

# Spectron High Capacity DI System

## Light Commercial Deionization System

### Overview

The Spectron High Capacity DI System by US Water Systems is engineered for high performance deionization in light commercial applications. Built with stainless steel reinforced housings and oversized 4.5" 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.



#### Oversized Cartridge Capacity for Longer Service Life

Features large-format 4.5" x 20" cartridges nearly double the Resin volume of typical 2.5" cartridges for significantly greater treatment capacity and fewer cartridge changeouts.



#### Double O-Ring Cartridge Seal

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



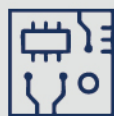
#### Stainless Steel Reinforced Housing Threads

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



### 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) 4.5" x 20" Mixed Bed Cartridges (1) 4.5" x 10" 10 Micron Carbon Block
Max Operating Pressure	90 PSI
Max Operating Temp	100°F (38°C)
Inlet/Outlet Ports	Inlet = 1" 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
Max Flow Rate	4.9 L/Min -- 1.25 gpm
Dimensions	23" x 28" x 9.5"

## 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 pack will produce.

**Grain Removal Capacity: 4760 Grains as CaCO<sub>3</sub>**

Feed TDS	Estimated Gallons
500 ppm	135 Gallons
200 ppm	340 Gallons
10 ppm	6800 Gallons

## Replacement Filters & Parts

Part Number	Description
507-USWCB-4510-10-OR	4.5 x 10 Carbon Block Filter With Double O-Ring Seal
507-USWF-4520-MB-OR	DI Resin Cartridge 4.5" x 20" Double O-Ring Seal 1.5 GPM
507-USWF-4520-MB-OR	DI Resin Cartridge 4.5" x 20" Double O-Ring Seal 1.5 GPM
313-FW45-BK	4.5" Plastic Filter Wrench - Black
646-45-BG-ORING-PACK	3-Pack O-Rings For 4.5" 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

