

# Reverse Osmosis Water Treatment Systems

- ◆ Filtration Down To  
0.0001 Micron
- ◆ Custom Fabricated
- ◆ Wide Range of  
Applications
- ◆ Turn-Key Filtration  
Packages



# GENERAL DESCRIPTION

**ACME'S REVERSE OSMOSIS SYSTEMS** effectively remove dissolved contaminants from water down to 0.0001 micron, ideal for various applications including:

Drinking Water	Seawater Desalination	Irrigation	and many more...
Cleaning Water	Maple Syrup Production	Process Water	
Boiler Feed Water	Pharmaceutical	Cooling Towers	

## ADVANTAGES

- Ensures consistent product quality and safety complying with strict industry standards.
- Prevents scaling and corrosion in boilers and cooling systems, enhancing operational lifespan.
- Supports environmental sustainability through efficient water reuse and recycling.
- Provides ultra-pure water necessary for high-precision industrial processes, extending the shelf life of products.
- Transforms non-potable water sources like seawater into potable, securing freshwater supply in arid regions.

## HOW IT WORKS

- 1** Feed water enters through the RO system's inlet.
- 2** Water is pushed under pressure through a semi-permeable membrane.
- 3** Impurities are captured by cross-flow filtration and exit through the reject line outlet.
- 4** Purified water exits through the system's product line outlet.
- 5** Accumulated impurities on the membranes are periodically flushed out.

## CONTROL PACKAGES

Provides local controls and indicators for both manual and automatic operation. Can be customized to integrate into local control systems, providing required supervisory contacts, alarms, and/or remote controls.

### AUTOMATED OPERATION

PLC based control system with adjustable operational parameters.

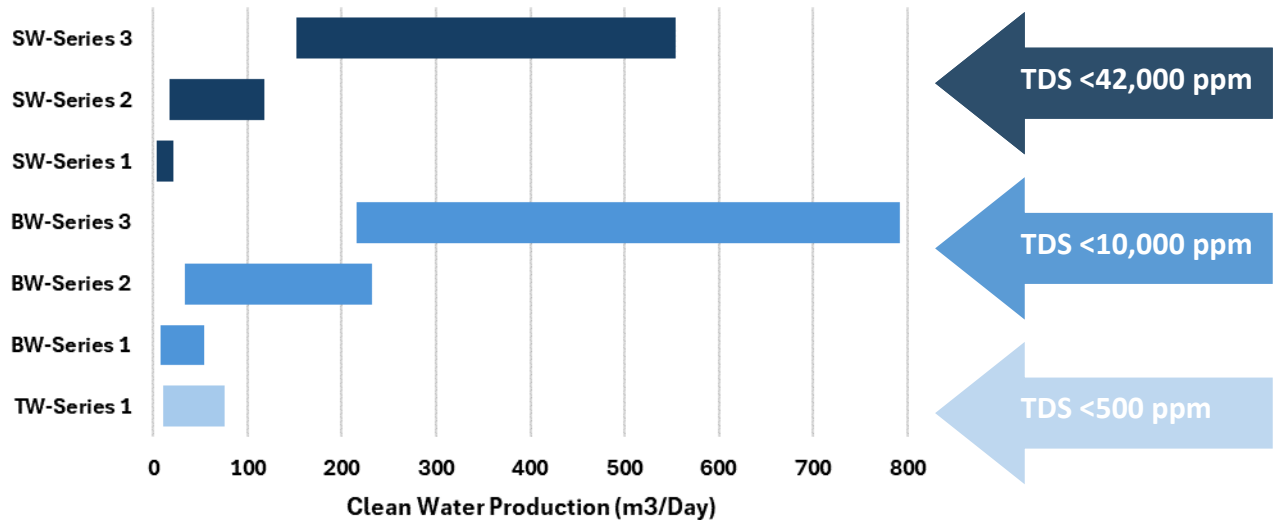
Integrated pressure sensors ensure real-time protecting the system.

### OPTIONS

- \* Single phase or three phase.
- \* 60 Hz, 50 Hz
- \* NEMA 4/12, NEMA 4X or NEMA 7X
- \* HMI, Analog outputs, Audible alarms
- \* Customizable based on requirements
- \* CSA C/US Approved



