

## Specifications - 220-USW-ARP-4000

Design		Vessels	
Configuration	Single Pass	Vessel Array	1:1
Feed Water Source	City or Well Water	Vessel Quantity	2
Standard Recovery Rate	48%		
Recovery with Concentrate Recycle	Up to 75%		
Rejection and Flow Rates		Pumps	
Nominal Salt Rejection %	98.5	Pump Type	Multi-Stage
Permeate Flow* gpm (lpm)	2.78 (10.52)	Motor HP (kw)	1.5 (1.10)
Minimum Feed Flow gpm (lpm)	5.78 (21.00)	RPM @ 60 (50Hz)	3450 (2900)
Maximum Feed Flow gpm (lpm)	14.00 (53.00)		
Minimum Concentrate Flow gpm (lpm)	3.00 (11.36)		
Connections		Electrical	
Feed inch	3/4 FNPT	Voltage	220V 60Hz 1PH
Permeate inch	1/2" John Guest Tubing	Voltage Amp Draw	8.3
Concentrate inch	1/2" John Guest Tubing	<b>System Dimensions**</b>	
Membranes		Wall Mount L x W x H inch (cm)	30 x 38 x 47 (76 x 96 x 119)
Membrane Per Vessel	1	Wall Mount Weight lb. (kg)	265 (113)
Membrane Quantity	2	Floor Mount L x W x H inch (cm)	34 x 41 x 70 (86 x 104 x 178)
Membrane Size	4" x 40" (4040)	Floor Mount Weight lb. (kg)	Stand Only 345 (156) Turnkey 410 (186)

\* Product flow rates are based on equipment test parameters.

\*\*Does not include operating space requirements.

### Operating Limits:

Maximum Feed Temperature °F (°C)	85 (29.00)	Maximum Free Chlorine ppm	0
Minimum Feed Temperature °F (°C)	40 (4.44)	Maximum TDS ppm	2000
Maximum Ambient Temperature °F (°C)	120 (48.89)	Maximum Hardness gpg	0
Minimum Ambient Temperature °F (°C)	40 (4.44)	Maximum pH (Continuous)	11
Maximum Feed Pressure psi (bar)	85 (5.86)	Minimum pH (Continuous)	5
Minimum Feed Pressure psi (bar)	45 (3.10)	Maximum pH (Cleaning 30 Min.)	12
Maximum Operating Pressure psi (bar)	150 (10.34)	Minimum pH (Cleaning 30 Min.)	2
Maximum SDI Rating SDI	<3	Maximum Turbidity NTU	1

**Test Parameters:** 550 TDS Filtered (5 Micron), De-Chlorinated, Softened City Feed Water, 35 psi (2.41 bar) Feed Pressure, 150 psi (10.34 Bar) (HF4 Membranes), 70 psi (4.83 bar) Operating Pressure, 77 Degrees F (25 Degrees C), Recover as stated, 7.0 pH. Data taken after 30 minutes of operation. Low temperatures and high TDS levels will significantly affect system's production capabilities. Computer projections should be run for individual applications which do not meet or exceed minimum and maximum operating limits.