AmericanAirFilter®

OptiFlo®

Pulse-Jet Cylindrical
Cartridge Dust Collector

Better Air is Our Business®

AAF® INTERNATIONAL

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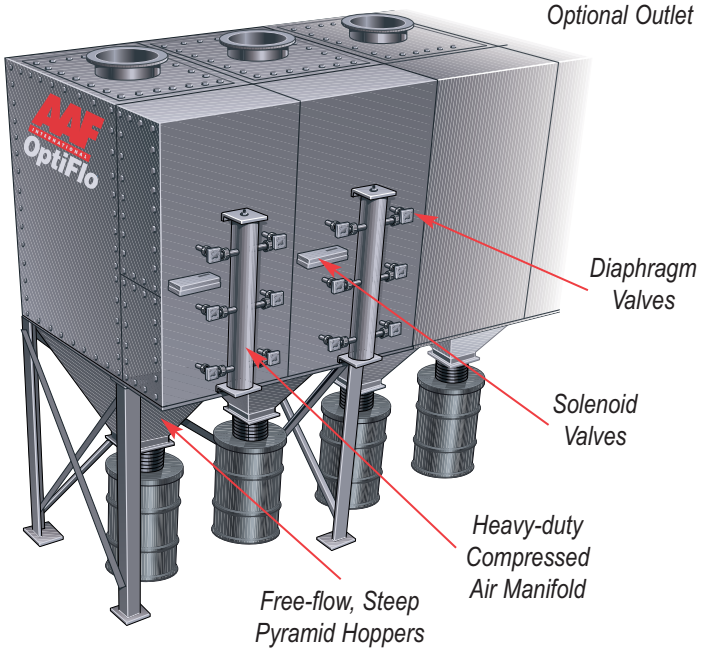
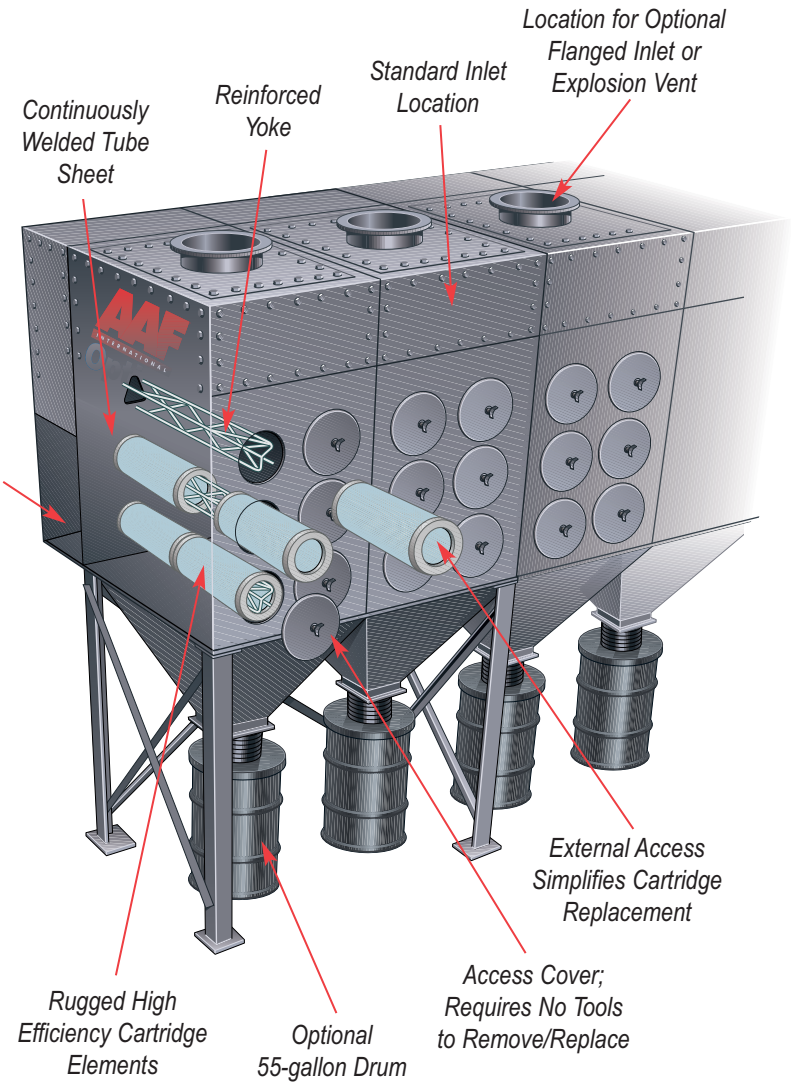
OptiFlo®

The Next Generation in Dust Collection

The AAF OptiFlo cartridge collector is the optimum solution to a variety of in-plant air quality problems. The compact modules help conserve valuable space, and can be interconnected to accommodate the largest air cleaning task. OptiFlo collectors may be tailored to specific application requirements with a wide selection of cartridge types, options, and accessories.

