

ONE™ SERIES Cartridge Tank

Introducing our Revolutionary New GWS ONE™ Cartridge Tank Filtration System.



Say goodbye to small and inefficient housings. Get rid of expensive stainless steel housings. The GWS ONE™ Cartridge Tank offers extended life and service, and a more cost-effective and efficient filtration solution.

Utilizing a patented industry-exclusive liner design, no tools necessary snap-ring design, full radial seal top and bottom caps make replacement simple. The GWS ONE™ Cartridge Tank makes it easy to access and remove the internal filtration solution.

Lightweight and cost-effective with multiple configuration options, from high flow commercial / industrial applications to stand-alone residential Point-of-Entry (POE) installations for city and well water applications, this is the filtration solution of the future... 100% non-metallic! The One Cartridge Tank™ is a high performance filtration device and has been rated at 125 psi (8.6 bar) operating pressure with a 4:1 Burst Safety Factor.

Available in 5 colors:



APPLICATIONS

- Ideal for Residential, Food Service, Rental Fleets, Commercial and Industrial Applications
- Make-up Water, RO Pre-filtration, Cooling Towers, Chill Water Loops, Metal Finishing
- Process Water (Turbidity, Particulate, Colloidal Suspensions)
- Reduction of Unwanted Bad taste and Odor from Potable Drinking Water
- Reduction in Frequency of Replacing Common 2 ½" or 4 ½" Housings ... Bigger is Better

Benefits

| | |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Lightweight and cost-effective housing with high chemical compatibility. | Extended service life, contaminant removal, and dirt holding capacity |
| Simple and easy change-out of cartridges. | Low pressure drop = high flow |
| No Tools, Means NO TOOLS! | |
| Match the filtration solution with flow rate requirements | |

Features

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|------------------------------------------------|
| 100% non-metallic! |
| Patented no-tools necessary snap-ring design |
| Multiple filtration solutions |
| Full 1 1/4" and 2" plumbing connection options |
| Large capacity filter configurations |

