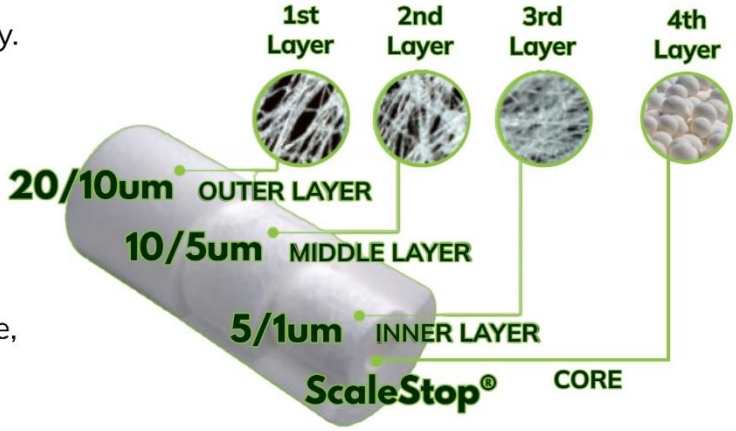
# ScaleStop®

# SEDIMENT FILTER

## Unique 4-in-1 Technology

**Triple Gradient Multi-Density Depth Filter**
**+ Integrated ScaleStop® Technology**


✓High Contaminant Holding Capacity.
✓Micro-Denier melt-blown filtration fiber, high removal ratings.
**✓Certified to NSF42 and FDA CFR Title 21.**
✓ ScaleStop® Filtration Media in the core.
✓ Advanced Anti-Scale Technology
✓ Removes dirt, sand, silt, mud, algae, rust, clay, dust and particles greater than 1 and 5 microns.




## Advanced Anti-Scale Technology

The AquaCo® ScaleStop® Sediment Filter Cartridge is Australia's first whole-house sediment filter cartridge to integrate Advanced Anti-Scale Technology with Triple Gradient Filtration in one compact system. It prevents the formation of hard mineral scale—such as calcium and magnesium carbonate—by stabilizing the minerals at a molecular level. This ensures they remain suspended in the water and do not crystallize into scale deposits that damage pipes, fixtures, appliances, and filtration systems.

## Super-Seal Cap

✓ Super-Seal Cap is more resistant to wear and tear, chemical degradation, and provides a more secure and tighter seal compared to compresion only sediment filters.


NSF COMPONENTS

Water Quality ASSOCIATION

GlobalGROUP ISO 9001:2008

UKAS QUALITY MANAGEMENT 039

**1** **Super-Seal Cap**
Ensures the water remains clean and safe to drink.

**2** **100% Virgin Polypropylene**
Compatibility with a wide range of chemicals and process fluids.

**3** **Longer Filter Life**
Prevent clogging of the finer layers by trapping larger particles first.

**4** **Enhanced Filtration Efficieny**
Multiple layers with varying pore sizes.

**5** **Improved Water Quality**
The thorough filtration process results in cleaner water.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## Triple Density Gradient Technology

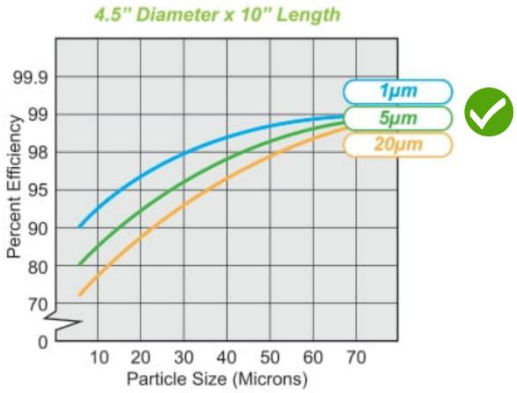
✓ **Consistent Flow Rates:** The design of these filters ensures consistent flow rates throughout their lifespan. The gradual reduction in pore size helps maintain pressure and flow, even as the filter becomes loaded with contaminants.

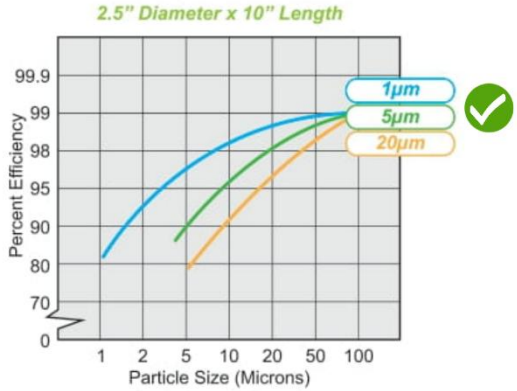
✓ **Improved Dirt Holding Capacity:** The graduated pore structure allows for a higher dirt holding capacity, meaning these filters can trap more contaminants before requiring replacement. This results in longer service intervals and lower maintenance costs.

✓ **Layered Filtration Efficiency:** These filters are designed with three distinct layers of filtration, each targeting different particle sizes. The outer layer captures larger debris, the middle layer handles medium-sized particles, and the innermost layer captures fine sediments. This multi-layered approach ensures comprehensive filtration, reducing the load on each layer and prolonging the filter's lifespan.

