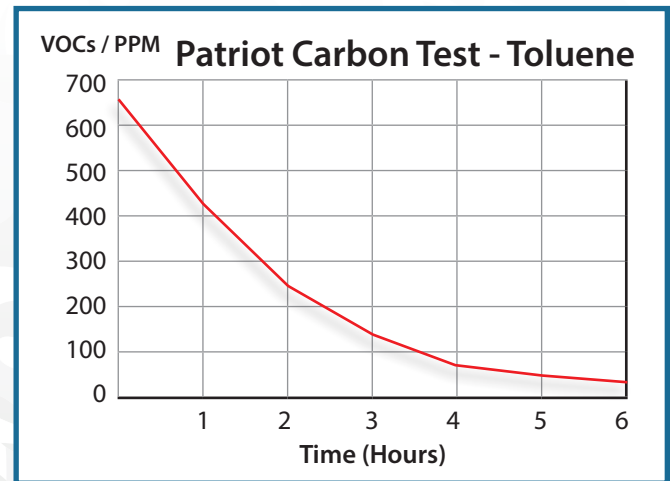




Patriot Carbon Technical Data

Patriot Carbon utilizes an Adsorptive Photo-catalytic Oxidation matrix to help sterilize the air and reduce indoor odors and volatile organic compound (VOC) contamination from indoor air. The system uses proprietary adsorption media to capture VOCs, then, with the help of irradiation from a 254 nm Germicidal UV-C lamp the captured constituents are reduced through an innovative photo-catalytic oxidation process which breaks them down into elemental carbon dioxide and water vapor.

The monolithic Carbon cell in Patriot Carbon is regenerative. Under normal operation it requires no maintenance and does not need to be replaced. Additionally, the UV-C light in Patriot Carbon irradiates the moving air stream reducing airborne bacteria, viruses, allergens, and odors. The UV light also reduces any build up of mold within the air handler and ducts.



PATRIOT CARBON TECHNICAL DATA	
UV Lamp	254 nm Germicidal UV-C Spectrum Quartz Hot Filament
Carbon Cell	Advanced Monolithic Absorptive Carbon cell with proprietary absorption media and proven TiO ₂ photo-catalyst
Cell per In2	16
Cell Surface Area	250 m ² /gm
Bulk Density	1.44 gm/cm ²
Pressure Drop	<0.005 in w.c. @ 400 FPM
VOC Activity	40-60% absorption per pass
Max Operating Temp.	400 degrees F