Easy Replacement

No tools needed



1 Press the red pressure relieve valve



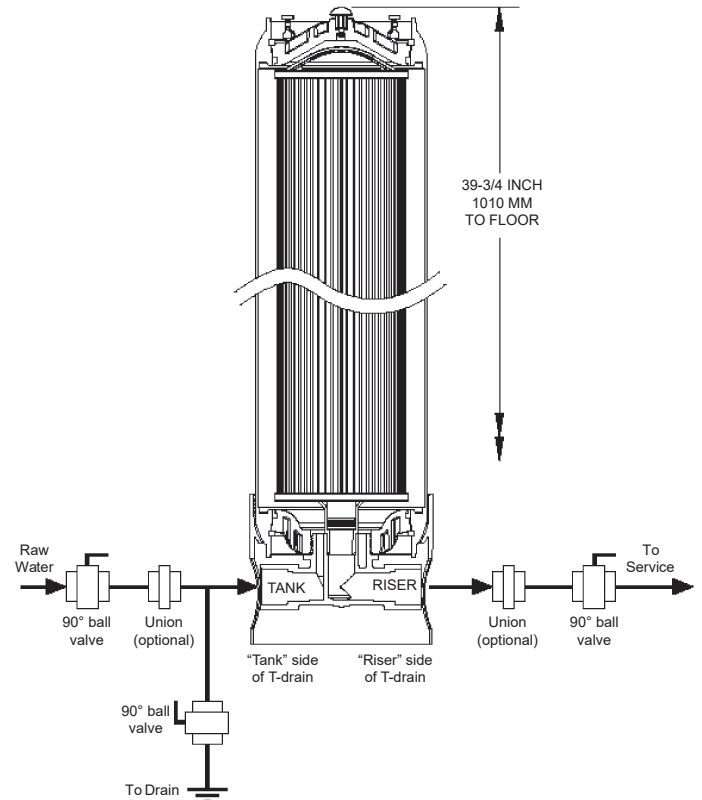
2 Pull the snap-ring



3 Take the snap ring off



4 Lift top cap



Blue Filtration Series

Carbon Block Filter

Yellow Filtration Series

String Wound Filter with Melt Blown core

Purple Filtration Series

Melt Blown PP Depth Filter

Red Filtration Series

Pleated Filter
PAC Filter

Orange Filtration Series

Double Pleated Gradient Filter

Green Filtration Series

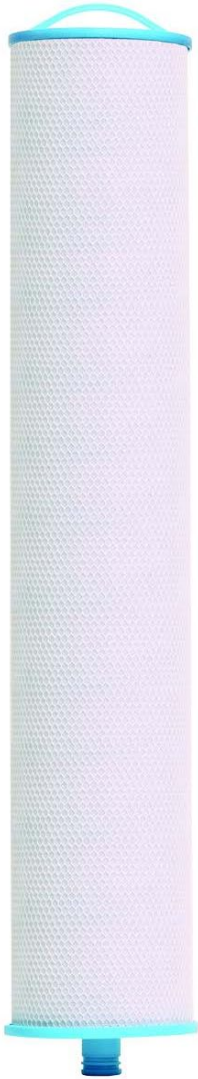
Double Pleated Filter with Nano Al™

White Filtration Series

Refillable Granular Media Bottle



Blue Filtration Series



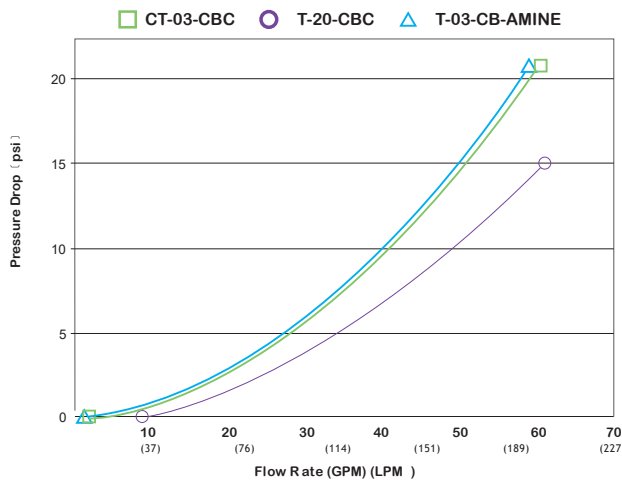
The Blue Filtration Series incorporates carbon block filter technology that is highly effective at reducing bad taste and odor from potable drinking water. The filters are made using high performance coconut shell carbon, which has more micropores compared to other types of carbon.

These carbon block filters deliver a product with superior adsorption capacity and kinetic dynamics. These high capacity filters provide cost effective water filtration solutions in a filter size and configuration that offers ease-of-use, extended service life and capacity, at low pressure loss.

All components and materials are FDA approved, and manufactured from certified coconut shell carbon, and are California Prop 65 compliant.

The chloramine block is a proprietary media with an enormous number of catalytically active nitrogen groups for highly efficient reduction of chloramines. This enhanced catalytic functionality has FIVE times more capacity for chloramine reduction than standard carbon blocks.

Each filter comes with a unique handle-designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring bottom connection that inserts into the ONE™ Cartridge Tank plumbing adapter.



Features

- High performance carbon
- Unique binder system
- Proprietary manufacturing process
- Outer wrap of polypropylene
- Netting of polyethylene

Applications

- Residential, food service, commercial and industrial applications
- Reducing bad taste, odor, chlorine and chloramine taste
- Polishing or pre-filters in applications requiring fine filtration and high capacity

Benefits

- Exceptionally low pressure drop
- High dirt holding capacity
- Excellent contaminant reduction



Configurations

CT-03-CB: 3 micron carbon block, high capacity

To treat >250,000 gallons (946,353 Liters) of water @ 15 gpm (56.78 LPM) with greater than 90% reduction, estimated capacity using 2ppm of free chlorine.

CT-20-CB: 20 micron carbon block, high porosity, low pressure drop

To treat >150,000 gallons (567,812 Liters) of water @ 7 gpm (26.50 LPM) with greater than 90% reduction, estimated capacity using 2ppm of free chlorine.

CT-03-CB-AMINE: 3 micron carbon block, chloramine reduction

To treat >50,000 gallons (189,271 Liters) of water @ 7 gpm (26.50 LPM) with greater than 85% reduction, estimated capacity.