✓ **Versatility and Application Range:** These filters are suitable for a wide range of applications, from residential water systems to industrial processes. Their ability to handle varying particle sizes makes them ideal for diverse environments.

✓ **Super-Seal Cap:** Nipples are designed to allow a better flow rate through the filter system, enhancing the overall efficiency and effectiveness of the water filtration process.




## Pleated or String Wound

X **Inconsistent Flow Rates:** Pleated and string wound filters may become clogged more quickly and are less effective at capturing a wide range of particle sizes, leading to significant drops in flow as they accumulate debris. They lack the fine filtration capabilities of a triple density gradient filter, resulting in more frequent replacements and suboptimal performance in more demanding settings.

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Aqua Co. FILTERS


# Coconut Shell Activated Carbon Filter

★★★★★

✓Reduces chlorine, lead, chloramines, taste, odour, dirt, parasites and particles as small as 5 microns.
✓High Contaminant Holding Capacity.
✓Efficiency to reduce VOCs, pesticides & hazardous chemicals.
✓**Certified to NSF42.**
✓**Compliance to FDA and EU Food grade requirement.**
✓Super-Seal Cap avoids having damaged washers when tightening the housings preventing water bypass.

NSF COMPONENTS

MEMBER Water Quality ASSOCIATION

GlobalGROUP ISO 9001:2008 | UKAS QUALITY MANAGEMENT 039

**1** **Super-Seal Cap**
Protects the washers from being damaged, preventing water bypass.

**2** **100% Premium Coconut Shell**
Activated Carbon made from 100% premium coconut shell.

**3** **Longer Filter Life**
Between 6 to 10 times higher surface area compared to GAC.

**4** **Higher Microporosity**
Effective in adsorbing VOCs, chlorine, and other impurities.

**5** **Clean, Pure & Coal-Free**
Coconut shell carbon is safer and cleaner for water filtration.


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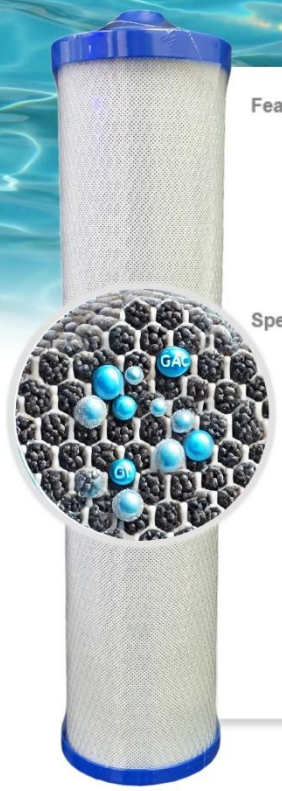



**Features:**

- Activated Carbon made from 100% premium coconut shell to bring mild taste.
- Efficiency to reduce VOCs, pesticide & hazardous chemicals.
- Compliance to FDA and EU Food grade requirement.
- Certified to NSF 42.

**Specification:**

| | |
|---|---|
| **Operation Pressure** | 10-120psi (0.7 – 8.2 bar) |
| **Operation Temperature** | 35°F~130°F (2°C~55°C) |
| **Service lifespan** | 180,000 L@80% Chlorine reduction rate @10LPM |
| | 360,000 L@50% Chlorine reduction rate @10LPM |
| | 180,000 L@96.6% Lead reduction rate @5LPM |
| | 60,000 L@83.3% Chloramine reduction rate @5LPM |
| **Initial Pressure drop** | 0.45kgs/cm$^2$ |

* Chlorine, lead, and chloramine reduction capacities are based on laboratory testing conducted using test protocol contained in NSF Standards 42.
* The result of service lifespan and pressure drop could be varied in field.

The filter cartridge is tested and certified by NSF International against NSF/ANSI Standard 42 for material safety requirements only.

NSF

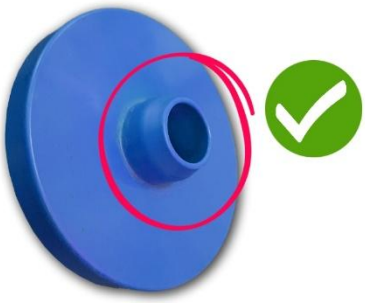
# Other Benefits

## Flat Washer

**X Mold & Bacteria Growth:** Flat washers are porous, creating the perfect environment for **bacteria and mold to grow** — contaminating your already filtered water. Half of the washer sits in unfiltered water and the other half in filtered water, meaning your filtered water is directly exposed to mold and bacterial growth.

**X Chemical Degradation & Microplastic Release:** Over time, washers can become brittle and chemically degraded when exposed to certain chemicals or harsh water conditions. This breakdown causes cracking and structural failure, **releasing microplastics and other contaminants into your filtered water.**

**X Bypass Risk:** If standard cartridges are overtightened, the knife edge on the filter head can cut through the washer, causing filter **bypass and poor sealing**.



## Super-Seal Cap

**✓ No Contamination Risk:** Unlike washers, nipples are **non-porous** and do not harbor **mold, bacteria, or other contaminants**. Filtered water never comes into contact with washers, ensuring it remains **clean and completely free of microplastics.**

**✓ Durability:** Engineered to resist **wear, chemical degradation, and temperature fluctuations**, nipples offer exceptional long-term performance. This durability **extends the lifespan of the filter system** and keeps your water **pure and microplastic-free** throughout its use.

