

CPA7 Series

High Flow, High Rejection RO membranes

The CPA7 series are the newest CPA brackish water RO membranes offering the highest salt rejection in the industry. These ultra-high rejection RO membranes are meant to fulfill your purest water quality requirements.

Where ultra-high purity water is required under difficult water conditions, the CPA7 membranes supply 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 membranes are useful in industries where high-purity water is critical like power generation, electronics, semiconductor, pharmaceutical and food & beverage.

The LD variant of these membranes using LD Technology® are available in 4" (CPA7-LD-4040) and 8" (CPA7-LD) diameters. The CPA7 MAX membrane has 440 ft² (40.9 m²) active membrane surface area which, reduces capital costs by requiring fewer pressure vessels and less floor space.

CPA7 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

Key Features of CPA7 membranes

- **Highest salt rejection – 99.8%**
- **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**

CPA7 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



Specified Performance* and General Product Description:

	Model	Permeate flow* gpd (m ³ /d)	Salt Rejection* (nominal)	Feed Spacer Thickness (mil)	Membrane Active Area ft ² (m ²)
CPA7 series	CPA7-LD-4040	2,300 (8.7)	99.8%	34	80 (7.4)
	CPA7-LD	11,500 (43.5)	99.8%	34	400 (37.2)
	CPA7 MAX	12,600 (47.7)	99.8%	26-28	440 (40.9)

* Test conditions: 1500 ppm NaCl solution, 1.55 MPa (225 psi) applied pressure, 15% recovery, operating temperature 25 °C. Specified Performance is based on data taken after approximately 30 minutes of operation. Actual testing of elements may be done at conditions which vary from these exact values; in which case, the performance is normalized back to these standard conditions. Permeate flow for individual elements may vary ±15 percent from the value specified.

CPA7 series, Composite Polyamide RO membranes, for High Purity Water Production!

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!

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