



GUIDE



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Disinfection of ultrapure water systems in four steps

(circulation systems, ultrasound)

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The following materials are required:

- New filters
- New DI water cartridges
- **Olschner Optimal E 40**
- **Olschner Optimal 9.16 P**
- **Olschner Optimal P 85**
- **Olschner Optimal D 35**
- Steam cleaner, brushes for tank cleaning

Please check:

- The system must not contain any corrosive parts such as brass (including chrome-plated brass) etc.
- The plant should generally not contain any translucent tanks or pipes.

First step – removal of organic residues

- Remove or bypass all filters and replacement cartridges on the deionised water system.
- Fill system with soft or decalcified water and heat to 60°C
- Add approx. 2 – 3 % **Olschner Optimal E 40** and 1% **Olschner Optimal 9.16 P** to the system and flush through at 60°C in circuit, including all branches and pipes
- Neutralise all chambers (with Olschner Optimal P85 to pH value 7 – 9) and drain. Then rinse with tap water or soft water.
- This takes approximately 3 hours. Repeat the process twice if necessary, or leave the system running overnight.

Step two – Removal of salt and limescale residues

- Manually clean tanks and chambers of residues
- Flush the system with acid at 20 – 30°C using 1 – 2% Olschner Optimal P 85. Please also pay attention to all branches and dead pipes – this is important to prevent recontamination
- Drain tanks and neutralise the drained medium in a separate tank if necessary (pH 6-7). Then rinse thoroughly with tap water or soft water.
- Approximately 3 hours required.



Step three – Disinfect the system (only if necessary)

- Refill system with tap water and heat to 20 – 30°C.
- Add 1- 2% Olschner Optimal D 35 to the system and flush it through the circuit, including all branches and pipes, for approx. 3 hours.
- Drain all chambers. Then flush with tap water.

Step four - refill

- Replace all filters and replacement cartridges and reinsert them
- Fill the system with deionised water or tap water
- Check and monitor water quality – conductivity, pH-value

**The description of the above process is a recommendation for cleaning the system.
Bernd Olschner GmbH does not guarantee the cleaning process.**