

Reverse Osmosis Systems

CAN 2540 / 4040 SERIES



Canature WaterGroup[™] has dedicated professional engineers with decades of commercial water treatment experience. Over the years, they have built a reputation for designing efficient, high quality water purification systems.

Our CAN 2540 and 4040 RO Series are affordable solutions for applications up to 20,000 gallons per day and removes up to 98% of total dissolved solids in raw feed water.

Operating Parameters

- Operating pressure: 110-150 psig (7.6-10.3 bar)
- Minimum inlet pressure: 30 psig (2.1 bar)
- Operating temperature: 33 - 100° °F to 1-38 °C
- Nominal recovery: 50 - 75%
- Nominal salt rejection: >98%

Materials of Construction

- Frame: Epoxy powder coated carbon steel
- Industrial Nema rated control box
- Membrane elements: Low Energy (XLE)
- Membrane housings: 304SS
- Piping: Sch 80 PVC, Brass, Stainless Steel
- Tubing: NSF 61 High Density Polyethylene

Pump and Motor

- Pump: Multi-Stage Centrifugal
- Motor: ODP, 115 / 230 VAC, 1-phase, 60 Hz.

Standard Features

- Electronic controller with indicator for tank full, low pressure, pre-treatment lock out, flushing, and processing
- Unit on / off switch
- Large capacity 20" BB 5-micron sediment pre-filter
- Automatic inlet shut-off valve with air purge on start up
- Automatic feed water flush
- Liquid filled pre-filter, post-filter, and membrane pressure gauges
- Product, waste, and recycle flow meters
- Stainless steel flow control valves
- Low pressure pump protection
- Pump throttle valve

Optional Features

- Fiber-glass membrane housings
- Stainless steel pump
- S-100, S-150 & S-200 Controllers
- Permeate water flush
- TDS monitor
- High rejection or Nano membranes
- CSA approval
- 304 Stainless Steel Frame

For Applications Such As:

Boiler Treatment • Spot-free Rinse • Ice Making • Greenhouses
Research and Medical Labs • Process Make-up Water • Humidification
Ion exchange Pre-treatment • Bottle Water • Food and Beverage Processing

Model	Qty Membranes	Nominal Rating		Recovery	Motor		Voltage	Connections (inches)			Dimensions, HxWxD		Shipping weight	
		USGPD	m ³ /d		HP	kW		Inlet	Waste	Product	in	mm	lbs	kg
CAN 2540-1	1	600	2.3	Up to 75%	0.75	0.56	120V/230V	3/4	1/2	1/2	55 x 28 x 24	1397 x 711 x 610	170	77
CAN 2540-2	2	1200	4.5	Up to 75%	0.75	0.56	120V/230V	3/4	1/2	1/2	55 x 28 x 24	1397 x 711 x 610	180	82
CAN 2540-3	3	1800	6.8	Up to 75%	0.75	0.56	120V/230V	3/4	1/2	1/2	55 x 28 x 24	1397 x 711 x 610	200	91
CAN 4040-1	1	2000	7.6	Up to 75%	1	0.75	230V	3/4	1/2	1/2	55 x 28 x 24	1397 x 711 x 610	200	91
CAN 4040-2	2	4000	15.1	Up to 75%	1	0.75	230V	3/4	1/2	1/2	55 x 28 x 24	1397 x 711 x 610	220	100
CAN 4040-3	3	6000	22.7	Up to 75%	1.5	1.12	230V	3/4	1/2	1/2	55 x 28 x 24	1397 x 711 x 610	240	109
CAN 4040-4	4	8000	30.3	Up to 75%	2	1.49	230V	1	3/4	3/4	55 x 28 x 24	1397 x 711 x 610	260	118
CAN 4040-5	5	10000	37.9	Up to 75%	3	2.24	230V	1	3/4	3/4	55 x 28 x 29	1397 x 711 x 737	300	136
CAN 4040-6	6	12000	45.4	Up to 75%	3	2.24	230V	1	3/4	3/4	55 x 28 x 29	1397 x 711 x 737	320	145
CAN 4040-8	8	16000	60.6	Up to 75%	3	2.24	230V	1.5	3/4	3/4	59 x 28 x 29	1499 x 711 x 737	360	164
CAN 4040-10	10	20000	75.7	Up to 75%	3	2.24	230V	1.5	3/4	3/4	59 x 28 x 29	1499 x 711 x 737	400	182

- 1 The maximum permeate flow as defined by the membrane specifications and the feed water conditions of 2,000 ppm NaCl, 77 deg. F, 200 psi operating to atmosphere.
- 2 TDS rejection (>98%) and water recovery (>75%) are variable and can be affected by temperature and feed water conditions.
- 3 Max operating pressure 180 psi

Open Storage Tank Systems (Constant Pressure Pump)

Storage systems available with Durojet SS pumps or Constant Pressure Pumps with associated installation fittings. Storage volumes from 100USG to 710USG available that are able to fit in standard 30" doorways. Other sizes based on project needs. Inquire for options and pricing within.

Feed Water Guidelines	
Feed Water Pressure	30 - 65 psi
Temperature	33 F - 100 F
pH	3.0 - 11.0
Maximum TDS	2,500 mg/l
Turbidity	< 1.0 NTU
Maximum SDI	< 5.0
Hardness	<1 grains per gallon
Iron	< 0.1
Manganese	< 0.05
Hydrogen Sulfide	zero
Organics	zero
Chlorine	zero
Oil (Hydrocarbons)	zero

DUROJET™

Pressurized Storage Tanks

Item	Description	Dimensions (WxDxH inches)	Tank Volume	Total Drawdown	
				10/50	10/60
33335	FWRO 15 Composite RO tank	26x16x16	15 Gal	9.3	10
33336	FWRO 22 Composite RO tank	34x16x16	20 Gal	13.6	14.7
33337	FWRO 40 Composite RO tank	37x21x21	40 Gal	24.7	26.8
33338	FWRO 80 Composite RO tank	64x24x24	80 Gal	49.5	53.6