

X-Spot® 450

The cost-effective solution for protecting your drinking water against Viruses, Bacteria and all other Pathogenes.

At one glance

Need to remove Legionella from the water in your shower or waterborne contaminants such as viruses, bacteria or parasites from your drinking water?

The fully automated X-Spot units use high performance, ultra-strong Ultrafiltration membranes with filter-pores sized 20 Nanometers or smaller.

With its pores being 1.000 times finer than a conventional Microfilter, the X-Spot® removes Viruses, Bacteria, Legionella and all other pathogenes without any residues and without use of chemicals or radiation (see performance data below).

Performance Data

Filtration Performance ¹	38 Liters/Min. (2.280 Liters/hour) 10 gpm (14,400 gpd)
Removal performance (DHS approved) ²	
Virus	>99,99%
Bacteria	>99,999%
Parasites	>99,999%
Typical water consumption for cleaning	less than 2%

¹ Filtration performance measured at 3 bar (45 psi) differential pressure and 10°C water temperature using clean city water.

² Virus and Bacteria removal was measured under supervision of the Californian Departement of Health Services (USA). Rejection rating measured while filtering surface water containing MS2-Phages, Giardias and Cryptosporidium. The rejection capability of the unit may decrease due to fiber breakage caused by improper operation or material aging. In order to ensure sustainable pathogene removal of the unit it is recommended to regularly inspect the filter elements for fiber integrity.

Operating Conditions

Max. operating pressure	5 bar (75 psi)
Max. operating temperature	40 °C (104 °F)
Cleaning cycles	Forwardflush by timed interval
Maximum allowable differential pressure	3,5 bar (50 psi)

SeccuMem® Membrane Filter

Membrane fiber	Ultra-strong Multibore®-fiber
Nominal poresize	15 Nanometer (10 ⁻⁶ mm)
Active membrane surface area	4,5 m ² (48,4 ft ²)
Number of membrane-filter elements	1
Approvals	CA-DHS, NSF 61 (USA) DVGW-KTW recommended (Germany) CCDC (China)

Weights and Dimensions

Width (B)	379 mm (15")
Depth (A)	154 mm (6")
Height (C)	1.360 mm (54")
Weight (incl. filter elements, filled with water)	14 kg (30,8 lbs.)

The unit is wall mounted, the rack is made of stainless steel.

Power Supply

Voltage ⁴	110 - 230 V
Power consumption	
during filtration	5 W
during cleaning (usually ⁵ once per hour, duration 20 seconds)	max. 15 W

⁴ German power-system compatible, grounded safety plug as standard, other types of plugs are available upon request

⁵ The cleaning frequency depends on the quality of the feedwater and its grade of contamination with turbidity and organics.

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