**✓ Better Seal:** Nipples in the caps provide a **stronger, more reliable seal** than flat washers. They compress on the outside of the nipple (unfiltered water side) using a **beveled edge**, rather than a sharp surface that can cut through washers — ensuring **no leaks or bypass.**

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# Disruptor®

By AquaCo™

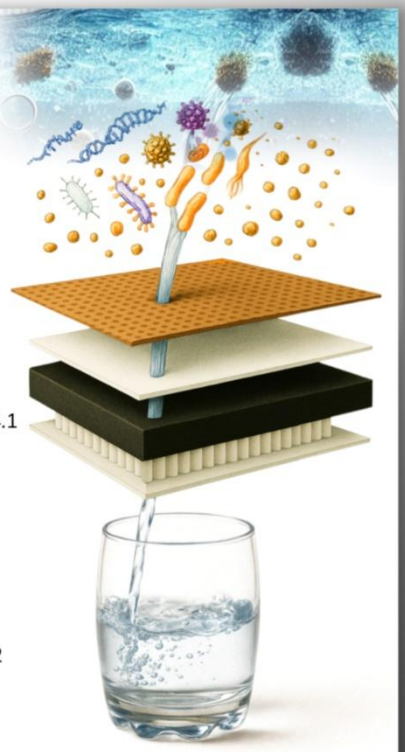
## Unique 4-in-1 Technology

(Mechanical + Adsorption + Electroadsorption)
+ Bacteriostatic


### SGS Contaminant Removal Claim

**Test Report**

- **Under NSF/ANSI Standard 53 – Health Effects Testing**
  - **PFOA (Perfluorooctanoic Acid):**
    Tested and verified to remove > 98.9% using EPA 537.1:2020
  - **PFOS (Perfluorooctane Sulfonic Acid):**
    Tested and verified to remove > 99.0% using EPA 537.1:2020
- **Under NSF/ANSI Standard 42 – Aesthetic Effects**
  - **Total Chlorine (Chloramines):**
    Tested and verified to remove > 99.3% using testing method GB/T 5750. 11-2023 5.1
  - **Free Chlorine:**
    Tested and verified to remove > 99.5% using testing method GB/T 5750. 11-2023 4.3 & 4.1
- **Lead (Pb) @pH 6.5:**
  - Tested and verified to remove > 99.3% using EPA 200.8
- **Lead (Pb) @pH 8.5:**
  - Tested and verified to remove > 99.4% using EPA 200.8
- **Copper (Cu) @pH 6.5:**
  - Tested and verified to remove > 99.9% using testing method EPA 200.8
- **Copper (Cu) @pH 8.5:**
  - Tested and verified to remove > 99.9% using testing method EPA 200.8
- **E. Coli (Total Coliforms):**
  - Tested and verified to remove > 99.9999% using testing method GB/T 5750. 12-2023 5.2
- **Coliphage (Bacterial Virus):**
  - Tested using method EPA 1602, achieving a reduction of 99.9995%



NSF SGS EPA United States Environmental Protection Agency

COMPONENTS

EPA Testing Methods:
US EPA 537.1:2020
EPA 200.8
EPA 200.8
EPA Method 1602

**Note:** Tested to NSF/ANSI 42 and 53 standards for aesthetic and health effects.

## PFAS Compounds Removal

The Disruptor® Filter Cartridge by AquaCo ™ is Australia's first whole-house filter cartridge proven to **effectively reduce PFAS compounds—along with chemicals, bacteria, viruses, parasites, and heavy metals—all in a single, high-performance filter for your entire home.** It combines the highest-grade Activated Carbon Block (ACB) with advanced electroadsorptive nanotechnology to deliver exceptional contaminant removal and filtration efficiency.

PFOA PFOS

**1 Removes PFAS Compounds**
Over 98% of PFOS and PFOA Removal.

**2 Patented Filtration Media**
Electropositive nanotechnology with natural mineral-based fibers.

**3 Broad-Spectrum Filtration**
For viruses, bacteria, parasites, chlorine, chloramines, and heavy metals.

**4 High-Performance Carbon Block**
Highest-grade activated carbon block for powerful adsorption.

**5 Super-Seal Cap**
Prevents bypass and washer damage during tightening.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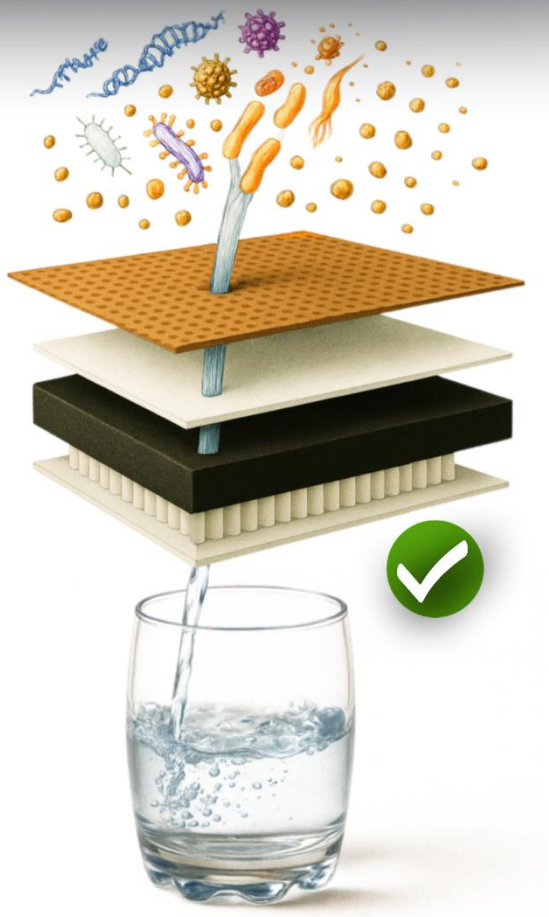
# Why Choose Disruptor®?



