

## HIGH FLOW and VENTSORB PE Odor Control Systems



### DESCRIPTION:

Continental Carbon Group's HIGH FLOW and VENTSORB PE Odor Control Systems represent a perfect fit for odor control applications where space is at a premium and simplicity is a must. They have one of the smallest footprints of any odor control system, considerably smaller than most biofilter and wet scrubbing systems. Within one of the smallest footprints of any odor control system, Continental Carbon Group can provide a total odor control package, complete with fan, controls and all of the accessories required for easy installation and operation.

### APPLICATIONS:

Due to their relatively small size, the HIGH FLOW and VENTSORB PE are ideally suited for municipal wastewater collection facilities such as pump stations and lift stations, where space is typically at a premium. They are also well-suited to point-source applications within the wastewater treatment plant itself. The canisters can be filled with a variety of different media depending on the application, i.e. removal of moderate hydrogen sulfide (H<sub>2</sub>S), odorous organic sulfur compounds (mercaptans) and other organics. For applications other than continuous operation at design flow rate, please contact CCG for review and recommendation.

### FLEXIBILITY:

Both the HIGH FLOW and VENTSORB PE can be configured in a number of ways in order to solve an odor problem. There are three basic models to choose from:

- A simple, passive, stand-alone canister
- A skid-mounted system complete with fan and controls
- A top-mounted fan system

### FEATURES:

- Airflow capacity from 200 CFM up to 3,000 CFM
- All-plastic construction for corrosion resistance
- Available in stand-alone, top-mounted fan, or skid-mounted configurations
- Standard unit contains initial load of carbon and grounding rod; available accessories include: mounting skid, fan, motor starter/control panel, sound enclosure, differential pressure gauge and rain cap for outdoor installation

### BENEFITS:

- Ideal solution for point source odor control at pump stations and treatment plants, as well as industrial facilities
- Shipped ready for installation; modular system can be installed quickly and easily
- Variety of options for media fill ensure proper treatment of various odor control applications

