

# 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>

>99,99% Virus Bacteria >99,999% Parasites >99,999% less than 2%

Typical water consumption for cleaning

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

#### **Operating Conditions**

Max. operating pressure 5 bar (75 psi) 40 °C (104 °F) Max. operating temperature Cleaning cycles Backwash and Forwardflush timed interval standard initiation differential pressure controlled optional 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 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") Heigth (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.

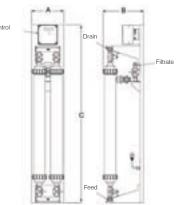
## **Power Supply**

Voltage4 110 - 230 V Power consumption

during filtration 5 W during cleaning (usually<sup>5</sup> once per hour, duration 20 seconds) max. 35 W

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 $<sup>^2</sup>$  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 ity 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.

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

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