

# VANTAGE™

## Reverse Osmosis Systems

### W SERIES



THE RIGHT SOLUTIONS,  
FLEXIBLE AND ECONOMICAL

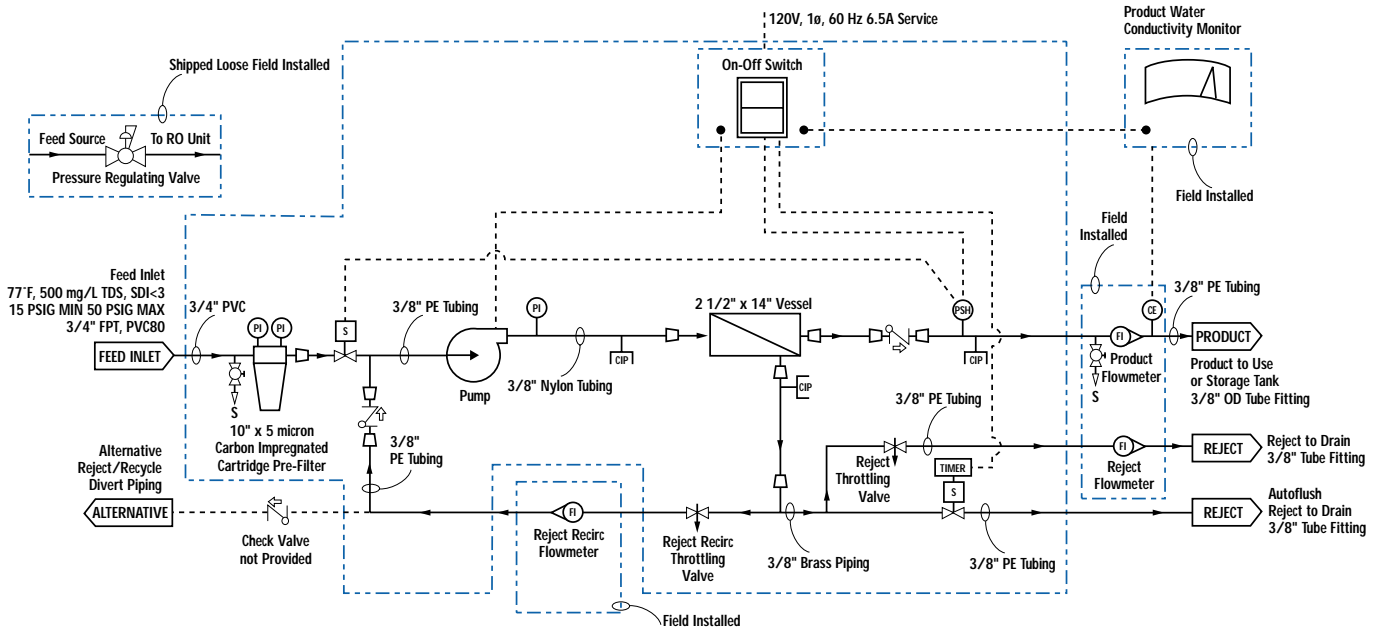
*Vantage™ Reverse Osmosis units are pre-engineered systems specifically designed for a variety of industrial applications. Vantage systems offer you the greatest flexibility possible from a standard system. The W, L, V and H Series families range in product flow from 0.1 to 23 gpm. With the many pre-packaged options available, we'll find the right solution for you.*

*Custom solutions through  
advanced standardization*

#### Capabilities

- ◆ TFC RO Membranes ensure optimum water quality
- ◆ Small footprint minimizes required space
- ◆ High quality components ensure continuous, reliable operation
- ◆ Low energy membranes reduce the cost of ownership
- ◆ Reject recycle maximizes water recovery and minimizes waste
- ◆ Pre-engineered systems mean easy installation
- ◆ Clean-in-place connections maximize system availability

# W Series Process Flow Diagram



## DESIGN PARAMETERS

Configuration	.....
Inlet Pressure Requirements	.....
Feed Water Temperature	.....
Feed Water Source	.....
Prefiltration Requirements	.....
Feed Water Fouling Index	.....
System Recovery (Nominal)	.....
Product Pressure Available	.....
Membrane Salt Rejection	.....
Performance Basis	.....

## GENERAL SPECIFICATIONS

Pressure vessels	.....
Conductivity sensor	.....
Flow indicator	.....
Flow indicator (reject)	.....
Flow indicator (recycle)	.....

