

# LOW PRESSURE VAPOR PHASE CARBON VESSELS . VPC SERIES

## Application:

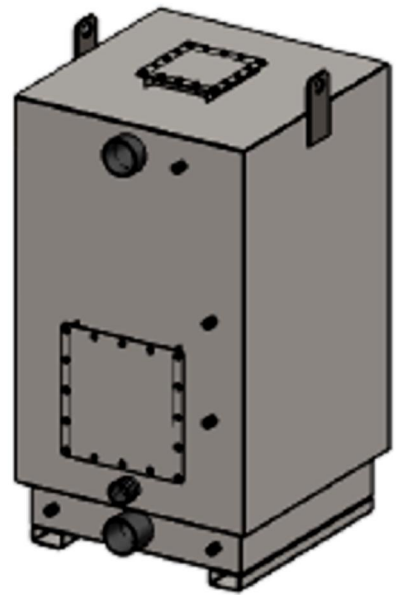
**newterra** Vapor Phase Carbon Vessels are designed for the removal of contaminants from air streams. The vessels are filled with activated carbon although other types of media can be accommodated as well. The internal manifold can be removed easily if replacement is required. All vessels come with tube slip inlet and outlet as well as top and side access ports for carbon filling and recovery.

## Construction:

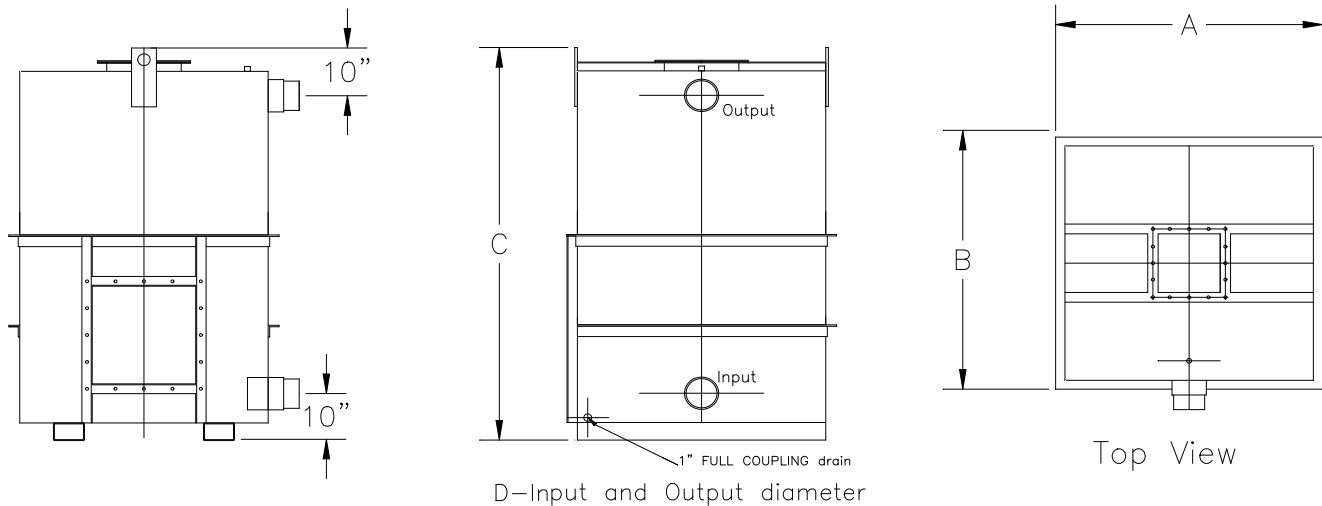
The vessels are made with 1/8+carbon steel with structurally reinforcing angles to prevent bowing. Various sizes are available and customized vessels can be made to fit specific criteria.

