

As tap water or town water contains limescale, chemicals, and other contaminants, a Water Filtration System is required to meet the water quality standards required to supply the Autoclave Sterilizers and other Medical Steam Sterilizers.



For Dental Clinics and Hospitals looking for a Water Treatment Solution for their Autoclave Sterilization Equipment.

5 YEARS WARRANTY



Components are Laboratory Tested and Certified for Material Safety.

MAINTENANCE
Replacement frequency also depends on water quality and usage. Filters should also be changed when rated capacity is reached, or when flow becomes too slow.

Zero TDS Reverse Osmosis Water Filtration System

For Autoclave Sterilization Equipment

Assembled with Components Made in USA, UK and Taiwan.

REDUCTION CLAIM

Particles (Sediments, Sand, Silt & Dirt)	✓
Free Chlorine, Combined Chlorine & Chloramines	✓
Pesticides & Herbicides	✓
Volatile Organic Compounds (VOCs) & THMs	✓
Taste, Odours & Colour	✓
Heavy Metals (Copper, Arsenic, Mercury, Lead...)	✓
Parasites	✓
Fluorides	✓
Nitrates, Antibiotics, Endotoxins, Microcystins	✓
BPA & PFAs	✓
Silica & Hardness (Calcium & Magnesium)	✓

The tank fills up with water coming from the membrane at a flow rate of 16 L/h. This tank allows you to have up to 150 litres of water instantly* dependant on tank capacity.

**System includes a 18 Litre Reverse Osmosis Tank, which holds 12 Litres.
18 L Tank Dimensions: 279 D x 368 H mm**



**If a bigger tank capacity is required, you can upgrade your 18 L Tank to a 60 L Tank.
60 L Tank Dimensions: 389 D x 626 H mm**

6 FILTRATION STAGES

1st Stage: Sediment Filter. 100% Polypropylene Triple Gradient Sediment Filter. Captures sand, dirt, rust, algae, silt, mud and particles greater than 1 micron. Tested and Certified by NSF International under NSF/ANSI Standard 42 for material requirements only. **(Replace every 12 months)***

2nd & 3rd Stage: Drop In and Inline Carbon Filter. Coconut Shell Activated Carbon Media. Removes Chlorine Taste and Odour, and VOCs. Protects the membrane from Chlorine and Ammonia which can damage the membrane. Removes THMs, TCEs, Pesticides, Disinfectants and other Organic Pollutants. Tested and Certified by NSF International under NSF/ANSI Standard 42 for material requirements only. **(Replace every 12 months)***

4th Stage: Reverse Osmosis Membrane. USA Made Dupont Filmtec Reverse Osmosis Ultrafine Membrane. Removes ions, heavy metals, endotoxins, microcystins. The pore size is less than 0.0005 micron (human hair is 70 microns). Certified by NSF International against NSF/ANSI Standard 58 for material requirements only for safe use in drinking water applications. **(Replace every 2 years)***

5th & 6th Stage: Drop In and Inline DI Resin Filter. For TDS reduction. Lowers Conductivity. De-ionizing resin to reduce the amount of dissolved salts and minerals in your water. **(Replace every 12 months)***

If your water pressure is under 35 psi, you may be required to fit a booster pump for optimum performance of the system.

Never install or operate where the inlet water pressure may exceed 120 psi (827kPa).

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

SPECIFICATIONS

Dimensions: 480 H x 360 W x 200 D mm
Min. Operating Pressure: 35 - 80 psi
Min. Operating Temperature: 0.6 °C - 38 °C
Connects To: Cold Water Line
Membrane Flow Rate: 16 L/h
System Outflow Rate: 3 L/Min - Out of the Tank

WARNING
Failure to follow specifications and maintenance procedure may result in water leakage and will void warranty.

CAUTION
- System is for cold water use only. Install on COLD water lines only.
- Protect from freezing. Remove filter if temperature drop below 1°C.



Polypropylene Sediment Cartridges

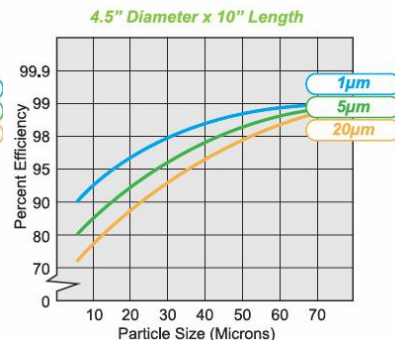
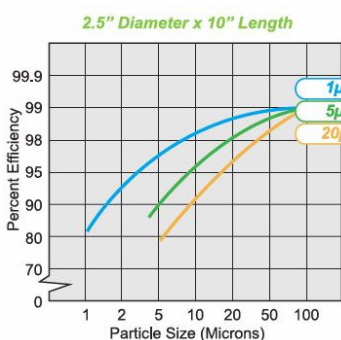
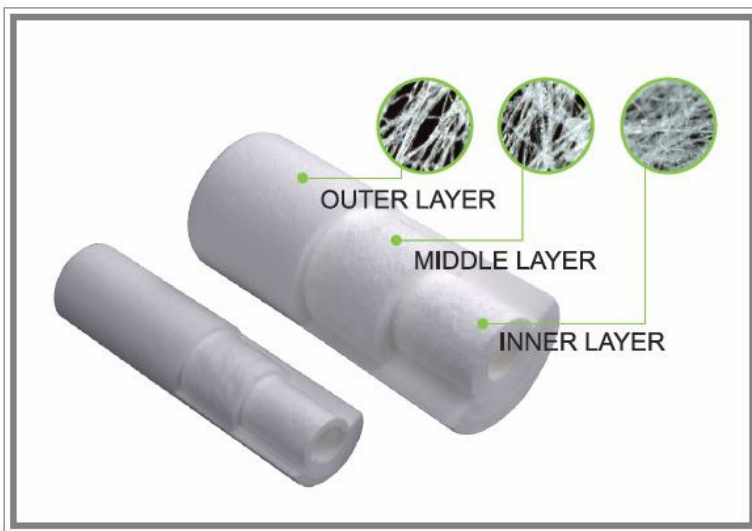
Sediment filters are used as a primary filter to help to remove dirt, rust and sediment deposits, from water to help prevent or slow down the blockage of the secondary carbon filter.