- ***Up to 10% more airflow capacity at lower operating horsepower than competitive designs***
- ***Lowest flange-to-flange pressure drop available***
- ***True modular design permits unlimited range of sizes***
- ***Choose top/front inlet or side/bottom outlet locations***
- ***Solid-state NEMA 4 controls standard***
- ***Easy access for cartridge replacement; no tools required***
- ***Capabilities include Bag In/Bag Out doors for toxic and hazardous dust applications*** *(standard option)*
- ***Reduces plant energy costs***
- ***Optional safety or HEPA after-filters***
- ***Provides healthier in-plant environment***
- ***Increases productivity***
- ***Temperature and media options up to 275º F***
- ***Completely factory prewired, assembled, and tested*** *(standard option)*





Special Features

Aerodynamic Design
The AAF OptiFlo design easily permits free-fall of dislodged dust to enter the hopper and is designed to prevent direct impingement of dust particles on the media, which minimizes abrasion and dust build-up.

Rugged Construction
The use of ASME certified welders and ASTM certified steel ensures that every OptiFlo product is built to last. A seismic Zone 4 rating is standard. Stainless steel construction is available in 304 or 316L. NEMA 4 controls are standard, with all others available as options.

Cartridge Seal
OptiFlo filter cartridges have only one gasket sealing surface. This means that the possibility for leakage is significantly reduced. In addition, a continuously welded tube sheet ensures no dust bypass.

Ease of Maintenance
The AAF OptiFlo cartridge collector is designed for filter replacement from outside of the unit. Personnel do not have to enter the collector to change filter elements, nor are any tools required. Bag In/Bag Out is a standard option.

World-Class Quality

Many of the technologies used to control air pollution were originally developed by AAF. Our facilities are specifically designed to manufacture and test complex air pollution control products. During the entire production process, our operations are governed by our ISO 9001 certified system.

Typical Applications

Metalworking
- *Abrasive Cleaning Sandblasting*
- *Grinding/Polishing*
- *Laser Cutting*
- *Metallizing/Thermal Spray (Arc, Plasma & Flame Spray, HVOF)*
- *Weld Fume*
- *Battery Manufacturing*

Industrial Processes
- *Plastic & Rubber (Molding & Grinding)*
- *Rock & Related Products*
- *Coal Dust*
- *Paint Pigments*
- *Pesticides & Fertilizer*
- *Powder Paint*
- *Inorganic Chemicals*
- *Tobacco*

Food Processing
- *Cereals*
- *Candy*
- *Chocolate & Cocoa*
- *Flour & Mixes*
- *Dog & Cat Food*
- *Seasonings & Additives*
- *Milk Solids*
- *Nut Shells*
- *Starch*

Pharmaceutical
- *Pill Coating*
- *Pill/Tablet Presses*
- *Material Handling*
- *Packaging*

Woodworking
- *Furniture Manufacturing*
- *School Wood Shops*
- *Cabinetry*

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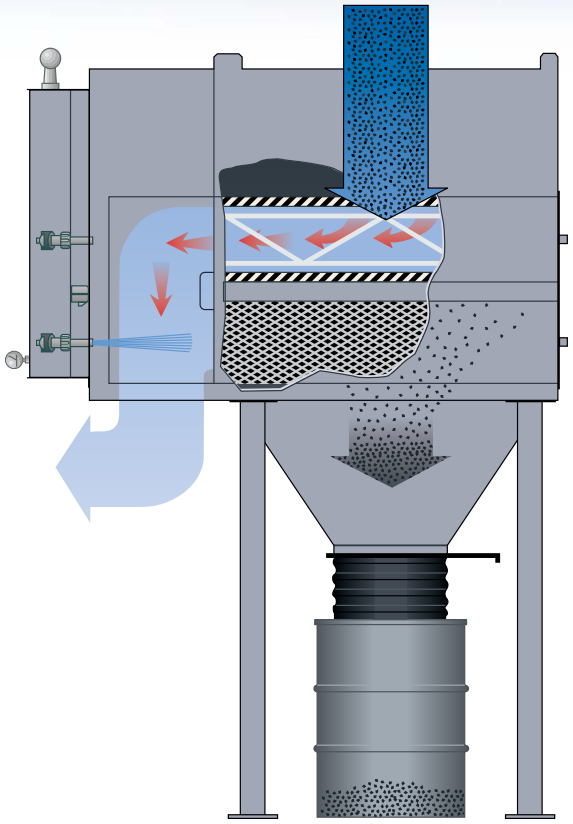
Operation of the OptiFlo

