

# Spectron High Capacity DI System

The Spectron High Capacity DI System by US Water Systems is engineered for high performance deionization in 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.

## Technical Specifications:

Pressure Range:	10-100 psi
Temperature Range:	40 - 100 °F
Maximum Flowrate:	1.25 Gallons per minute
Resistivity Output	Type II
DI Light Set Point: Voltage	20 KOhm
	120 VAC

## Installation

1. Install system on a wall that will support 55 lbs, within 5 feet of a water supply.
2. Connection to water supply should include a shut off valve before the system.
3. Use your choice of inlet fitting to connect to the water supply valve.
4. Install the quality light assembly to the outlet of the system. This fitting should have several wraps of white Teflon tape.
5. Install tubing to the stem barb outlet. Length can vary based on need.

## Start Up

- Before installing the deionization bed cartridges and carbon cartridge, make sure the sealing gaskets are in place.
- Remove the black housing bowls and insert the 10" carbon cartridge into the cap. Place the 20" deionization cartridges in the (2) 20" caps.
- Fasten black bowls back in place, HAND TIGHT.
- Plug in the quality monitor. The light will be green.
- Open the inlet water supply valve to allow water to enter the system.
- Open the system outlet valve and drain approximately 1 gallon of water.
- At this point, the quality indicator monitor should have a green light indicating the system is ready for use.



## Operation

1. Turn off the water feed supply when the system is not in use.
2. When the system is not active, the quality light may turn red. This is normal condition. As you draw water from the system, the light will turn green again.
3. If the light remains red in a flowing condition, this is an indication that the deionization cartridges are exhausted and need to be replaced.
4. **NOTE:** Feedwater mineral content (total dissolved solids) and chemistry have a direct impact on the life of the cartridge. For TDS above 500 ppm, please contact Aries Filterworks for additional pretreatment options.

## Replacement Parts

Part Number	
507-USWCB-4510-10-OR	4.5 x 10 Inch Carbon Block
507-USWF-4520-MB-OR	4.5 x 20 Inch Deionization Filter

## Troubleshooting

Problem	Cause	Solution
DI light Red	No Flow	During a non-flow condition, the DI light may turn from green to red. Verify that flow is going across the DI light sensor.
	Air Trapped	Make sure sensor is installed in horizontal run of Tee fitting. Ensure system has been properly vented per instructions.
	Exhausted Cartridges	Replace cartridges as described in earlier section.
	High flowrate	Reduce the flowrate to the specified range. Higher flowrates will diminish the performance of the deionization resins.
	Cartridge improperly installed	Make sure the double O-Rings are lubricated and inserted properly into the filter housing cap. Failure to install properly can lead to water bypass.
	Short Cartridge Life	Check feedwater supply to determine total dissolved solids (TDS) level. Elevated levels due to changes in supply or seasonal changes may reduce cartridge life. Contact US Water for other pretreatment options.

## Cartridge Replacement

1. Turn off the inlet water feed supply.
2. Depressurize the system by opening the outlet stem barb and running the system dry.
3. Place a container under the filter housing to collect any excess water.
4. Unscrew the filter bowl housing. The included spanner wrench may be needed.
5. Remove the old cartridges and discard
6. Inspect the o-rings and add lubrication if needed.
7. Install the cartridges per the START UP procedure



US Water Systems, Inc. ("US Water Systems") warrants that your new water treatment system is built of quality material and workmanship. When properly installed and maintained, it will give years of trouble-free service. TO PLACE THIS EQUIPMENT UNDER WARRANTY, THE WARRANTY REGISTRATION MUST BE COMPLETED AND RETURNED BY THE ORIGINAL OWNER TO US WATER SYSTEMS, INC. WITHIN 30 DAYS OF INSTALLATION.

Filter Housings - We warrant that for 2 years from the date of purchase, we will replace the filter housing at no charge to you except for transportation and standard labor charges. Damages due to environmental issues or improper installation are not covered.

GENERAL PROVISIONS - This warranty does not apply to any commercial or industrial installations or to any part of the water conditioner which has been subjected to misuse, neglect, alteration or accident; or to any damage caused by fire, flood, freezing, Acts of God, or any other casualty, or if the original serial numbers have been removed.

These warranties are in lieu of all other warranties expressed, or implied, and we do not authorize any person to assume for us any other obligation on the sale of this water conditioner. No responsibility is assumed for delays or failure to meet these warranties caused by strike, government regulations or other circumstances beyond the control of US WATER SYSTEMS, INC..

To obtain warranty service, call or write: US WATER SYSTEMS, INC. 9250 Bradford Road, Suite 195 Plainfield, IN 46168 (800) 608-USWA.

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SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

THIS WARRANTY MAY BE TRANSFERRED TO A SUBSEQUENT OWNER WITH WRITTEN APPROVAL OF US WATER AND PAYMENT OF STANDARD TRANSFER FEE

