

100 cfm

**VENTSORB® Range**

500 cfm

## VENTSORB®

Economical and compact, the VENTSORB® series of drum activated carbon adsorbers is ideal for low-flow (less than 500 cfm) air purification applications at industrial, laboratory, and manufacturing facilities. Chemical, petrochemical, food, pulp and paper, and many other industrial plants are frequent users of the VENTSORB® for continuous treatment of vented emissions. Here are a few examples of user applications for control of small volume organic contaminant and/or odorous gas emissions:

- Laboratory hood exhausts
- Storage tank vents
- Reactor vents
- Paint booths
- Solvent sheds
- Indoor assembly rooms
- Landfills
- Air-stripper off-gases

### VENTSORB® Drum Adsorbers

VENTSORB® canisters contain all the elements found in a full-scale adsorption system vessel: activated carbon, inlet connection and distributor, and an outlet connection for the purified air stream. Air is distributed across the carbon bed with a corrosion-resistant plastic septum. An active ventilation system with the canister mounted on a simple skid and an inlet fan provides the highest degree of user-friendly operation.

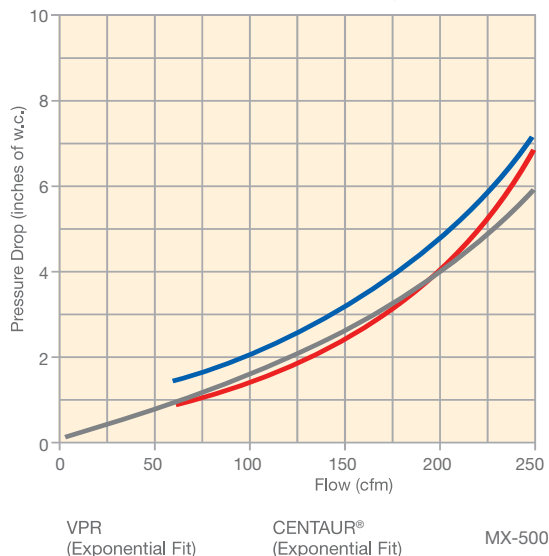


### Benefits and Special Features

- Available in steel or plastic (see table on next page).
- Larger size VENTSORB® 500 is available for higher flows.
- Available with a fan and skid for a complete adsorption system.
- Effective treatment that removes a variety of vapor-phase organic contaminants and odor-causing compounds.
- Supplied with the type of activated carbon selected specifically for the application.
- Continuous treatment at varying flow rates and concentrations.
- Simple installation and operation.
- Flexibility, can be installed in series or multiple units in parallel.
- Practical disposal option as pre-approved spent carbon canisters may be returned to Barnebey Sutcliffe for safe carbon reactivation.
- Low cost per unit makes carbon treatment economical.

### Pressure Drop Curve

All curves are field packed density.



**ATTENTION:** 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.

## VENTSORB® – Specifications

	VENTSORB®	VENTSORB® PE	PROTECT™ MX500V
Vessel	Open head, 16-gauge steel drum	Open head, 125-mil thick (min.), HDPE drum	Open head, 16-gauge steel drum
Diameter x Height	22 1/2" x 35 3/16"	21 3/4" x 36 1/2"	32" x 47"
Max. Pressure	4 psig (0.2 kPa)	4 psig (0.2 kPa)	7 psig (0.33 kPa)
Cover	Removable steel cover, 12-gauge bolt ring with polycord gasket	175-mil thick, HDPE with closure and polyurethane gasket	Removable steel cover, 16-gauge bolt ring with polycord gasket
Internal Coating	Heat cured 100% phenolic	HDPE	Heat cured 100% phenolic
External Coating	High solids enamel	HDPE	High solids enamel
Temperature	300° F (intermittent) (177° C)	120° F (intermittent) (49° C)	125° F (intermittent)
Inlet	2" FNPT	4" FNPT (HDPE)	4" FNPT
Outlet	2" FNPT	4" FNPT (HDPE)	4" FNPT
Max. Flow	100 cfm (170 cmph)	200 cfm (340 cmph)	450 cfm (765 cmph)
Carbon	180 lbs. (approximately)	180 lbs. (approximately)	450 lbs. (approximately)
Ship Weight	247 lbs. (112 kg)	224 lbs. (102 kg)	580 lbs. (263 kg)
Identification	Sequential serial numbers	Sequentially serial numbers	Sequentially serial numbers

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### Warranty Disclaimer

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