

# APPLIED<sup>®</sup> SYSTEMS

## SERIES J – 11,500 - 26,000 GPD SYSTEMS

Designed to produce low dissolved solids water from tap or well water, these systems use highly efficient RO Membranes. The product water is used in applications such as rinse water, pharmaceutical, food processing, bottled water, hotels, beverage, hospitals, and a wide variety of other applications.

Series J Systems use 4" x 40" membrane elements. Pressure vessels contain one or two membrane elements each 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
- Stainless Steel Pressure Vessels
- Motor Actuated Feed Valve
- Stainless Steel Centrifugal Pump
- 5 Micron Filter
- Polypropylene Filter Housing
- 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
- Automatic 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
  - Feed Water Flush at Shut-Down
- 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 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 <sup>3</sup> /hr		Inlet	Perm.	Conc.	Length	Width	Height	
<b>J-54A</b>	5	7,200	1.1	5	1/2.5	.75/1.9	.75/1.9	84/213	35/89	72/183	600/272
<b>J-64A</b>	6	8,600	1.4	6	1/2.5	.75/1.9	.75/1.9	84/213	35/89	72/183	625/284
<b>J-74A</b>	7	10,000	1.6	7	1/2.5	.75/1.9	.75/1.9	84/213	35/89	72/183	650/295
<b>J-84B</b>	8	11,500	1.8	8	1/2.5	.75/1.9	.75/1.9	100/254	35/89	72/183	675/306
<b>J-104B</b>	10	14,400	2.3	10	1/2.5	.75/1.9	.75/1.9	100/254	35/89	72/183	825/375
<b>J-124B</b>	12	17,300	2.7	12	1.5/4	1/2.5	1/2.5	100/254	35/89	72/183	875/397
<b>J-144B</b>	14	20,000	3.2	14	1.5/4	1/2.5	1/2.5	100/254	35/89	72/183	925/420
<b>J-164B</b>	16	23,000	3.6	16	1.5/4	1/2.5	1/2.5	100/254	35/89	72/183	975/442
<b>J-184B</b>	18	26,000	4.1	18	1.5/4	1/2.5	1/2.5	100/254	35/89	72/183	1025/465

\* Elements are 40" (102 cm) in Length and 4" (10 cm) in Diameter

### NOTES

- All dimensions and weights are approximate.
- Systems rated at 77°F (25°C) using 1000 ppm feed water and approx. 225 psi (16 kg/cm<sup>2</sup>) 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 our voltage codes to the end of the model number when ordering. **Example:** J-84B-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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