## Limited Filtration

**X Limited Filtration Capacity:** No conventional whole house filter on the Australian market matches the broad-spectrum removal capabilities of the Disruptor®. While most filters can reduce chlorine, taste, odours, and occasionally some heavy metals, they lack the advanced nanofiber technology needed to remove viruses, PFAS compounds, pharmaceuticals, VOCs, and submicron pathogens — all in a single filter. Basic granular carbon filters offer limited, surface-level protection and leave critical contaminants untreated.

**X Unsupported Claims:** No validated lab results; performance claims are unsupported or exaggerated.

**X Outdated Filtration Technology:** Use mechanical or GAC filters only; ineffective against viruses, PFAS, and pharmaceuticals.

**X Low Carbon Quality:** Commonly use cheap granular carbon with lower adsorption and short lifespan.

**X Restrict Low:** Often restrict flow, especially when finer filtration is attempted; not suitable for whole-house flow demands.

## Broad-Spectrum Filtration

**✓ All-in-One Contaminant Removal:** The only filter in Australia that removes:

- **Toxic PFAS compounds (PFOA, PFOS)**
- Viruses, bacteria, parasites, cysts
- Chlorine, chloramines, heavy metals
- VOCs, pesticides, industrial solvents
- Trace pharmaceuticals, turbidity — all in one filter

**✓ Verified Performance:** Backed by independent lab results and certifications for broad-spectrum contaminant reduction.

**✓ Filtration Technology:** Electroadsorptive nanotechnology captures submicron contaminants via electrostatic attraction.

**✓ Premium Carbon Quality:** Integrates catalytic carbon block, removing organic acids, membrane biofilms, and chemical residues.

**✓ Pressure & Flow Efficiency:** Maintains fast flow rates with low pressure drop across the system.

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# Disruptor®

By AquaCo™

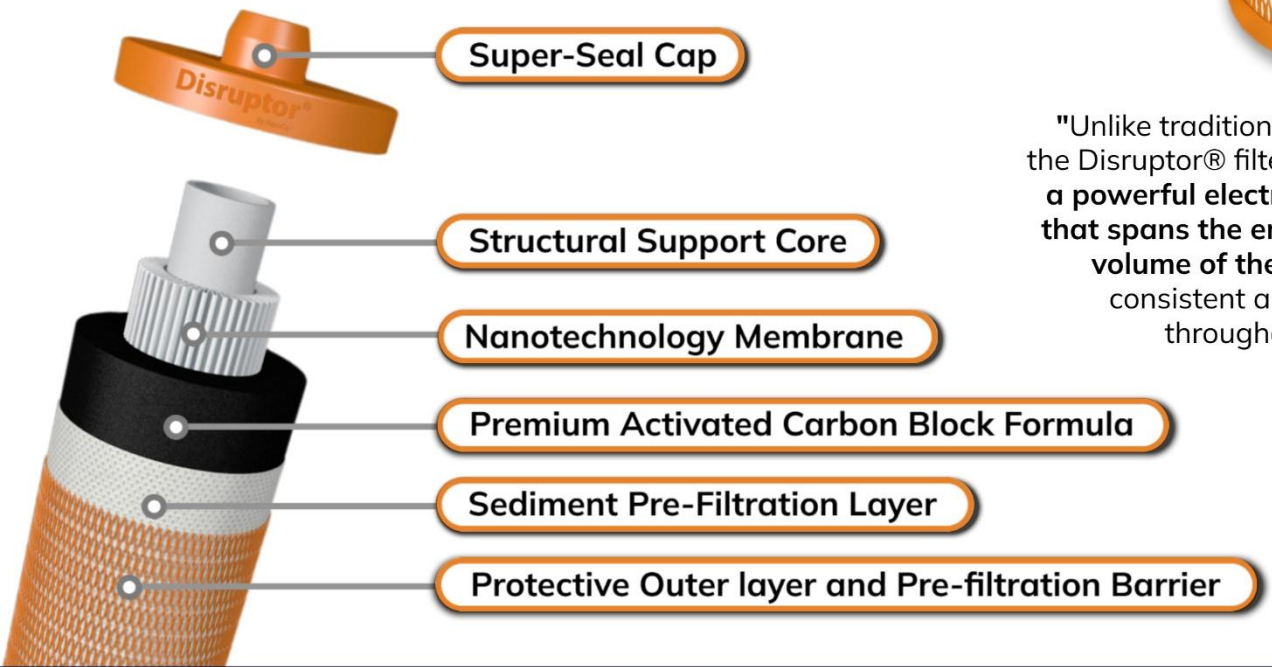

**Disruptor® combines electroadsorptive nanotechnology, premium activated carbon block, and precision membrane filtration to deliver advanced multi-stage contaminant removal—all within a single compact filter cartridge.**

The Disruptor® filter cartridge is an advanced, multi-layered filtration solution that integrates advanced **electroadsorptive nanotechnology**, **premium-grade activated carbon block (ACB)**, and a **precision membrane layer** to deliver unmatched contaminant removal and superior filtration efficiency in a single, compact unit. Engineered with patented filtration media and one of the industry's most advanced carbon block formulations, the cartridge sets a new standard for performance in whole-house water treatment systems.

