

UNDER THE COUNTER DEIONIZED WATER



Deionized Water (DI Water) is often synonymous with De-mineralized Water due to having all of the mineral ions removed.

Deionized Water when combined with Reverse Osmosis and Distilled Water are the methods in which the purest forms of water are created.

Available tank sizes between 4-80 gallons

DEIONIZATION

Deionization involves the passage of water through ion exchanges which removes ions such as calcium and fluoride and replaces them with hydrogen or hydroxyl ions which then reform to make purewater molecules.

H⁺ HYDROGEN ION **OH⁻ HYDROXYL ION**



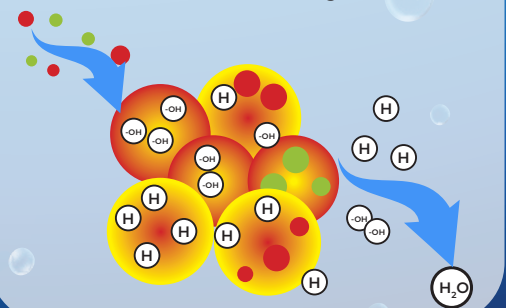
ANION RESIN

● Anions are negatively charged particles includes: Chloride, Sulfate, Nitrate, Fluoride.



CATION RESIN

● Cations are positively charged particles includes: Sodium, Calcium, Iron and Magnesium.



PURE WATER TECHNOLOGY®
of Connecticut

(860) 581-4015 | www.purewaterct.com.com
39 Maselli Road | Newington, CT 06111

ZERO TDS USES AND APPLICATIONS

LABORATORY APPLICATIONS

- As solvents to prepare various solutions
- In autoclaves to extend the life of the chamber
- To clean glassware without leaving a residue
- To sterilize sensitive equipment

AUTOMOTIVE APPLICATIONS

- Lead-acid batteries
- Cooling systems
- Aircraft engines
- Gas-turbine engines
- Washing mechanisms

PHARMACEUTICAL APPLICATIONS

- Compendial articles
- Analytical reagents
- Active pharmaceutical ingredients and intermediates

MEDICAL APPLICATIONS

- To clean wounds in order to protect them from infection
- In irrigation solutions during surgery to prevent the entrance of bacteria
- In mouth rinsing during dentistry so that no bacteria is introduced to any open wounds
- In a CPAP machine

4 STAGE RODI SYSTEM: HOW IT WORKS

STAGE 3 - RO MEMBRANE

The workhorse of the system removes 95% of impurities such as salts, bacteria, heavy metals and other organics.

0 TDS OUTPUT WATER

Ultra pure, 0 TDS water free of all impurities that is suitable for use in your aquarium.

STAGE 4 - DEIONIZATION

A cartridge of positively and negatively charged resins that remove any leftover contaminants including silicas, nitrate and phosphate.

STAGE 2 - CARBON BLOCK

A cartridge of positively and negatively charged resins that remove any leftover contaminants including silicas, nitrate and phosphate.

STAGE 1 - SEDIMENT FILTER

Removes silts and other large particulate matter that would otherwise clog later stages

WASTE WATER
To drain.

INPUT WATER
Water supply into the system from your tap water source.

