



Virus Reduction UF Systems

VGS-600 and VCT-1



VCT-1

VGS-600

The VGS-600 and VCT-1 Virus Reduction UF Systems provide reliable virus, bacteria and protozoan cyst reduction for safer and cleaner drinking water without incorporating chemicals into the media or to the filtered water. These systems are uniquely designed with integral carbon block and sediment pre-filtration for the reduction of chlorine taste and odor and for providing extended life of the internal membrane element.

The systems utilize cartridges that are designed with greater filtration surface area than alternative anti-microbial carbon blocks and operate at a higher flow rates with lower pressure drops. This makes the VGS-600 and VCT-1 Virus Reduction Systems ideal for Point-of-Use (POU) applications.

The VGS-600 and VCT-1 systems are tested and certified to NSF P231 – Microbiological Water Purifiers.



Tested and Certified by NSF International to NSF P231 – Microbiological Water Purifiers based on the recommendations set forth in the USEPA Guide Standard and Protocol for Microbiological Water Purifiers (OPP Task Force Report, 1987). NSF/ANSI Standard 42 for the reduction of Chlorine Taste and Odor and NSF/ANSI Standard 53 for the reduction of cyst and turbidity.

Typical Applications

- Under Sink, Separate Tap
- Drinking Water Fountains
- Food Preparation and Hand Washing
- Photography/Film
- Coffee Makers
- Offices, Restaurants

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VGS-600

VCT-1

Features and Benefits

- **Protects and Cleans** – Removes virus, bacteria, cysts, and other particles down to 0.015 micron in size without relying on the addition of chemicals to the water.
- **No Pump Necessary** – Requires only water pressure to operate – no need for an electric pump.
- **Application** – Provides reduction of microorganisms in the water system due to water main breaks or water treatment failure during floods and power outages.
- **No Maintenance** – No waste water or brine/concentrate flushing – simply replace cartridge.
- **Maximum Filtration** – Extra large filtering surface resists clogging.
- **Powerful Flow** – Utilizes polysulfone membrane with proprietary membrane formulation to deliver high flow at low pressure drop.
- **Longer Life** – Combined Fiberdyne™ carbon block and sediment pre-filtration for extended life and chlorine taste and odor reduction.
- **PENTEK® Protection** – Double O-ring end cap seals for robust sealing in PENTEK Seal-Safe® 3G housings.
- **No Fouling** – Filter not susceptible to common substances in water, such as hydrogen sulfide (H₂S), natural organic matter (NOM), and total dissolved solids (TDS). Retains natural mineral content of water.

Operating Specifications

Pressure Range	30-80 psi (2.07-5.5 bar)
Filter Capacity	600 gallons (2,271 L)
Temperature Range	40-100°F (4.4-38°C)
Rated Service Flow	
VGS-600:	1.35 GPM @ 60 psi (5.1 Lpm @ 4.1 bar)
VCT-1:	0.94 GPM @ 60 psi (3.78 Lpm @ 4.1 bar)

EPA Est. No. 039861-WI-001

Not certified for sale in California, Iowa and Wisconsin.

WARNING: These systems are intended for the disinfection of microbiologically contaminated water that meets all other public health standards. These systems are not intended for the treatment of water that has an obvious contamination or intentional source, such as raw sewage. These systems are not intended to convert wastewater or raw sewage into potable drinking water.

These systems are intended for use on visually clear water.

Operating Specifications – VGS-600 and VCT-1 with DVG-50 Cartridge

Substance	Influent Challenge Concentration	Max. Permissible Product Water Concentration	Reduction Requirements	Average Reduction
P231				
Bacteria: Raoultella terrigena (ATCC-33257)	2.8 x 10 ⁷ / 100 mL		≥ 99.9999%	7.43 log
Virus: MS-2 (ATCC-15597-B1)	4.3 x 10 ⁴ / mL		≥ 99.99%	4.66 log
STANDARD 42				
Chlorine Taste & Odor	2.0 mg / L ± 10%		≥ 50%	97.4%
STANDARD 53				
Turbidity	11 ± 1 NTU	0.5 NTU		99%
Cyst	Min 50,000 / L		99.95%	99.99%



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