Yellow Filtration Series

The Yellow Filtration Series are dual-gradient double-pleated filtration solutions for extended life and use, with filtration levels of 5 and 20 microns. This series offers a combination filter composed of an outer layer of polypropylene string with a melt blown polypropylene core. The precise wound pattern provides greater surface area, higher dirt-loading capacity and greater efficiency than standard wound filter cartridges. As a dual media filter, it provides a cost-effective, extended-life product capable of capturing a broad range of particulates with high service flow rates greater than 30+gpm with less than 15 Delta P.

Features

- Outer pre-filter manufactured using 100% Polypropylene yarn
- Precision pattern captures 20 or 50 microns or larger
- Extended service life of inner filter
- Outer filter captures fine sediment, sand, silt, rust and scale particles.
- Melt blown inner filter manufactured using thermally bonded polypropylene fibers

Applications

Potable water, food / beverage, pre-RO, fine chemicals, electronics, metal finishing, plating solutions, oxidizing agents, corrosive fluids, gasses, concentrated acids and alkalis

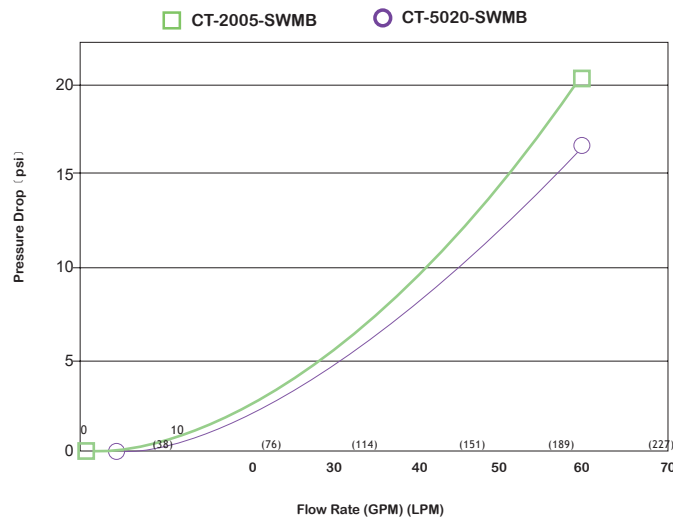
Benefits

- Microorganism-resistant
- Nominally rated as stated
- High purity
- Excellent chemical resistance
- High dirt-holding capacity
- Graded density

The large diameter pre-filter reduces particulate loading on the post filter allowing it to perform at higher velocities, capturing fine sediment, sand, silt, rust and scale particles of 50 or 20 microns. This equates to higher particulate reduction and added loading capacity.

The Melt Blown core captures 20 or 5 micron particles (depending on the filter configuration), this dual combination filter extends the life of the inner-cartridge by eliminating premature caking and prevents down stream media migration common in string cartridges.

Each filter comes with a unique handle-designed top cap for light-weight and easy removal, a bag for proper disposal, and a double o-ring bottom connection that inserts into the ONE™ Cartridge Tank plumbing adapter.



Configurations

CT-2005-SWMB: External 20 micron string wound pre-filter, with 5 micron melt blown core

CT-5020-SWMB: External 50 micron string wound pre-filter, with 20 micron melt blown core

Red Filtration Series

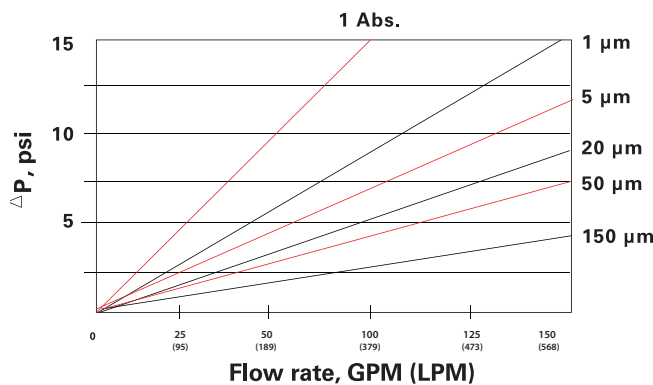


The Red Filtration Series are high flow rate pleated filtration solutions for extended life and use, with filtration levels of 1 Absolute, 5, 20, 50, and 150 microns, along with an activated carbon (PAC) solution as well. The filters are designed with a large filtration layer, extending filtration level contamination and service life, while achieving high flow rates up to 150 GPM (568 LPM) and low pressure drop. The filters will outperform competitive filtration solutions in all turbidity applications including silt, rust, and other particle filtration. The Red Series also provides lower shear water velocity as the raw water passes through the filter, allowing for more contact time and interaction with the extensive surface area of the filters. This results in higher water quality and longer life of the filtration system.

