

Info Aquathin

From: Tech Support
Sent: Tuesday, October 01, 2019 1:12 PM
To: Info Aquathin
Subject: TYPICAL LAB INSTALLATION -- LDI
Attachments: CAP ASTM.pdf; TYPICAL LAB INSTALLATION.pdf; TYPICAL LAB INSTALLATION.Kuster Research Schematic.pdf



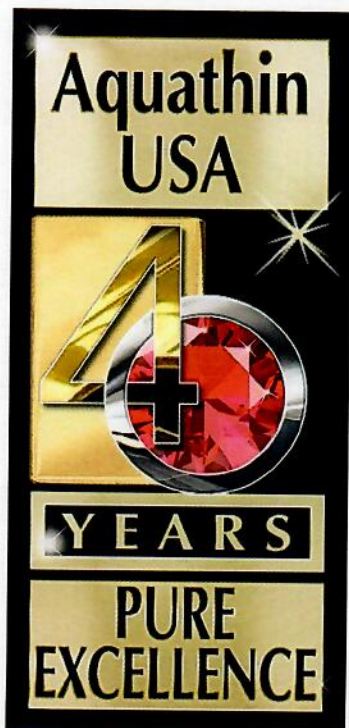
AQUATHIN LDI LAB DEIONIZATION MODULE INSTALLATION OPTIONS

The Aquathin LDI Laboratory Deionization Modules may be installed downstream of the Aquathin Commercial RO Series to polish RO permeate to achieve the desired CAP ASTM Type quality water.

- 1) Install one or twin LDI in parallel to achieve CAP I, II, III Type reagent grade.
- 2) Install twin LDI in series to achieve ASTM Type I reagent grade.

See attachments for CAP ASTM specifications and TYPICAL LAB INSTALLATION schematics.

- 3) LDI longevity and efficiency is dependent on source water quality and capacities required. Monitor daily or periodically as necessary using hand held megohm meter. Or install in-line resistivity meter.



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- (IMS 0192, NQA 12635) **
& 2008 PRESIDENT'S E STAR AWARD RECIPIENT (visit www.aquathin.com/estar2008.pps)

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SYSTEM : The proposed AQUATHIN system and installation includes the following components, features and purpose.

1. Model SYNASC-25K AQUATHIN SYNCHROMATIC Water Softener

<https://www.aquathin.com/sites/default/files/aquathin%20synchro%20reverse%20osmosis.pdf> - is to remove calcium, magnesium and iron from RO feedwater. These ions lead to premature plaquing and hydrolysis of RO membranes, resulting in reduced production, increased conductivity, and membrane failure. This softener features a 300,000 grain capacity, twin resin tanks that regenerate with softened water on demand. Metered glass-filled styrene 9000 valve, microprocessor controlled for reduced salt usage. Can regenerate one tank while softening with the other. NO DOWN TIME DURING REGENERATION. Will not backwash ions into RO, Regeneration occurs when needed, no need to over regenerate, saves salt, no complicated failure-prone solenoids needed to put RO in standby, RO can operate on demand 24 hours a day. Eliminates the need for acid and antiscalant injection. Easier to operate and inexpensive to maintain.

2. Model TGST-1.5 GAC/CBC Carbon Filter - is to dechlorinate RO feed water and to reduce organics. Must be used as a prefilter to protect RO membranes from hydrolysis. This system features automatic twin 5" x 20" high impact resistant filter housing manifolded onto a sturdy and durable powder coated steel frame.

3. MODEL 600+24K -

<https://www.aquathin.com/sites/default/files/aquathin%20reverse%20osmosis%20commercial%20system.pdf> is a fully automatic High Flow Demand Thin Film Composite Reverse Osmosis Water Purification System with the following features.

A. An FDA Approved Thin Film Composite Reverse Osmosis element producing 98+% rejection of salts and 99.9% rejection of disease-causing waterborne microorganisms at 100 psi. Total daily water capacity is 600 gallons per day. The attached chart relates the superior efficiency of Reverse Osmosis over other filtration technology. Brine to product ratio is 2:1 by design.

B. Patented IQ-EMP Intelligent Selectronic Memory Panel fully automates the 600+24K System and provides LED Self-Diagnostics for the following processes: System Power, Storage Tank Full, System On, System Off, System Flushing, Low Source Pressure. The 600+24K's unique flushing feature periodically accelerates the flow of tap water over the membranes to purge any materials that could potentially plaque the membranes -- hence, prolonged efficiency and longevity. Should water pressure or flow drop below permissible levels, the

600+24K automatically shuts off to protect the pump and electronics. Function automatically resumes when source pressure raises. Custom design solenoids and backflow prevention devices assure optimum system functions.

C. The 600+24K plumbing fittings are FDA Approved and NSF Certified "Speed Fittings" for quick installation and service.

D. The 600+24K mounting bracket is brushed anodized aluminum to resist rust and corrosion while providing a lifetime of support.

4. OPTION Model LDI - Quantity two. Once the water is prefiltered and passes the Reverse Osmosis membrane, twin AQUATHIN nuclear grade FDA Approved mixed bed Deionization Modules in series further reduces the RO permeate constituents, to the quality of water desired.

5. OPTION Model LAB 10.2 - AQUATHIN has accumulated numerous in-field test analyses from around the world proving the efficiency of our RO technology. However, due to the "absolute-ness" of this installation, with respect to rejection of disease-causing waterborne microorganisms we have elected to incorporate a 10 inch .2 micron cartridge to assure collection of any microorganisms in the unlikely event of membrane failure, followed by ultra violet light. Further, the .2 micron filter prevents any possible reverse migration of bacteria. It too, is contained in a clear see-view housing.

6. OPTION Model UV MP-16A - Is an ultra violet light in stainless steel chamber capable of water flow up to 3 gallons per minute. The UV is volt regulated and is the final system failsafe.

7. Model RO-Tanks - Water is stored in twin NSF Approved RO-86 Reservoirs where total reserve capacity of 55 gallons per tank (110 total) is available. As water is consumed, the 600+24K System begins to replenish the reservoir. Custom manifolding downstream from the tank affords multiple dispensing sites.

CERTIFICATION : AQUATHIN CORP. is an E.P.A. Registered Manufacturer and ISO-9001:2000, ISO9001:2008, ISO9001:2015 Certified, IAPMO Platinum Certified, WQA Certifications. All components are made of FDA Approved, and/or NSF Certified, UL, CSA, CE, TUV, BSI listed materials.

WARRANTY : AQUATHIN warrants this system for a period of one year for parts and workmanship.