

## **BEVERAGE INDUSTRY**

### **CAPABILITIES:**

- 316 L Stainless Steel Construction
- Flow Rate can be Optimized for Desired Empty Bed Contact Time
- Flow, Pressure, & Temperature Measurement Instrumentation
- Operation can be Manual or Automated
- Multiple Operational Valve Designs are Available (5, 7, & 11 Valve Options)
- SMART Backwash Capable
- Control Options are Available

Carbon towers are part of a typical pretreatment portion of the process in a water treatment system and can be sized to your specifications for the removal of chlorine, chlorine additives & by-products as well as organics.

Carbon towers are available as individual, duplex, and/or treatment trains to complete most typical water treatment equipment rooms.

Lyons Filter carbon tower designs stand out because of our extensive history in building towers and also because we can create a carbon tower solution for your specific site needs.



### **CONTACT US:**

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## **CARBON TOWER EQUIPMENT**

Size Range	60 – 120” Diameter X 72 - 168” Side Shell Available
Design Flow Rates	75 - 800 GPM per Tower
Backwash Flow Range	196 - 1178 GPM (Filtered @ 50-90 deg. F.) per Tower
Pressure Rating	100 PSIG (Alternatives Available)
Steam Requirements	290,000 – 1,600,000 BTU/Hr to Reach Temp (15 PSIG) 75,000 – 260,000 BTU/HR to Maintain Temp (15 PSIG)
Shipping Weight	2,300# - 13,300# per Tower Carbon Media Shipped Separately
Operating Weight	14,500# - 140,000# per Tower
Material of Construction	316L Stainless Steel
ASME Stamp	Yes
Pressure Relief Valve	Set @ 85 PSI (Recommended)
Exterior Tank Finish	Glass Bead Blast
Interior Tank Finish	Nitric Acid Passivated with Mill Finish
Side Manway	16” Diameter Bolted
Top Access	12” Diameter Bolted
Face Piping	3 - 6” Diameter 316 SST SCH 10 150# ANSI Flanges
Steam Connections	2.0” FPT
Inlet / Outlet Pressure Sensors	Sensor with Local & 4-20mA Output Signal
Inlet / Outlet Sample Valves	Sanitary
Face-Piping Drain Connection	2.0” FPT
Influent Header	316 SST 90 Degree El-up
Underdrain	316SST Media Retaining with .007 Slot Strainers
<b>Function:</b>	
Service / Backwash	Automatic or Manual
Rinse	Automatic or Manual
Steam / Slow Fill	Automatic or Manual
Control Valves	(5, 7, or 11) Lug Style BF Valves with Pneumatic Actuators
Steam / Drain Valves	2” SST Ball Valves
Air Vent	1.5” SST Ball Valve
Condensate Drain	0.75” SST Ball Valve w/TC Connections
Slow Fill Assembly	1.0” SST Ball Valve w/TC Connections
Backwash Manifold Drain	1.0” SST Ball Valve w/TC Connections
Temperature Monitor	Sensor with Local & 4-20 mA Output Signal SMART Backwash Design Available
Media Removal	2” Ball Valve with Kamlock Connection
Solenoid Enclosures	(5, 7, or 11) 24VDC Solenoids in NEMA 4X per Tower
Flow Sensors	Mag Meters w/ 4-20 mA Output Signals per Tower
Activated Carbon	Carbon Media Capabilities for Multiple Carbon Types Super Sack & Supercharger or Bulk-Fill Capabilities