



RB-SERIES ROLL-OFF CARBON ADSORBERS

Applications

The RB-Series adsorbers are well suited for the removal of VOC's from high flow air streams and other emission control applications. Some typical applications for the RB-Series adsorbers include:

- Industrial plant emissions
- Soil vapor extraction (SVE) remediation system off-gases
- Controlling emissions from waste processing operations (i.e., tank cleaning)
- VOC removal from air stripper off-gases
- Backup VOC control device for thermal oxidizers.

Installation, Operation and Monitoring

The frequency of adsorber exchange will depend on operating parameters that affect carbon loading such as VOC type and concentration, temperature, relative humidity, superficial gas velocity, carbon type (coconut shell or coal) and other factors.

Evoqua offers state-of-the-art computer modeling programs, for carbon consumption estimates and optimization of system performance.

Evoqua can also provide monitoring services utilizing the appropriate type of field monitoring equipment. The monitoring method used and equipment required will

depend on the types of VOC's being captured and on the regulatory compliance requirements.

When an adsorber exchange is required, a fresh adsorber will be delivered from any one of our regional locations. The adsorber containing spent carbon is removed from the site using a roll-off or flat bed trailer and shipped to our reactivation facility where the adsorber is emptied, inspected and refilled. The spent carbon is reactivated and recycled.

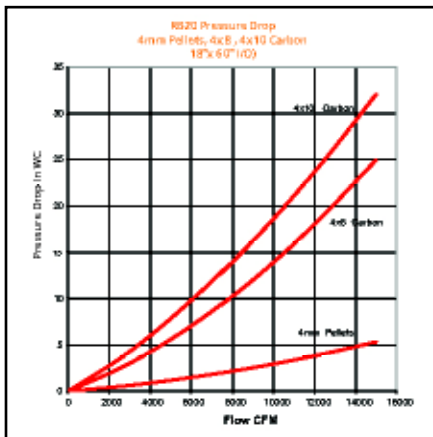
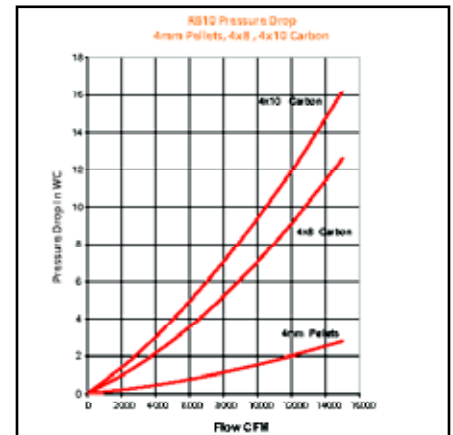
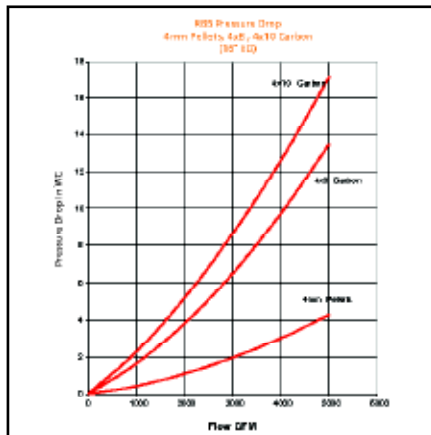
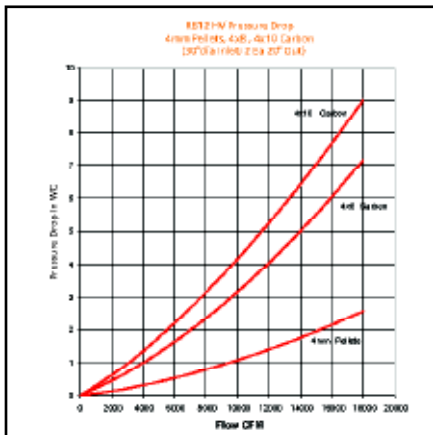
BENEFITS AND DESIGN FEATURES

- RB-Series adsorbers are transported with carbon installed, thereby eliminating the need for on-site carbon handling.
- Available for sale or rental.
- Delivery/Pickup via rolloff truck eliminates the need for on-site loading/unloading equipment.
- Various inlet/outlet connection adapters available at no additional costs.
- Can be supplied with pelletized carbon for lower pressure drop.
- Deep carbon bed depths (a minimum of three feet) allow for the efficient removal of VOC's.
- Applications to 18,000 scfm.

SPECIFICATION

	RB5	RB12HV	RB10	RB20
Outside Dimensions (LxWxH)	9' x 8' x 9'-1"	22' x 8'-6" x 8'-6"	21' X 8'- 6" x 7'	21' x 8'- 6" x 8'- 6"
Inlet / Outlet1 (I.D.)	16" round	30" (inlet), 2-20" (outlet)	18" x 60"	18" x 60"
Interior Coating (SSPC-SP10)	Epoxy	Epoxy	Epoxy	Epoxy
Exterior Coating (SSPC-SP6)	Epoxy / Urethane	Epoxy / Urethane	Epoxy / Urethane	Epoxy / Urethane
Cross Sectional Area (Sq. Ft.)	60	240	150	150
Empty Weight / Operating Weight (lbs.)	5,220 / 11,200	11,500 / 25,900	7,500/19,500	10,500/34,500
Approx. Carbon Bed Weight (lbs.)	5,000	12,000	10,000	20,000
Flow, SCFM (max.)	5,000	18,000	9,000	12,000
Pressure, inches w.c. (max.)	28	28	28	28
Vacuum, inches w.c. (max.)	14	14	14	14
Temperature, °F (max.)	140°	140°	140°	140°

Tinlet/outlet connections can be adapted to a variety of alternate connection sizes. Discuss with your Technical Sales Representative For detailed dimensional information or drawings, contact your local Evoqua Water Technologies 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.



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