

CPA7-LD

High Flow, High Rejection RO membrane

CPA7-LD is an 8.0 inch diameter element with 400 ft² (37.2 m²) membrane area and 34 mil feed spacer for reduced colloidal fouling rate. This is the sixth generation CPA brackish water RO membrane and has the highest rejection at 99.8%, but with a lower feed pressure, reduced energy costs, compared to past versions.

Where ultra-high purity water is required under difficult water conditions, the CPA7-LD supplies the best combination of high rejection and high flow capability in a brackish water RO element, compared to all commercial brackish water RO elements.

CPA7-LD is useful in industries where high-purity water is critical like power generation, electronics, semiconductor, pharmaceutical and food & beverage.

Features and benefits:

- **Enhanced membrane chemistry** for best permeate quality at lower feed pressure
- **Improved chemical resistance** for increased membrane life
- **Innovative feed spacer design** to reduce cleaning frequency and costs
- **Proprietary vented seal carrier** to eliminate pressure-shock damage during system startup

Applications:

- Boiler makeup water for power generation
- Industrial waste water recovery
- Zero Liquid Discharge (ZLD) / HERO process
- Ultrapure water for semiconductor manufacturing
- Ultrapure water for pharmaceutical industries

Key features:

- **High permeate flow – 11,500 gpd (43.5 m³/d)**
- **High salt rejection – 99.8% (99.7% minimum)**
- **High rejection of TOC, boron, silica and nitrate**
- **Greater tolerance to high pH cleanings**
- **Lower energy consumption**
- **Best combination of high rejection/ low energy in the membrane industry**



Performance:

Permeate Flow	11,500 gpd (43.5 m ³ /d)
Salt Rejection	99.8% (99.7% minimum)

Applications Data:

pH Range, Continuous (Cleaning)	2 – 11 (1 – 13)
Maximum Feedwater SDI (15 mins.)	5.0
Maximum Feed Flow	85 gpm (19.3 m ³ /h)

Test Conditions:

- ☉ 1500 ppm NaCl solution
- ☉ 225 psi (1.55 MPa) Applied Pressure
- ☉ 77 °F (25 °C) Operating Temperature
- ☉ 15% Permeate Recovery
- ☉ 6.5 – 7.0 pH Range

CPA7-LD, Composite Polyamide RO membranes, for Your Water Treatment Needs!



Hydranautics – A Nitto Group Company is a global leader in research, including reverse osmosis, nanofiltration, ultrafiltration, and microfiltration. Our membrane products (CPA, ESPA, LFC, SWC, ESNA, HYDRAcapMAX and HYDRASub) are used extensively in municipal & industrial water and wastewater treatment.

Hydranautics has over 40 years experience in the membrane technology arena and are committed to creating innovative membrane technologies which provide clean water to a thirsty world.

Our Global Membrane Division is headquartered in Oceanside, CA, USA. With three state-of-the-art manufacturing sites located in Oceanside – CA – USA, Shiga – Japan and Shanghai – China, Hydranautics has a combined manufacturing area in excess of 1,400,000 ft² (130,064 m²). Our world-wide sales and customer service offices are located throughout Europe, Asia, the Middle East, North America and South America.

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° 5° 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

407, Palm Spring
Center, Link Road,
Malad (West),
Mumbai 400064,
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