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**WATERITE TECHNOLOGIES, INC.
PRODUCT SPECIFICATION SHEET
RO-SYS-001-R8**

**VECTAPURE RSX II LIGHT COMMERCIAL
REVERSE OSMOSIS SYSTEMS**

A. GENERAL SPECIFICATIONS

TYPE: Low pressure RO, spiral wound membrane(s) in series, recirculation loop

VOLTAGE: 110VAC/60hz, optional 220VAC/60hz

SERVICE AMPS:	110VAC	220VAC
RSX350	5.1A	2.6A
RSX700	7.5A	3.8A

FEED WATER PRESSURE: 40 psi minimum, 80 psi maximum

FEED WATER TEMP: 35° C maximum

B. MATERIAL SPECIFICATIONS:

FRAME COLOUR: White enamel

FRAME MATERIAL: Mild steel frame, rubber leveling feet

FRAME DIMENSIONS:

Height 34.25" (87cm)

Width 19" (48.25cm)

Depth 19.5" (49.5cm)

**NOMINAL OPERATING
PRESSURE:** 150 psi (10.5 bar)

SPEC RO-SYS-001R8

Oct 2015



MEMBRANE

BLACK MAX®, spiral wound TFC, BME-2521SL, 350 GPD permeate @ 300 TDS, 150 psi, 25°C feed
Alternate: Osmonics AK2521-TF

INLET SOLENOID: 110VAC/60hz, normally closed, 3/8" FNPT, 0 differential

FEED WATER INLET: 3/8" Tube

WASTE WATER OUTLET: 3/8" Tube

PRODUCT WATER OUTLET: 3/8" Tube

LOW PRESSURE SWITCH: 110VAC/60hz, low cut-out @ 15 psi

DRIVE PUMP MOTOR: 110VAC/60hz, type 48Y frame, 1725 rpm
Rotary vein type, brass, 1/3 HP RSX II 350, 1/2 HP RSX II 700 304 SS optional

DRIVE PUMP: RSX350: 97 GPH @ 150 psi
RSX700: 137 GPH @ 150 psi

DRAIN LINE FLOW CONTROL (DLFC):

RSX II MODEL #	ORIFICE COLOR	ORDER #
RSX II-350	Black	5863021
RSX II-700	Pink	5865031

RECIRCULATION VALVE: 304 SST needle valve, internally bypassed, locking nut on stem, brass seated, o-ring packing

SYSTEM FITTINGS: 303 SST / Nickel Plated Brass

LOW PRESSURE FITTINGS: DMfit standard pressure push-on

TUBING: 3/8" LDPE, Black (200 psi Max pressure)

PREFILTRATION HOUSINGS: 1 X Polypropylene, 10"x4", 100 psi rated, o-ring seated with threaded cap, pressure release

FILTER CARTRIDGES: Melt-blown spun polypropylene, 5-micron

MEMBRANE HOUSING: 304 SS body, groove clamp enclosures, 3/8" FNPT ports, EPDM o-rings

C. PERFORMANCE SPECIFICATIONS

PERMEATE PRODUCTION

RATE:	RSX350:	.21 USG/min. (0.85 litres/min.)
	RSX700:	.47 USG/min. (1.76 litres/min.)

Production rate @ feed water of 300 TDS, 25°C, system pressure @ 150 psi, 60 % recovery, inlet pressure of 60 psi.

WASTE PRODUCTION RATE:

Feed Water <1000 TDS	RSX350:	.25 USG/min. (0.94 litres/min.)
	RSX700:	.40 USG/min. (1.5 litres/min.)

Feed Water >1000 TDS	RSX350:	.40 USG/min. (1.5 litres/min.)
	RSX700:	.66 USG/min. (2.4 litres/min.)

MEMBRANE CROSSFLOW:	RSX350:	(1) 1.61 USG/min. (6.12 litres/min.)
<i>Shows crossflow by element in series order.</i>	RSX700:	(1) 2.28 USG/min. (8.66 litres/min.) (2) 2.07 USG/min. (7.86 litres/min.)

D. RECOMMENDED FEED WATER PRETREATMENT SPECIFICATIONS:

TDS:	< 2000 TDS
HARDNESS:	< 6 grains/gal. (103 mg/l)
TOTAL IRON:	< .05 ppm
TANNIN:	< .5 ppm
CHLORINE:	< .1 ppm
pH:	5.5 – 9.5
ORGANIC/MICROBIOLOGICAL ACTIVITY:	0
MANGANESE:	<.05 ppm
HYDROGEN SULPHIDE:	0
TURBIDITY:	SDI < 5.0

E. OPTIONAL EQUIPMENT

Permeate/Waste flow meters
Auto-flush solenoid and timer
Panel Mount Dual TDS monitor
Permeate Pressure Switch

F. DRY WEIGHT

RSX 350:	56lbs (25.5kgs)
RSX 700:	66lbs (30kgs)



***VECTAPURE™ RSX II 700
(shown with optional TDS
and flow meters)***