



**WATER**

**Industrial Water Purification**

1(800) CAL-WATER

## Reverse Osmosis Systems CAL-DK-LP Series 225,000 to 500,000 Gallons Per Day 150 to 350 Gallons Per Minute

The **CAL-DK Series** Reverse Osmosis (RO) units are low cost, high volume systems, that are both simple to operate and energy efficient. High product to brine ratios conserve water and reduce pre-treatment and power costs. A **CAL-DK** RO unit features state-of-the-art low pressure (~130 psi), high rejection (98-99%) spiral wound TFC membranes as standard. The result is a series of commercial-Industrial reverse osmosis systems that are both user and environmentally friendly.

### STANDARD FEATURES

- High rejection (98-99%), low pressure spiral wound 8" TFC Membranes that feature turbulent flow for the ultimate in fouling resistance
- High feed water recovery (60%-85%)
- FRP 250 psi Pressure Vessels (400 psi Optional)
- Stainless steel multi-stage pump with TEFC motor
- The PA-100 microprocessor control system integrates a panel mounted Hanna® digital TDS controller with status LED's and a 3 digit LED display on the control panel to provide real time system and sensor information, both locally and remotely. The PA-100 control system has adjustable limit switch closures for external control
- Water tight power wiring / shrouding
- Heavy-duty 5 micron pre-filter housing
- Liquid filled high impact pressure gauges on pump feed and concentrate
- Flow meters on product and waste streams
- Pump discharge throttling valve
- Concentrate control valve
- Inlet solenoid valve
- High and low pressure switches
- Membrane flush capability
- Epoxy coated frame
- Factory tested
- All components that come in contact with the product water are either inert plastic or stainless steel
- Complete instruction manual
- Fast, responsive factory and dealer support on any problem or question



**CAL-DK-225K Reverse Osmosis Unit**

**For More Information Please Call  
1(800)CAL-WATER - (800) 225-9283**

## OPTIONS

- Membrane Selections from nanofilter to 99.7% ultra-high rejection
- Skid mounted pre-treatment packages that include cartridge or multimedia filters, GAC or KDF chlorine removal, and water softener or antiscalant feeders. (Please see Pretreatment Skids literature)
- Comprehensive control and alarm panels with user adjustable limits and timers.
- Automated Fast Flush
- Digital Flow Meters
- Concentrate Recycle Valve
- **CIP** (Clean In Place) capability.
- Stainless steel pressure vessels (400 psi)
- Stainless steel plumbing and valves
- Pretreatment lockout
- High pressure switch
- Differential Pre-filter Pressure Gauges (In/Out)
- 380/415V/3Ph/50Hz Power options.
- pH - ORP monitor/controllers
- Stainless steel or powder coated frame
- Custom built units
- Export crating
- USB or Ethernet connection to download data to a computer.
- Full Computer Control/Data Acquisition. (Network capable.)
- **Cal Water support**, including service contracts. (Limited - **OR** - Turnkey.)

## SIZING AND SELECTION

Model No.	Permeate		HPP @ 3 years		Membranes		Dimensions	Approximate Weight (Lbs)
	GPD	M3/Day	GPM	HP	8" X 40" Membranes	Array	L" X W" X H"	
				(60Hz)				
<b>CAL-DK-225K</b>	225,000	852	210	40	30	3:2	350X72X80	4,500
<b>CAL-DK-270K</b>	270,000	1,022	250	50	36	4:2	350X72X80	4,900
<b>CAL-DK-320K</b>	320,000	1,211	300	50	42	5:2	350X72X90	5,200
<b>CAL-DK-360K</b>	360,000	1,363	330	(2x)30	48	5:3	350X72X90	5,750
<b>CAL-DK-410K</b>	410,000	1,552	380	(2x)30	54	6:3	350X72X90	6,250
<b>CAL-DK-450K</b>	450,000	1,703	415	(2x)40	60	7:3	350X72X90	7,500
<b>CAL-DK-500K</b>	500,000	1,893	460	(2x)40	66	8:3	350X72X90	8,500

Minimum inlet pressure is 40 psi. Maximum chlorine or other oxidizer content is 0.1 ppm. Maximum iron content is 0.05 ppm. Maximum operating temperature is 95 °F (35 °C). pH range for continuous operation is 4-11. pH for short term cleaning is 2.5-11. Maximum feed turbidity is 1 NTU. Typical operating pressure ranges from 50 psi to 175 psi. Actual operating pressure is dependent upon feed temperature, salinity and recovery flux rate. Maximum operating pressure is 375 psi.

(NOTE: Specifications are subject to change without notice. Please Consult Factory before finalizing a design or placing an order.)

**Limited Warranty:** CAL-DK systems, controls and pressure vessels have a 1-year warranty. Warranty is for the repair or replacement of the equipment only, barring misuse or abuse, at Cal Water's discretion, and excludes any loss or damage caused by defect in, or malfunction of, equipment or labor. (Please see Terms and Conditions of Sale)

**Cal-Water** has been selling, installing and servicing water purification equipment since **1946**.

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