



UrSpring™ and Virex Pro™

Domestic Water Bio-Filtration Systems

99.99% REMOVAL OF BACTERIA, VIRUSES, AND PARTICULATES



PRODUCT OVERVIEW

Microbiological contamination in domestic water is dangerous and commonplace. Waterborne microorganisms, including bacteria (Legionella, Pseudomonas, E.coli, Micobacterium, etc.), as well as a myriad of viruses and other parasites can be ingested or inhaled when proper precautions are not taken. The UrSpring™ and its larger, Virex Pro™ cousin, serve as a physical firewall, blocking 99.99% or more of all bacteria, viruses, and particulates, while leaving dissolved minerals and disinfectants intact. This 'flow-through' ultrafiltration occurs with minimal pressure loss or system disruption. Filter membranes are cleaned via a short, periodic flushing cycles. Installation of UrSpring™ and Virex Pro™ on humidifiers, cooling tower feed, water features (such as decorative fountains), misting equipment, or other water systems can prevent dangerous infections and provide significant liability protection to building owners and designers.

PRODUCT FEATURES

- ✓ Reliable, German hollow-fiber membrane technology by Seccua GmbH
- ✓ 99.99+% removal of all bacteria, viruses, and particulates, with minimal pressure loss
- ✓ Dissolved substances, including hardness minerals and disinfectants, remain in solution
- ✓ Flushes automatically, based on membrane permeability or time clock
- ✓ Working temperature range 40° - 104°F
- ✓ Automatic pressure relief at 72 psi for system protection
- ✓ NSF® 61-compliant
- ✓ 12 or 24 month membrane life, with easy replacement
- ✓ User-friendly controls
- ✓ Also available without electronic controls (flushes performed manually)
- ✓ Backed-up across USA by a qualified network of Water Control technicians, service agents, and local representatives