During normal operation, dirty air enters the OptiFlo collector through the top inlet and moves in a true downflow direction through the filter cartridges. Dust is collected on the outer surfaces of the cartridge elements. The clean air flows through the center of the elements into the air plenum and discharges through the outlet. During cleaning of the elements, a solid-state timer energizes air valves attached to a compressed air supply manifold. A burst of compressed air is released through the pulse pipes and orifices as a shock wave, which dislodges the dirt from the cartridges. The dislodged dirt falls freely into the hopper below for easy removal.



Standard Options & Accessories

- *Stainless Steel Construction (304/316L)*
- *Alternate Inlet Locations*
- *Explosion Vents*
- *Bag In/Bag Out Doors*
- *Factory Prewiring of Solenoid Valves*
- *Rotary Valves and Transitions*
- *Hose and Drum Cover for 55-gallon Drum*
- *Access Platform and Ladder*
- *High Temperature Options*
- *Fan Packages with Silencers*
- *After-filter Housings*

Specifications

Model	Filter Area	No. of Cartridges	No. of Valves	Compressed Air Requirement SCFM @ 90 PSIG	No. of Inlets	Height	Width	Depth	Hopper Outlet Diameter	Quantity Hoppers	Hopper Angle	Shipping Wt. (Lbs.)
2RC4	1100	4	4	3	1	10' 8"	3' 4"	5' 7/32"	18" x 18"	1	60°	1100
2RC8	2200	8	4	3	1	11' 8"	4' 4 3/16"	7' 5 9/16"	18" x 18"	1	60°	1950
2RC16	4400	16	8	3	2	11' 8"	6' 8 3/16"	7' 5 9/16"	18" x 18"	2	60°	3120
2RC24	6600	24	12	6	3	11' 8"	10' 3/16"	7' 5 9/16"	18" x 18"	3	60°	4290
2RC32	8800	32	16	6	4	11' 8"	13' 4 3/16"	7' 5 9/16"	18" x 18"	4	60°	5460
2RC40	11000	40	20	9	5	11' 8"	16' 8 3/16"	7' 5 9/16"	18" x 18"	5	60°	6600
3RC6	1650	6	6	3	1	12' 2 1/2"	3' 4"	5' 2 7/32"	18" x 18"	1	60°	1280
3RC12	3300	12	6	3	1	13' 2 1/2"	3' 4 3/16"	7' 5 9/16"	18" x 18"	1	60°	2530
3RC24	6600	24	12	6	2	13' 2 1/2"	6' 8 3/16"	7' 5 9/16"	18" x 18"	2	60°	3830
3RC36	9900	36	18	9	3	13' 2 1/2"	10' 3/16"	7' 5 9/16"	18" x 18"	3	60°	5350
3RC48	13200	48	24	12	4	13' 2 1/2"	13' 4 3/16"	7' 5 9/16"	18" x 18"	4	60°	7120
3RC60	16500	60	30	15	5	13' 2 1/2"	16' 8 3/16"	7' 5 9/16"	18" x 18"	5	60°	8970
3RC72	19800	72	36	18	6	13' 2 1/2"	20' 3/16"	7' 5 9/16"	18" x 18"	6	60°	10080
4RC16	4400	16	8	3	1	14' 9"	3' 4 3/16"	7' 5 9/16"	18" x 18"	1	60°	3130
4RC32	8800	32	16	6	2	14' 9"	6' 8 3/16"	7' 5 9/16"	18" x 18"	2	60°	4540
4RC48	13200	48	24	9	3	14' 9"	10' 3/16"	7' 5 9/16"	18" x 18"	3	60°	6380
4RC64	17600	64	32	12	4	14' 9"	13' 4 3/16"	7' 5 9/16"	18" x 18"	4	60°	8290
4RC80	22000	80	40	15	5	14' 9"	16' 8 3/16"	7' 5 9/16"	18" x 18"	5	60°	10315
4RC96	26400	96	48	18	6	14' 9"	20' 3/16"	7' 5 9/16"	18" x 18"	6	60°	12280
4RC112	30800	112	56	21	7	14' 9"	23' 4 3/16"	7' 5 9/16"	18" x 18"	7	60°	14210
4RC128	35200	128	64	24	8	14' 9"	26' 8 3/16"	7' 5 9/16"	18" x 18"	8	60°	16320

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ENERGY STAR PARTNER

AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

ISO Certified 9001:2000

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