Sediment filters range from less than 1 micron to about 70 microns but the most typically used are 5, 10, 20, 25, 30, 50. They would typically be used in a sequence with the biggest "pore" size or micron size being the first one the water goes through and the smallest the last.

AWC recommends sediment filter made from Polypropylene which is resistant to the growth of bacteria. They typically come in four sizes which are 9", 10" and 20" tall and 2.5" and 4.5" radius. They are typically referred to as either Slim Line or Big Blue.

Features & Benefits

- Three-layers structure cartridge, high contaminant holding capacity, long filter service life.
- 100%PP for compatibility with a wide range of process fluids.
- Micro-Denier melt-blown fiber, high removal ratings.
- Formed by thermal bond without use of any binders and adhesives
- Certificated by NSF42 and FDA CFR Title 21.



Model No.	FPP-LL-WX-ZZZ
Micron Rating	1,3,5,10,25,50,75,100 Micron
Material of Construction	100% melt-blown micron-denier PP fibre
Length	9", 10", 20", 30", 40" (251mm, 254mm, 508mm, 762mm, 1016mm)
Inner Diameter	28mm
Outer Diameter	2.5", 4.5" (63mm, 110mm)



Activated Carbon Block Filter Cartridges

Activated carbon filters are particularly effective at removing pollutants which create unpleasant taste, colour, and odour in water. These fast-acting filters can eliminate or reduce the levels of chlorine by-products, pesticides, herbicides, and other organic and industrial chemicals.

There are two forms of carbon in general use: granular and block. A Granular Carbon filter contains Carbon granules of carbon about the size of coarse sand while carbon block consists of finely powdered carbon compressed into a solid mass. Typically carbon filters are 5 micron but can be different.

To get the best use from any carbon filter, it should be kept free of sediment and heavy organic impurities if these are present in your water. Typically an inexpensive sediment filter used as a "pre filter" would be installed prior to the carbon unit to extend the life of the more expensive carbon cartridge.

Be aware that there are many cheap carbon filters on the market that originate from Asian countries where the carbon has been sourced from coal rather than coconut which give off dangerous carcinogens.

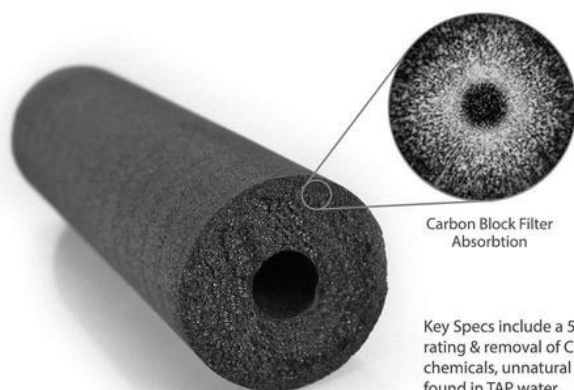
AWC only uses quality carbon sourced from activated coconut shell that has been washed numerous times.

Features & Benefits

- Quality assured carbon block cartridges
- No carbon fines and superior contaminant capacity.
- Enhanced dirt holding capacity for extended cartridge life.
- Reduces chlorine, bad taste and odour.
- Formed by thermal bond without use of any binders and adhesives
- Certificated by NSF42 and FDA CFR Title 21.



Filtration Process

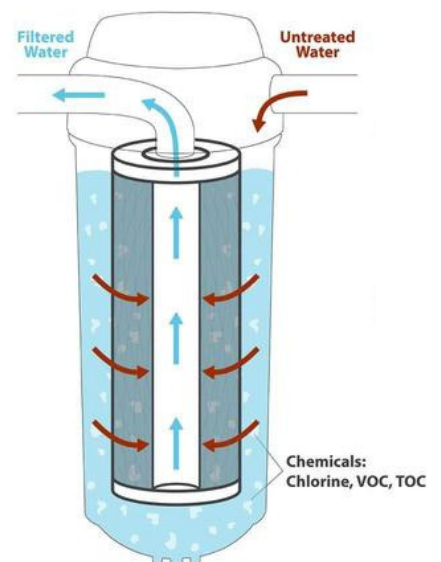


Carbon Block Filter Absorption

Key Specs include a 5 µm micron rating & removal of Chlorine, organochemicals, unnatural tastes and odours found in TAP water.

