

HFFO14 Module Cleaning Recommendations



Clean water rinse

Replace all liquids in the HFFO14 module with DI water by rinsing the HFFO14 modules using filtration mode flow rates with the following sequence:

1. Simultaneously flush the lumen (FO active layer) and shell (support) for 5 minutes.
2. Flush the lumen side for an additional 25 minutes with the shell caps open to allow the permeating water to leave the module freely.

Membrane lifetime will be prolonged when clean water rinse is applied after each experiment. Clean water rinse will not remove extensive membrane fouling.

Chemical cleaning

- ✓ Perform alkaline clean to remove organic fouling
- ✓ Introduce acid clean on both shell and lumen side in case of inorganic fouling

Chlorine tolerance

Do not use products that contain free chlorine to clean the membrane. Dechlorination upstream of the membrane is required to protect the membrane from oxidation and ensure a long lifetime.

Suggested cleaning procedures for organic fouling

1. NaOH, KOH or similar cleaning chemicals (pH 10) @ 25°C with 30 minutes recirculation
2. Flush with cold water until neutral pH is achieved
3. Citric acid, HNO₃ or similar cleaning chemicals (pH 2) @ 30°C with 30 minutes recirculation
4. Flush with cold water until neutral pH is achieved

After every cleaning step, it is highly recommended to test and evaluate the membrane's performance under standard conditions.

Aquaporin A/S
Nymøllevvej 78
2800 Kongens Lyngby
Denmark

Phone: +45 8230 3082
sales@aquaporin.com
www.aquaporin.com

Aquaporin Asia Pte Ltd
1 Cleantech Loop, #02-14
Cleantech One
Singapore 637141

Phone: +65 6268 6343
sales@aquaporin.asia

Aquapoten Company Ltd.
12A Shougang International Trade Tower
No. 60 Xizhimen North Street
Haidian District, Beijing, 100082, China

Phone: +86-10-52408461
business@aquapoten.com
www.aquapoten.com



AQUAPORIN