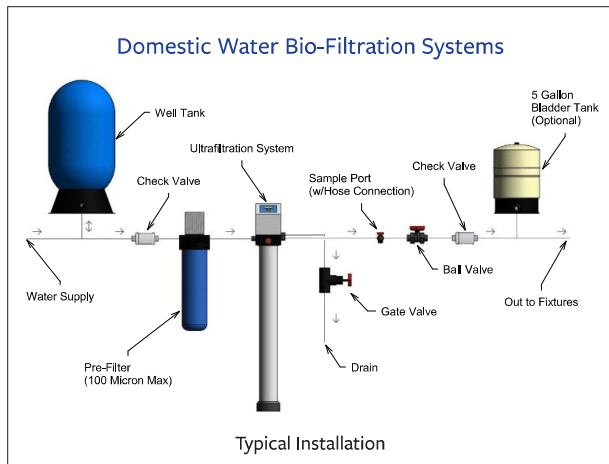




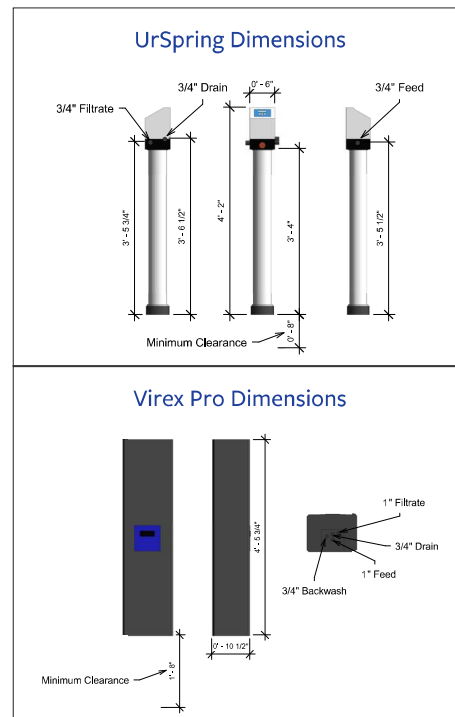
PRODUCT SPECIFICATIONS

	UrSpring™ GT Model URSGT200	Virex Pro™ Model VP400
Flow Range @ 25 psid ¹	8.4 – 12 GPM	16.8 – 24 GPM
Flow Range @ 15 psid ¹	5.6 – 8 GPM	11.2 – 16 GPM
Flow Range @ 7 psid ¹	3 – 4.3 GPM	6 – 8.6 GPM
Bacteria Reduction	99.999%	99.999%
Virus Reduction	99.99%	99.99%
Inlet/Outlet Connections ²	¾" FNPT or SWT	1" FNPT or SWT
Drain Line Size	¾"	¾"
Flush GPM (to drain)	8	16
Flush Duration	5-10 seconds	5 - 10 seconds
Max Flush Psid ³	32	32
Flush Trigger ⁴	70% permeability	70% permeability
Membrane Life (city/well)	12/24 months	12/24 months
Maximum Hardness	N/A	N/A
Maximum Iron	2 PPM	2 PPM
Flow and Psid Monitoring	Yes	Yes
Membrane Integrity Testing ⁵	No	Yes (optional)
BAS Data Output ⁶	No	Yes
Electrical Requirements	120v, 1ph (5W)	120v, 1ph (5W)

¹Based on 70 – 100% permeability. Multiple units may be installed in parallel for increased flow
²Specify desired connection.
³Install ball or gate valve on drain line so that 32psid is not exceeded during flush (automatic monitoring)
⁴Adjustable. Permeability based upon flow rate + psid
⁵Optional adder. Includes integral air compressor. Test duration: 25 min. (automatic or manual options)
⁶Gateway device required. Contact Water Control for details



Note: Pressure relief mechanism will limit your system to 72 psi



We have team members throughout the US and Canada who are ready to serve you. To get started, please talk with your local sales representative, or contact our Technical Support Department at: 1-866-405-1268 or techsupport@watercontrolinc.com.

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Water Wonderful Life

UrSpring

Seccua UrSpring. Take control over your water quality at home.

Crystal-clear and safe drinking-water from every tap in your house. The new UrSpring cleans itself intelligently, only when required, and does not interrupt the water supply when water is used.

Whole-house water safety at an unbelievable price.



Highest Removal Performance

The UrSpring Ultrafilter removes bacteria, cyst and parasites from your water (see information on the backside for detailed info on removal performance) through a natural filtration process: Due to its Ultra-fine filter pores, of which not one is larger than any bacteria or parasite, such pathogens are removed from any water source without residuals or chemicals.

Removes turbidity and iron

No matter how much turbidity, rust or other particles are delivered into your home water system from either your municipal supply or your well: Your UrSpring system will remove all such particles completely, leaving clear and fresh drinking water. It also contributes significantly to a clean and hygienic in-house piping system.

Keeps E-Coli out of your drinking water

Every single Seccua UrSpring unit has been tested for full removal capability of E-Coli before it leaves our factory. Ground-breaking functions of the unit help to minimize filter damage during operation, so your UrSpring maintains highest E-Coli reduction capability throughout its entire filter-life.

UV pre-treatment, better than ever

Not only does the UrSpring remove turbidity and reduce bacteria and parasites to a large degree, but due to its fully automated filter-cleaning it also offers the most effective pre-treatment to downstream disinfection technologies like UV or chlorination - at lower operating cost than conventional cartridge filtration.

Helps to reduce disinfection by-products

Disinfection by-products are created when disinfection chemicals react with organic matter in the water, such as virus, bacteria, parasites, but also dissolved organics like true color, typically made up from putrifying leaves, grass or wood. Seccua UrSpring removes all particulate organic matter and up to 10% of true color and therewith helps to reduce disinfection by-products effectively.

Easy to install, compact and efficient

Seccua UrSpring systems incorporate more power than any small-scale Ultrafiltration-system available: Up to twice the filter surface offer ultra-low required driving pressures, help to save energy and deliver more water for best-available comfort.

Go Green!

