

Spectron DI System

Light Commercial Deionization System

Overview

The Spectron DI System by US Water Systems is engineered for high performance deionization in light commercial applications. Built with stainless steel reinforced housings and 2.5" x 20" cartridges, Spectron delivers extended service life, minimal bypass risk, and American-made reliability.

Key Features



Made in the USA

Designed and assembled in the United States to ensure quality, consistency, and support.



Double O-Ring Cartridge Seal

Positive-sealing dual o-rings eliminate the risk of untreated water bypass common in single-gasket systems.



Stainless Steel Reinforced Housing Threads

Strengthened to prevent cracking, galling, or seizing under repeated service in commercial environments.



Modular, Scalable Design

Available in single, twin, or triple configurations with flexible inlet/outlet plumbing options for wall-mounted or floor-standing installations.



Typical Applications

- Spot-Free Vehicle Rinse
- Laboratory & Glassware Rinse
- Electronics or Semiconductor Manufacturing
- Pharmaceutical or Medical Equipment Final Rinse
- Humidification & Misting Systems



System Specifications

Parameter	Value
Cartridge Size	(2) 2.5" x 20" Mixed Bed Cartridges
Max Operating Pressure	90 PSI
Max Operating Temp	100°F (38°C)
Inlet/Outlet Ports	Inlet = 3/4" FNPT / Outlet = 3/8" Hose Barb
Housing Material	Reinforced Polypropylene
Cartridge Seal	Dual O-Ring, Positive Seal
Cartridge Type	Mixed-Bed Deionization Resin
Mounting Options	Wall Mount or Floor Stand
Max Flow Rate	0.5 GPM
Dimensions	19" x 26" x 5"

System Capacities

The capacity of a filter set is dependent on the quality of the water fed to the system. The worse water fed to a system, the less amount of gallons of pure water it will produce. The better the feed water, the more gallons of pure water the filter will produce.

Grain Removal Capacity: 1800 Grains as CaCO₃

Feed TDS	Estimated Gallons
500 ppm	60 Gallons
200 ppm	150 Gallons
10 ppm	3000 Gallons

Replacement Filters & Parts

Part Number	Description
507-USWCB-2509-OR	2.5 x 10 Carbon Block Filter With Double O-Ring Seal
507-USWF-2520-MB-OR	DI Resin Cartridge 2.5" x 20" Double O-Ring Seal 1.5 GPM
507-USWF-2520-MB-OR	DI Resin Cartridge 2.5" x 20" Double O-Ring Seal 1.5 GPM
313-WR300	2.5" Plastic Filter Wrench - Black
646-25-BG-ORING-PACK	3-Pack O-Rings For 2.5" Filter Housings

Included With System

- System Housing(s) with Reinforced Thread Ports
- Mounting Bracket & Hardware
- (2) DI Cartridges and (1) Carbon Filter
- Lubricated O-Rings
- Installation & Operation Guide

Support & Warranty

- 2-Year Limited Warranty
- Lifetime Technical Support from US-Based Water Experts

