Brackish Water Reverse Osmosis Membranes

CPA
High Rejection Membranes

CPA (Composite Polyamide) membranes set the standard for RO membranes – over 600 million gallons per day of pure water are produced by CPA elements for global municipalities and industries. CPA membranes are available in 4” and 8” diameters.

CPA Applications:

- Treatment of well waters for municipal drinking water
- Production of boiler feed water in power plants
- Production of ultrapure water for semiconductor, pharmaceutical and food and beverage

CPA Product Offerings*:

CPA2-4040, CPA2, CPA3, CPA5-LD-4040, CPA5-LD, CPA5 MAX, CPA6-LD, CPA6 MAX, CPA7-LD-4040, CPA7-LD, CPA7 MAX

ESPA
Energy Saving Membranes

ESPA (Energy Saving Polyamide) membranes achieve high flux / lower pressure without compromising standards for high rejection. Since their introduction in the late 1990s, the ESPA membranes have gained wide acceptance in the water treatment industry due to the significant operational cost savings associated with their use. ESPA membranes are available in 4” and 8” diameters.

ESPA Applications:

- Treatment of ground, surface and wastewater
- High purity industrial applications
- Boron reduction for potable and agricultural water
- Municipal waste water reclamation

ESPA Product Offerings*:

ESPA1-LD-4040, ESPA1, ESPA2-LD-4040, ESPA2-LD, ESPA2 MAX, ESPA2-LD MAX, ESPAB MAX, ESPA4-LD-4040, ESPA4-LD, ESPA4-LD HP, ESPA4 MAX

LFC
Low Fouling Membrane

LFC (Low Fouling Composite) membranes combine neutral surface charge and hydrophilicity, providing significant reduction in fouling rates and increasing membrane effciency by restoring nominal performance after cleaning. LFC membranes are available in 4” and 8” diameters.

LFC Applications:

- Municipal wastewater treatment
- Industrial wastewater treatment
- Wastewater with organic fouling potential

LFC Product Offerings*:

LFC3-LD-4040, LFC3-LD

Seawater Reverse Osmosis Membranes

SWC

High Rejection Membranes for Seawater Desalination

SWC (Seawater Composite) membranes offer a consistently pure end-product with lowest energy consumption at varying levels of seawater salinities. SWC membranes are available in 4”and 8” diameters.

SWC Applications:

- Conventional and hybrid seawater desalination plants
- Boron reduction for potable and agricultural water

SWC Product Offerings*:

SWC4-LD, SWC4 MAX, SWC5-LD-4040, SWC5-LD, SWC5 MAX, SWC6-LD, SWC6 MAX

Nanofiltration Membranes

Hydranautics’ broad line of nanofiltration elements include our ESNA, NANO and HYDRACoRe membranes that provide a range of salinity rejections from 30% to 90% but with high rejection for selected contaminants such as pesticides, natural organic matter (NOM), pathogens, sulfate, iron or other specific material. These nanofiltration membranes are available in 4” and 8” diameters.

Applications:

- Brackish water softening
- Removal of NOM, TOC and other organics
- Industrial waste water reclamation to achieve high recovery

Product Offerings*:

ESNA1-LF-LD-4040, ESNA1-LF-LD, ESNA1-LF2-LD-4040, ESNA1-LF2-LD, ESNA4-LD, NANO-SW-4040, NANO-SW, NANO-SW MAX, HYDRACoRe10-LD-4040, HYDRACoRe10-LD, HYDRACoRe50-LD-4040, HYDRACoRe50-LD

Integration Membrane Solutions Design (IMSDesign Cloud)

IMSDesign Cloud the world’s first cloud-based membrane projection software which can be accessed on www.imsdesign.com. It empowers you with the flexibility to perform membrane projections, anytime, anywhere using any device. This next gen integrated membrane projection software will enable you to simulate various combinations of RO, NF and UF membrane projections in a seamless manner.

* Element specification sheets and technical bulletins are available at www.membranes.com. The LD variant of a membrane uses the low-differential LD Technology® which minimizes colloidal fouling when used with conventional pre-treatment equipment. LD membranes offer consistently low feed pressures and longer intervals between cleanings. The MAX variant of a membrane has 440 ft^2 (40.9 m^2) active membrane surface area. The increased membrane area reduces capital costs as fewer pressure vessels are required which also reduces the required floor space.

Installation references are also available upon request.

Solutions You Need.

Technologies You Trust!

Hydranautics Corporate office

401 Jones Road, Oceanside, CA 92058, USA Toll Free: +1-800-CPA-PURE Tel: +1 760 901 2500 Fax: +1 760 901 2578

Web: www.membranes.com Email: hy-info@nitto.com

Americas
401 Jones Road,
Oceanside,
CA 92058, USA
Tel: +1 760 901 2500

Europe and Africa
Calle Constitucion 3,
3° 5ª Sant Just
Desvern,
08960 Barcelona,
Spain
Tel: +34 934 731 722

Middle East
Office no. 31, Bldg no .
S10122 (A2) South Zone,
Jebel Ali Free Zone,
P.O.Box 112839
Dubai, UAE
Tel: +971 4 889 5806

Indian Subcontinent
516 ‘C’ Wing - 215
Atrium, Andheri Kurla
Road, Andheri (East),
Mumbai 400059,
India
Tel: +91 22 4003 0500

China
15-16F, The Place Tower
C, 150 Zunyi Road,
Changning District,
Shanghai 200051,
P.R. China
Tel: +86 21 5208 2255

SEA & Oceania
438 Alexandra Road
#19-01/04,
Alexandra Point,
Singapore 119958
Tel: +65 6879 3820

Japan
26F, Shinagawa
Season Terrace,
1-2-70, Konan,
Minato-ku, 108-0075,
Tokyo, Japan
Tel: +81 3 6632 2044