

APPLIED[®] SYSTEMS

SERIES K – 28,800 - 324,000 GPD SYSTEMS

Designed to produce low dissolved solids water from tap or well water, these systems use high efficiency reverse osmosis membranes. The product water is used in applications such as semiconductor, boiler feed, pharmaceutical, municipal, water reuse, food processing, bottling, and a wide variety of other applications.

Series K systems use 8" Diameter, 40" long membrane elements. Pressure vessels contain multiple elements and are mounted in a horizontal position.

Key Features:

- Over 20 years of experience is reflected in our quality
- Heavy duty powder coated frame
- SS High pressure components, SS Pump
- Microprocessor Controlled Operation
- Conservatively engineered for reliable long term performance
- Factory tested to ensure trouble-free operation



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STANDARD EQUIPMENT

- Thin Film Composite Membranes
- FRP Pressure Vessels
- Motor Actuated Feed Valve
- Stainless Steel Centrifugal Pump
- Big Blue Filter for K-48B & K-68C, SS Housing for Others
- Low Pressure Shut-Off Switch
- Auto Feed Shut-Off
- Stainless Steel Flow Control
- Feed Pressure Gauges (2)
- System Pressure Gauges (2)
- Powder Coated Frame
- Cleaning Ports (2)
- Permeate Flowmeter
- Concentrate Flowmeter
- Permeate TDS Display
- ROC 150D Microprocessor/Controller
- Automatically Controls:
 - Motorized Actuated Feed Valve
 - Delayed High Pressure Pump Start-Up
 - Automatic Shut-Down at Tank Full
 - Low or High Pressure Fault Shut-Down
 - Pre-Treatment Lock-Out
- Two Panel Switches For:
 - Auxiliary Output enable/disable
 - System Power
- Five Indicator Lights:
 - On/Off
 - Backwash
 - Tank Full
 - LP Fault
 - HP Fault
- Hour Meter

OPTIONAL EQUIPMENT

- Stainless Steel Filter Housing
- Concentrate Recycle Flowmeter
- Permeate Flush System
- pH Monitor
- Temperature Gauge
- Float Tree for Storage Tank*
- Feed Water Flush at Shut-Down*
- Feed TDS Monitor
- Chemical Dosing System
- Feed Booster Pump
- Permeate Repressurization Pump
- PLC
- Differential Pressure Gauge
- ORP Monitor/Controller
- Integrated Cleaning
- Turbidity Meter
- Pre-Treatment Equipment*:
Carbon filter, softener, media filter
- Crating*

**Recommended Minimum Options*

Model	Capacity			No. of Elmnts*	Line Sizes (In/cm)			Dimensions (In/cm)			Approx. Weight (lb/kg)
	GPM	GPD	m ³ /hr		Inlet	Perm.	Conc.	Length	Width	Height	
K-48B	20	28,800	4.5	4	2/5	1.5/4	1.5/4	100/254	44/112	72/183	1310/594
K-68C	30	43,200	7	6	2/5	1.5/4	1.5/4	134/340	44/112	72/183	1425/646
K-98C	45	64,800	10	9	2/5	1.5/4	1.5/4	134/340	44/112	72/183	1735/787
K-128D	60	86,400	14	12	3/8	2/5	1.5/4	174/442	44/112	72/183	2005/909
K-168D	80	115,200	18	16	3/8	2/5	2/5	174/442	44/112	72/183	2275/1032
K-208D	100	144,000	23	20	3/8	3/7.5	2/5	174/442	44/112	72/183	2645/1200
K-248D	120	172,800	27	24	4/10	3/7.5	2/5	174/442	44/112	72/183	2910/1320
K-288D	140	201,600	32	28	4/10	3/7.5	2/5	174/442	60/152	72/183	3280/1488
K-368F	175	252,000	40	36	4/10	3/7.5	2/5	254/645	60/152	72/183	3795/1721
K-428F	200	288,000	45	42	4/10	3/7.5	2/5	254/645	60/152	72/183	5275/2392
K-488F	225	324,000	51	48	4/10	3/7.5	2/5	254/645	60/152	72/183	5660/2567

**Elements are 40" (102 cm) in length and 8" (20 cm) in Diameter*

NOTES

- All dimensions and weights are approximate.
- Systems rated at 77°F (25°C) using 1000 ppm to 3000 ppm feed water and approx. 225 psi (16 kg/cm²) pressure. System capacity changes significantly with water temperature and feed TDS. For higher TDS, a water analysis must be supplied and could result in modifications to the system.
- Chlorine must be removed prior to RO System if present in the feed water.
- Water must be pretreated by softener or antiscalant to avoid scaling the membranes.

ORDERING INFORMATION

Please add voltage code to the end of the model number when ordering. **Example:** K-98C-236 = 220/230v/3 ph/60 hz

Voltage Codes: 236 = 220 or 230v/ 3ph/ 60hz
436 = 460 or 480v/ 3ph/ 60 hz

235 = 220v/3ph/50hz
335 = 380v/3ph/50 hz

No Single Phase Available

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