# SELECTION CHART



## ACME RO - TAP WATER (TW) SERIES

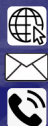
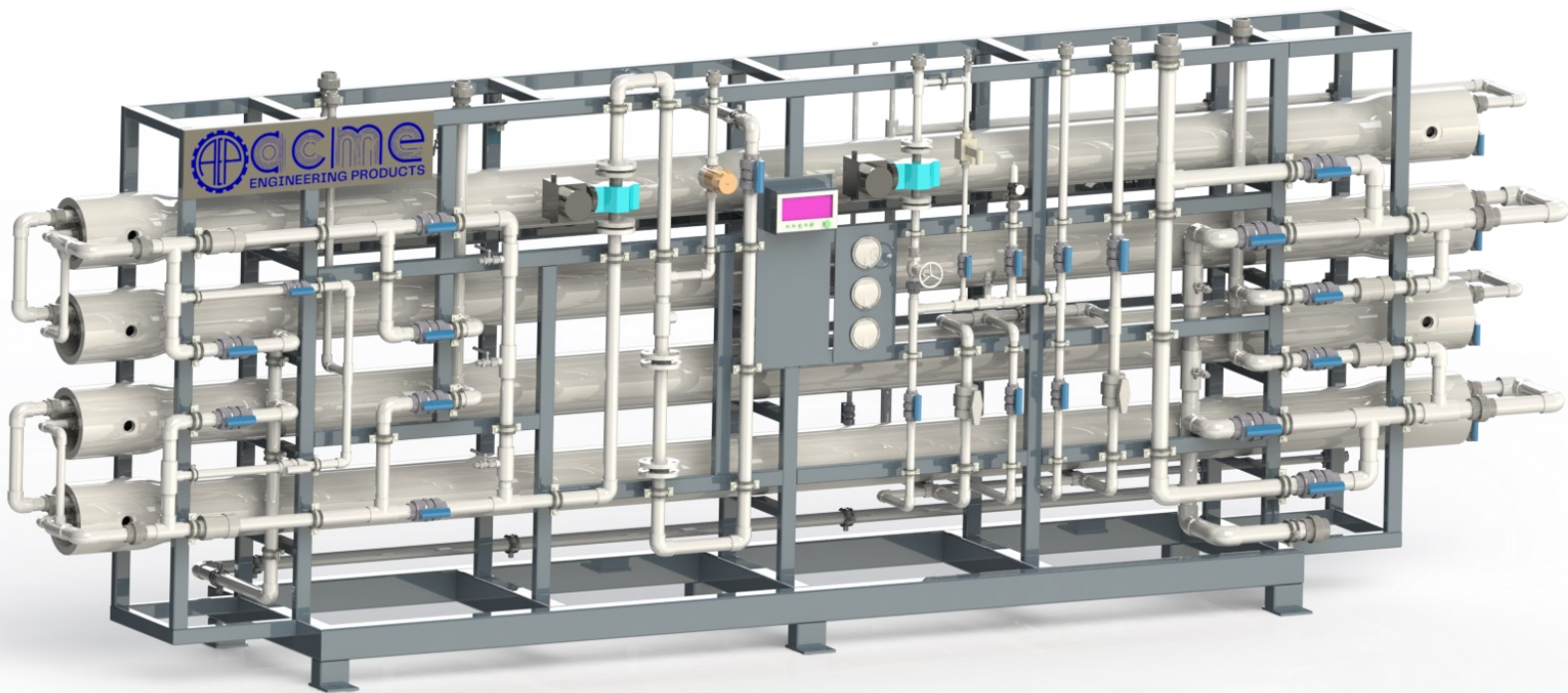
Series	Model No.	System Capacity		Membrane No. - Size	Approx. Dimensions L" x W" x H"	Recom- mended Feed TDS	Motor HP	Operating Pressure
		m <sup>3</sup> /day	GPD					
TW-Series 1	RO-TW4-10	10.8	2,850	1 - 4" x 40"	24" x 30" x 72"	<500 ppm	2-7.5	<200 PSI
	RO-TW4-21	21.6	5,700	2 - 4" x 40"	24" x 30" x 72"			
	RO-TW4-32	32.4	8,550	3 - 4" x 40"	30" x 30" x 72"			
	RO-TW4-43	43.2	11,400	4 - 4" x 40"	36" x 30" x 72"			
	RO-TW4-54	54	14,250	5 - 4" x 40"	36" x 30" x 72"			
	RO-TW4-65	64.8	17,100	6 - 4" x 40"	36" x 30" x 72"			

