CALGON CORPORATION
SUBSIDIARY OF MERCK & CO., INC.

US EPA RECORDS CENTER REGION 5
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FOR IMMEDIATE RELEASE

CALGON INTRODUCES MINI ADSORBERS FOR LOW-VOLUME WATER TREATMENT OF DISSOLVED ORGANICS

Calgon Corporation, Pittsburgh, has introduced new dual mini adsorbers that utilize granular activated carbon to remove dissolved organics in potable, waste and process water at low flow rates ranging from a few gallons per minute to 200 gallons per minute, depending upon the application.

The pre-engineered modules are delivered to client sites on lowboy trailers; installation is quick and simple. Modules are designed to accommodate automatic bulk carbon filling and removal. This minimizes labor and avoids manual handling of the carbon.

Designed for annual carbon usage of 10,000 to 50,000 pounds, the new mini adsorbers are more economical and practical for low-volume water treatment applications than larger dual module adsorbers also offered by Calgon. Larger adsorbers are more practical for larger flows and greater annual carbon needs.

The adsorbers may be set up for backwashing or used as packed beds, in either series or parallel flow. The mild steel modules are 11-ft. high and 4-ft. diameter and are equipped with polypropylene lined valves, pipes and

-more-

underdrains. When required for food grade applications, linings of F&DA approved materials are used.

Mini modules for low volume water treatment are available through the "Calgon Carbon Service." The "Service" program allows municipal and industrial clients to pay a monthly service fee for equipment and carbon--no capital investment is required.

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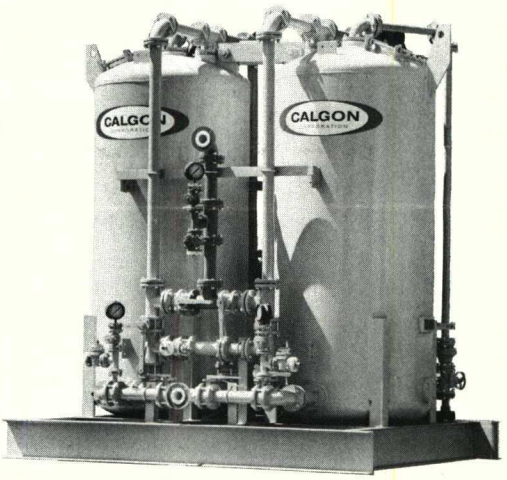
MODEL 2 DUAL MODULE ADSORBER

ACTIVATED CARBON PRODUCT BULLETIN

The Calgon® Model 2 Dual Module Adsorber has been designed for removal of dissolved organics from water, wastewater or liquid process streams. It is particularly suitable for applications with low levels of organic concentration, or where the flow rates are relatively low. These applications include purification of water supplies and process liquids and treatment of wastewater streams.

When the Model 2 Adsorber utilizes a packed-bed adsorption mode of operation, the influent stream must be free of suspended solids.

Your Calgon representative can help you evaluate the suitability of this unit or larger units for satisfying your particular requirements. If required, the Calgon specialist can arrange for sample analysis, adsorption studies and other fact-finding services.



features

- Proven design
- Pre-engineered package — simple and quick installation
- Dual module vessels are A.S.M.E. coded
- Ideal for carbon usage of up to 50,000 lbs. per year
- Lined vessels, piping and valves
- Capable of bulk carbon filling and removal
- Hinged manways — 16″ Dia.
- Header distributor underdrain
- Carbon removal wear rings
- May be operated in either packed bed or backwashable mode
- Designed to minimize labor and avoid manual handling of carbon

available options

- Complete carbon service — supply and disposal
- Fully automatic operation
- Air scour
- Automatic bulk carbon transfer system

optional modes

- Packed beds . . . Downflow
- Backwashable . . . Downflow (50% Freeboard)
- Series flow
- Parallel flow

specifications

ASME Code: Design 100 PSIG @ 150°F; Operating 75 PSIG @ 70°F

Pipe and valves: 3-inch flange connections

Carbon volume per vessel: 72 cu ft/backwash mode; 108 cu ft packed bed mode

Weight: Empty — 3200 lbs.; Operating — 12,970 lbs.

