

## CPA7-LD

### High Flow, High Rejection RO membrane

CPA7-LD is an 8.0 inch diameter element with 400 ft<sup>2</sup> (37.2 m<sup>2</sup>) 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 m<sup>3</sup>/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 <sup>3</sup> /d)
Salt Rejection	99.8% (99.7% minimum)

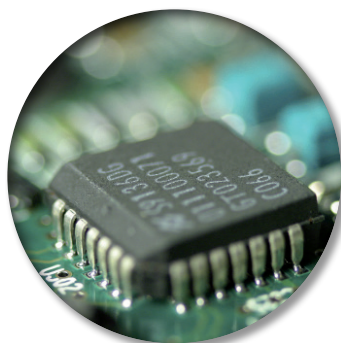
## Applications Data:

pH Range, Continuous (Cleaning)	2 – 11 (1 – 13)
Maximum Feedwater SDI (15 mins.)	5.0
Maximum Feed Flow	85 gpm (19.3 m <sup>3</sup> /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 ft<sup>2</sup> (130,064 m<sup>2</sup>). 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!

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