

UAT™

Tap Water Reverse Osmosis Membrane Filtration Systems

Series TW: 10,000 GPD to 450,000 GPD (1.6 m³/hr to 71 m³/hr)

Severn Trent Services offers the UAT™ Series TW tap water reverse osmosis (RO) membrane filtration systems for a variety of water purification needs. The skid-mounted and pre-engineered Series TW systems use high quality components and effectively produce treated water with low TDS. Systems range in output capacities from 10,000 GPD to 450,000 GPD (1.6 m³/hr to 71 m³/hr). Our experienced process engineers have a long history designing and installing the UAT RO filtration systems.



Typical Applications

- Boiler Feed Water
- Process Water Purification
- Food and Beverage Applications
- Municipal Drinking Water
- Ion Exchange Pre-treatment
- And Others

Operating Parameters

- Design Feed Water TDS: <1,000 mg/l
- Design Temperature: 77°F
- Operating Temperature: 40°– 90°F
- Nominal Recovery Rate: 75%
- TDS Rejection Rate: 95 – 98%
- Typical Operating Pressure: 175 – 225 psi

Standard Features on TW Reverse Osmosis Systems:

- Stainless Steel RO Skid
- 400 sq ft TFC Membrane elements
- PLC Control
- Stainless Steel high pressure piping*
- PVC low pressure piping
- Product water and reject water flowmeters
- Product water conductivity monitor
- 5 micron prefilter
- FRP membrane housings
- Low pressure and high pressure gauges and safety switches



Severn Trent Services

2660 Columbia Street
Torrance, CA 90503
Tel 310 618 9700
Fax 310 618 1204

info@severntrentservices.com
www.severntrentservices.com

Model Number	Output (GPD)	Output (GPM)	Output m ³ /hr	L (in)	W (in)	H (in)	Pump Motor HP	Feed Pipe Size (in)	Product Pipe Size (in)	Reject Pipe Size (in)	Recommended CIP Model	Approx Weight (lbs)
TW-10K	10,000	7.9	1.6								CIP-01	
TW-15K	15,000	10.4	2.4								CIP-01	
TW-20K	20,000	13.9	3.2								CIP-01	
TW-25K	25,000	17.4	4.0								CIP-01	
TW-30K	30,000	20.8	4.7	160	48	72	7.5	1.5	1.5	1	CIP-01	2500
TW-40K	40,000	27.8	6.3	160	48	72	10	1.5	1.5	1	CIP-01	3150
TW-50K	50,000	34.7	7.9	160	48	72	15	2	1.5	1		3300
TW-64K	64,000	44.4	10.1	160	60	72	15	2	2	1		3400
TW-80K	80,000	55.6	12.6	160	60	72	20	2	2	1		3650
TW-100K	100,000	69.4	15.8	230	60	72	25	2.5	2	1.5		3900
TW-110K	110,000	76.4	17.4	230	60	72	25	2.5	2	1.5		4000
TW-130K	130,000	90	20.5	230	60	72	25	2.5	2	1.5		4100
TW-144K	144,000	100	22.7	230	60	72	30	2.5	2.5	1.5		4250
TW-164K	164,000	114	25.9	230	60	90	30	3	2.5	1.5		4850
TW-205K	205,000	142	32.3	230	60	90	40	4	3	2		5450
TW-250K	230,000	173	36.3	230	72	90	50	4	3	2		6000
TW-300K	300,000	208	47.3	230	72	90	50	4	4	2		6500
TW-330K	330,000	229	52	230	84	90	60	4	4	2		7100
TW-370K	370,000	257	58.4	230	84	90	75	6	4	2		7850
TW-410K	410,000	285	64.7	230	84	90	75	6	4	2		8300
TP-450K	450,000	313	71.0	230	84	90	100	6	4	2.5		8550

Ordering Guide

UAT-TW-

Model Number

10K, 15K, 20K, 25K, 30K, 40K, 50K, 64K, 80K, 100K, 110K, 130K, 144K, 164K, 205K, 250K, 300K, 330K, 370K, 410K, 450K

Reference table above

Voltage

3 - 230V/3ph/60 Hz
 5 - 380V/3 ph/50 Hz
 6 - 460V/3 ph/60 Hz

Concrete Recycle

1 - No Recycle
 2 - Recycle Included

Optional Instrument Packages

1 - Feedwater Instrumentation Package
 2 - Upgraded Product Water Instrumentation Package
 3 - Both Optional Instrumentation Packages

Notes:

- Influent feed water should not contain Iron, any oxidizing agents such as chlorine & permanganates; sulphides; BOD/COD, organics and other heavy metals. SDI should be < 3. Please consult membrane manufacturer's literature or STS for guidelines on feed water for RO.
- Capacities are based on nominal recoveries of 75%
- Feed Inlet pressure at the skid limit to be 25-30 PSI.
- Feedwater Instrumentation package includes ORP/pH Monitor, Temperature, and Conductivity Monitor. Upgraded Product Water Instrumentation package includes pH monitor

625.0001.1 04/06