HID Membrane Co., Ltd.
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(Product Pamphlet)

HID™ Commercial *JUMBO* RO Membranes

HID™ Commercial ***JUMBO*** RO Membrane ranks the best brands in China among RO membrane industry. It has met with the latest industry demand of much higher pure water flux with commercial RO system. Each membrane is made of HID developed & pre-examined sheet and goes through stringent making processes as well as in-house quality inspection & testing before delivery.

HID Membrane has been certified by SGS & China Jiangsu Sanitation Bureau with drinking water membrane elements.

Main Features:

- the highest pure water flux with commercial RO system;
- HID high rejection quality sheet;
- long service life for reducing the cost;
- high stabilized rejection with realized nominal flux;
- sanitary qualified elements;
- stringent in-house inspection & testing control.

Performance Specifications:

Model No.	Min. Salt Rejection (%)	Stabilized Salt Rejection (%)	Permeate Flow Rate GPD(ml/min)	Test Temp.	Test Pressure	Test water TDS
TFC-3213-1000	94	96	1000(2629)	25℃	100psi	500PPM
TFC-3413-1200	94	96	1200(3155)	25℃	100psi	500PPM
TFC-3413-1600	94	96	1600(4206)	25℃	100psi	500PPM

1. Permeate flow rate and salt rejection is based on testing conditions: 25°C, pH 7.5, 50% recovery.
2. Stabilized salt rejection is generally achieved within 24-48 hours of continuous use, depending upon feedwater characteristics and operating conditions. Active area guaranteed +/- 3%.
3. Flow rates for individual elements may vary but will be no more than 15% below the value shown.

Operating Limits:

Model No.	Maximum Operating Temperature	Maximum Operating Pressure	Feed Water PH Range, continuous operation	Maximum Feed Water Turbidity	Maximum Feed Water SDI	Chlorine tolerance
TFC-3213-1000	45℃	200psi	4-11	1NTU	5	<0.1ppm
TFC-3413-1200	45℃	200psi	4-11	1NTU	5	<0.1ppm
TFC-3413-1600	45℃	200psi	4-11	1NTU	5	<0.1ppm

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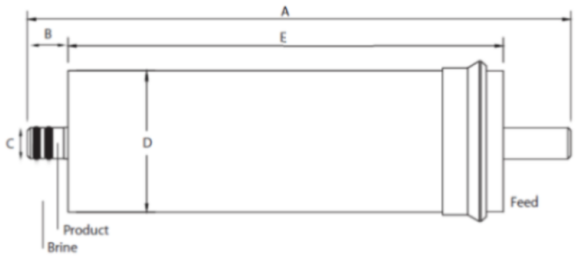
Membrane Dimensions:



Model No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
TFC-3213-1000	330	19	16.8	80	300
TFC-3413-1200	330	19	16.8	92	300
TFC-3413-1600	330	19	16.8	92	300

Operation Guidelines:

It is CRITICAL to avoid any abrupt pressure or cross-flow variations on the RO membrane elements during start-up, shutdown, cleaning or other sequences to prevent possible membrane damage.

During startup, a gradual change from a standstill to operating state is recommended as follows:

- Feed pressure should be increased gradually over a 30-90 second time frame.
- Cross-flow velocity at set operating point should be achieved gradually over 15-30 seconds.
- Permeate obtained from first hour of operation should be discarded.

Important Information:

Keep RO membrane elements moist at all times after initial wetting.

If operating limits and guidelines given in this specification are not strictly followed, the limited warranty with supplier will be null and void.

To prevent biological growth during prolonged system shutdowns, it is recommended that RO membrane elements be immersed in a storage solution.

The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements.

Maximum pressure drop across an entire pressure vessel (housing) is 50 psi (3.4 bar).

Avoid static permeate-side backpressure at all times.