

CPA

High performance membrane elements ideal for high purity waters

Hydranautics' CPA (composite polyamide) membrane elements have become the trusted industry standard for high performance, high purity applications. CPA elements are available in both 4-inch and 8-inch diameters by 40-inch long spiral wound configurations as well as smaller diameter and shorter length elements for all high purity applications. CPA membranes provide some of the highest salt rejection rates available – every element on every order for every customer.

Hydranautics also offers Integrated Membrane Solutions (IMS) combining a range of RO, NF, UF and MF membrane technologies to achieve the most comprehensive, effective, low-cost solutions for the industry.

CPA Applications:

- Desalting of well waters for municipal drinking water supplies
- Reducing TDS (total dissolved solids) prior to ion-exchange
- Production of boiler make-up water for power plants
- Ultrapure water for semiconductor industry
- Ultrapure water for pharmaceuticals
- Ultrapure water for food and beverage

CPA Product Offerings:

- **CPA2:** CPA2 is used in the treatment of brackish waters to produce low TDS permeate. This membrane is available in 4-inch and 8-inch diameters.
- **CPA3:** CPA3 exhibits higher tolerance to feed water suspended solids.
- **CPA5:** CPA5 offers improved rejection of all ions including silica and nitrates. This membrane is available in 4-inch and 8-inch diameters.
- **CPA6:** CPA6 is a high rejection brackish water RO membrane which operates at a higher feed pressure than CPA5.
- **CPA7:** CPA7 is the latest CPA high rejection brackish water RO membrane offering the highest salt rejection of up to 99.8%.

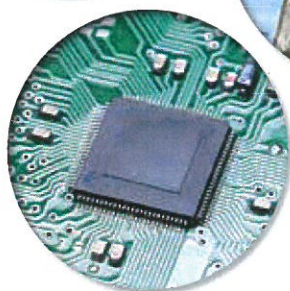
The CPA5, CPA6 and CPA7 membranes are available in the LD variant wherein low differential LD Technology® is used to minimize colloidal fouling when used with conventional pre-treatment equipment. These membranes offer consistently low feed pressures and longer intervals between cleanings.

Additionally, the CPA5 and CPA6 membranes are available in the MAX variant which have a 440 ft² (40.9 m²) active membrane surface area. The increased membrane area can reduce capital costs by requiring fewer pressure vessels and less floor space.



CPA Product Performance:

Membrane Product	Model	Permeate flow gpd (m ³ /d)	Norm. Salt Rejection	Min. Salt Rejection	Membrane Active Area ft ² (m ²)
CPA	CPA-4040E	2250 (8.5)	99.5%	99.2%	65 (6.04)
CPA2	CPA2-4040	2250 (8.5)	99.5%	99.2%	85 (7.9)
	CPA2	10000 (37.9)	99.7%	99.5%	365 (33.9)
CPA3	CPA3	11000 (41.6)	99.7%	99.6%	400 (37.1)
CPA5	CPA5-LD-4040	2100 (7.95)	99.7%	99.5%	80 (7.4)
	CPA5-LD	11000 (41.6)	99.7%	99.6%	400 (37.1)
	CPA5 MAX	12000 (45.5)	99.7%	99.6%	440 (40.9)
CPA6	CPA6-LD	8000 (30.3)	99.75%	99.6%	400 (37.1)
	CPA6 MAX	8800 (33.3)	99.75%	99.6%	440 (40.9)
CPA7	CPA7-LD	11500 (43.5)	99.8%	99.7%	400 (37.1)



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.

Ordering

Hydranautics Model	Culligan Part Number	Standard Lead Time
CPA-4040E	D1032546	10 business days
CPA2-4040	D1032547	10 business days
CPA5-LD-4040	D1032548	10 business days
CPA2	D1032549	10 business days
CPA3	D1032550	10 business days
CPA4	D1032551	10 business days
CPA5-LD	D1032552	10 business days
CPA5 MAX	D1032553	10 business days
CPA6-LD	D1032554	10 business days
CPA6 MAX	D1032555	10 business days
CPA7-LD	D1032556	10 business days