



# BULK-BACK SERVICE<sup>SM</sup>

## GENERAL DESCRIPTION

The Calgon Carbon Bulk-Back Service is an efficient and unique bulk handling service specifically designed for those who use less-than-truck-load lots of granular activated carbon. This convenient service:

- minimizes the effort for loading and unloading adsorber vessels
- eliminates human contact with spent activated carbon
- minimizes environmental concern relating to disposal of spent carbon

Intended applications will generally involve 10,000 pounds or less, to about 50,000 pounds of granular activated carbon annually. Each Calgon Carbon Bulk-Back unit can hold approximately 74 cu ft of granular activated carbon, which is available on a bulk basis.

## FEATURES

- Enables carbon users to comply with all RCRA (Resource Conservation and Recovery Act) regulations for spent carbon containers
- Eliminates manual handling for carbons containing hazardous chemicals
- Clean and effective carbon loading and unloading
- Easily positioned with a 2½-ton forklift
- Hydraulic carbon transfer capability
- Used with the Calgon Carbon Model 3 Dual Module, Model 4, or the user's adsorber vessels (see Calgon Carbon Product Bulletin No. 27-113 for more information on the Model 3 system)
- Unique method for transporting spent activated carbon
- Avoids need for landfill permits

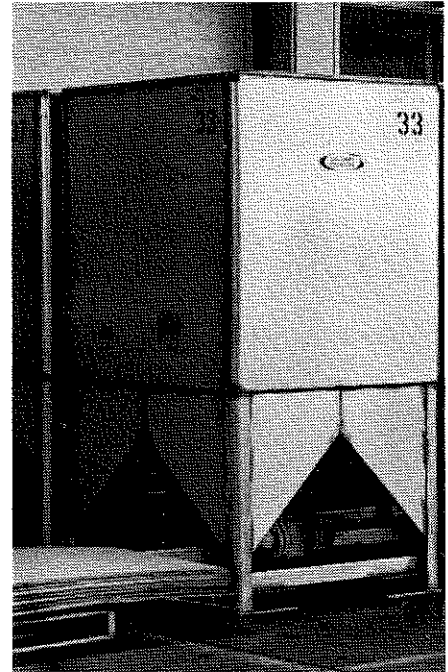
## TRANSFER INTO AND OUT OF ADSORBER VESSELS IS EASY

Carbon is transferred from the Bulk-Back unit into Calgon Carbon's Model 3, Model 4, or equivalent adsorbers via a two-inch Schutte & Koerting water eductor. The eductor performance parameters are shown in the table.

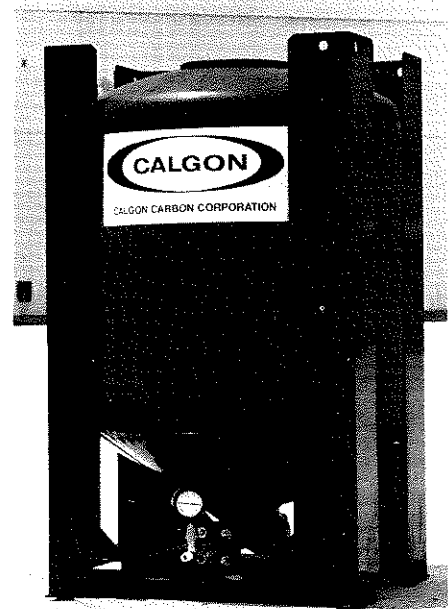
Carbon is transferred from the adsorber to the Bulk-Back bin by introducing air or water to the top of the adsorber in order to develop a pressure of 10-15 psig.

### SCHUTTE & KOERTING EDUCTOR SPECIFICATIONS

Eductor Size (inches)	2	
Backpressure (ft H <sub>2</sub> O)	15	40
Water Pressure (psig)	60	85
Motive Water Flow (gpm)	35	40
Carbon Rate (lbs/min)	85	60
Transfer Time (minutes)	25	35
Total Water (gallons)	820	1435



*Stainless Steel Bulk-Back Bin*



*Polyethylene Bulk-Back Bin*

## SPECIFICATIONS

	STAINLESS STEEL	POLYETHYLENE
Unit Height	88 inches	88 inches
Basic Dimensions	52" x 44"	52" x 44"
Operating Pressure	15 psig (no vacuum)	5 psig (no vacuum)
Hose Connections	1" Kamlock (water) 3" Kamlock (carbon)	1" Kamlock (water) 3" Kamlock (carbon)
Carbon Volume	74 cu ft (2000 lbs)	74 cu ft (2000 lbs)
Weight		
Empty	1000 lbs	895 lbs
Filled (drained)	3000 lbs	2895 lbs

## CAUTION

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 activated carbon, appropriate sampling and work procedures should be followed, including all applicable federal and state requirements.

For information regarding human and environmental exposure, call Calgon Carbon's Regulatory and Trade Affairs personnel at (412) 787-6700.

Calgon Carbon Corporation reserves the right to change specifications without notice for components of equal quality.

*For additional information, contact Calgon Carbon Corporation,  
Box 717, Pittsburgh, PA 15230-0717, Phone (412) 787-6700*



CALGON CARBON CORPORATION