

VAPOR-PAC® Service Based Equipment



VAPOR-PAC® Stainless Steel

VAPOR-PAC® Plastic

Calgon Carbon's VAPOR-PAC® Service meets industrial needs for cost-effective removal of volatile organic compounds (VOCs) at air emission sources.

The VAPOR-PAC® Service features a small, easily transportable adsorber which contains 1,800 pounds of activated carbon. The adsorber can handle air flows up to 1,000 cfm.

Designed to remove both toxic and non-toxic VOCs, the adsorption system is especially useful for short term projects and for treatment of low volume flows that contain low to moderate VOC concentrations. Common applications include VOC removal from process vents, soil remediation vents, and air stripper off-gases.

To accommodate a wide variety of process conditions, VAPOR-PAC® adsorbers are available in two basic designs: a polyethylene model that offers excellent corrosion-resistance, and a stainless steel model that can withstand higher temperatures and slight pressure or vacuum conditions.

Calgon Carbon provides the adsorber, carbon, spent carbon handling, and carbon reactivation (after the carbon meets the company's acceptance criteria) as part of the VAPOR-PAC® Service. Ductwork and fans are the only equipment that require a capital expenditure by the user.

When carbon becomes saturated with VOCs, the system is replaced with another adsorber containing fresh carbon. By using this unique service, users can generally achieve VOC removal and regulatory compliance objectives, minimize operating costs, and eliminate maintenance cost because the equipment is owned and maintained by Calgon Carbon.* Additionally, because organic compounds are safely destroyed through the carbon reactivation process, costs and regulations typically associated with waste disposal can be eliminated.

Please contact a Calgon Carbon Technical Sales Representative to learn more about the advantages of VAPOR-PAC® Service for your specific VOC control needs.

* Damage to VAPOR-PAC® Unit caused by negligence or misapplication is the responsibility of the user.

Features and Benefits of VAPOR-PAC® Service

- Adsorbers are specifically designed for ease of installation and operation.
- Adsorbers are available in plastic (polyethylene) and metal (stainless steel) construction to accommodate a wide variety of applications.
- Can operate in series or parallel mode or a combination of both to handle various flows and concentrations.
- System exchange eliminates on-site carbon handling.
- Recycling of spent carbon (as approved by carbon acceptance testing) eliminates disposal problems.
- Capital expenditure is eliminated since Calgon Carbon Corporation owns and maintains the equipment.

Installation Instructions

See bulletin #ES-IB1026-0305 for details on how to install a VAPOR-PAC®.

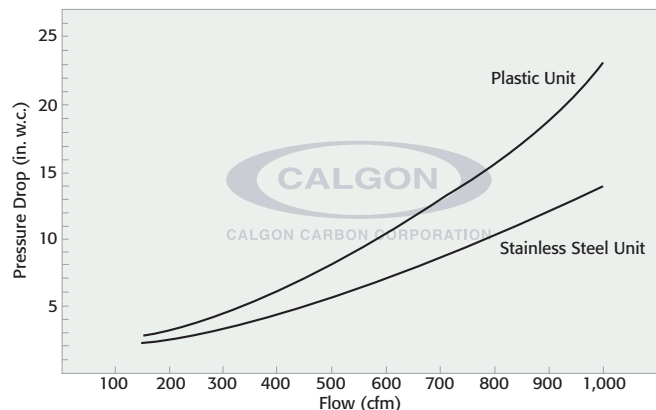
Safety Considerations

See safety bulletin #TI-006-08/94 for important safety considerations.

Optional Equipment

Inlet and outlet flange adaptors for ANSI flange or stub hose connections.

Vapor Pac Unit Pressure Drop
(upflow with 1,800 lbs., 4x10 mesh dense packed carbon)



VAPOR-PAC® (Plastic) Specifications

Vessel Dimensions	44 1/4" x 44 1/4" x 89 3/8"
Inlet & Discharge Connections	6" PS 15-69 duct flanges
Carbon Volume	60 cu. ft. (1,800 lbs.)
System Shipping Weight	Empty - 2,400 lbs., Spent - 4,200 lbs.
Temperature Rating	150° F (max)
Static Pressure Rating above Carbon Level	20" w.c. (max)
Vacuum Pressure Rating above Carbon Level	2" w.c. (max)

Materials of Construction

Vessel	Polyethylene
Frame	Epoxy coated carbon steel
Inlet Flanges, Elbow, Septum	PVC
Discharge Flange	Polyethylene
Fasteners & Bottom Valve Support Plate	Steel, plated
Sample Fittings & Sample Canister	PVC

VAPOR-PAC® (Stainless Steel) Specifications

Vessel Diameter	5'
Vessel Height	7' 1"
Inlet & Discharge Connections	8" PS 15-69 duct flanges
Carbon Volume	60 cu. ft. approx. (1,800 lbs.)
System Shipping Weight	Empty - 2,800 lbs., Spent - 4,600 lbs.
Static Pressure Rating above Carbon Level	15 psig
Vacuum Pressure Rating above Carbon Level	Full

Materials of Construction

Vessel	316L stainless steel
Skid and Support Frame	304 stainless steel
Inlet Flanges, Elbow, Septum	316L stainless steel
Discharge Flange	316L stainless steel
Fasteners & Bottom Valve	300 series stainless steel
Sample Fittings & Sample Canister	PVC

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 for potentially low oxygen spaces should be followed, including all applicable Federal and State requirements.



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

Calgon Carbon Asia
65 Chulia Street
#37-03 OCBC Centre
Singapore 049513
Tel: +65 6 221 3500
Fx: +65 6 221 3554

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

