



**evoqua**  
WATER TECHNOLOGIES



## **PV<sup>®</sup> SERIES HIGH PRESSURE LIQUID PHASE ADSORPTION SYSTEMS**

### **PV<sup>®</sup>-5000SYS AND PV<sup>®</sup>-10000SYS SYSTEMS**

#### **Applications**

The PV<sup>®</sup> Series Systems are designed for use in a wide range of low/high flow and pressure applications.

- Groundwater remediation
- Wastewater filtration
- Tank rinse water treatment
- Pilot testing
- Underground storage tank clean up
- Leachate treatment
- Dechlorination
- Spill cleanup
- Hydrotesting
- Drinking Water

#### **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 RCRA permitted reactivation facilities.

At the time of purchase or rental of the adsorbers, arrangements should be made for the reactivation of the spent carbon. Evoqua will provide instructions and assistance on how to obtain acceptance of the spent carbon at our reactivation facilities. Spent carbon cannot be accepted for reactivation until the acceptance process is completed.

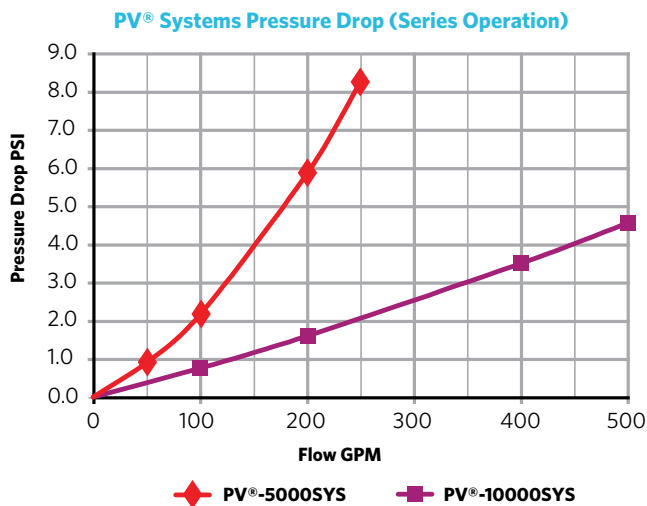
#### **Benefits & Design Features**

- SSPC-SP5, NSF-approved epoxy lining, rust preventative epoxy primer urethane exterior finish.
- Top and side manways permit easy access and inspection of vessels internals and linings.
- Skid-mounted for easy handling and installation.
- Optimized underdrain system for low pressure drop operation.
- Piping manifold allows either adsorber to be used in the lead or lag position.
- Series or parallel operation.
- PV-5000SYS Systems are shipped complete with face piping assembled and GAC loaded; no on-site assembly is required.
- PV-10000SYS Systems require GAC transfer via slurry piping (4" Sch 10 304L SS).

## SPECIFICATIONS

	PV®-5000SYS System	PV®-10000 System
Dimensions (Vessel Dia. x Overall Height - Approx.)	72" x 11'4"	96" x 15'2"
Footprint (Length x Width)	14'2" x 8'	22'8" x 10'
Inlet Connection (Top)	4"	6"
Outlet Connection (Bottom)	4"	6"
Manway, Top & Lower Side	(2)14" x 18"	14" x 18"/20"
Internal Piping	304L SS	304L SS
Interior Coating (All Units)	Epoxy	Epoxy
Exterior Coating (All Units)	Epoxy/Urethane	Epoxy/Urethane
Vessel Weight (lbs.):		
Shipping (Skid)	18,000 (Two vessels, piping, carbon)	15,500 (Two vessels, piping)
Operating (Approx.)	34,600	85,000
Flow, GPM (Nominal Per Vessel)	250	500
Pressure, PSIG (Maximum) <sup>1</sup>	75	75
Temperature, °F (Maximum)	140	140
Pounds Of Carbon (Per Vessel)	5,000	10,000
Backwash Rate, GPM (8 x 30 Mesh @ 55°F)	250	450

<sup>1</sup>The PV® Series adsorbers are not ASME code stamped. Pressure rating applies to liquid only.  
For detailed dimensional information or drawings, contact your local Evoqua sales representative.  
For information on the HP® Series ASME code stamped adsorbers, contact your local Evoqua representative.



**Safety Note:** 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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