Unlike conventional mechanical filters, the Disruptor® cartridge employs a **powerful electrostatic charge field** throughout the full depth and void volume of the media. This charge is instantly activated upon water contact and remains stable across a wide pH range (5 to 9), ensuring consistent and reliable filtration under diverse water conditions.

This unique electrostatic property allows the use of larger pore structures, resulting in **higher flow rates and lower pressure drop**—while still capturing ultra-fine contaminants such as viruses, bacteria, cellular debris, organic acids, and trace pharmaceuticals. These performance characteristics also make the Disruptor® cartridge ideal as a pre-filter for reverse osmosis systems, reducing membrane fouling, improving energy efficiency, and increasing overall system output with less wastewater.

The Disruptor® filter cartridge delivers broad-spectrum protection for applications where water quality, taste, safety, and system longevity are priorities. It effectively reduces Legionella, other pathogens, chlorine, turbidity, and certain heavy metals, making it a highly effective solution for residential and commercial applications where taste, safety and system longevity are priorities.




"Unlike traditional mechanical filters, the Disruptor® filter cartridge **employs a powerful electrostatic charge field that spans the entire depth and void volume of the cartridge,** ensuring consistent and effective filtration throughout its multi-layered structure."

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# Independent Lab Testing Results

**Verified performance based on real-world, volume-based lifecycle testing.**

## Why Our Test Results Matter

Most companies send one clean sample to the lab and claim their filters remove metals or chlorine—when these contaminants were never in the water to begin with.

At AquaCo, we use **Volume-Based Lifecycle Testing** — a globally recognised method where a large tank of contaminated water is passed through the filter at real-world flow rates. **Water is sampled regularly across the filter's life, not just once.**

✓ We run this contaminated water through the filter, simulating **real-world flow rates and usage over time.**
✓ We **collect samples regularly**—not just once—to measure **average performance across the full life of the filter.**

That's how we know our filters deliver real protection — every day, not just on paper..

## Why It Matters to You

✓ **Protects your family:** You know the filter truly removes dangerous metals, chemicals, and microorganisms.
✓ **Protects your investment:** You avoid filters that clog early or fail quietly.
✓ **Exposes fake claims:** You won't be fooled by empty promises or cherry-picked "lab results."

That's why we don't just say our filters are better—
**We prove it.**

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*Note: As per our internal IP protection policy, we cannot share full laboratory reports. However, the screenshots shown here are direct captures from certified lab tests, and accurately reflect the filter performance across all key contaminant categories.*

*Every filter is tested using strict international protocols — not one-off samples or marketing gimmicks.*

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# Aqua Co. FILTERS

# Supporting Laboratory Test Results

SGS

**Conclusion:**

**PFOA (Perfluorooctanoic Acid) removal efficiency >97.6%**
**PFOS (Perfluorooctane Sulfonic Acid) removal efficiency >99.0%**

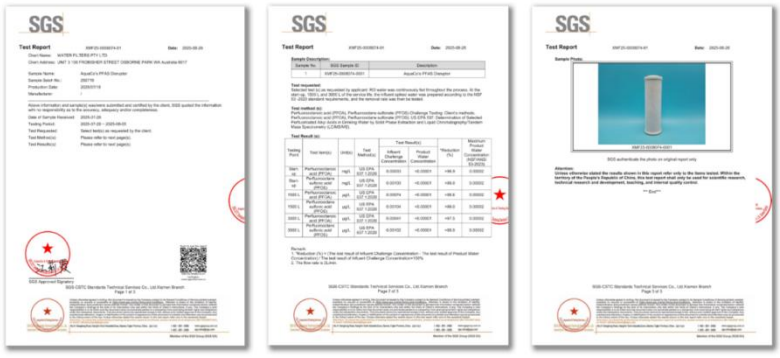
**Note: Laboratory test results are carried at scale, with smaller samples, lower flow rates and higher contamination levels for water and testing efficiency.**

**Test method (s):**
Perfluorooctanoic acid (PFOA), Perfluorooctane sulfonate (PFOS) Challenge Testing: Client's methods.
Perfluorooctanoic acid (PFOA), Perfluorooctane sulfonate (PFOS): US EPA 537: Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

