

PRODUCT DATA

AQUARIGHT MBC 3

Membrane Cleaner For Inorganics

DESCRIPTION AND USE

AQUARIGHT MBC 3 is a chemical has been designed specifically for remove metal hydroxides, calcium carbonated and other similar scales from polyamide, polysulfone and thin film, composite membrane surfaces. This advanced, high strength powder has the following features:

- Highly effective at ambient temperatures.
- Contains no surfactants and is quickly rinsed away.
- Contains organic acids, detergent builders and chelating agents.

GENERAL SPECIFICATION

Appearance : Crystalline Powder
Taste : Acid
Odor : Odorless
Solubility : Soluble in cold water, hot water

DOSAGE REQUIREMENTS

AQUARIGHT MBC 3 is suitable for use with all polyamide, polysulfone and thin film, composite membranes. It can be used at temperatures from 15°C (60°F) up to the maximum recommended by the membrane manufacturer.

The standard dilution ratio is 25 gram/liter of water.

CLEANING INSTRUCTIONS

- Inspect cleaning tank, hoses and cartridge filter, install new filter elements. Fill cleaning tank with RO permeate.
- Slowly add 25 grammes of **AQUARIGHT MBC 3** for each litre of cleaning tank capacity.
- Thoroughly mix cleaning solution by using a mixer or by using a mixer or by circulating it through the cleaning pump.
- The solution may be heated to improve effectiveness.
- Do not exceed the membrane manufacturer's temperature limits.
- Circulate the solution through the membrane bak in the feed direction for one hour at the flow rate recommended by the membrane or system manufacturer. If the manufacturer's recommendations are not available, the following guidelines may be used.

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Spiral wound membrane

| Membrane diameter (inches) | Flow rate per tube (parallel flow) l/m (US gallons)/min |
|----------------------------|---|
| 4 | 23 (6) |
| 6 | 53 (14) |
| 8 | 91 (24) |
| 10 | 144 (38) |
| 12 | 204 (54) |

Hollow fibre membrane

| Membrane diameter (inches) | Flow rate per element (parallel flow) l/m (US gallons)/min |
|----------------------------|--|
| 4 | 19 (5) |
| 8 | 57 (15) |
| 10 | 76 (20) |

In case of heavy fouling, the first return flow (up to 15% of the cleaning tank volume) should be diverted to drain to prevent redeposition of removed solids.

In multi-pass systems, best result will be achieved if each pass is cleaned separately. The solution should be discarded if it becomes turbid or discoloured by removed material. A fresh solution should then be prepared before cleaning additional passes.

Rinse with permeate before returning the system to service.

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