## Standard Features:

- Max. Flow rate = 70 fps
- Min. Flow rate = 20 fps
- Max. Temperature = 250 F (limited by epoxy coating temperature range)
- Carbon mass specifications based on carbon density = 27 lb/ft<sup>3</sup>
- FNPT input/output
- Stainless steel air manifold
- Interior coated with corrosion resistant epoxy
- Exterior coated with dev-guard newterra blue paint
- Pressure tested to 1 psi
- ½+ FNPT pressure gage port mounted on top of vessel
- 12+x 12+top access for carbon filling
- 20+ x 20+ side access for carbon recovery and inspecting internals



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## Dimension and Specification Chart:

Part Number	A	B	C	D	Maximum Flow	Minimum Flow	Carbon Mass	Bed Depth	Bed Area (ft <sup>2</sup> )	Effective Volume (ft <sup>3</sup> )	Shipping Weight (lbs)
VPC 500	3q	3q	3q8+	4+	630 cfm	180 cfm	500	2q3+	9	20.25	780
VPC 750	3q	3q	5q8+	4+	630 cfm	180 cfm	750 lb	3q3+	9	29.25	1050
VPC 1000	3q	3q	6q8+	6+	630 cfm	180 cfm	1000 lb	4q3+	9	38.25	1600
VPC 1500	4q	3q6+	6q8+	6+	980 cfm	280 cfm	1500 lb	4q3+	14	59.5	2200
VPC 1800	4q	4q	6q8+	6+	1120 cfm	320 cfm	1800 lb	4q3+	16	68	2700
VPC 2000	4q	3q6+	7q8+	6+	980 cfm	280 cfm	2000 lb	5q3+	14	73.5	3000
VPC 2800	5q	5q	6q8+	6+	1750 cfm	500 cfm	2800 lb	4q3+	25	106.25	4000
VPC 3500	5q	5q	7q8+	6+	1750 cfm	500 cfm	3500 lb	5q3+	25	131.25	5000
VPC 5000	6q	6q	7q8+	8+	2520 cfm	720 cfm	5000 lb	5q3+	36	189	7300
VPC 10000	8q6+	10q0+	7q8+	10+	4480 cfm	1280 cfm	10000 lb	5q3+	92	400	12900

## Options Table:

Option	Description
Inlet/outlet	Any inlet/outlet connection can be used with an appropriate change in cost
Stainless steel	Replaces carbon steel exterior. Able to withstand temperatures above 250°F
Custom	Custom sized vessels are also available to fit specific needs



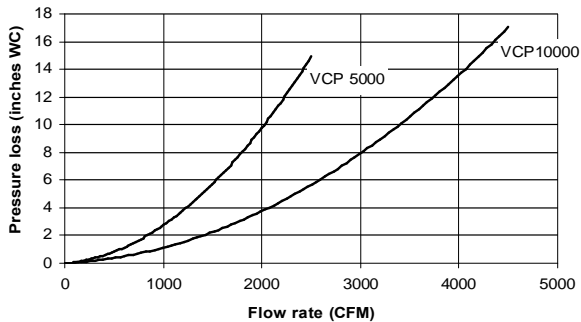
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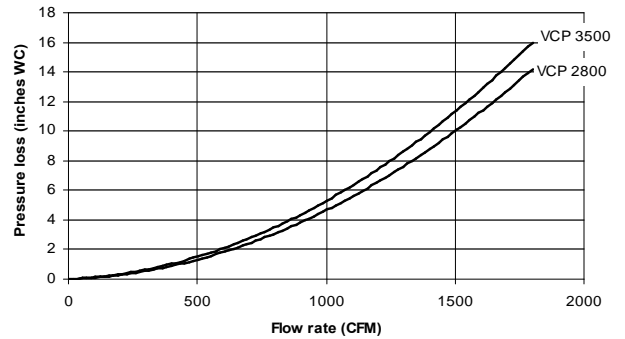
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## Pressure Loss Graphs:

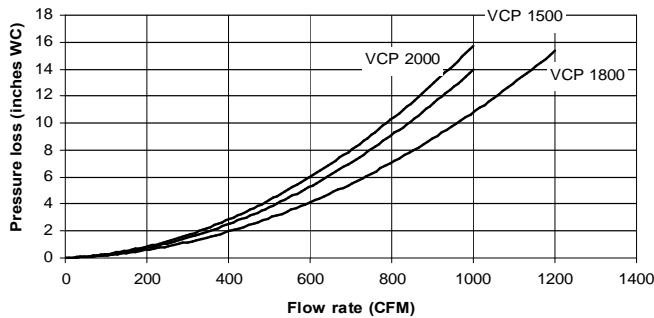
Pressure Loss for VPC 10000, VPC 5000



Pressure Loss for VPC 3500, VPC 2800



Pressure Loss for VPC 2000, VPC 1800, VPC 1500



Pressure Loss for VPC 1000, VPC 750, VPC 500

