

3-STAGE RO SYSTEM – MODEL AQ-RO-3

	U.S.	Metric
Membrane Production ¹	35 gpd	132 lpd
Membrane TDS Reduction ¹	95% minimum	95% minimum
System Production ²	13.32 gpd	50.4 lpd
TDS Reduction ²	96.3%+ average	96.3%+ average
Maximum TDS	1000 ppm	1000 ppm
Maximum water hardness @ 6.9pH	10 gpg	2.64 gpL
Maximum Chlorine in water	3.0 ppm	3.0 ppm
Supply water pH limits	4-10	4-10
Drain (reject water) Flow	3-5 x product flow	3-5 x product flow
Empty Storage Tank Precharge	5-7 psi air	35-48 kPa air
Storage Tank Capacity ²	3.2 gallons	12.11 liters
Supply water pressure limits	40-100 psi	275-689 kPa
Supply water temperature limit	40-100° F	5-37° C
Efficiency ³	17.91%	17.91%
Recovery ⁴	29.43%	29.43%

Capacity at various water pressure levels (with 5 psi precharge) U.S. Gallons

Total Volume	20 psi	30 psi	40 psi	50 psi	60 psi	70 psi
3.2	1.4	1.8	2.0	2.2	2.4	2.5

Specifications – Qualified System Performance

Because the performance of a Reverse Osmosis Membrane is highly dependent upon pressure, temperature and TDS, the following should be used for comparison purposes only.

- 1 Industry standards measure RO Membranes performance with no back pressure on the product water, at 60 psig (414kPa) and 77°F (25°C). Further conditions on the above are 250 ppm TDS and a 30.6% recovery rate. Production rate and TDS reduction figures are for a new Membrane that has been rinsed for 24 hours. The production rate of a new Membrane can decrease by 10% per year or more, depending upon the scaling and fouling tendencies of the Feed Water.
- 2 Measured at 50 psi, 77°±2°F, and 717 mg/l TDS per NSF/ANSI Standard 58.
- 3 Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water. Under operating conditions that approximate typical daily usage.
- 4 Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed.

 **Do not use with water that is microbiologically unsafe or of unknown water quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.**

 **Filter is only to be used with cold water. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.**

Non-potable Water Sources:

Do not attempt to use this product to make safe drinking water from non-potable water sources. Do not use the system on microbiologically unsafe water, or water of unknown quality without adequate disinfection before or after the system. This system is certified for cyst reduction and may be used on disinfected water that may contain filterable cysts.

Installations in The Commonwealth of Massachusetts:

The Commonwealth of Massachusetts requires installation be performed by a licensed plumber and do not permit the use of saddle valves. Plumbing code 248—CMR of the Commonwealth of Massachusetts must be followed in these cases.