

REVERSE OSMOSIS



SWT REVERSE OSMOSIS SYSTEMS

SWT's Reverse Osmosis Systems contain the most advanced technologies available in RO system design. With advanced features such as carbon block technology, heavy metal reduction prefilters, dry membranes, and optional ultraviolet bacteriological chambers, these high quality RO's are designed to provide homes and offices with laboratory grade water and membranes that provide years of service between changes.



▲ **SWT BioMaster™:** This 5 stage RO system is the top-of-the-line in drinking water protection. The unit features a built-in ultraviolet purifier strategically placed as the final stage before the faucet. Airborne bacteria can't get in, and waterborne bacteria can't get out. The unit also comes with a 5 micron spun polypro pre-filter, 1 micron heavy metal/carbon block pre-filter, 50 gpd TFC membrane, 4.5 gallon RO tank, and a 10 micron post-filter. Also standard, for extra protection, is a deluxe air gap faucet. A water saving auto shut-off valve, angle stop adapter valve, and drain line check valve are also included.

Substitutions and add-ons are allowed. Available options include: UV purifiers, additional pre-and post-filters, air gap faucets, CTA membranes, larger RO storage tanks, larger TFC membranes, RO pumps, gauges, etc.



◀ **SWT MetalsMaster™:** Our 4 stage RO is designed with an emphasis on heavy metals removal. It features a 200 psi gauge to monitor pressure drop across the membrane, so your customers will know when it's time to replace the membrane. The unit comes with a 5 micron polypro pre-filter, 1 micron heavy metal/carbon block pre-filter, 50 gpd TFC membrane, 4.5 gallon RO tank, and a 10 micron carbon block post-filter. A deluxe long reach faucet, auto shut-off valve, angle stop adapter valve, and drain line check valve are also included.



▲ **SWT Premium™:** This 3 stage system features a 5 micron carbon block pre-filter, 50 gpd TFC membrane, 4.5 gallon RO tank, and a 10 micron carbon block post-filter. Each unit includes a deluxe long reach faucet, angle stop adapter valve, water saving auto shut-off valve, and drain line check valve.



▲ **Included:** Each unit comes complete with everything needed for a quick installation including: filter housings and cartridges, RO membrane and housing, RO storage tank, mounting bracket and clips, angle stop adapter valve, auto shut-off valve, drain line check valve, housing wrench, tubing, fittings, hardware, and instructions.

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SWT LINE PRESSURE RO SYSTEMS

RO Product Water Rate Chart

(For estimation purposes only)*

INCOMING WATER PSI	Total TDS	GPD @ 40° F	GPD @ 50° F	GPD @ 60° F	GPD @ 70° F	GPD @ 80° F
40	100	10.8	13.0	15.8	19.4	23.8
40	500	8.6	9.7	12.2	15.1	18.0
40	1,000	5.4	6.5	7.9	9.7	12.2
50	100	14.4	17.3	21.2	25.7	29.9
50	500	11.5	14.4	17.6	21.6	26.3
50	1,000	8.6	10.4	13.0	15.5	19.4
60	100	18.0	22.3	27.4	33.5	41.0
60	500	15.8	19.4	22.0	28.8	33.1
60	1,000	13.0	15.8	19.4	22.0	28.8
70	100	22.7	27.4	33.5	41.0	50.0
70	500	19.1	24.5	29.9	36.7	45.0
70	1,000	17.3	20.9	25.4	31.3	37.8
80	100	25.6	31.7	38.0	46.8	57.6
80	500	23.8	28.8	33.5	43.6	52.9
80	1,000	20.9	25.2	30.1	37.8	46.1

TFC membrane TDS rejection rate: 96 to 98%
 TFC membrane nitrate rejection rate: 85 to 90%

CTA membrane TDS rejection rate: 90 to 92%
 CTA membrane nitrate rejection rate: 40 to 50%

Above information are averages based on RO units with a 36 gpd membrane. Individual membranes vary.
 50 gpd membranes will average 40% higher product water rates than above chart.
 16 gpd membranes will average 55% lower product water rates than above chart.

Maximum Operating Conditions

Operating PSI Range
 TDS Level
 Temperature Range
 Allowable Chlorine Level
 pH Range

TFC

35 to 125
 1800
 40 to 95° F
 Less than 0.1 ppm
 4.0 to 9.0

CTA

35 to 125
 1000
 40 to 80° F
 Less than 2.0 ppm
 4.0 to 9.0

* Above information is for estimation purposes only. Due to uncontrollable variances in water sources, installation procedures, or component manufacturing, no warranty, or guarantee, of performance is implied.