



Culligan®

*Culligan
Exchange Tank
Deionization Service*

Beverages

Boiler Feedwater

Distilleries

Food Preparation/Processing

Glass/Mirrors

Humidification

Ice Making

Photo Processing

Plating/Anodizing

Printing

Vehicle Wash





Culligan High Purity Water Advantage

No Capital Investment

You rent instead of buy, and conserve your capital. Rental fees are part of your operating costs, spread out over the time you use the service. Rental charges can be arranged to suit your needs - per tank, per gallon, or per regeneration.

No labor cost

No operator is required.

No maintenance cost

There is no equipment to operate, repair, or replace and no equipment downtime. Your local Culligan dealer owns and maintains the equipment.

No chemicals, no hazardous wastes

All resin regenerations are handled by your local Culligan dealer. Your personnel do not handle regenerant chemicals, making OSHA standards easier to meet. You do not have to dispose of wastes to meet EPA requirements or government pollution control ordinances.

Culligan Dealer Network - Local Service, Local Knowledge

Your local Culligan dealer can respond quickly, usually in less than a day, to handle either routine service or an emergency. Being familiar with water problems in your area, your local dealer is knowledgeable about local ordinances and regulations that affect water use and disposal.

Culligan Designed Regeneration Process Ensures Consistent Water Quality

Culligan dealers use proprietary regeneration systems, developed by Culligan Research and Development, for maximum efficiency and economy in resin regeneration and fast turnaround of tanks. This type of system allows Culligan dealers the option to dedicate not only tanks, but the resin itself to a particular customer, so that your resins and tanks are not cross-contaminated by those of other customers.

System capability

Your Culligan dealer can add other processes such as softening, filtration and sterilization to meet your special needs. Exchange tank service can be used as a low-cost back-up for automatic demineralizers.





High Purity Water Systems

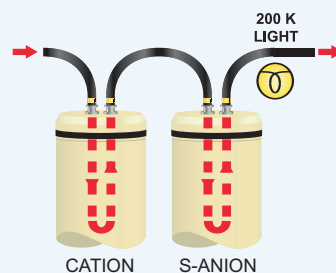
From A Single Tank To A Complete System.

Culligan high purity water systems using exchange tanks are available in several system configurations. Your Culligan dealer selects the sizes, capacities, and options, to create the system that meets your water quality and quantity needs, while maintaining a low operating cost. Tanks are available in Tripl-Hull™ steel, stainless steel or fiberglass; all tanks and components are completely compatible.

TWO-BED

The cation and anion exchangers are connected in series.

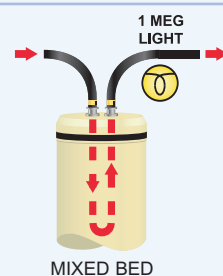
The cation tank removes positively charged ions (calcium, sodium, magnesium, iron, manganese and potassium). The anion tank removes negatively charged ions (sulfates, chlorides, carbonates, bicarbonates, nitrates and silica). Strong base anion units typically produce 0.2 megohm water at a pH of 8-9, whereas weak base anion units produce lower water quality, a pH of 6-7, and do not remove silica or CO₂.



MIXED-BED

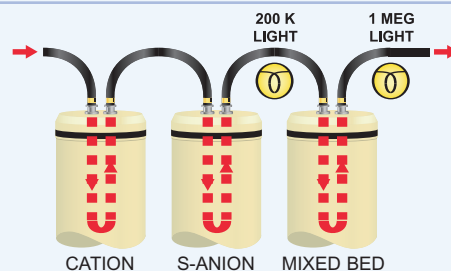
Cation and anion resins are combined and mixed in a single tank.

Thousands of cation and anion ion exchanges take place as water passes through the resin bed. Typical water quality of 2 megohm or more with neutral pH.



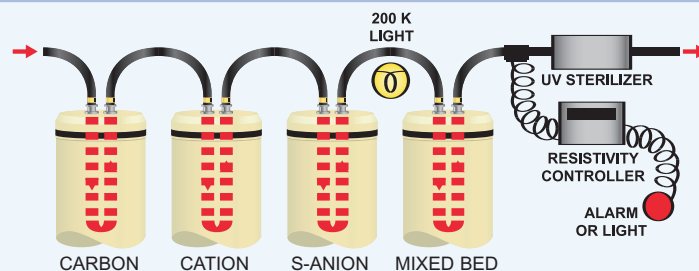
MULTIPLE-TANK SYSTEMS

Three tanks or more are connected in series; or parallel; or a combination of the two. Produces high purity water in any desired quantity. Systems may consist of strong acid cation, strong or weak base anion and mixed bed media tanks in a number of varying combinations, to produce the water quality required. Water qualities of 15 megohm or more, with a neutral pH, can typically be attained.



COMPLETE MULTIPLE-PROCESS TREATMENT SYSTEMS

Exchange service tanks using other water treatment medias create a more complete high purity water system. Typically, a system may include one or more of the following processes: softening, depth filtration, carbon adsorption, UV sterilization, submicron filtration, or other treatment equipment.



Optional Accessories:

1. Water Quality Instrumentation - monitors water quality (resistivity) or controls poor quality end points.
2. Recirculation Systems - keep high purity water in motion to maintain water quality.
3. Automatic Safety Shut-off Valve - shuts down the system to prevent delivery of low quality water to points of use.
4. Automatic Bank Switch-over System - switches from exhausted tanks to stand-by tanks to provide uninterrupted flow of high purity water.
5. Alarm System - alerts customer personnel of the need to call for a tank exchange.



When It's Built by Culligan, It's Built to Last.

*Quality products
and services you
can count on.*

For over 65 years, Culligan has led the water treatment industry in innovation and service. We offer the broadest product line, more than 200 patents and a global presence. From manufacturing the finest products to delivering expert service to your home or office, we're involved in every phase of your water treatment. Of course, Culligan® products are built to last and are backed by solid warranties* and the best trained and experienced service technicians in the industry.

Culligan Analytical Service

The Culligan Analytical Laboratory located in Northbrook IL provides its dealers with the highest quality water analysis using EPA approved methods. This laboratory was in the first group of environmental laboratories in the United States to be accredited in accordance with the standards of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Experienced chemists using state-of-the-art equipment assure accurate test results.

Culligan Computer Sizing

The CAAP® (Computer Aided Application Program) Software program can size systems for mixed-bed, two-bed strong base, two-bed weak base, tri-bed and carboxylic applications. The program calculates resin capacities, gallons per exchange, system dimensions, weights and pressure losses using all available tank types and sizes.

If you require high purity deionized water for your application, you should consider Culligan exchange tank deionization service.

“Hey Culligan Man!”®

Culligan

www.culligan.com™

1-800-CULLIGAN

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*Warranty available separately.