A direct replacement for expensive stainless steel housings used in commercial RO pre-filtration, process water, cooling towers, and other commercial and industrial applications, and exclusively designed for the ONE™ Cartridge Tank, these filters have significant surface area, low pressure drop, and high flow rate capabilities. The filters are ideal as polishing or prefilters in applications requiring fine filtration and high capacity. Utilizing 100% cellulose free media and cleanable from 5 micron and up, these are the commercial filtration solutions of the future!

Each filter comes with a unique handle-designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring connection. All components and materials are manufactured from certified materials.

Low Pressure Drop ONE™ filters are designed to minimize pressure drop by using 2" pipe fittings and large diameter center tubes.



Configurations

- CT-COMM1A: 1 micron absolute PP pleated cartridge
- CT-COMM05: 5 micron PP pleated cartridge
- CT-COMM20: 20 micron PP pleated cartridge
- CT-COMM-CARB: Pleated activated carbon cartridge
- CT-COMM50: 50 micron PP pleated cartridge
- CT-COMM150: 150 micron PP pleated cartridge

Features

- Durable and chemical resistant polypropylene filter and cap construction
- Double EPDM o-ring seals
- Filter belly bands
- Unique filter handle design

Applications

Ideal for residential, food service, rental fleets, commercial and industrial applications, make-up water, RO pre-filtration, cooling towers, chill water loops, metal finishing, process water (turbidity, particulate, colloidal suspensions) community water, livestock or poultry, water systems, replacement of bag filters with more surface area and capacity as well as other water-based fluid solutions

Benefits

- Extended service life, contaminant removal, and dirt-holding capacity
- Low pressure drop = high flow!
- Ensures no bypass of contaminants and high chemical compatibility
- Ease of filter removal from housing
- Bacteria- and chemical-resistant under high flow or contaminant load applications
- Prevent collapsing of filters under high flow or contaminant load applications

Purple Filtration Series

The Purple Filtration Series are high flow rate melt blown polypropylene filtration solutions for extended life and use, with filtration levels of 5 and 20 microns. The filters are designed with a large surface area depth filtration design, extending filtration level contamination and service life, while achieving high flow rates up to 100 GPM (380 LPM) and low pressure drop. The filters will outperform competitive filtration solutions in all turbidity applications including silt, rust, and other soft particle filtration. The Purple Series also provides lower shear water velocity as the raw water passes through the filter, allowing for more contact time and interaction with the extensive surface area of the filters. This results in higher water quality and longer life of the filtration system.

Features

Durable and chemical-resistant polypropylene filter and cap construction

Double EPDM o-ring seals

Unique filter handle design

Applications

Whole house filtration, commercial filtration, industrial filtration, pre-filtration for reverse osmosis equipment, community water systems, sea water applications due to their non-corrosive construction, replacement for bag filters with more filter area; a convenient alternative to multiple cartridge filters, water for livestock and poultry

Benefits

Extended service life, contaminant removal, and dirt holding capacity

Low pressure drop = high flow!

Prevent collapsing of filters under high flow or contaminant-load applications and high chemical compatibility

Bacteria- and chemical-resistant under high flow or contaminant load applications

