

## INDUSTRIAL AIR PURIFICATION SYSTEMS

Calgon Carbon Corporation's industrial air purification systems are pre-engineered granular activated carbon adsorption systems. Typical applications are found in many industries where there is a need to control volatile organic compound emissions, remove toxic compounds, control odors, protect personnel, or minimize equipment corrosion. These modular units are designed to provide maximum economy with ease of installation and operation, and are designed to be used in situations when the granular activated carbon is replaced rather than regenerated in place.

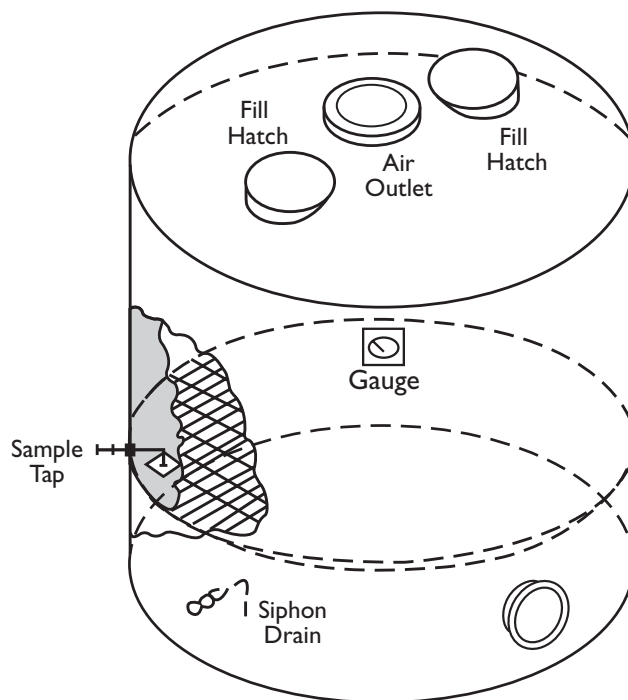
### Description

Industrial air purification systems consist of carbon steel adsorbers, with an optional fan and motor assembly. The systems can also be designed with protective linings and 316 stainless steel components for use in corrosive atmospheres. They are available in four different sizes to handle air flows up to 10,000 cfm operating at ambient conditions. To handle larger flows, multiple units may be installed in parallel. While the adsorbers can accommodate carbon bed depths of up to 5 feet, typical bed depth is 3 to 3½ feet.

Industrial air purification systems are delivered ready for quick and easy installation. The items required for operation are electrical connections to fan motor (if fan is provided with system), appropriate foundations, and ductwork to deliver contaminated air to the adsorber inlet. During operation, the contaminated air is driven upflow through the carbon bed. The undesirable compounds are removed and the treated air is vented to the atmosphere. By evenly distributing flow across the horizontal bed, this design maximizes carbon utilization and assures that the contaminated air is in effective contact with the carbon. When the contaminant begins to appear in the treated air stream, spent carbon is removed and replaced with fresh carbon.

### Features and Benefits

- Effective removal of contaminants using activated carbon
- Evenly distributed upflow mode to optimize carbon utilization
- Pre-engineered
- Easy installation
- Low maintenance requirements
- Available in four different sizes to manage a wide range of flows
- Built-in flow control provided with fan



### Equipment and Systems

Visit our website at [www.calgoncarbon.com](http://www.calgoncarbon.com), or call 800-422-7266 to learn more about our complete range of products and services, and obtain local contact information.

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## Standard Sizing Chart

Adsorber Size, diameter	6 ft.	8 ft.	10 ft.	12 ft.
Bed Area, sq. ft.	28.3	50.3	78.5	113.3
Typical Air Inlet/Outlet, diameter	16"	20"	24"	30"
Nominal Capacity, CFM	1,860	3,500	5,680	8,500
Superficial Velocity, ft./min. at capacity	66	70	72	75
Nominal Carbon Amount, lbs.	3,000	5,000	8,000	11,000
Nominal Carbon Bed Depth, ft.	3.5	3.3	3.4	3.2
Estimated Fan HP at capacity	7.5	10	15	25

## Safety Message

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable Federal and State requirements.

## Limitations of Liability

The Supplier's liability and the Purchaser's exclusive remedy for any cause of action arising out of this transaction, including, but not limited to, breach of warranty, negligence and/or indemnification, is expressly limited to a maximum of the purchase price of spare parts or equipment sold hereunder. All claims of whatsoever nature shall be deemed waived unless made in writing within forty-five (45) days of the occurrence giving rise to the claim. In no event shall the Supplier, for any reason or pursuant to any provision of the warranty, be liable for incidental or consequential damages or damages in excess of the purchase price, nor shall the Supplier be liable for loss of profits or fines imposed by governmental agencies.

Visit our website at [www.calgoncarbon.com](http://www.calgoncarbon.com)



CALGON CARBON CORPORATION

Calgon Carbon Corporation  
P.O. Box 717  
Pittsburgh, PA USA 15230-0717  
1-800-422-7266  
Tel: 412-787-6700  
Fx: 412-787-6713

**Chemviron  
Carbon**

European Operations of Calgon  
Carbon Corporation  
Zoning Industriel C de Feluy  
B-7181 Feluy, Belgium  
Tel: + 32 (0) 64 51 18 11  
Fx: + 32 (0) 64 54 15 91

Your local office

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