

High Capacity Reverse Osmosis Systems



800-424-9250

K SERIES Reverse Osmosis Systems 66,000 to 198,000 gallons per day



The K Series Reverse Osmosis systems are ruggedly designed and manufactured for dependable and simple operation. These units provide a higher output of continuous quality demineralized water for many industrial applications such as boiler feed, bottled water plants, coolant or chemical mixing, and the list goes on. RO units are completely assembled and shipped ready for a trouble-free installation and start up. All units are factory tested prior to delivery to ensure quality and performance. All pumps are stainless steel for durability and have diffuser-type design for a smooth pulse free and quiet operation. The VFD pump controller is equipped with soft start to minimize membrane hydraulic shock and potential element movement. The electronic control panel is protected by a NEMA 4 enclosure and operates on 120 vac. Many standard features are included to provide the highest efficiency from a Dayton Water Systems RO unit.



Operating Requirements:

Pressure:	20 psi – 80 psi
Temperature:	35°F - 85°F
Electrical:	120/60, 5 amps
	3 phase, 208-230/460 vac
Free Chlorine:	<.1 ppm
pH:	5.8 – 10
Turbidity:	1 NTU (max)
Silt Density Index:	5 (max)



Materials of Construction:

Frame:	Powder Coated Carbon Steel
Membrane:	ELEMENTS Thin Film Composite, 8"
	HOUSINGS FRP



Pump and Motor:

Pump:	SS Multistage Centrifugal
Motor:	3 phase, 208-230/460 volt



Standard Features

5 Micron Duplex Prefilter
Recycle Flow Meter (adjustable)
Pretreatment Lockout
Low Feed Pressure Shut Down / Alarm
High Prefilter Delta P Indicator
Optional Clean-In-Place System

Permeate Flow Meter
Adjustable Permeate Divert
High Pump Pressure Alarm
Membrane Flush Cycle
Pressure Pump Start Delay (adjustable)
Optional pH Monitor & Acid or Bisulfite Feed

Concentrate Flow Meter (adjustable)
Conductivity Meter / Alarm
Storage Tank Full Indicator
High Membrane Delta P Indicator
High Pressure Stainless Steel Piping
Optional BACNet Remote Communication

Digital Display of:

Pre & Post Filter Pressure
Membrane Feed Pressure
Permeate Flow
Permeate Conductivity
Feed Temperature
Permeate Totalizer
Percent Recovery

Concentrate Pressure
Concentrate Flow
Recycle Flow
Feed Conductivity
Percent Rejection
Run Hours

LOW ENERGY PUMP & MEMBRANE AVAILABLE

Model Number	R066K	R099K	R0132K	R0165K	R0198K
Product Capacity (gals/day)*	66,000	99,000	132,000	165,000	198,000

FLOW RATES (gpm)*:

Permeate	45.8	68.5	91.6	114.5	137.5
Concentrate/Reject	22.9	34.25	45.8	57.25	68.75
Membrane Quantity	6	9	12	15	18
CONNECTIONS (NPT)					
Inlet	2.0"	3.0"	3.0"	3.0"	4.0"
Concentrate	1.5"	2.0"	2.0"	2.0"	2.0"
Permeate	1.5"	2.0"	2.0"	2.0"	3.0"
Pump Motor (3 phase, 208-230/460 volt)	15HP	20HP	25HP	30HP	40HP

*Permeate flow and salt rejection based on the following test conditions: 2000 ppm NaCl, 225 psi (1.6 MPa), 77° F (25° C), pH 8, and recovery as indicated. Flow rates for individual elements may vary - 15%/no upper limit.

PERCENTAGE IONIC REJECTION >98%
PERCENT RECOVERY 75%
DIMENSIONS 144"L x 42"W x 72"H

NOTES: Water should be free of suspended solids, iron, sulfur dioxide, and oil and relatively free of turbidity.

ADVANCED **WATER** SOLUTIONS SINCE 1939



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