



40 Series Reverse Osmosis Systems

Flow Rates from 1.8 to 32 gpm

40 Series Reverse Osmosis (RO) Systems produce from 1.8 to 32.0 gpm of high-purity water. These systems can remove up to 98% of dissolved inorganics, over 95% of total dissolved organics and all colloidal and suspended matter larger than 0.05 micron. The flexible design accommodates virtually all TFC (thin film composite) 4" spiral wound RO membranes to suit your application.

- Side-port membrane housing reduces maintenance costs
- 5 micron filtration is included to protect membranes
- 304L stainless steel pumps and piping resist corrosion
- Sample valves on the feed provide an easy way to test water quality and guarantee system performance
- UL-rated enclosure ensures quality and reliability
- Conductivity meter and PLC controller are included

SYSTEM SPECIFICATIONS

Series	41 Series RO Systems				42 Series RO Systems		43 Series RO Systems	
Model Number	41-220	41-230	41-240	41-250	42-230	42-240	43-230	43-240
Performance Specifications*								
Initial Production Capacity	1.8 gpm	2.7 gpm	3.6 gpm	4.5 gpm	5.4 gpm	7.3 gpm	8 gpm	11 gpm
Operating Pressure	300 psig	300 psig	300 psig	300 psig	300 psig	300 psig	300 psig	300 psig
System Projected Rejection Rates	> 96%	> 96%	> 96%	> 96%	> 96%	> 96%	> 96%	> 96%
Maximum Recovery	75%	75%	75%	75%	75%	75%	75%	75%
Vessel Array	1:1	1:1:1	1:1:1:1	1:1:1:1:1	1:1:1	1:1:1:1	1:1:1	2:1:1
Membranes†								
Size (inches)	4x40	4x40	4x40	4x40	4x40	4x40	4x40	4x40
Quantity	2	3	4	5	6	8	9	12
System Dimensions								
HxWxD (inches)	36x30x72	36x30x72	36x30x72	36x30x72	36x30x96	36x30x96	138x30x82	138x30x82
(cm)	914x762x1829	914x762x1829	914x762x1829	914x762x1829	914x762x2438	914x762x2438	3505x762x2083	3505x762x2083
Shipping Weight lb. (kg)	500 (227)	550 (249)	600 (272)	650 (295)	1300 (590)	1400 (635)	1500 (681)	1600 (726)
Electrical Requirements								
Power kW (HP)	6.7 (5)	6.7 (5)	6.7 (5)	6.7 (5)	6.7 (5)	6.7 (5)	6.7 (5)	13.4 (10)

†Replacement RO membrane information is available. See catalog index.

*Capacities are based on a feed water stream of well or softened water. RO projections should be run to calculate actual system performance.

ORDERING INFORMATION

Catalog Number:	67/	XX	-	XXX	-	XX
System Name	67/	41 = 1M Vessel		220 = 2 Vessels		
		42 = 2M Vessel		230 = 3 Vessels		
		43 = 3M Vessel		240 = 4 Vessels		
		44 = 4M Vessel		250 = 5 Vessels		
Series Number		(4 membranes per vessel)		260 = 6 Vessels		
				270 = 7 Vessels		
				280 = 8 Vessels		
Vessel Designation				290 = 9 Vessels		
Membrane Option						XM = No Membranes
						BL = FILMTEC® BW30-4040 shipped loose
						BN = FILMTEC® BW30-4040 installed

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Flow Rates from 1.8 to 32 gpm

SYSTEM SPECIFICATIONS (continued)

Series (continued)

Model Number	43 Series RO Systems		44 Series RO Systems					
	43-250	43-260	44-240	44-250	44-260	44-270	44-280	44-290
Performance Specifications*								
Initial Production Capacity	13 gpm	16 gpm	14 gpm	18 gpm	22 gpm	25 gpm	29 gpm	32 gpm
Operating Pressure	300 psig	300 psig	300 psig	300 psig	300 psig	300 psig	300 psig	300 psig
System Projected Rejection Rates	> 96%	> 96%	> 96%	> 96%	> 96%	> 96%	> 96%	> 96%
Maximum Recovery	75%	75%	75%	75%	75%	75%	75%	75%
Vessel Array	2:2:1	3:2:1	2:1:1	2:2:1	3:2:1	3:2:2	4:2:2	4:3:2
Membranes†								
Size	4" x 40"	4" x 40"	4" x 40"	4" x 40"	4" x 40"	4" x 40"	4" x 40"	4" x 40"
Quantity	15	18	16	20	24	28	32	36
System Dimensions								
HxWxD inches	138x30x82	138x30x82	178x30x82	178x30x82	178x30x82	178x30x82	178x30x82	178x30x82
cm	3505x762x2083	3505x762x2083	4521x762x2083	4521x762x2083	4521x762x2083	4521x762x2083	4521x762x2083	4521x762x2083
Shipping Weight lb. (kg)	1700 (772)	1800 (817)	1900 (863)	2000 (908)	2100 (953)	2200 (999)	2300 (1044)	2400 (1090)
Electrical Requirements								
Power kW (HP)	13.4 (10)	13.4 (10)	13.4 (10)	13.4 (10)	13.4 (10)	13.4 (10)	20.1 (15)	20.1 (15)

†Replacement RO membrane information is available. See catalog index.

*Capacities are based on a feed water stream of well or softened water. RO projections should be run to calculate actual system performance.

Feedwater Requirements

Maximum Silt Density Index	≤3
Maximum Langelier Saturation Index	<0
Maximum Free Chlorine	<0.02 ppm
Operating Temperature Range	36 – 95°F (2.2 – 35°C)
Operating pH Range	2 – 11
Prefiltration	5 micron
Total Dissolved Solids	<1,500 ppm

OPTION ORDERING INFORMATION

Catalog Number:

X

Options	pH Monitor = 24/S1001-161 Alarm Beacon = 24/S1001-162 High Product Pressure Switch = 24/S1001-163
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US Filter

24-hr Customer Service: (800) 466-7873