## ACME RO - BRACKISH WATER (BW) SERIES

Series	Model No.	System Capacity		Membrane No. - Size	Approx. Dimensions L" x W" x H"	Recom- mended Feed TDS	Motor HP	Operating Pressure
		m <sup>3</sup> /day	GPD					
BW-Series 1	RO-BW4-07	7.6	2,000	1 - 4" x 40"	24" x 30" x 72"	<10,000 ppm	3-15	< 450 PSI
	RO-BW4-15	15.3	4,050	2 - 4" x 40"	24" x 30" x 72"			
	RO-BW4-23	23	6,050	3 - 4" x 40"	30" x 30" x 72"			
	RO-BW4-30	30.7	8,100	4 - 4" x 40"	36" x 30" x 72"			
	RO-BW4-38	38.4	10,100	5 - 4" x 40"	36" x 30" x 72"			
	RO-BW4-46	46	12,150	6 - 4" x 40"	36" x 30" x 72"			
BW-Series 2	RO-BW8-33	33.1	8,750	1 - 8" x 40"	48" x 42" x 72"	<10,000 ppm	13-50	< 450 PSI
	RO-BW8-66	66.2	17,500	2 - 8" x 40"	48" x 42" x 72"			
	RO-BW8-99	99.3	26,250	3 - 8" x 40"	48" x 42" x 72"			
	RO-BW8-132	132.4	35,000	4 - 8" x 40"	48" x 42" x 72"			
	RO-BW8-165	165.6	43,750	5 - 8" x 40"	48" x 42" x 72"			
	RO-BW8-198	198.7	52,500	6 - 8" x 40"	48" x 42" x 72"			
BW-Series 3	RO-BW8I-216	216	57,000	9 - 8" x 40"	144" x 42" x 72"	<10,000 ppm	32-120	< 550 PSI
	RO-BW8I-288	288	76,000	12 - 8" x 40"	144" x 42" x 72"			
	RO-BW8I-360	360	95,100	15 - 8" x 40"	144" x 42" x 72"			
	RO-BW8I-432	432	114,100	18 - 8" x 40"	144" x 42" x 72"			
	RO-BW8I-504	504	133,100	21 - 8" x 40"	144" x 42" x 72"			
	RO-BW8I-576	576	152,100	24 - 8" x 40"	144" x 42" x 72"			

# ACME RO - SEAWATER SERIES

Series	Model No.	System Capacity		Membrane No. - Size	Approx. Dimensions L" x W" x H"	Recom- mended Feed TDS	Motor HP	Operating Pressure
		m <sup>3</sup> /day	GPD					
SW-Series 1	RO-SW4-3	3.1	820	1 - 4" x 40"	24" x 30" x 72"	<42,000 ppm	8-20	< 1,100 PSI
	RO-SW4-6	6.2	1,600	2 - 4" x 40"	24" x 30" x 72"			
	RO-SW4-9	9.3	2,450	3 - 4" x 40"	30" x 30" x 72"			
	RO-SW4-12	12.4	3,250	4 - 4" x 40"	36" x 30" x 72"			
	RO-SW4-15	15.6	4,100	5 - 4" x 40"	36" x 30" x 72"			
	RO-SW4-18	18.7	4,900	6 - 4" x 40"	36" x 30" x 72"			
SW-Series 2	RO-SW8-16	16.8	4,400	1 - 8" x 40"	48" x 42" x 72"	<42,000 ppm	22-120	< 1,100 PSI
	RO-SW8-33	33.6	8,800	2 - 8" x 40"	48" x 42" x 72"			
	RO-SW8-50	50.4	13,300	3 - 8" x 40"	48" x 42" x 72"			
	RO-SW8-67	67.2	17,700	4 - 8" x 40"	48" x 42" x 72"			
	RO-SW8-84	84	22,100	5 - 8" x 40"	48" x 42" x 72"			
SW-Series 3	RO-SW8-100	100.8	26,600	6 - 8" x 40"	48" x 42" x 72"	<42,000 ppm	75-180	< 1,100 PSI
	RO-SW8-151	151.2	34,000	9 - 8" x 40"	144" x 42" x 72"			
	RO-SW8-201	201.6	53,200	12 - 8" x 40"	144" x 42" x 72"			
	RO-SW8-252	252	66,500	15 - 8" x 40"	144" x 42" x 72"			
	RO-SW8-302	302.4	79,800	18 - 8" x 40"	144" x 42" x 72"			
	RO-SW8-352	352.8	93,200	21 - 8" x 40"	144" x 42" x 72"			
	RO-SW8-403	403.2	106,500	24 - 8" x 40"	144" x 42" x 72"			



www.acmeprod.com  
 info@acmeprod.com  
 1-888-880-5323

**USA**  
 ACME ENGINEERING PROD. INC.

Trimex Bldg., PMB 10,  
 2330 State Route 11  
 Mooers, NY 12958

**CANADA**  
 ACME ENGINEERING PROD. LTD.

5540 Pare St.  
 Montreal, Quebec  
 H4P 2M1

The information provided in this bulletin is a general description of ACME's ACRS units. All specifications are subject to change without notice. Installation, maintenance, and other instructions provided with the equipment shall be closely followed by installers, operators and owners.