Ease of filter removal from housing

Ensures no bypass of contaminants and high chemical compatibility

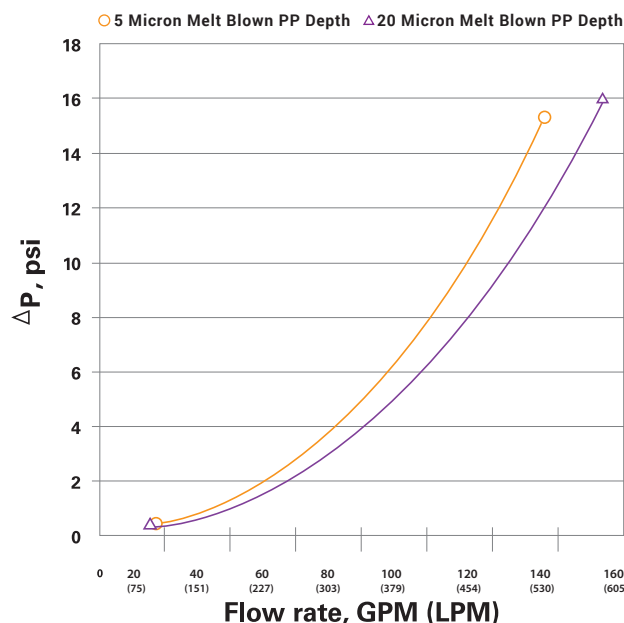
A direct replacement for expensive stainless steel housings used in commercial RO pre-filtration, process water, cooling towers, and other commercial and industrial applications, and exclusively designed for the ONE™ Cartridge Tank, these filters have significant surface area, low pressure drop, and high flow rate capabilities.

The filters are ideal as polishing or pre-filters in applications requiring fine filtration and high capacity. Utilizing 100% polypropylene media, these are the commercial filtration solutions of the future!

Each filter comes with a unique handle-designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring connection. All components and materials are manufactured from certified materials.



Filter Performance



Configurations

CT-COMM05-MB: 5 micron melt blown

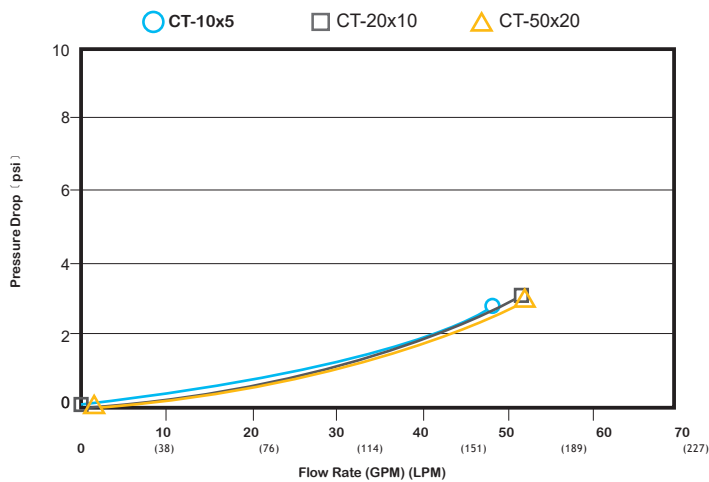
CT-COMM20-MB: 20 micron melt blown

Orange Filtration Series

The Orange Filtration Series are dual-gradient double-pleated filtration solutions for extended life and use, with filtration levels of 5, 10 and 20 microns. The filters are designed with a larger pre-filtration layer externally and the smaller internally, extending filtration level contamination and service life, while achieving high flow and low pressure drop.

The filters will outperform competitive filtration solutions in all turbidity applications including silt, rust, and other particle filtration. The Orange Series also provides lower shear water velocity as the raw water passes through the filter, allowing for more contact time and interaction with the extensive surface area of the filters. This results in higher water quality and longer life of the filtration system.

Each filter comes with a unique handle-designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring bottom connection that inserts into the ONE™ Cartridge Tank plumbing adapter.



Better Filtration

Extended Service Life...6, 12, 18, or 24 months, versus 1-3?: The total surface area of the dual gradient Orange Series is approximately 100 ft², as compared to a typical single layer 2 ½"x20 filter, which has approximately 7ft² of filter media area, and a 4 ½"x20 which is approximately 16ft². We have nearly 6.5x open area compared to standard 4.5x20 filters...100ft² vs. 16ft² and nearly 14.5x open area compared to standard 2.5x20 filters... 100ft² vs. 7ft². Extended Service Life!

