

# UVS-COM Ultraviolet Disinfection

**RWO**

## Reliable Disinfection of Potable Water

RWO's UV units consist of a reaction chamber with the UV lamp and a separate control cabinet. The UV lamps, which emit over 90% of the total UV emission at the optimum wave length of 254 nm, are fitted into the reaction chamber and protected by a UV transparent quartz glass.

Disinfection of potable water by UV radiation is a safe and reliable alternative to other methods such as chlorination and is also used as final polishing before distribution/prior to consumption.

## How it Works

The radiation causes photochemical reactions in the cells of micro-organisms, thus inhibiting essential cell functions. UV radiation is most suitable for sterilisation as an exposure to UV-C radiation kills more than 99,9% of the bacteria and viruses.

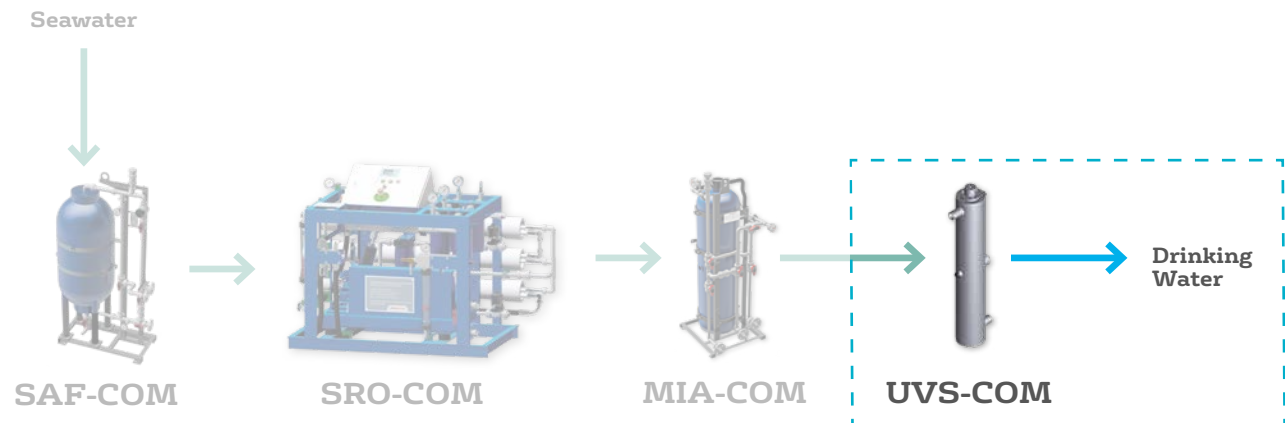
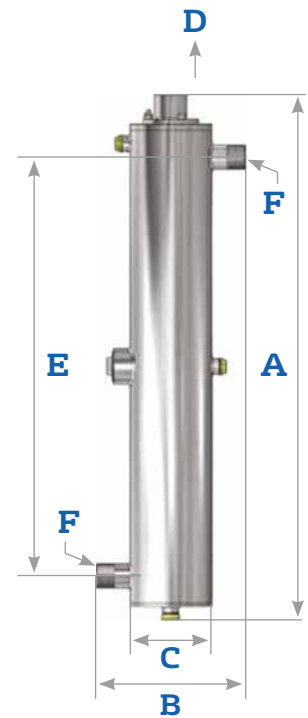
## Key Features & Benefits

- > No chemicals required
- > No effects on taste and odour
- > No disinfection by-products
- > No corrosion problems
- > Safe disinfection of drinking water
- > Easy to operate and maintain



## Dimensions

Type	UVS-COM 3	UVS-COM 5	UVS-COM 15
A	1000	1000	1350
B	165	210	210
C	89	114	114
D	900	900	1200
E	870	860	1105
F	1"	1 ½"	2"



## Design-Parameters

Type	UVS-COM 3	UVS-COM 5	UVS-COM 15
Flow-Rate (m <sup>3</sup> /h)	3	5	10-15
UV-C-Transmission -SSK m (T <sub>1cm</sub> )	96%	96%	96%
Dose (J/m <sup>2</sup> )	400	400	400
Water temperature (°C)	max. 35	max. 35	max. 55
Ambient temperature (°C)	max. 40	max. 40	max. 40
Working pressure (bar)	max. 10	max. 10	max. 10
Power supply (V/Hz)	230/50-60	230/50-60	230/50-60
Reactor (kg)	6	8.5	12
Control unit (kg)	11.5	11.5	11.5