby rendering the microorganisms incapable of reproduction and infection. Water treated with UV disinfection can meet the hygiene standards for drinking water.



Type

UV-01 UV Sterilizer
Power: 6 W

UV-02 UV Sterilizer
Power: 8 W

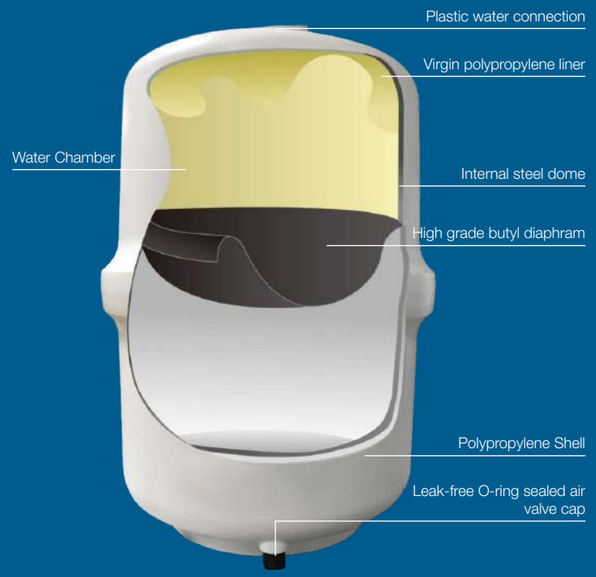
UV-03 UV Sterilizer
Power: 12 W

Pressure Water Tank

The pressure water tank is equipped with an internal air bag, which is separated from the water chamber. By balancing air pressure and water pressure, the storage tank can provide consistent and stable pressure for water output, preventing poor water usage experiences due to insufficient water pressure.

When the water purifier is operating, purified water is pressed into the tank and stored; When using water, the air pressure inside the tank pushes the water out, ensuring that users can obtain a continuous and stable water flow to meet the demands during peak demand periods. It is an indispensable component of the RO water purifier, providing users with a convenient water usage experience.

Structure



- **Water storage process**
  When the water purifier is producing water, purified water enters the storage tank, the volume of the water chamber gradually increases, the air in the air chamber is compressed, and the pressure in the air chamber increases.

- **Water supply process**
  When the user opens the faucet to use water, the water pressure inside the storage tank decreases, and the air pressure within the tank pushes the water from the water chamber through the outlet, delivering a steady water flow to the water consuming point.

- **Pressure balance**
  When the air pressure drops to a certain level, the water purifier resumes water production to replenish the tank.

Features

- **Stable water supply.**
  It provides a continuous and stable water flow, preventing supply interruptions due to slow water production.
- **Energy-efficient.**
  It provides water flow through internal pressure without the need for additional power support, reducing energy consumption.
- **Good sealing.**
  Made of high-quality materials, it prevents secondary water pollution.
- **Strong durability.**
  It offers excellent corrosion resistance and a long service life.
- **Multiple specifications available.**
  Various water storage capacities are available to meet both household and commercial needs.

Specifications

TANK-S3.2
Pressure Water Tank

Size: 23.6 × 23.6 × 33.5 cm

FTANK-S3.2
Pressure Water Tank

Size: 28.3 × 28.3 × 35.7 cm

TANK-G11
Pressure Water Tank

Size: 39 × 39 × 61 cm

Other Components

The collaborative cooperation of water purifier components builds an efficient and stable water treatment system. Each component plays an indispensable role in the RO system. From the initial filtration of the pre-filter cartridge, to the necessary water pressure provided by the booster pump, to the deep purification by the RO membrane, and the water storage function of the storage tank, all components work closely together. They remove impurities from water, deliver high-quality purified water, and maintain long-term stable operation to meet diverse water needs for both household and commercial applications.

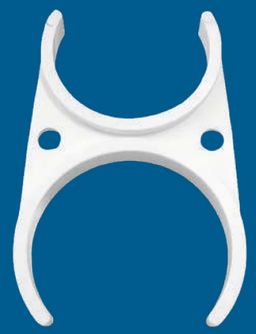
Booster Pump

TDS Meter

Transformer

Faucet

Pressure Gauge



RO Water Filter Clamp

Booster Pump

In an RO system, a booster pump is a small electric pump used to increase the water pressure entering the RO membrane. It typically works in conjunction with a solenoid valve and a pressure switch, automatically activating in cases of low water pressure or high water demand to provide stable pressure output for the system. The use of a booster pump not only improves the water production speed and output quality of the RO water purifier but also extends the lifespan of the RO membrane.

