

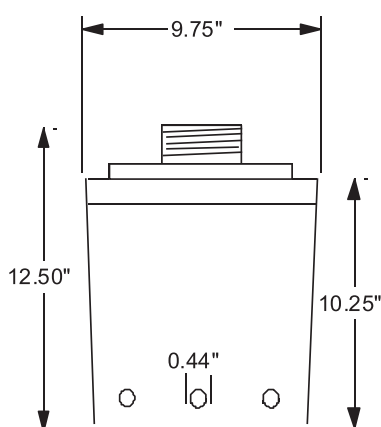


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## **Data Sheet: 5LB ARVF-Data Sheet Part # ARVF-5**



Application: Air Release Valve Vents.

Installed Height: 12.5 Inches

Overall Width : 9.75 Inches

Inlet sizes: 3" FIPT; ASTM F 1498

Max CFM: 50 CFM

Carbon Capacity: 5LBS/.2 cubic feet \*

Carbon Type: Catalytic

H<sub>2</sub>S Breakthrough Capacity gH<sub>2</sub>S/cc carbon; .2 (Min) ASTM D 6646

\* The low apparent density of catalytic carbons means fewer pounds must be purchased to fill the required volume. Since H<sub>2</sub>S removal Capacity is based on bed volume, this results in direct cost savings.

### **Darco Catalytic Carbon Life Estimates**

#### **Carbon Life Estimate based on constant flow at 5 PPM H<sub>2</sub>S Concentration**

| CFM                             | 1CFM     | 5CFM     | 10CFM  | 20CFM   | 30CFM   | 40CFM  | 50 CFM  |
|---------------------------------|----------|----------|--------|---------|---------|--------|---------|
| Carbon Bed Contact Time-Seconds | 12       | 2.4      | 1.2    | 0.6     | 0.4     | 0.3    | 0.24    |
| Carbon Life Days                | 2736.075 | 729.62   | 273.61 | 136.805 | 91.205  | 68.4   | 54.72   |
| Carbon Life Hours               | 65665.85 | 17510.88 | 273.61 | 3283.32 | 2188.92 | 1641.6 | 1313.28 |

#### **Carbon Life Estimate based on constant flow at 10 PPM H<sub>2</sub>S Concentration**

| CFM                     | 1CFM     | 5CFM    | 10CFM   | 20CFM  | 30CFM  | 40CFM | 50 CFM |
|-------------------------|----------|---------|---------|--------|--------|-------|--------|
| Carbon Bed Contact Time | 12       | 2.4     | 1.2     | 0.6    | 0.4    | 0.3   | 0.24   |
| Carbon Life Days        | 1368.04  | 273.61  | 136.805 | 68.4   | 45.6   | 34.2  | 27.36  |
| Carbon Life Hours       | 32832.96 | 6566.64 | 3283.32 | 1641.6 | 1094.4 | 820.8 | 656.64 |

#### **Carbon Life Estimate based on constant flow at 20 PPM H<sub>2</sub>S Concentration**

| CFM                     | 1CFM     | 5CFM    | 10CFM  | 20CFM | 30CFM | 40CFM | 50 CFM |
|-------------------------|----------|---------|--------|-------|-------|-------|--------|
| Carbon Bed Contact Time | 12       | 2.4     | 1.2    | 0.6   | 0.4   | 0.3   | 0.24   |
| Carbon Life Days        | 684.02   | 136.805 | 68.4   | 34.2  | 22.8  | 17.1  | 13.68  |
| Carbon Life Hours       | 16416.48 | 3283.32 | 1641.6 | 820.8 | 547.2 | 410.4 | 328.32 |
| Carbon Bed Contact Time | 12       | 2.4     | 1.2    | 0.6   | 0.4   | 0.3   | 0.24   |

#### **Carbon Life Estimate based on constant flow at 30 PPM H<sub>2</sub>S Concentration**

| CFM                     | 1CFM     | 5CFM    | 10CFM  | 20CFM | 30CFM | 40CFM | 50 CFM |
|-------------------------|----------|---------|--------|-------|-------|-------|--------|
| Carbon Bed Contact Time | 12       | 2.4     | 1.2    | 0.6   | 0.4   | 0.3   | 0.24   |
| Carbon Life Days        | 456.015  | 91.205  | 45.6   | 22.8  | 15.2  | 11.4  | 9.12   |
| Carbon Life Hours       | 10944.36 | 2188.92 | 1094.4 | 547.2 | 364.8 | 273.6 | 218.88 |