



# Simple Solutions Distributing LLC.

Makers Of *Wolverine Brand* Activated Carbon Filters

Simple Solutions Distributing  
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## Data Sheet: PCB-90 CFM Adsorber

Part# PCB90PB



Outside Diameter: 24 x 48 Inches Epoxy Coated Skid  
Overall Height: 38 Inches  
Inlet: 4 Inch FIPT with variable dampener.  
Outlet: 4 Inch FIPT  
Material: HDPE  
Max CFM: 90/PB9 Pressure Blower 115/1/60 ( other voltage options available)  
Maximum pressure: 10 PSI  
Maximum Design Temperature: 140 F  
Flow Direction: Up flow  
Carbon Capacity: 150 LBS/6 cubic feet \*  
Carbon Type: Catalytic  
H2S Breakthrough Capacity gH2S/cc carbon; .15 (Min) ASTM D 6646

\* The low apparent density of catalytic carbons means fewer pounds must be purchased to fill the required volume. Since H2S removal Capacity is based on bed volume, this results in direct cost savings.

### Sulfursorb Catalytic Carbon Life Estimates

#### Carbon Life Estimate based on constant flow at 10 PPM H2S Concentration

CFM	<u>5CFM</u>	<u>10CFM</u>	<u>20CFM</u>	<u>40CFM</u>	<u>60CFM</u>	<u>80CFM</u>	<u>100CFM</u>
Carbon Bed Contact Time-Seconds	72	36	18	9	6	4.5	3.6
Carbon Life Days	8208.23	4104.12	2052.06	1026.03	684.02	513.01	410.41
Carbon Life Hours	196997.6	98498.8	49249.9	24624.7	16416.46	12312.35	9849.88

#### Carbon Life Estimate based on constant flow at 20 PPM H2S Concentration

CFM	<u>5CFM</u>	<u>10CFM</u>	<u>20CFM</u>	<u>40CFM</u>	<u>60CFM</u>	<u>80CFM</u>	<u>100CFM</u>
Carbon Bed Contact Time	72	36	18	9	6	4.5	3.6
Carbon Life Days	4104.12	2052.06	1026.03	684.02	513.01	256.51	205.21
Carbon Life Hours	98498.77	49249.4	24624.7	16416.5	12312.35	6156.17	4924.94

#### Carbon Life Estimate based on constant flow at 30 PPM H2S Concentration

CFM	<u>5CFM</u>	<u>10CFM</u>	<u>20CFM</u>	<u>40CFM</u>	<u>60CFM</u>	<u>80CFM</u>	<u>100CFM</u>
Carbon Bed Contact Time	72	36	18	9	6	4.5	3.6
Carbon Life Days	2736.08	1368.04	684.02	456.01	228.01	171.00	136.80
Carbon Life Hours	65665.85	32832.9	16416.5	10944.3	5472.15	4104.12	3283.29

#### Carbon Life Estimate based on constant flow at 50 PPM H2S Concentration

CFM	<u>5CFM</u>	<u>10CFM</u>	<u>20CFM</u>	<u>40CFM</u>	<u>60CFM</u>	<u>80CFM</u>	<u>100CFM</u>
Carbon Bed Contact Time	72	36	18	9	6	4.5	3.6
Carbon Life Days	1641.65	820.82	547.22	205.21	136.80	102.60	82.08
Carbon Life Hours	39399.51	19699.75	13133.17	4924.94	3283.29	2462.47	1969.98