

# Virex 440®

**Safeguards your drinking water from Viruses, Bacteria, all other Pathogenes.  
Removes turbidity from any raw water source.**

## At one glance

The fully automated Virex 440 unit contains 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 Virex removes Viruses, Bacteria, Legionella and all other pathogenes without any residues and without use of chemicals or radiation (see performance data below).

At the same time, Virex reduces turbidity to less than 0,1 NTU independent of feedwater quality.

## Performance Data

Filtration Performance <sup>1</sup>	0,6 Liters/Sec. (1.900 Liters/hour) 8.3 gpm (12,000 gpd)
Removal performance (DHS approved) <sup>2</sup>	
Virus	>99,99%
Bacteria	>99,999%
Parasites	>99,999%
Typical water consumption for cleaning	less than 2%

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

<sup>2</sup> Virus and Bacteria removal was measured under supervision of the Californian Department of Health Services (USA). Rejection rating measured while filtering surface water containing MS2-Phages, Giardia 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	Backwash and Forwardflush
standard initiation	timed interval
optional	differential pressure controlled
Maximum allowable differential pressure	3,5 bar (50 psi)

## SeccuMem® Membrane Filter

Membrane fiber	Ultra-strong Multibore®-fiber
Nominal poresize	15 Nanometer (10 <sup>-6</sup> mm)
Active membrane surface area	4,4 m <sup>2</sup> (47 ft <sup>2</sup> )
Number of membrane-filter elements	2
Approvals	CA-DHS, NSF 61 (USA) DVGW-KTW recommended (Germany) CCDC (China)

## Weights and Dimensions

Width (A)	30,5 cm (12")
Depth (B)	35,6 cm (14")
Height (C)	126,4 cm (49.8")
Weight (incl. filter elements, filled with water)	42,2 kg (90 lbs.)

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

## Power Supply

Voltage <sup>4</sup>	110 - 230 V
Power consumption	
during filtration	5 W
during cleaning (usually <sup>5</sup> once per hour, duration 20 seconds)	max. 35 W

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

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

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