

## Filter systems Type UFW

“Point of Entry” solution



The self-cleaning **CSW-filter system** will be delivered as prefab set. The filter set can be built-in directly into the warm water line. It removes not only bacteria and particles, but it also reduces viruses and organic matter. The filter gives you the best protection against infection from the Legionella bacterium.



Filter type UFW		50-510	63-510	75-510	90-510	90-1000
Capacity	ltr/min	10	14	20	26	52
Capacity	m <sup>3</sup> /h	0,6	0,84	1,2	1,56	3,12
Maximum water temperature	°C	80°C	80°C	80°C	80°C	80°C
Electrical supply		24 or 230V	24 or 230V	24 or 230V	24 or 230V	24 or 230V
Height (D)	mm	106	106	106	106	106
Width (E)	mm	110	125	155	175	175
Connection of flush water line (A)	inch	1/2"	1/2"	1/2"	1/2"	1/2"
Water discharge connection (B)	inch	1/2"	3/4"	3/4"	3/4"	3/4"
Water supply ©	inch	1/2"	3/4"	3/4"	3/4"	3/4"

The operation of the **CSW-filter** is based on the principal of Ultrafiltration. The **CSW-filter** system is a fully automated self-cleaning system. The filter element consists of a great number of hollow membranes built into a casing of PVC. Compared with a human hair the pores in the membrane wall are approximately 1600 times smaller. The active filter layer of the membrane is on the inside of the capillary. The water is pushed through the 0.03µm pores in the wall from the inside to the outside of the membrane whilst removing suspended solids, particles, viruses and bacteria like the Legionella bacterium out of the water. The remaining particles on the inside of the membrane can be easily removed from the membrane wall via an automatic forward flush device. This self-cleaning process makes use of the water pressure from the supply source. The remaining particles, including the bacteria and viruses will be flushed to drain.

### Specification

- Type of filtration process; **ULTRAFILTRATION**
- Efficiency for reduction of bacteria 99,9999999% (log 8)
- Efficiency for reduction of viruses 99,99% (log 2)
- Pore size of membranes 0,03 µm
- Normal life time of filter elements 3 to 5 year
- Adjustable cleaning frequency
- Adjustable cleaning time
- Electrical supply 24 or 230V
- Pressure drop 1 bar at 3 bar water pressure
- Maximum water pressure 6 bar
- Maximum water temperature 80°C
- Delivered ready for use

### The Bacteria/Legionella filter set consists of:

- Inlet valve
- non-return valve
- connection for disinfection
- pre-filter
- self-cleaning Bacteria/Legionella filter
- drain valve
- timer with adjustable cleaning time and cleaning frequency
- installation and maintenance instructions