Features

- Dual gradient double-pleated
- Double Buna-N o-ring seals
- Filter belly bands
- Durable polyester filter and polypropylene cap construction

Applications

Residential, food service, rental fleets, commercial and industrial applications, make-up water, RO pre-filtration, cooling towers, chill water loops, metal finishing, process water, other water-based fluid solutions

Benefits

- Extended service life, contaminant removal, and dirt-holding capacity. Low pressure drop, high flow!
- Insures no bypass of contaminants and high chemical compatibility
- Prevent collapsing of filters under high flow or contaminant-load applications
- Bacteria- and chemical-resistant

Configurations

CT-1005: External 10 micron pleated pre-filter, with 5 micron pleated internal layer

CT-2010: External 20 micron pleated pre-filter, with 10 micron pleated internal layer

CT-5020: External 50 micron pleated pre-filter, with 20 micron pleated internal layer

Green Filtration Series

The Green Filtration Series are electropositively charged dual-gradient double-pleated filtration solutions that successfully remove contaminants from 1 to 0.2 microns, featuring NanoAl™ media. The filters are designed with a larger 20 micron pre-filtration layer externally and the charged media internally, extending filtration level contamination and service life, while achieving high flow and low pressure drop.

The filters will outperform competitive filtration solutions in all turbidity applications including insoluble scale, Fe³⁺, bacterial iron slime, colloidal solids, silt, rust, and other particle filtration, resulting in higher water quality and longer life of the filtration system.

Features

- Dual-gradient double-pleated filters with electropositively charged NanoAl™ media
- Double Buna-N o-ring seals
- Filter belly bands
- PAC solution options
- Agion® antimicrobial technology

Applications

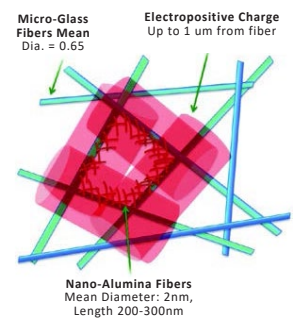
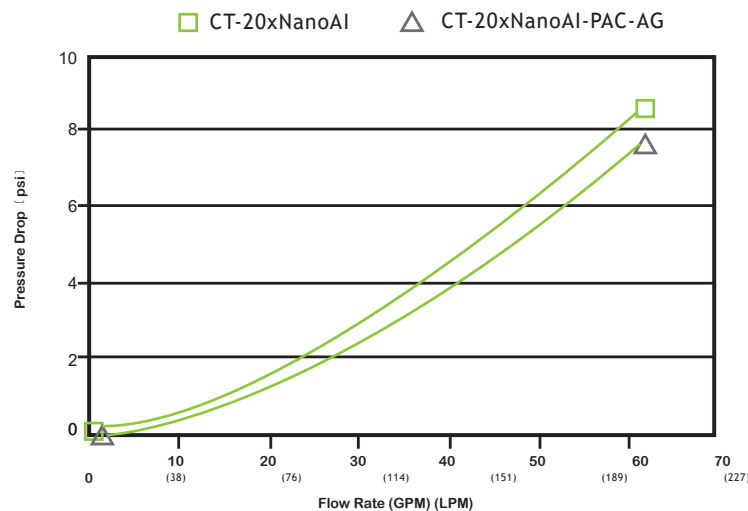
- Primary filtration, make up water, polishing filters, RO pre-filtration, process water, waste water, cooling towers, chill water loops

Benefits

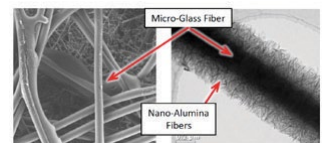
- Successfully removes contaminants (1 - 0.2 microns)
- Finer particle retention, higher flow rate and loading capacity, lower pressure drop.
- Ensures no bypass of contaminants and high chemical compatibility
- Prevents collapsing of filters under high flow
- Reduces bad taste and odor from potable drinking water
- Provides built-in protection by working 24/7 resisting the growth of microbes

The Green Series of pleated filters features a thermally bonded blend of micro-glass fibers & cellulose, infused with nanoalumina fibers in a non-woven matrix that creates an electropositively charged depth filter media. When assembled into a pleated cartridge, our solution offers a unique combination of efficiency, capacity, flow rate, and low pressure drop that allow this non-woven media to filter like a NF polymeric membrane, at levels unmatched in today's filtration marketplace. All filters feature the use of Agion® antimicrobial technology that provides built-in protection by working 24/7 resisting the growth of microbes.