## OPERATING LIMITS

Maximum Feed Temperature	.....
Minimum Feed Temperature*	.....
Maximum Feed Pressure	.....
Minimum Feed Pressure	.....
*Lower temperature may require larger booster pump	

## FEED WATER REQUIREMENTS

Maximum SDI Rating	.....
Maximum Turbidity	.....
Maximum Free Chlorine and/or chloramine	.....
Maximum pH (continuous)	.....
Minimum pH (continuous)	.....
Maximum pH (cleaning -30 min.)	.....
Minimum pH (cleaning -30 min.)	.....

## Common Specifications

Multi-Stage, Single Pass
25-50 PSIG
77°F
Well or Softened
5 μ nominal
Silt Density Index (SDI) <3
50%
25 PSIG
99% nominal (based on 2000 ppm NaCl @ 225 PSI, 77°F, pH 8, and 15% recovery)
A specific computer projection must be run for each individual application

PVC
Optional
Rotameter, PVC/acrylic construction, 1/2" FPT connections
Rotameter, PVC/acrylic construction, 1/2" FPT connections
Rotameter, PVC/acrylic construction, 1/2" FPT connections

113°F
50°F
50 PSIG
15 PSIG

3
1 NTU
<0.02 PPM
11
4
12
1

## SYSTEM SPECIFICATIONS

Model Number	WL01	WL02	WL03	WL04
Product Flow* (gpm) . . . . .	0.1	0.2	0.3	0.4
Feed Flow (gpm) . . . . .	0.2	0.4	0.6	0.8
Reject Flow (gpm) . . . . .	0.1	0.2	0.3	0.4
Reject Recycle (gpm) . . . . .	1.4	1.2	1	0.8
Cleaning Flow (gpm) . . . . . at 60 PSIG max.	5	5	5	5
<b>Connection</b>				
Feed Inlet . . . . .	¾" FNPT	¾" FNPT	¾" FNPT	¾" FNPT
Product Outlet . . . . .	¾" tube	¾" tube	¾" tube	¾" tube
Reject to Drain Outlet . . . . .	¾" tube	¾" tube	¾" tube	¾" tube
<b>Membranes</b>				
Membrane/Vessel . . . . .	1	1	1	1
Membrane Quantity . . . . .	1	2	3	4
Membrane Type . . . . .	TW 30-2514	TW 30-2514	TW 30-2514	TW 30-2514
<b>Vessels</b>				
Vessel Array . . . . .	1	1:1	1:1:1	1:1:1:1
Vessel Quantity . . . . .	1	2	3	4
<b>Pump</b>				
Pump Type . . . . .	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Pump Motor HP (ref.) . . . . .	½	½	½	½
<b>System Dimensions**</b>				
H x W x D				
inches . . . . .	23 x 12 x 20	23 x 12 x 20	23 x 12 x 20	23 x 12 x 20
cm . . . . .	58 x 30 x 51	58 x 30 x 51	58 x 30 x 51	58 x 30 x 51
Shipping Weight				
lb . . . . .	55	65	70	75
kg . . . . .	25	30	32	34
<b>Electrical</b>				
High Voltage Service . . . . .	115VAC	115VAC	115VAC	115VAC
High Voltage Amp Draw . . . . .	6.5	6.5	6.5	6.5

\*Product Flow rates are based on equipment design parameters. These Product Flow rates may not be appropriate for other feed waters.

\*\*Does not include operating space requirements.

Standard Options	Description
Conductivity monitor	This option provides an analog conductivity monitor for purposes of monitoring the product water quality. The components for this option are shipped with the unit and require field installation and set up.

STANDARD PRODUCT ORDERING INFORMATION					
Vantage RO Part Number Matrix / Single Pass Reverse Osmosis Units					
	<table border="1"> <tr> <td>VRO</td> <td>WL</td> <td>04</td> <td>AX</td> </tr> </table>	VRO	WL	04	AX
VRO	WL	04	AX		
VANTAGE MODEL					
WL	WALL commercial RO wall mount or portable				
VESSEL QUANTITY DESIGNATION					
01	1 VESSEL				
02	2 VESSELS				
03	3 VESSELS				
04	4 VESSELS				
WL OPTION DESIGNATIONS					
AC	120VAC 1PH 60HZ WITH CONDUCTIVITY MONITOR				
AX	120VAC 1PH 60HZ WITHOUT CONDUCTIVITY MONITOR				

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