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**WATERITE, INC.
PRODUCT SPECIFICATION SHEET
RO-SYS-001 R11**

**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
CERTIFICATIONS:	Certified by INTERTEK to CSA 22.2 and Conforms to ANSI/UL Standard 979 For INDOOR USE ONLY		
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)



SPEC RO-SYS-001 R11

May 2020

**NOMINAL OPERATING
PRESSURE:**

150 PSI (10.5 bar)

MEMBRANE

BLACK MAX®, spiral wound TFC,
BME2521SL, 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, ½ 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	Yellow	5865011
RSX II-700	Pink	5865031

RECIRCULATION VALVE:

304 SS needle valve, internally bypassed, locking
nut on stem, brass seated, o-ring packing

SYSTEM FITTINGS:

303 SS / Nickel Plated Brass

LOW PRESSURE FITTINGS:

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 USGPM. (0.85 LPM)
	RSX700:	.47 USGPM. (1.76 LPM)

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 USGPM. (0.94 LPM)
	RSX700:	.40 USGPM. (1.5 LPM)

Feed Water >1000 TDS	RSX350:	.40 USGPM. (1.5 LPM)
	RSX700:	.66 USGPM. (2.4 LPM)

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

D. RECOMMENDED FEED WATER PRETREATMENT SPECIFICATIONS:

TDS:	< 2000 TDS
HARDNESS:	< 6 GPG. (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)