**Test Result (s):**

| Testing Point | Test item(s) | Unit(s) | Test Method(s) | Test Result(s) | | *Reduction (%) | Maximum Product Water Concentration (NSF/ANSI 53-2023) |
|---|---|---|---|---|---|---|---|
| | | | | Influent Challenge Concentration | Product Water Concentration | | |
| Start-up | Perfluorooctanoic acid (PFOA) | mg/L | US EPA 537.1:2020 | 0.00033 | <0.00001 | >96.9 | 0.00002 |
| Start-up | Perfluorooctane sulfonic acid (PFOS) | mg/L | US EPA 537.1:2020 | 0.00100 | <0.00001 | >99.0 | 0.00002 |
| 1500 L | Perfluorooctanoic acid (PFOA) | mg/L | US EPA 537.1:2020 | 0.00074 | <0.00001 | >98.6 | 0.00002 |
| 1500 L | Perfluorooctane sulfonic acid (PFOS) | mg/L | US EPA 537.1:2020 | 0.00104 | <0.00001 | >99.0 | 0.00002 |
| 3000 L | Perfluorooctanoic acid (PFOA) | mg/L | US EPA 537.1:2020 | 0.00041 | <0.00001 | >97.5 | 0.00002 |
| 3000 L | Perfluorooctane sulfonic acid (PFOS) | mg/L | US EPA 537.1:2020 | 0.00102 | <0.00001 | >99.0 | 0.00002 |

Remark:
1. *Reduction (%) = (The test result of Influent Challenge Concentration - The test result of Product Water Concentration) / The test result of Influent Challenge Concentration×100%
2. The flow rate is 2L/min.



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# Supporting Laboratory Test Results

**Conclusion:**

**Total Chlorine (Chloramines) removal efficiency >95.7%**

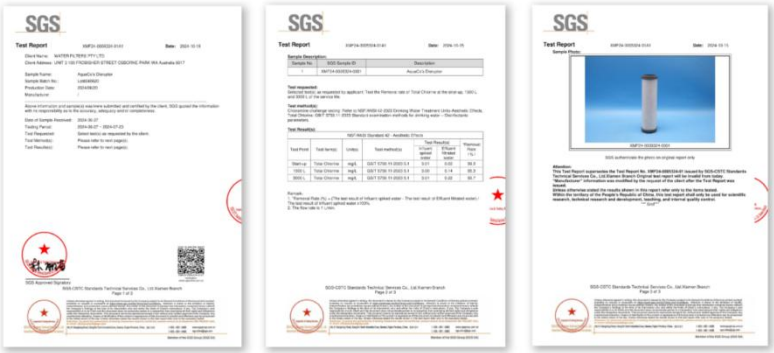
**Note: Laboratory test results are carried at scale, with smaller samples, lower flow rates and higher contamination levels for water and testing efficiency.**

**Test method(s):**
Chloramine challenge testing: Refer to NSF/ANSI 42-2022 Drinking Water Treatment Units-Aesthetic Effects.
Total Chlorine: GB/T 5750.11-2023 Standard examination methods for drinking water – Disinfectants parameters.

**Test Result(s):**

| NSF/ANSI Standard 42 - Aesthetic Effects | | | | | | |
|---|---|---|---|---|---|---|
| Test Point | Test item(s) | Unit(s) | Test method(s) | Test Result(s) | | *Removal Rate (%) |
| | | | | Influent spiked water | Effluent filtrated water | |
| Start-up | Total Chlorine | mg/L | GB/T 5750.11-2023 5.1 | 3.01 | 0.02 | 99.3 |
| 1500 L | Total Chlorine | mg/L | GB/T 5750.11-2023 5.1 | 3.00 | 0.14 | 95.3 |
| 3000 L | Total Chlorine | mg/L | GB/T 5750.11-2023 5.1 | 3.01 | 0.22 | 92.7 |

Remark:
1. *Removal Rate (%) = (The test result of Influent spiked water - The test result of Effluent filtrated water) / The test result of Influent spiked water x100%
2. The flow rate is 1 L/min.



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# Supporting Laboratory Test Results

**Conclusion:**

**Free Chlorine removal efficiency 99.5%**

**Note: Laboratory test results are carried at scale, with smaller samples, lower flow rates and higher contamination levels for water and testing efficiency.**

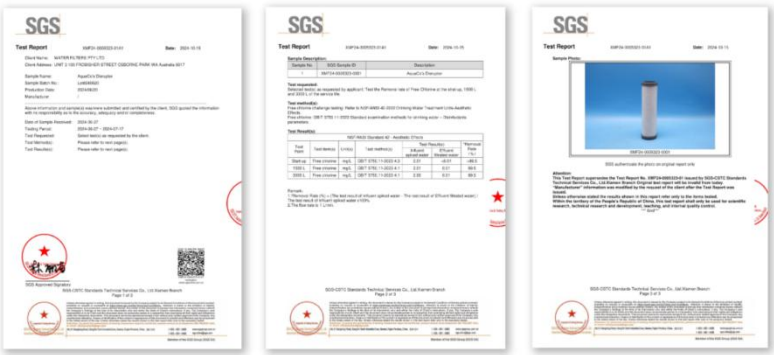
**Test requested:**
Selected test(s) as requested by applicant: Test the Removal rate of Free Chlorine at the strat-up, 1500 L and 3000 L of the service life.

**Test method(s):**
Free chlorine challenge testing: Refer to NSF/ANSI 42-2022 Drinking Water Treatment Units-Aesthetic Effects.
Free chlorine: GB/T 5750.11-2023 Standard examination methods for drinking water – Disinfectants parameters.

