

# Ultrafiltration System Dulcoclean® UF

Pure, crystal-clear potable water at all times



## 8 – 75 m<sup>3</sup>/h filtrate output

The ultrafiltration system Dulcoclean® UF is used in water treatment to separate the finest particles and turbidity. The membranes provides a sterile barrier, so that bacteria, parasites and viruses are safely removed from the water – even with fluctuating water quality, as can occur after heavy rainfall. The quality of the filtrate remains consistently good! In

potable water treatment, the filtration process is ideally used before final disinfection.

In regular cycles, back washes are performed to prevent blockages in the modules. Cleaning is supported by the addition of chemicals, where necessary, and adapted to the raw water quality present.

## Your benefits

- Very high retention rates for bacteria and viruses (based on MS2 phages) of 99.999% and/or 99.99%
- Minimal consumption of energy and water by economical dead-end operation
- Maximum operational reliability due to fully automated system control with PLC and data storage and by user-friendly touch panel with clear process visualisation
- All relevant events are recorded electronically for system optimisation and can be easily evaluated.
- Constant filtrate output and efficient back flushing by speed-controlled filtration and backwash pumps
- Complete solutions with perfectly coordinated pre- and post-treatment and waste water treatment

## Field of application

- Municipal potable water treatment: Potable water is produced from surface, spring or well water.
- Food and beverage industry: Improved water quality.
- Desalination: Pre-treatment for downstream desalination plants (RO, NF or ion exchange)

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## Technical Data

Dulcoclean® ultrafiltration systems are suitable for use with the following water values in the feed:

pH range	3.0 ... 12.0
Free chlorine	< 1.2 mg/l
Turbidity	0.5 ... 30 NTU
DOC	0.5 ... 12 mg/l
Suspended solids	50 mg/l

Deviating values influence the performance data and require a separate design of the system. Please contact our experts.

Dulcoclean® type	Filtration capacity* at 15 °C m³/h	Approx. backwash water per rinse m³	Raw/rinsing water connector [Rp/DN]	Approx. dimensions LxWxH [mm]
UF 2	8 - 15	0.34	1 1/2 "/2 "	1,200 x 920 x 2,100
UF 3	12 - 22.5	0.51	2 "/DN 65	1,600 x 920 x 2,100
UF 4	16 - 30	0.68	2 "/DN 80	1,600 x 920 x 2,100
UF 6	24 - 45	1.02	DN 65/DN 80	2,000 x 920 x 2,100
UF 8	32 - 60	1.36	DN 80/DN 100	2,400 x 920 x 2,100
UF 10	40 - 75	1.70	DN 100/DN 125	2,800 x 920 x 2,100

\* Filtrate performance depends on the water quality

Systems with filtration capacity of more than 18 m³/h are designed on a project basis. Offers are available on request. Please contact us.

Optionally available are a fully automatic neutralisation system for the treatment of acid and alkaline backwash water, an integrity test as well as customised data logging.