



**eVOQUA**  
WATER TECHNOLOGIES



## VENT-SCRUB® VAPOR PHASE ADSORBERS

### MODELS VSC-200, VSC-400, VSC-1000 AND VSC-2000

#### Applications

The Vent-Scrub® adsorbers have been proven to be the simplest and most cost effective way to treat malodorous and VOC emission problems. Sturdy steel construction and specially formulated corrosion resistant internal coating ensures long service life and low maintenance. Applications for Vent-Scrub 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 (Vent-Scrub 1000 and 2000 adsorbers)
- Ready-to-use systems: simple installation and operation
- Applications to 500 SCFM
- The Vent-Scrub 1000 and 2000 adsorbers have forklift channels for easy handling
- Adsorber vessels 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)

- 2" or 3" sch 80 PVC piping and valves (optional carbon steel and stainless steel piping)
- Series or parallel operation
- Sampling ports and pressure gauges
- Flexible hoses with Kamlock fittings allow easy installation and removal during service exchange operations

## SPECIFICATION

<b>Vent-Scrub® Adsorber</b>				
<b>Model No.</b>	<b>200</b>	<b>400</b>	<b>1000</b>	<b>2000</b>
Dimensions, diameter x overall height	22" x 34"	32" x 43"	48" x 61"	48" x 97"
Inlet Connection	2" FNPT	4" FNPT	4" FNPT	4" FNPT
Outlet Connection	2" MPT	4" FNPT	4" FNPT	4" FNPT
Manway	Top	Top	18" Top	18" Top
Internal Distribution <sup>a</sup>	PVC	PVC	PVC	PVC
Interior Coating	Epoxy	Epoxy	Epoxy	Epoxy
Exterior Coating	Enamel	Enamel	Epoxy/Urethane	Epoxy/Urethane
Carbon Fill Volume (Cu.ft.) <sup>d</sup>	6.8	14	34	68
Cross Sectional Area (sq.ft.)	2.8	4.9	12.3	12.3
Approx. Carbon Weight (lbs)	200	400	1000	2000
Empty Vessel Weight (lbs)	50	80	890	1190
Flow, CFM (max.)	100	300	500	500
Pressure, psig (max.)	3	3	14.9	14.9
Temperature, deg. F (max.) <sup>c</sup>	140	140	140	140
Vacuum, in. Hg (max.)	N/A	N/A	12 <sup>b</sup>	12 <sup>b</sup>

a Carbon steel and stainless steel internals are also available.

b For vacuum greater than 12 in. Hg on Vent-Scrub® 2000 Adsorber, contact your Evoqua representative.

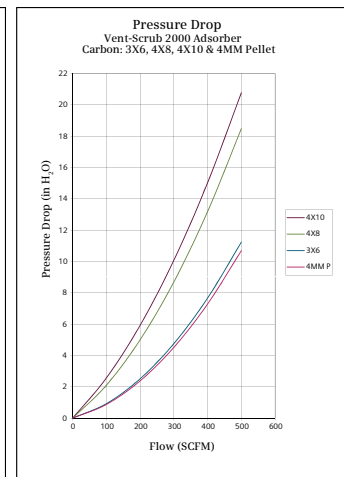
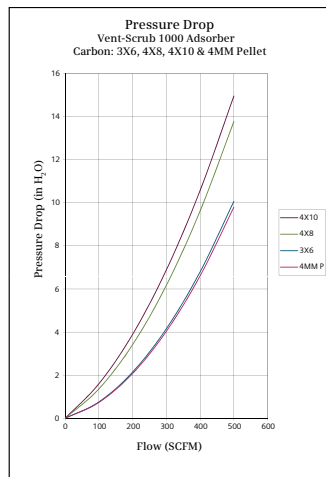
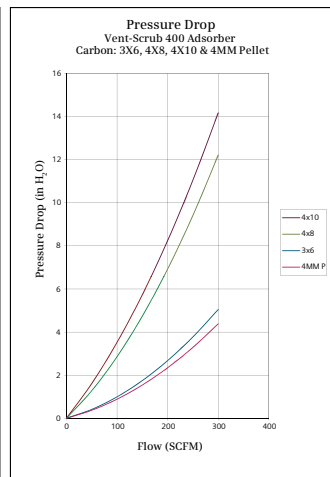
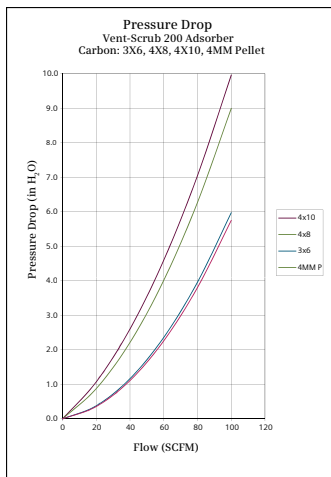
c For higher temperatures, stainless and carbon steel internals are available.

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

d Carbon fill volumes are based on a loaded density of 29.5 lb./ft<sup>3</sup>. Actual volume will vary with product density.

## 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.



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