**Test Result(s):**

| NSF/ANSI Standard 42 - Aesthetic Effects | | | | | | |
|---|---|---|---|---|---|---|
| Test Point | Test item(s) | Unit(s) | Test method(s) | Test Result(s) | | *Removal Rate (%) |
| | | | | Influent spiked water | Effluent filtrated water | |
| Start-up | Free chlorine | mg/L | GB/T 5750.11-2023 4.3 | 2.01 | <0.01 | >99.5 |
| 1500 L | Free chlorine | mg/L | GB/T 5750.11-2023 4.1 | 2.01 | 0.01 | 99.5 |
| 3000 L | Free chlorine | mg/L | GB/T 5750.11-2023 4.1 | 2.00 | 0.01 | 99.5 |

Remark:
1.*Removal Rate (%) = (The test result of Influent spiked water - The test result of Effluent filtrated water) / The test result of Influent spiked water x100%
2.The flow rate is 1 L/min.



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# Supporting Laboratory Test Results

**Conclusion:**

**Lead removal efficiency >99.5% @pH 6.5**

**Note: Laboratory test results are carried at scale, with smaller samples, lower flow rates and higher contamination levels for water and testing efficiency.**

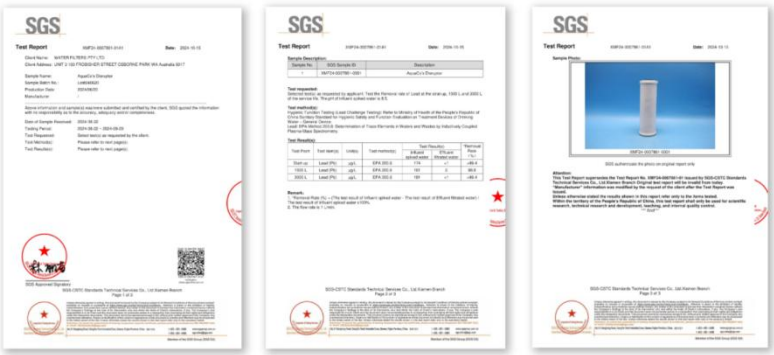
**Test requested:**
Selected test(s) as requested by applicant: Test the Removal rate of Lead at the Start-up, 1500 L and 3000 L of the service life. The pH of influent spiked water is 6.5.

**Test method(s):**
Hygienic Function Testing (Lead Challenge Testing): Refer to Ministry of Health of the People's Republic of China Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water – General Device.
Lead: EPA Method 200.8: Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry.

**Test Result(s):**

| Testing Point | Test item(s) | Unit(s) | Test method(s) | Test Result(s) | | *Removal Rate (%) |
|---|---|---|---|---|---|---|
| | | | | Influent spiked water | Effluent filtrated water | |
| Start-up | Lead (Pb) | µg/L | EPA 200.8 | 144.5 | <0.6 | >99.5 |
| 1500 L | Lead (Pb) | µg/L | EPA 200.8 | 145.9 | <0.6 | >99.5 |
| 3000 L | Lead (Pb) | µg/L | EPA 200.8 | 152.7 | <0.6 | >99.6 |

Remark:
1. *Removal Rate (%) = (The test result of Influent spiked water - The test result of Effluent filtrated water) / The test result of Influent spiked water x100%
2. The flow rate is 3 L/min.



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# Supporting Laboratory Test Results

**Conclusion:**

**Copper (Cu) removal efficiency > 99.9%**

**Note: Laboratory test results are carried at scale, with smaller samples, lower flow rates and higher contamination levels for water and testing efficiency.**

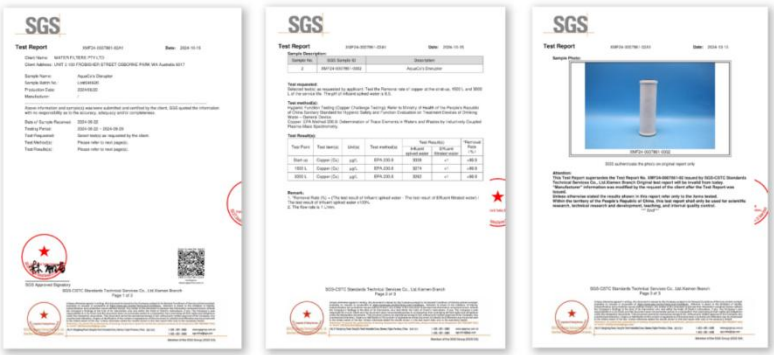
**Test requested:**
Selected test(s) as requested by applicant: Test the Removal rate of copper at the strat-up, 1500 L and 3000 L of the service life. The pH of influent spiked water is 6.5.

**Test method(s):**
Hygienic Function Testing (Copper Challenge Testing): Refer to Ministry of Health of the People's Republic of China Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water – General Device.
Copper: EPA Method 200.8: Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry.

