

Vertical Cartridge Filter (VCF)

- Front access cartridge replacement speeds change out of filter media
- Cartridge clamp system assist-levers disengage filters from tubesheet for simple service
- Unique cartridge design promotes better cleaning when pulsed, which prolongs service life
- Robust design for enhanced explosion protection lowers overall cost
- Easy maintenance with no confined space entry requirement



Application

The VCF has hinged front doors in the rectangular baghouse for easy access to the filter media. This pulse jet cleaned filter unit is designed to handle medium to high air volumes for industrial dust removal applications.

Operating Principle

The VCF is designed for large air capacities and rapid replacement of the filter media with the easy to-use cartridge clamp system. This minimizes downtime during scheduled maintenance decreasing overall cost of operation. The filter is equipped with a smart timer which includes an on-board sensor that reads the pressure drop across the filtering elements for on-demand cleaning. This results in reduced compressed air consumption and greater cartridge life. The standard radial inlet allows for excellent material separation during moderate air volume applications while the optional high entry inlet with a pre-separation chamber is designed for optimal performance in high volume systems. The chamber separates the largest powder particles safeguarding the media from excess loads of pollutants and guaranteeing longer media life.

Standard Features

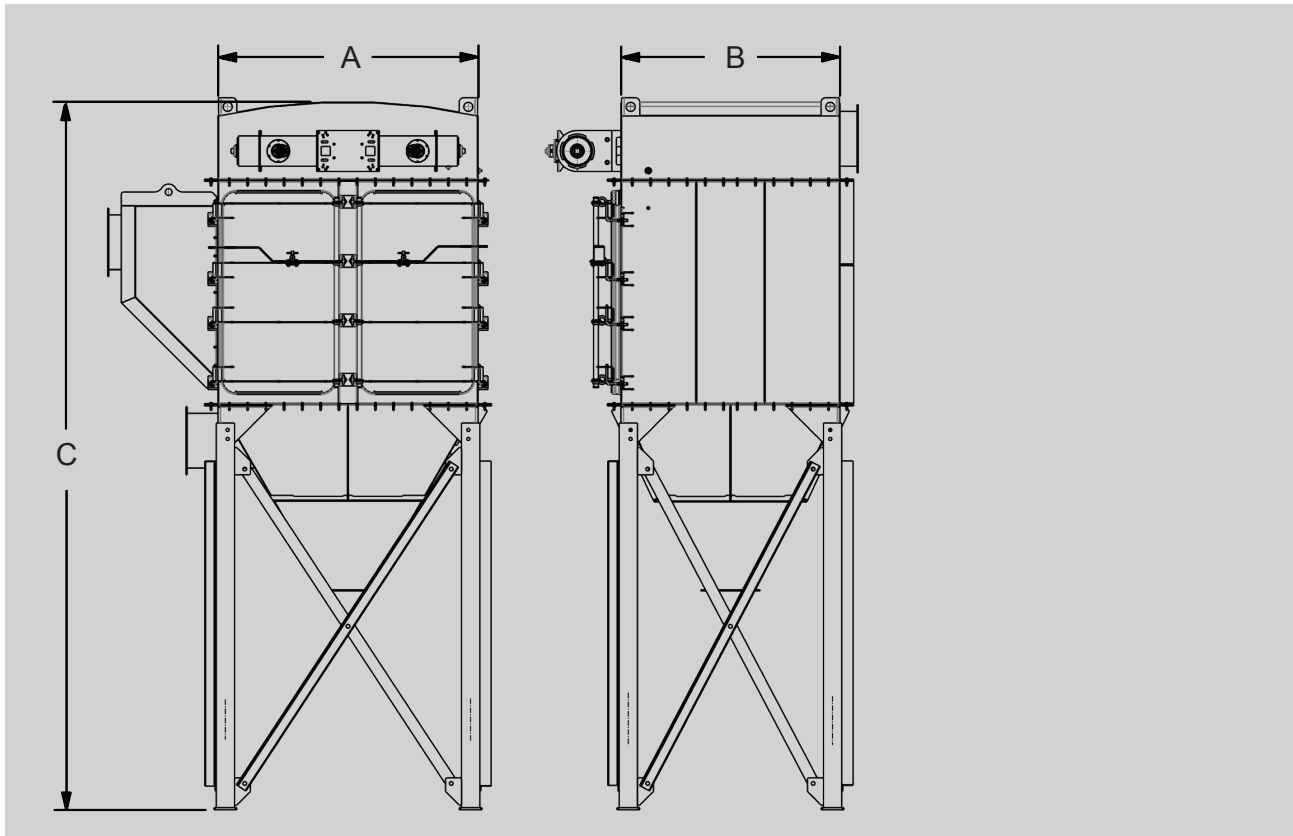
- Unit rated for 30" W.C. and 250 °F (121 °C) standard temperature

- Carbon steel reinforced construction rated for 6.4 psi Pred:
 - Pred validated via full scale third party explosion testing
- Bag housing flanged top and bottom
- Radial low velocity extended inlet with end baffle
- Structural steel legs
- Full welded exterior (except reinforcing) and skip welded interior
- Multiple inlet/outlet locations
- Tool-free cartridge access:
 - Cartridge removal tool required for units three and four cartridges deep
- Timer and solenoid valves are mounted and pre-wired in a Nema 4 enclosure mounted on plenum
- Timer and enclosure voltage, 120VAC/1/60Hz
- Solenoid valves pre-plumbed to diaphragm valves with Polyflo tubing

Options

- Explosion mitigation devices
- HEPA filtration
- Abrasion resistant inlets
- Integral side or top mount fan packages
- High entry inlet with replaceable bag protector baffle, carbon steel
- High level indicator
- 8" diameter bolted inspection port

Dimensions



Model	Number of Cartridges	Cloth Area (Sq. Ft.)			Air Flow @ 3:1 A/C			Dimensions (inches)			
		PR057 Polyester	QPR057 Polyester/PTFE	PE806 Polyester	PR057 Polyester	QPR057 Polyester/PTFE	PE806 Polyester	A	B	C	C (with HEPA Plenum)
1VCF2	2	436	498	288	1,308	1,494	864	26.5	48	N/A	* N/A
2VCF2	4	872	996	576	2,616	2,988	1,728	57	48	156.33	182.83
2VCF3	6	1,308	1,494	864	3,924	4,482	2,592	57	69	156.26	182.76
3VCF3	9	1,962	2,241	1,296	5,886	6,723	3,888	92.5	69	186.83	213.33
3VCF4	12	2,616	2,988	1,728	7,848	8,964	5,184	92.5	90	191.01	213.51
4VCF4	16	3,488	3,984	2,304	10,464	11,952	6,912	123	90	217.24	239.74
5VCF4	20	4,360	4,980	2,880	13,080	14,940	8,640	158.5	90	189.40	205.90
6VCF4	24	5,232	5,976	3,456	15,696	17,928	10,368	189	90	189.26	205.76
7VCF4	28	6,104	6,972	4,032	18,312	20,916	12,096	224.5	90	189.26	210.82
8VCF4	32	6,976	7,968	4,608	20,928	23,904	13,824	255	90	189.26	210.82

* HEPA filters are not available on the 1VCF2 model.

7901 NW 107th Terrace
 Kansas City, MO 64153
 816-891-9300
info.fpm@coperion.com
www.coperion.com/fpm