Each filter comes with a unique handle-designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring bottom connection that inserts into the ONE™ Cartridge Tank plumbing adapter.



Filter Close-up



Configurations

CT-20xNanoAl-AG: External 20 micron pleated pre-filter, with NanoAl™ pleated inner filter with Agion® Biostat

CT-20xNanoAl-PAC-AG: External 20 micron pleated pre-filter, with NanoAl PAC pleated inner filter with Agion® Biostat and carbon block core

White Filtration Series



The White Filtration Series is a unique and high capacity granular media bottle that allows incorporation of multiple media options and solutions to be used with the series. This filter series is a 0.5 ft³ empty bottle for filling of granular filtration media. This GWS ONE™ Cartridge Tank filter series is ideal for a wide range of residential, food service, commercial, and industrial applications, and can be used for multiple applications from service DI, POE for city or well-water installations, rental programs, exchange systems, high-purity pre- or post-filtration applications, etc... The options, configurations, and solutions are endless.

The design also incorporates the patented Vortech™ full distributor plate technology, providing uniform distribution and utilization of the media bed along with maximum efficiencies and service flow rates, giving system design maximum flexibility whether installed in up-flow or down-flow service. A removable top cap has a locking feature that can be used for limiting access to the internal media by the end-user, and special rings on the bottom of the bottle allow for ease of hanging of the cartridge for easy change-out of media in applications like service DI exchange.

The White Series is also available in a Mid-Vortech™ configuration that splits the cartridge chambers equally, to 0.25 ft³ per chamber, for separation and use of different media, thereby increasing the efficiency and usage of the media bed. Each filter comes with a unique handle-designed top cap for lightweight and easy removal, and a double o-ring bottom connection that inserts into the ONE™ Cartridge Tank plumbing adapter.



Features

- 0.5 ft³ empty media bottle
- Polyethylene construction
- Vortech™ distributor plate
- Locking or removable top cap
- Rings on bottom of bottle
- Double Buna-N o-ring seals
- Mid-Vortech™ distributor plate option

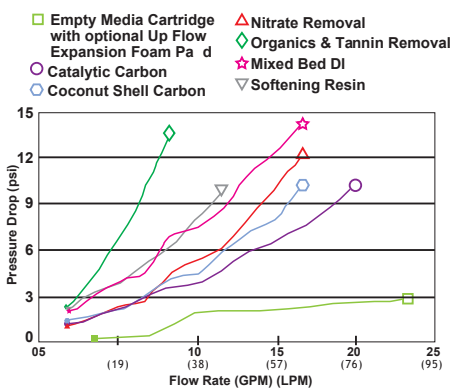
Applications

Residential, food/beverage service, rental fleets, service DI exchange, plating solutions, commercial and industrial applications, metal finishing, oxidizing agents, corrosive fluids, electronics, pre-RO, process water, waste water, cooling towers, make-up water, polishing filters, reducing unwanted bad taste and odor, including chlorine and chloramine

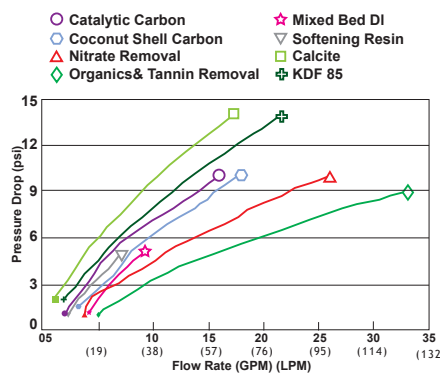
Benefits

- Extended service life and high capacity contaminant removal
- High chemical resistance
- Low pressure drop, high flow
- Separation of multi-media configurations
- Up-flow or down-flow service and full utilization of the media bed
- Ensures no bypass of contaminants and high chemical compatibility

Up Flow



Down Flow



Configurations

CT-MEDIA-05: Full 0.5 ft³ configuration, able to be filled with any media for up-flow or down-flow service due to use of Vortech™ technology.

CT-MEDIA05-MID: Full 0.5 ft³ configuration with Mid-Vortech™ separation plate, able to be filled with any two types of media for up-flow or down-flow service, due to use of Vortech™ technology.