

# CARBON TOWERS

## BEVERAGE INDUSTRY

### STANDARD FEATURES

- 316L Stainless Steel construction
- Flow rate is optimized to maximize carbon surface area: 1 gpm/ft<sup>3</sup> flow rate for 7.5 min EBCT
- Reduce wastewater and save time: 1– 1.5X service flow backwash rate
- 35-50% Freeboard
- Smart vessel drain design eliminates the need for expensive support bed material increasing the effectiveness and prevents loss of media and ensuring 100% drain of condensate.
- Inlet flow and vessel temperature instrumentation assure temperature control during the steam cycle.
- Vessel design can be used for other media, i.e. green sand, softener resin.

### OPTIONS

- Automatic backwash-ensures consistent performance with less effort
- Automatic steam or hot water sanitization
- Electropolished tank and face piping



Aqua-Chem Carbon Towers are part of the pre-treatment process which removes chlorine or chloramine before the water enters into a reverse osmosis membrane or vapor compression distiller. Carbon Towers are available individually or as part of a complete water treatment solution such as an Aqua-Chem water room.

Aqua-Chem Carbon Towers are designed specifically for your application and use only NSF 61 approved materials to prevent leaching. When it comes to daily operations, maintenance, and cleaning, Aqua-Chem's smart design stands-out with multiple features that make these infrequent, but necessary tasks easier and faster. Depending on your water quality requirements and a complete feed water analysis, Aqua-Chem can design a carbon tower filter to meet your needs.



CONTACT US:

(800) 964-7035

[sales@aqua-chem.com](mailto:sales@aqua-chem.com)

[www.aqua-chem.com](http://www.aqua-chem.com)



3001 E. Governor John Sevier Hwy  
Knoxville, TN 37914

MODEL	BCT-200	BCT-250	BCT-300	BCT-350	BCT-400	BCT-450	BCT-500	BCT-600
Design Flowrate (gpm)	200	250	300	350	400	450	500	600
Total Carbon Volume, ft <sup>3</sup>	170-225	198-262	230-306	269-356	308-410	358-465	408-531	525-683
Freeboard	35-50%	35-50%	35-50%	35-50%	35-50%	35-50%	35-50%	35-50%
Tank Diameter (inches)	72	72	84	84	96	96	96	108
Tank Side Shell Height (inches)	120	144	120	144	120	144	168	168
Total System Dimensions (inches) (HxW)	187.5 X 100.75	211.5 x 100.75	181.25 x 112.75	205.25 x 112.75	187.062 x 132.875	209.375 x 132.875	233.375 x 132.875	233.375 x 149.25
Total Vessel Volume, ft <sup>3</sup>	384	404	469	546	626	726	816	1051
Carbon Surface Square Footage, ft <sup>2</sup>	28.3	28.3	38.5	38.5	50.3	50.3	50.3	63.6
Maximum Flowrate, gpm	400	400	400	400	900	900	900	900
Backwash Flowrate, gpm	283	283	385	385	503	503	503	636
Pressure Rating, psig/bar	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)
Face Piping Connections	4" 150# FLG	4" 150# FLG	4" 150# FLG	4" 150# FLG	6" 150# FLG	6" 150# FLG	6" 150# FLG	6" 150# FLG
Steam Connection (15 psig required)	2" 150# FLG	2" 150# FLG	2" 150# FLG	2" 150# FLG	2" 150# FLG	2" 150# FLG	2" 150# FLG	2" 150# FLG
Electrical Requirements	24VDC/60HZ	24VDC/60HZ	24VDC/60HZ	24VDC/60HZ	24VDC/60HZ	24VDC/60HZ	24VDC/60HZ	24VDC/60HZ
Pneumatic Requirements (min), psig (bar)	80 (5.5)	80 (5.5)	80 (5.5)	80 (5.5)	80 (5.5)	80 (5.5)	80 (5.5)	80 (5.5)
Dry Weight (lbs)	5,488	6,082	6,281	6,973	9,446	10,600	11,803	15,683
Operating Weight (lbs)	32,446	38,031	42,401	49,344	57,502	67,000	78,190	103,958

## ASK ABOUT OUR COMPLETE WATER ROOM DESIGN CAPABILITIES

Carbon Towers



Reverse Osmosis



Vapor Compression Distillation



Primary Filtration



Pump Skids

