



evoqua
WATER TECHNOLOGIES



VENT-SCRUB® HF SERIES VAPOR PHASE ADSORBERS

Applications

Vent-Scrub® HF Series adsorbers have been proven to be the simplest and most cost effective way to treat malodorous and VOC emission problems. Sturdy steel construction and a specially formulated corrosion resistant internal coating ensures long service life and low maintenance. Applications for Vent-Scrub® HF Series adsorbers include:

- API separator vents
- VOC control from soil vapor extraction (SVE) systems and airstrippers
- Wastewater and product storage tank vents
- Process vents
- Refinery and chemical plant wastewater sewer vents
- Laboratory hood exhausts

Installation, Startup and Operation

Evoqua can provide a total service package that includes utilizing OSHA trained personnel providing on-site carbon changeouts, packaging and transportation of spent carbon for recycling at our reactivation facilities, where the contaminants are thermally destroyed.

We provide instructions on sampling the spent carbon and completion of our spent carbon profile form. Spent carbon acceptance testing can be performed at our certified laboratory.

When requested, a certificate of reactivation will be issued.

BENEFITS AND DESIGN FEATURES

- Durable, carbon steel construction
- Abrasion and corrosion resistant baked epoxy lining; urethane exterior finish
- Ready-to-use systems: simple installation and operation
- Rated to 1000 SCFM
- Forklift channels and lifting lugs for easy handling
- Adsorbers are UN/DOT approved transportation containers for RCRA hazardous spent carbon
- Hose kit and pipe manifold options are available to simplify installation and operation

Piping Manifold (Optional)

- Custom manifolds can be provided in PVC, carbon steel or stainless steel upon request
- Series or parallel operation
- Sampling ports and pressure gauges
- Flexible hoses with Kamlock fittings allow easy installation and removal during service exchange operations

SPECIFICATIONS

Vent-Scrub® Adsorber Model No.	1000HF	2000HF
Dimensions, diameter x overall height	48" x 64"	48" x 100"
Inlet connection	6" Flange ¹	6" Flange ¹
Outlet connection	6" Flange ¹	6" Flange ¹
Manway	18" Top	18" Top
Interior coating	Epoxy	Epoxy
Exterior coating	Enamel	Enamel
Carbon fill volume (Cu.ft.)	34	68
Cross sectional area (sq.ft.)	12.3	12.3
Approx. carbon weight (lbs) ²	1000	2000
Empty vessel weight (lbs)	930	1210
Flow, CFM (max.)	1000	1000
Pressure, psig (max.)	14.9	14.9
Temperature, deg. F (max)	140	140
Vacuum, in. Hg (max.)	12	12

¹ Adaptor to 4" FNPT connections available in PVC and stainless steel

² Weight of carbon based on density of 29.5 lb./ft³. Loaded weight can vary depending on actual density of GAC.

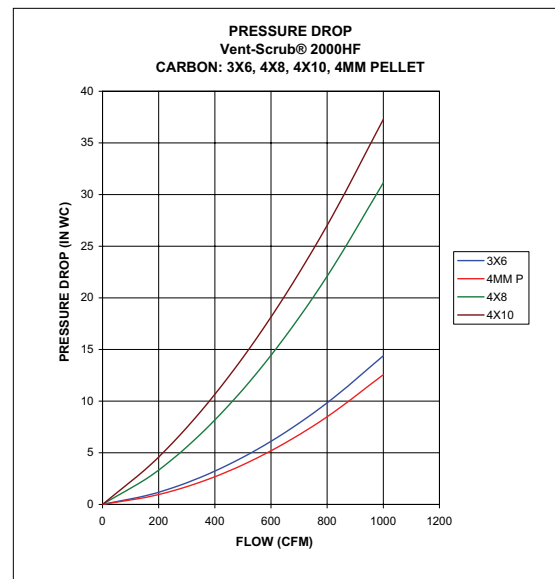
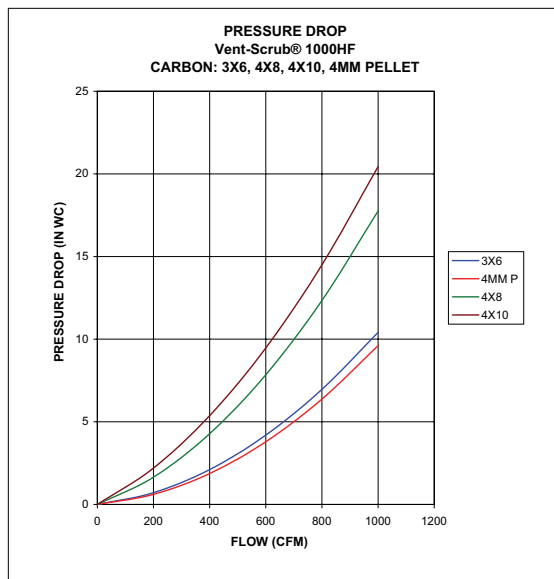
For detailed dimensional information or drawings, contact your local Evoqua sales representative.

Warning

The adsorption of organic compounds onto activated carbon generates heat. In rare instances, adsorbed compounds may also react on the carbon surface to generate additional heat. If these heat sources are not properly dissipated, the carbon bed temperature may rise to the point where the carbon can ignite, leading to a fire or other hazardous condition. A description of industry accepted engineering practices to assure the dissipation of heat and safe operation of the carbon bed can be provided upon request. In certain applications where the risk of ignition is significant, activated carbon may not be a recommended treatment technology. Please contact your Technical Sales Representative for more details.

Wet activated carbon readily adsorbs atmospheric oxygen. Dangerously low oxygen levels may exist in closed vessels or poorly ventilated storage areas. Workers should follow all applicable state and federal safety guidelines for entering oxygen depleted areas.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.



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