Pressure relief: 70 PSIG nominal setting

Backwash rate: 175 GPM

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

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flow rates (Recommended Maximum)*

	Series Operation		Parallel Operation	
	GPM	*Contact Time Minutes*	*GPM*	*Contact Time Minutes*
Backwash Mode	65	15	130	7.5
Packed Bed Mode	100	15	200	7.5

**NOTE: Larger Calgon Carbon Service® Systems are available for higher flow rates and greater contact time applications.*

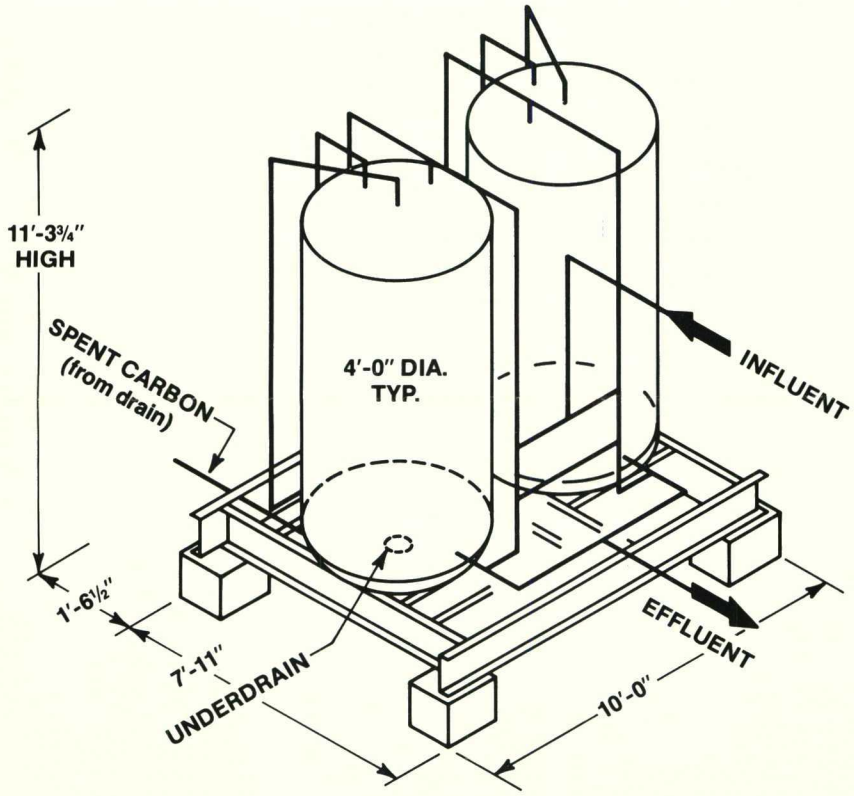
materials of construction

- Polypropylene-lined valves, lined pipe and underdrains
- Mild steel vessels, primed and painted w/epoxy system
- Butterfly valves
- Lined vessels . . . F&DA accepted linings optional

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 carbon, appropriate sampling and work procedures for potentially low-oxygen spaces should be followed, including all applicable Federal and State requirements.

dimensional schematic



(NOMINAL DIMENSIONS)

For information regarding incidents involving human and environmental exposure, call (412) 777-8000 and request to speak to Regulatory and Trade Affairs.

For additional information, contact the Activated Carbon Division, Calgon Corporation, Calgon Center, Box 1346, Pittsburgh, PA 15230
Phone: (412) 777-8000

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NEW MINI ADSORBERS FROM CALGON--Because many companies and municipalities have a need for granular activated carbon treatment of low volumes of water, Calgon Corporation, Pittsburgh, has introduced new, portable mini adsorbers that handle flows ranging from a few gallons per minute to 200 gallons per minute. These new adsorbers augment larger modular adsorbers also provided by Calgon for removal of dissolved organics in water.