Without any additional equipment required, the system can be connected to solar power supplying 12 VDC. Its ultimate low power consumption of only 1,5 W during filtration gives it a superior advantage over disinfection technologies like UV, using often more than 97% less energy than small UV disinfection systems. Furthermore Seccua offers a unique recycling program for its filter elements, helping you to act more sustainably.



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seccua
Solutions for better living.

Water Wonderful Life

Performance Data

Filtration Performance ¹	
UrSpring i3	4-Person-Household
UrSpring i6	6-Person-Household
Removal performance	
Virus (MS2 Phage) ²	>99,99% (>4.7 log tested)
Bacteria (B. Subtilis, E-Coli) ²	>99,99% (>4.9 log tested)
Parasites (Crypto) ²	>99,99% (>4.7 log tested)
Water consumption during flushing	typically less than 2%

¹ Filtration performance depends on water quality and temperature. Please design carefully before deploying a UrSpring system and consult with Seccuca Authorized System Partners for advise if required.

² Virus and Bacteria removal of the Ultrafiltration membrane was measured by US EPA against EPA Standards for Ultrafiltration systems used on surface water filtration on a new membrane. The tests have been carried out using a Seccuca Virex Pro unit which uses the same filter elements than the UrSpring systems. Removal performance can decrease over time, caused by membrane damage, without the UrSpring system being able to determine such decay.

Operating Conditions

Max. operating pressure	5 bar (75 psi)
Max. operating temperature	40 °C (104 °F) optional 80 °C (176 °F)

Operating Modes

Filtration	Maximum performance at an approx pressure loss of 1 bar (14,5 psi)
Cleaning method	Flushing by interval-, time of day- or fouling.
Maximum Δp inlet to filtrate	2,5 bar (36 psi)

Programming

Cleaning Mode	Time-of-day (standard) Dependent of filter-fouling (option)
Language	English or German
Displayed Units	Metric or US
Flush when flow	Filter flush can be disabled when system recognizes water usage

Power supply

Voltage ⁴	12 V DC, 110 V AC, 230 V AC
Power consumption during filtration	approx. 1,5 W
during cleaning	max. 5,4 W (typically ⁵ daily for 20 s.)

⁴ Units are shipped with US, German and Chinese power-adaptors. Other country-specific equipment is available upon request.

⁵ The cleaning frequency depends on the contamination of the raw water and may vary. The power requirement of the pumps is not included in the consumption data.

Approvals

NSF 61, DVGW KTW, CE, VDE
 Tested by US EPA for removal of Parasites, Bacteria and Virus



Options

Membrane Protection Package
 Additional sensors to monitor the pressure inside the unit. The unit then releases occurring over-pressure through its drain valve.

Weights and Dimensions

Width	150 mm (5.9 in.)
Depth	162 mm (6.4 in.)
Height	1268 mm (49.9 in.)
Weight (dry)	12 kg

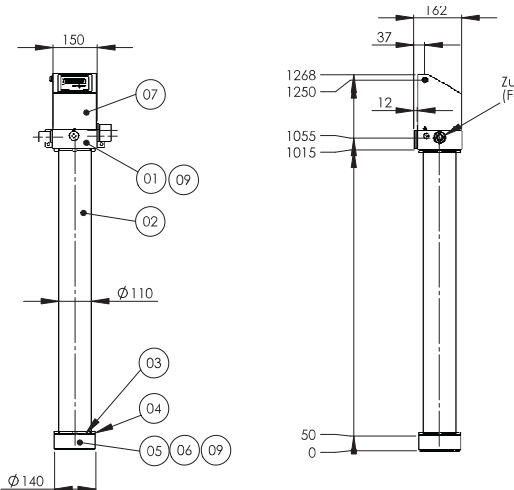
UrSpring Biofilter



Pre-filtration unit for UrSpring i3 or i6. Removes taste, odor and color from the water.

Filtration performance: 6-person-household
 Removal Performance: Removes taste, odor, color. Significant reduction of endocrine disrupting chemicals, pesticides, residuals of medication (please ask your Seccuca Sales Rep for detailed information)

Connections: Quick-Connect couplings for 3/4" pipe.



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