Structure of the Carbon Block Filter

The Carbon Filters are made of fine COCONUT SHELL carbon that offers a much finer filtration of suspended particles, chemicals, & dirt.





Alkahydrate Filter Cartridge

Alkalisng & Mineralising Water Filter

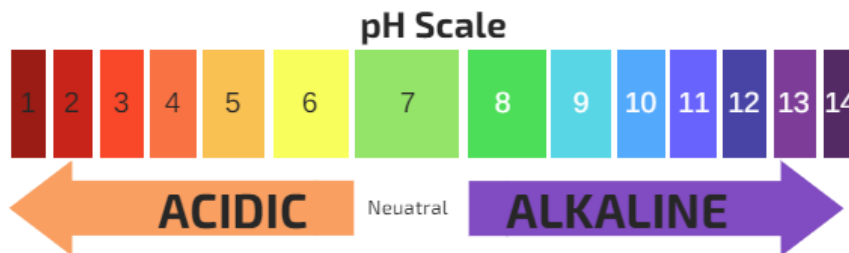


A healthy addition to your Water filter

The Aussie Water Coolers ALKAHYDRATE filter will provide you with enhanced water that is energised & mineralised. It raises the pH levels as well as producing antioxidant & oxygenating qualities. The filter also emits far-infrared rays which result in shorter cluster chains in the water molecules-increasing the bio-available response & oxygen absorption in the body.

Benefits of Drinking Alkalisng Water

- **Promotes better hydration:** Alkaline water has smaller molecular content making it easier for the body to absorb. The body can be hydrated more effectively by drinking alkaline water instead of everyday tap water.
- **Alkaline Water is an antioxidant:** Antioxidants help protect our bodies from free radicals that can cause various health problems. by drinking alkaline water you can help protect your body from diseases that can cause serious health issues.
- **Effectively balances the pH levels of the body:** Alkaline water helps by neutralizing the acid levels in the body. Although it works best as a preventive measure, those who already have an illness or disease can still drink alkaline water to speed up or at the very least assist the recovery process
- **Detox the Body:** A primary benefit of drinking alkaline water is its ability to wash away toxins that cause disease and illness. Drinking plenty of water is vital to good health
- **Boost the immune system:** Keeping our bodies in a more alkaline state will boost the immune system. This is a natural effect of neutralizing the free radicals and helping to cleanse the body of toxins.
- **Lose Weight:** Due to today's poor diets that consist of a lot of junk food, our bodies create more fat cells to neutralise the acid. This inevitably results in unwanted weight gain. Alkalisng water neutralises the acids in the body removing the need for our bodies to create the extra fat cells. Alkalisng water helps in weight loss because fat storage is reduced



Raise pH

The filter uses a series of different medias to effectively raise the pH level of your drinking water. Drinking alkaline water helps our body dissolve acid wastes - therefore making it easier for the body to dispose of them naturally. Since the accumulation of acid wastes is aging, the reduction of acid wastes is anti-aging!









Alkahydrate Filter Cartridge

Alkalising & Mineralising Water Filter

Add Ionic Organic Natural Materials

Introducing natural minerals such as Calcium, Magnesium, Potassium and more. These ionic minerals are absorbed by the body to improve strength and function of body processes.

					
<p>ORP Ceramic Ball</p> <p>Increase pH Anti-bacterium Increase Minerals</p>	<p>Mineralising Stones</p> <p>Increase pH Increase Minerals</p>	<p>Tourmaline Ceramic Balls</p> <p>Increase pH Anti-bacterium</p>	<p>Alkaline Ceramic Balls</p> <p>Increase pH Anti-bacterium Increase Minerals</p>	<p>Far Infrared Ceramic Balls</p> <p>Reduce cluster molecule size</p>	<p>Granular Magnesium</p> <p>Increase pH Increase Magnesium</p>

Lowers ORP

Far-infrared rays emitted by the filter media result in structurally smaller clusters of water molecules, making it easier for your body to absorb meaning you can stay better hydrated. The AlkaHydrate filter significantly increases the negative ORP (Oxygen Reduction Potential) enabling it to decrease the oxidation of substances or cells thus serving as a potent anti-oxidant.

What is ORP?

ORP – Oxidation Reduction Potential - is the ability of water or any other media to oxidise (or more importantly – decrease the oxidation) of another substance or body. For example - air, with a positive ORP will oxidise metal thus causing corrosion or rust. Essentially, any substance that oxidises, disintegrates. Water with a negative ORP has the ability to decrease oxidation hence prolonging the life of a substance or in this case our physiology.

“Just about every condition I can think of, from arthritis to diabetes, to cancer - is associated with acidity.”

-Dr Robert Atkins

Reverse Osmosis System with Alkaline filter



Twin Under Sink with Alkaline filter attached as a third filter

Portable bench top Reverse Osmosis with Alkaline filter

