



FRP – SERIES

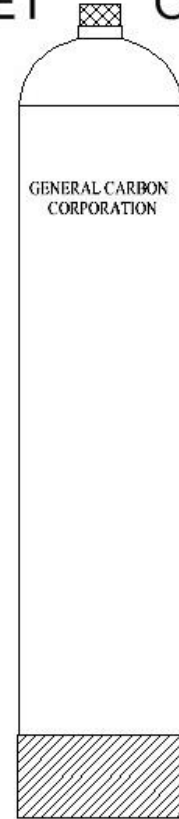
fiberglass pressure adsorber

Resistant to many chemicals, GENERAL CARBON FRP – SERIES LIQUID PHASE ADSORBERS are ideal where corrosion is a primary concern. Rated for 150 PSI these units can be used effectively in high-pressure applications. FRP vessels always have to be protected from vacuum conditions by use of a vacuum breaker in the line. The FRP-SERIES tanks come in many sizes to handle a full range of liquid flows. Made with an internal bladder wrapped in fiberglass, these filament wound vessels are ideal for filtration using activated carbon, resins or other filter media. Food grade internals are standard along with a wide selection of inlet/outlet sizes. Automatic valves are available for unattended or automatic backwash operation.

Standard Features

- 150-PSI High Pressure Tank Design
- Corrosion Resistant FRP Construction
- ANSI/NSF Certifications
- Food Grade Rating for Tank & Internals
- Large Size Selection to Fit Any Project

INLET OUTLET



12" - 18" Dia.

<u>Model</u>	<u>Flow¹ GPM</u>	<u>Carbon² lbs</u>	<u>Total Vol. Gallons</u>	<u>Inlet/Outlet Location</u>	<u>FPT</u>	<u>Diameter</u>	<u>OAH</u>
FRP-12x48	4	55	23.4	Top	1"	12"	48"
FRP-13x54	5	75	27.6	Top	1"	13"	55"
FRP-16x65	10	135	48.3	Top	1"	16"	66"
FRP-18x65	12	175	62.4	Top	1"	18"	67"
FRP-24x72	15	330	119	T/B	1"	24"	76"
FRP-30x72	25	525	187	T/B	3"	30"	81"
FRP-36x72	35	740	264	T/B	3"	36"	82"
FRP-42x72	48	970	345	T/B	3"	42"	86"
FRP-48x72	62	1300	463	T/B	3"	48"	86"

¹ Flow Rate at Maximum Recommended Loading of 5-gpm/sq. ft. Bed Cross-Section Area.

² Pounds of Carbon is for Density of 28#/cu. ft. and allowing 25% Bed Expansion for Backwash.

INSTALLATION & START UP

FRP-series adsorbers are shipped empty along with the required carbon. The adsorber should be connected and all fittings pressure tested for leaks before the carbon is installed through the top access hole. A vacuum relief device is advised to prevent tank damage. After the carbon has been loaded, the unit should be filled with clean water through the bottom collector, and allowed to degas for 8-12 hours if possible. Backwashing the carbon is recommended to remove carbon fines that can cause excessive pressure drop through the unit.

MAINTENANCE

All liquid phase adsorbers work better if they are backwashed periodically. This “fluffs” up the bed removing fines and channeling flows. Additional maintenance that FRP-Series adsorbers require is the testing of effluent quality, and the checking of the operating pressure of the system. Monitoring the contaminant level into the last unit in a series arrangement is the recommended safeguard against having breakthrough in the final outflow.



24" Through 48" Diameter

SERVICING THE FRP TANKS

Once an adsorber's carbon is saturated by contaminants, the unit should be taken off line and fresh carbon installed. To purchase replacement carbon or to arrange for a carbon change-out, please contact our office. When preparing the unit for service, you need to drain as much water as possible from the vessel.

Caution!

Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels. Confined space/low oxygen procedures should be put in place before any entry is made. Such procedures should comply with all applicable Local, State and Federal guidelines. 10/07