## HIGH FLOW and VENTSORB PE Design Data

Model	Air Flow Capacity cfm(m <sup>3</sup> /hr)	Carbon Capacity ft <sup>3</sup> (m <sup>3</sup> )	Carbon Bed Depth feet (m)	System Dimensions <sup>1</sup> feet (meters)	System Weight <sup>2</sup> (Max) pounds	System Pressure Drop <sup>3</sup> inches wc (N/m <sup>2</sup> )	Fan Horsepower <sup>3</sup> HP
<b>HIGH FLOW Stand Alone</b>							
HF-400 C	200-400 (340-680)	6.2 (0.17)	1.46 (0.44)	2.3 dia. x 4.25 (0.7 x 1.3)	1,200 (540)	9.0 (2,240)	n/a
HF-600 C	400-600 (680-1,020)	19.3 (0.54)	2.73 (0.83)	3.0 dia. x 5.5 (0.9 x 1.7)	2,700 (1,220)	12.0 (2,990)	n/a
HF-1000 C	600-1,000 (1,020-1,700)	32.2 (0.90)	2.56 (0.78)	4.0 dia. x 5.5 (1.3 x 1.7)	4,700 (2,130)	11.0 (2,740)	n/a
HF-1500 C	1,000-1,500 (1,700-2,550)	51.4 (1.43)	2.62 (0.79)	5.0 dia. x 5.5 (1.6 x 1.7)	7,400 (3,350)	10.0 (2,490)	n/a
HF-2000 C	1,500-2,000 (2,550-3,400)	64.7 (1.80)	2.29 (0.69)	6.0 dia. x 5.9 (1.8 x 1.8)	10,800 (4,900)	9.0 (2,240)	n/a
HF-3000 C	2,000-3,000 (3,400-5,100)	101.2 (2.82)	2.29 (0.69)	7.5 dia. x 5.5 (2.3 x 1.7)	16,800 (7,600)	11 (2,740)	n/a
<b>HIGH FLOW Skid-Mounted Fan Systems</b>							
HF-400 S	200-400 (340-680)	6.2 (0.17)	1.46 (0.44)	6.0 x 4.0 x 5.7 (1.8 x 1.3 x 1.8)	2,300 (1,040)	10.0 (2,490)	2
HF-600 S	400-600 (680-1,020)	19.3 (0.54)	2.73 (0.83)	7.7 x 4.0 x 7.5 (2.4 x 1.3 x 2.3)	4,100 (1,860)	13.8 (3,440)	5
HF-1000 S	600-1,000 (1,020-1,700)	32.2 (0.90)	2.56 (0.78)	10.0 x 6.0 x 7.2 (3.1 x 1.9 x 2.2)	6,800 (3,080)	13 (3,240)	7.5
HF-1500 S	1,000-1,500 (1,700-2,550)	51.4 (1.43)	2.62 (0.79)	10.5 x 6.0 x 7.7 (3.3 x 1.9 x 2.4)	9,500 (4,300)	13 (3,240)	7.5
HF-2000 S	1,500-2,000 (2,550-3,400)	64.7 (1.80)	2.29 (0.69)	11.5 x 7.0 x 8.0 (3.5 x 2.1 x 2.4)	12,900 (5,860)	13 (3,240)	10
HF-3000 S	2,000-3,000 (3,400-5,100)	101.2 (2.82)	2.29 (0.69)	13.5 x 8.0 x 8.3 (4.2 x 2.5 x 2.6)	19,400 (8,820)	13 (3,240)	15
<b>HIGH FLOW Top-Mounted Fan Systems</b>							
HF-400 T	200-400 (340-680)	6.2 (0.17)	1.46 (0.44)	2.3 dia. x 5.75 (0.7 x 1.8)	1,320 (600)	11 (2,740)	1.5
HF-600 T	400-600 (680-1,020)	19.3 (0.54)	2.73 (0.83)	3.0 dia. x 7.4 (0.9 x 2.2)	2,860 (1,300)	13 (3,240)	3
HF-1000 T	600-1,000 (1,020-1,700)	32.2 (0.90)	2.56 (0.78)	4.0 dia. x 7.7 (1.3 x 2.4)	5,055 (2,300)	13 (3,240)	5
<b>VENTSORB PE</b>							
VSPE-200-C	100-200 (170-340)	4.9 (0.14)	2.4 (0.73)	1.9 dia. x 3.0 (0.6 x 0.9)	950 (430)	6.0 (1,490)	n/a
VSPE-200-S	100-200 (170-340)	4.9 (0.14)	2.4 (0.73)	6.0 x 4.0 x 3.6 (1.8 x 1.3 x 1.1)	700 (320)	5.2 (1,300)	1
VSPE-200-T	100-200 (170-340)	4.9 (0.14)	2.4 (0.73)	1.9 dia. x 4.0 (0.6 x 1.2)	800 (360)	6.0 (1,490)	1/2

Notes:

<sup>1</sup> System dimensions are for standard systems and may vary based on options and fan selection. The diameter indicated for the top-mounted and stand-alone canisters is the vessel only and does not include the inlet flange and drain valves. The height for the stand-alone canister is to the top of the plain end outlet nozzle and to the top of the fan motor for the top-mounted fan systems.

<sup>2</sup> Maximum weight is canister filled with activated carbon and water during carbon water washing procedure (if applicable).

<sup>3</sup> System pressure drop includes pressure loss through vessel plus an additional 1-2" w.c. (250-500 N/m<sup>3</sup>) for customer external duct losses with a full load of dense pack 4x6 mesh activated carbon. The carbon bed pressure drop (and possibly fan motor horsepower) will vary based on the use of different size media. An additional 1" w.c. should be added with the use of a grease filter/mist eliminator.

**For More Information:**

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