



PRODUCT DATA

PD 140

AQUARIGHT MBC - 3

MEMBRANE CLEANER FOR INORGANICS

AQUARIGHT MBC - 3 is a low pH formulation that 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 :

pH adjusted to 3.0 ± 0.5

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

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 grammes of AQUARIGHT MBC - 3 per 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 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 bank 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.

Spiral wound membrane

Membrane diameter (inches)	Flow rate per tube (parallel flow) l/min (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/min (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.

AQUARIGHT is a trade mark of PT ZEFA VALINDO JAYA

Every endeavor has been made to ensure that the information contained in this leaflet is reliable but we cannot accept liability for any loss, injury or damage which may result from its use. Data given in this Material Safety Data Sheet are solely for guidance in safe handling and use of the product(s) by customers; they do not form part of any specification. Customers are reminded that there may be uses or application of our products which are protected by patents under which PT ZEFA VALINDO JAYA have no rights. If any difficulties arise, we shall be glad to discuss them. Before using any product, read its label.