



VPV500 – VPV1.5K RENTAL VAPOR-PHASE ADSORBER VESSELS

APPLICATIONS

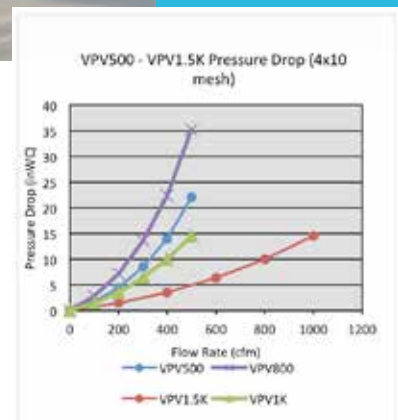
Evoqua's vapor-phase adsorption system media vessels hold granular activated carbon (GAC) or other adsorptive media designed to remove contaminants from vapor streams. These systems are used in such applications as:

- VOC control from SVE systems
- NESHAPS emissions control
- Vent treatment from wastewater or product storage tanks
- Low-level hydrogen sulfide (H_2S), ammonia (NH_3), acid, and caustic vapor removal
- Odor and emission control
- Truck and rail car vapors
- Air stripper off-gas treatment
- Process air treatment
- Pilot testing

INSTALLATION, STARTUP AND OPERATION

The VPV500, VPV800, VPV1K, and VPV1.5K vessels are shipped as individual vessels with modular, interconnecting hosing suitable for system operation in parallel and series. The systems require minimal field assembly and site connections.

Evoqua can provide a total service package that includes OSHA- trained personnel performing onsite GAC changeouts, packaging, and transportation of spent GAC. The GAC is reactivated at our RCRA-permitted reactivation facilities, where the contaminants are thermally destroyed.



Features and Benefits

- Carbon steel or stainless steel
- Corrosion-resistant acrylic polyurethane-coated exterior on carbon steel vessels
- Compact design for easy handling, drum replacement, and transportation
- Pressure and optional temperature gauges allow for process stream monitoring
- Optional hose, valve, and blower packages
- Designed to minimize pressure loss through vessel

SPECIFICATIONS / TYPICAL PROPERTIES	VPV500	VPV800	VPV1K	VPV1.5K
Dimensions (dia. x sidewall height)	2'6" x 5'	2'6" x 5'6"	3' x 6'6"	4' x 6'6"
Overall Height	5'7"	6'	7'	7'
Optional Process Piping	2"	4"	6"	8"
Flanged Inlet/Outlet (150# ANSI)	2"	4"	6"	8"
Material of Construction	Carbon Steel	Carbon Steel	Stainless Steel	Carbon Steel
Manway	None	None	None	None
Manway (top)	None	None	None	None
Max. Flow (cfm)*	380	380	500	800
Interior Coating	None	None	None	None
Exterior Coating	Polyurethane	Polyurethane	None	Polyurethane
Empty System Weight (lb.)	550	675	790	1,090
Carbon Weight Capacity (lb.)**	500	800	1,000	1,500
Capacity (ft3)	17	30	35	55
Operating Weight (lb.)	1,050	1,475	1,790	2,590
Design Pressure (psi) @ 140°F	<1	<1	<1	<1

Contact your local Evoqua Sales representative to confirm vessel selection, verify appropriate flow rates and obtain detailed specifications, dimensional information or drawings.

* Maximum flow based on maximum hydraulic loading. To verify appropriate flow rates and vessel sizes, contact your Evoqua representative.

** Weight of GAC based on density of 28 lb./ft³. Loaded weight can vary depending on actual density of GAC.

Safety Note: The adsorption of organic compounds onto activated GAC generates heat. In rare instances, adsorbed compounds may also react on the GAC particle surface to generate additional heat. If these heat sources are not properly dissipated, the GAC bed temperature may rise to the carbon ignition point, 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 GAC bed can be provided upon request. In certain applications where the risk of ignition is significant, activated GAC may not be a recommended treatment technology. Please contact your Evoqua sales representative for more details.

Wet activated GAC 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.

Reactivation Capabilities: We can provide instructions on sampling the spent GAC and completing our spent GAC profile form. Our certified laboratory can perform spent GAC acceptance testing. When requested, a certificate of reactivation will be issued.



210 Sixth Ave. Suite 3300 Pittsburgh, PA 15222

+1 (866) 926-8420 (toll-free)

+1 (978) 614-7233 (toll)

www.evoqua.com

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.

© 2019 Evoqua Water Technologies LLC

Subject to change without notice

PES-VPV500-DS-0719