**Test Result(s):**

| Test Point | Test item(s) | Unit(s) | Test method(s) | Test Result(s) | | *Removal Rate (%) |
|---|---|---|---|---|---|---|
| | | | | Influent spiked water | Effluent filtrated water | |
| Start-up | Copper (Cu) | µg/L | EPA 200.8 | 2992 | <1 | >99.9 |
| 1500 L | Copper (Cu) | µg/L | EPA 200.8 | 3118 | <1 | >99.9 |
| 3000 L | Copper (Cu) | µg/L | EPA 200.8 | 3094 | <1 | >99.9 |

**Remark:**
1.*Removal Rate (%) = (The test result of Influent spiked water - The test result of Effluent filtrated water) / The test result of Influent spiked water x100%
2.The flow rate is 1 L/min.



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# Supporting Laboratory Test Results

**Conclusion:**

**Total Coliforms (Bacteria) removal efficiency >99.9999%**

**Note: Laboratory test results are carried at scale, with smaller samples, lower flow rates and higher contamination levels for water and testing efficiency.**

**Test requested:**
Selected test(s) as requested by applicant: Test the removal rate of Total coliforms at the start-up of the service life.

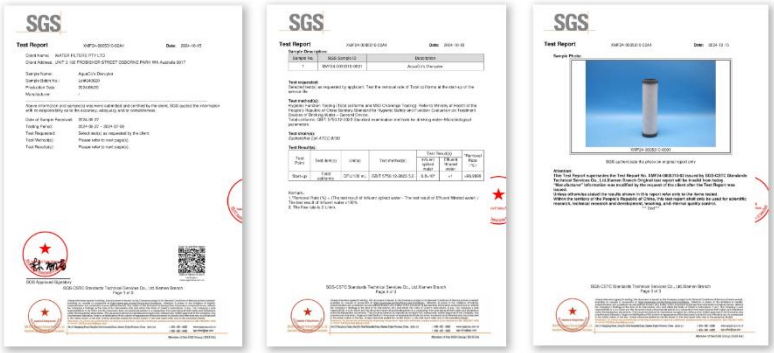
**Test method(s):**
Hygienic Function Testing (Total coliforms and MS2 Challenge Testing): Refer to Ministry of Health of the People's Republic of China Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water – General Device.
Total coliforms: GB/T 5750.12-2023 Standard examination methods for drinking water–Microbiological parameters.

**Test strain(s):**
*Escherichia Coli ATCC 8739*

**Test Result(s):**

| Test Point | Test item(s) | Unit(s) | Test method(s) | Test Result(s) | | *Removal Rate (%) |
|---|---|---|---|---|---|---|
| | | | | Influent spiked water | Effluent filtrated water | |
| Start-up | Total coliforms | CFU/100 mL | GB/T 5750.12-2023 5.2 | $6.8\times10^6$ | <1 | >99.9999 |

1.*Removal Rate (%) = (The test result of Influent spiked water - The test result of Effluent filtrated water) / The test result of Influent water x100%
2. The flow rate is 2 L/min.



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# Supporting Laboratory Test Results

SGS

**Conclusion:**

**MS2 Coliphage (Bacterial Virus) removal efficiency - 99.9995%**

**Note: Laboratory test results are carried at scale, with smaller samples, lower flow rates and higher contamination levels for water and testing efficiency.**

**Test requested:**
Selected test(s) as requested by applicant: Test the removal rate of MS2 Coliphage at the start-up of the service life.

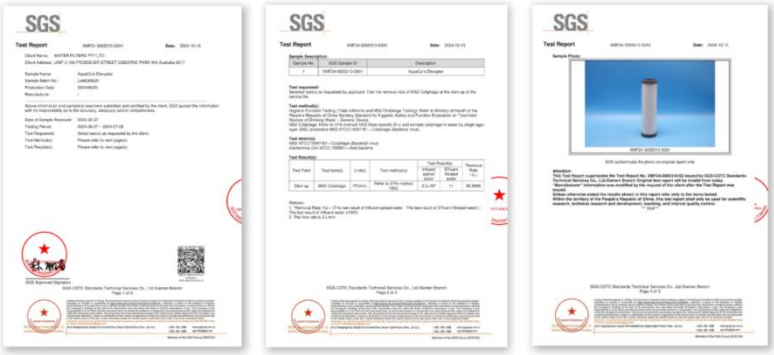
**Test method(s):**
Hygienic Function Testing (Total coliforms and MS2 Challenge Testing): Refer to Ministry of Health of the People's Republic of China Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water – General Device.
MS2 Coliphage: Refer to EPA method 1602 Male-specific (F+) and somatic coliphage in water by single agar layer (SAL) procedure MS2 ATCC15597-B1—Coliphage (Bacterial virus).

**Test strain(s):**
*MS2 ATCC15597-B1—Coliphage (Bacterial virus)*
*Escherichia Coli ATCC 700891—Host bacteria*

**Test Result(s):**

| Test Point | Test item(s) | Unit(s) | Test method(s) | Test Result(s) | | *Removal Rate (%) |
|---|---|---|---|---|---|---|
| | | | | Influent spiked water | Effluent filtrated water | |
| Start-up | MS2 Coliphage | PFU/mL | Refer to EPA method 1602 | $2.3\times10^6$ | 11 | 99.9995 |

Remark:
1. *Removal Rate (%) = (The test result of Influent spiked water - The test result of Effluent filtrated water) / The test result of Influent water x100%
2. The flow rate is 2 L/min.



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