

Application Bulletin

Municipal Drinking Water Services

One Source. Trusted Solutions.

For over 40 years, Calgon Carbon has been pioneering the use of innovative technologies for drinking water treatment. That's experience you can count on.

Comprehensive Support Services

- ◆ Bulk Carbon Delivery/Spent Return
- ◆ On-site Contractor Service for Spent Carbon Exchange
- ◆ Flexible Financing Options
- ◆ Fully Stocked Equipment Inventory at Strategic Locations Around the U.S.
- ◆ Multiple Reactivation Locations

Proven Technologies

Numerous technologies exist to solve the most difficult drinking water contamination problems, but what's best for your project? At Calgon Carbon, we can help you make the right choice because we have the broadest array of solutions and expertise in the industry:

- ◆ Activated Carbon Adsorption Systems
- ◆ UV/Oxidation Systems
- ◆ Continuous Ion Exchange Systems

Whether employed as separate systems, or working in concert, Calgon Carbon's technologies can deliver the system best suited to your specialized purification challenges.

Standard Adsorption Systems

Calgon Carbon has a variety of standard system designs for effective carbon utilization. Our design and fabrication capabilities also allow for the design of custom systems for specific project requirements. Our equipment facilities meet ASME-code requirements for pressure vessels and have complete fabrication, lining and painting capabilities.

Liquid Phase Adsorption Systems

| Equipment Item | Max. Flow (gpm) | Carbon (lbs.) | Max. Pressure (psig) |
|-----------------------------|--------------------|---------------|----------------------|
| Model 12² | 1,400 ¹ | 40,000 | 75 or 125 |
| Model 10² | 1,400 ¹ | 40,000 | 75 or 125 |
| Model 8² | 800 ¹ | 20,000 | 75 |

¹ Parallel Operation maximum flow

² Two-adsorber system with two-stage piping

Activated Carbon Products

| <i>Product Name</i> | <i>Description</i> |
|--------------------------------------|--|
| Filtrisorb[®] Series | <ul style="list-style-type: none"> ◆ Over 300 million lbs installed ◆ Taste & odor and VOC removal ◆ Superior hardness and attrition resistance ◆ ANSI/NSF Standard 61 certified |
| Filtrisorb[®] 600 | <ul style="list-style-type: none"> ◆ Enhanced trace capacity carbon |
| Centaur[®] Series | <ul style="list-style-type: none"> ◆ Enhanced catalytic functionality ◆ Retains adsorptive properties |
| WPH/WPL | <ul style="list-style-type: none"> ◆ Virgin grade powdered carbons |

Calgon Carbon manufactures and supplies more than 100 grades of activated carbon for numerous and liquid phase applications. If you have a unique or difficult problem, contact us. If the application involves activated carbon, it's likely that we've encountered it before.



Visit our website at www.calgoncarbon.com, or call **1-800-4-CARBON** to learn more about our complete range of products and services, and local contact information.

**Chemviron
Carbon**

Engineered Solutions Technologies

The Engineered Solutions Group of Calgon Carbon Corporation provides solutions to customers' municipal drinking water problems through design, fabrication and operation of systems that utilize a combination of enabling technologies:

Sentinel UV Disinfection Systems:

- ◆ Utilizes UV disinfection technology patented by Calgon Carbon Corporation
- ◆ A complete microbial barrier against protozoan cysts & oocysts
- ◆ Disinfection without formation of Disinfection By-Products (DBP)
- ◆ Efficient and proven reactor designs

ISEP®/ISEP®+ Ion Exchange Separations technology:

- ◆ Used for Ammonium Perchlorate/Nitrate Removal & Destruction
- ◆ Received status as approved drinking water treatment from California Department of Health and Services

Rayox® UV/Oxidation

- ◆ Efficient destruction of various organic contaminants

For more details on the various remediation applications these products and technologies are applied to, please refer to bulletin number AB-1086- 08/02 entitled "*Municipal Drinking Water Applications.*"



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