

Osmonics® Western Carbon Towers

Specifications

Western Carbon Towers are the first choice for chlorine, color, odor, taste and organics removal in water treatment systems. They are available in stainless steel or lined carbon steel construction with a wide range of standard and optional features. Carbon contact vessels are integral components in industrial water treatment designs, including membrane, ion exchange, filtration and coagulation/clarification systems. Each new Western Carbon Tower includes an initial charge of activated carbon as determined for the application.

For applications in which caustic and acidic sanitation of the carbon is sufficient, carbon steel vessels with NSF-approved linings are available. If steam or hot water is to be used - as with trihalomethane (THM) removal and bacteria control - stainless steel construction is required.



Each Western Carbon Tower Features:

- Deep Carbon Bed Tower designs which are more effective than shallow, large-diameter vessel designs. Narrow, taller vessels save floor space and require lower backwash flow rates resulting in savings on pump horsepower, water and power costs.
- Media retaining underdrains which eliminate the need for graded gravel support media under the carbon bed. The full use of vessel capacity for carbon permits higher flow rates for given tower sizes, saving space and capital cost. Media replacement is easier when there is no support bed.

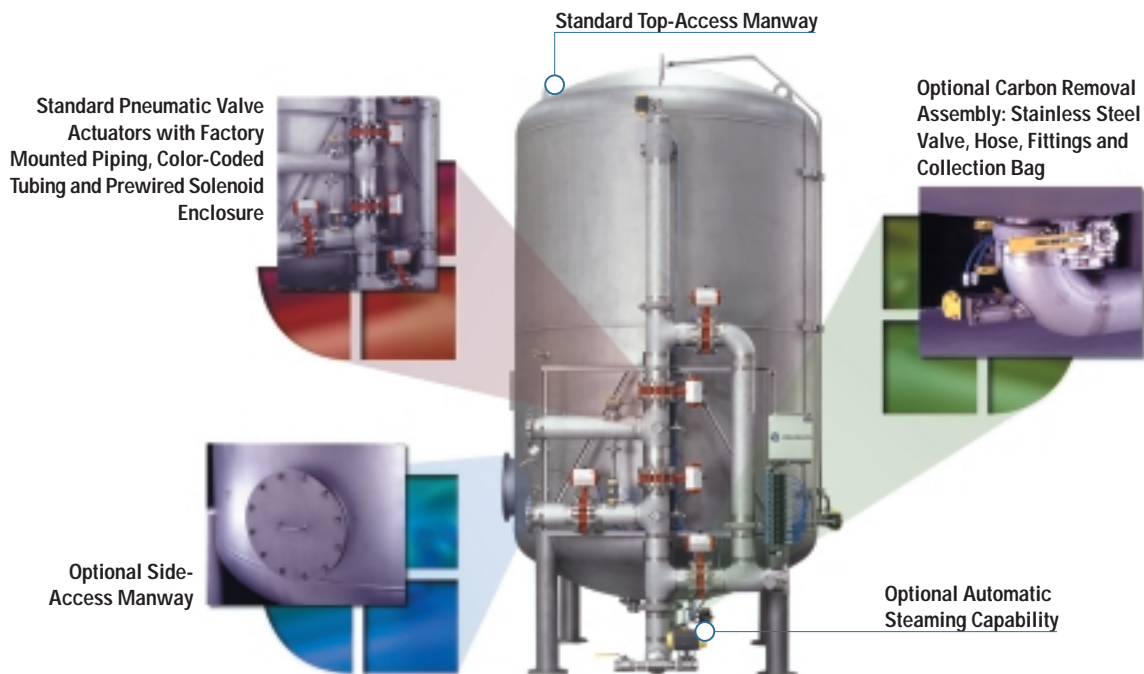


- Fully equipped, factory mounted face piping manifold which includes service valves for influent and effluent, backwash influent and effluent, and forward wash. The manifold also includes inlet and outlet pressure gauges, sample valves, backwash sight glass and face piping drain assembly. Quality components and factory assembly save installation and operating costs.
- Carbon removal assembly which allows for the quick and easy removal of spent carbon, without back breaking effort or confined space permits.



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Standard And Optional Features



Standard Features

- Activated Carbon Media Kit
- Top Access Manway
- Leveling Pads on Tank Legs
- Vessel Surface Preparation -
Stainless: Interior Acid Passivation;
 Exterior Finish, Bead Blast
Carbon Steel: Interior, NSF Lining;
 Exterior Protective Coating
- Media Removal Fitting
- Media Retaining Underdrain
- Face Piping Manifold -
 Service Valves
 Inlet & Outlet Pressure Gauges and Sample Valves
 Backwash Sight Glass
- Face Piping and Tank Drain Assemblies
- Wafer Style Butterfly Valves with Stainless Discs
- Manual Control Valves
- Temperature Gauge in Vessel Sidewall
- Pneumatic Valve Actuators
- Solenoid Enclosure for Automated Control

Optional Features

- ASME Code Stamp
- Side-Access Manway
- Media Performance Test Assemblies
- Automated Control through PLC or Mechanical Stager
- Special Piping Arrangements and Materials
- Hydraulic Carbon Removal Assembly
- Protective Slow Fill Valve Assembly for Steaming Applications
- Steam Inlet & Outlet Valves
 (Stainless Steel Vessels Only)
- All 316 Stainless Wetted Parts
- Automatic Steaming Capability
- Western Supercharger Media Charging Assembly

Call (719) 264-3937 for additional information, (800) 605-6698 in the U.S., or visit www.osmonics.com



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