PUMP-03 Booster Pump

Gallon: 50 / 75 / 100 / 200 / 400 / 800 G

Transformer

The transformer is responsible for converting high-voltage AC power into low-voltage AC or DC suitable for the system's operation, supplying power to components such as the booster pump, solenoid valve, and control panel. It not only delivers stable voltage but also serves as a safety measure by isolating high voltage electricity. Depending on the system's requirements, the output power and voltage of the transformer may vary.

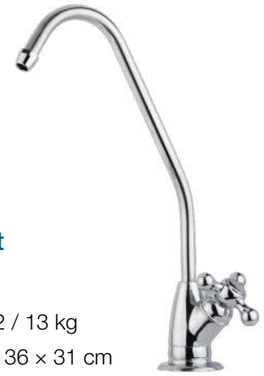
DY-01 Transformer

Power: 25 W

Voltage: 220V

Faucet

The faucet is an important terminal component in a water purification system, allowing users to directly access purified water. It connects to the purified water outlet pipe, delivering multi-stage filtered pure water to the user. Compared to standard faucets, those used in water purification systems are designed with a greater emphasis on water quality safety, user convenience, and durability. They are typically made from food-grade materials to prevent secondary contamination.



LT-01 Faucet

- QTY: 50 PCS
- N.W / G.W: 12 / 13 kg
- MEAS: 66.5 × 36 × 31 cm

LT-02 Faucet

- QTY: 50 PCS
- N.W / G.W: 12 / 13 kg
- MEAS: 66.5 × 36 × 31 cm

LT-03 Faucet

- QTY: 50 PCS
- N.W / G.W: 12 / 13 kg
- MEAS: 66.5 × 36 × 31 cm

LT-04 Faucet

- QTY: 50 PCS
- N.W / G.W: 12 / 13 kg
- MEAS: 66.5 × 36 × 31 cm

LT-05 Faucet

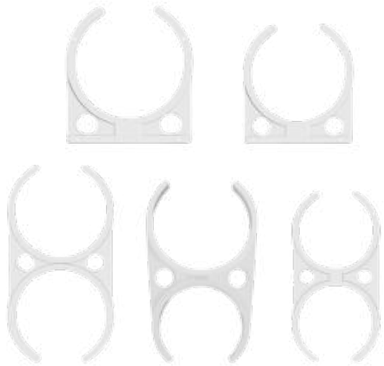
- QTY: 50 PCS
- N.W / G.W: 16 / 17 kg
- MEAS: 66.5 × 36 × 31 cm

LT-06 Faucet

- QTY: 50 PCS
- N.W / G.W: 17 / 18 kg
- MEAS: 66.5 × 36 × 31 cm

RO Water Filter Clamp

The RO water filter clamp is a small component used to secure filter cartridges. It is made of durable, corrosion-resistant materials and can adapt to humid environments and high water pressure conditions. Clamps come in different specifications such as single and double clamps, and can be selected based on the type and size of the filter cartridge.



TDS Meter

TDS represents the total amount of all inorganic salts and a small quantity of organic matter dissolved in water, typically measured in ppm (parts per million). It reflects the concentration of dissolved solids such as minerals, salts, heavy metals, and chlorides in the water, and is a key parameter for assessing water purification effectiveness and monitoring filter cartridge performance, directly impacting the purity and safety of the output water.

TDS-01 TDS Meter

TDS-02 TDS Meter

Pressure Gauge

A pressure gauge is an instrument used to measure and display the pressure within a water pipeline. It is typically installed at the outlet of the booster pump, before the RO membrane, or in front of the storage tank in an RO system. With the pressure gauge, users can monitor the water flow pressure in real-time, ensuring the system operates within the optimal pressure range.

Snowate

High Quality Water Purification Starts Here

WeChat

WhatsApp

https://www.linkedin.com/company/snowate/

https://twitter.com/Snowate2021

https://www.facebook.com/snowate2021/

https://www.youtube.com/@SnowateEnvironmentalTechnology

https://www.pinterest.com/snowatewatertreatment/

Hengshui Snowate Environmental Technology Co., Ltd.

Mobile: +86-15030811699 (WhatsApp & WeChat)

E-mail: snow@snowate.com

Address: Room 1011, 10th floor, Building 1, Huizhong guangchang, No. 285 Renmin Road, Taocheng District, Hengshui City, Hebei province, China.