

## Features:

- Top access for easier bag installation and replacement
- Explosion and fire suppression systems are included so unit doesn't need to be located near an outside building wall
- Unlike a pulse jet filter the RACF doesn't send a compressed air shock wave back through ductwork
- Expert installation support and system application
- engineering available.

## Industries:

Textiles, paper, tobacco, wood, plastics, agricultural & rubber dust applications.

## Available Services:

- System Integration
- Industrial Ventilation
- Material Handling
- Power & Controls
- Manufacturing

## Product Description:

ATMOS360'S Reverse Air Cleaned Filter (RACF) is the key offline component in a dust control system designed to remove dust from tissue, towel, diaper, feminine hygiene, or other fibrous manufacturing processes.

## Features and Benefits:

**Media Cleaning** - The RACF uses a small fan to reverse air clean the media rather than using compressed air during a cleaning cycle. Cleaning air is delivered to a rotor placed in the clean air plenum which isolates one (1) partitioned bag zone, while allowing the remaining air to be exhausted by the main dust control fan. The rotor rotates 360 degrees with cleaning based on time or on demand.

**Fines Removal** - The RACF releases fines from the media via the media cleaning fan. As fines are drawn down into the hoppers, they are removed by pneumatically actuated on/off gates, duct work, and fines removal fan. The lower gates are in sequence with the media clean rotor to maximize effectiveness for fines removal.

**Explosion Suppression/Venting** - The RACF uses an active sodium bicarbonate explosion suppression system, a passive flameless explosion quenching system; which does not require outside wall/roof penetration for explosive venting.

**Electrical Controls Package** - The RACF electrical controls package includes the hardware, controls, and programming for the overall system unlike most conventional filter manufacturers.

### Process Safety Elements

Fire protection sprinklers & alarm  
Explosion suppression system  
Grounding

### Electrical & Controls Package

Fire protection alarming  
Explosion suppression system  
Electrical & pneumatic panels  
Fines transport fan (20 hp)  
Main system fan (150 hp)

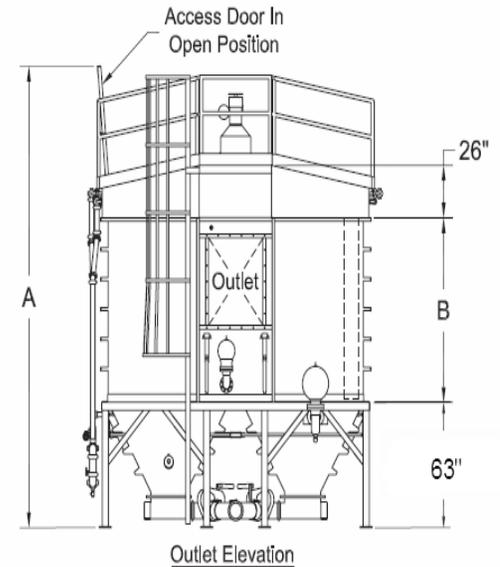
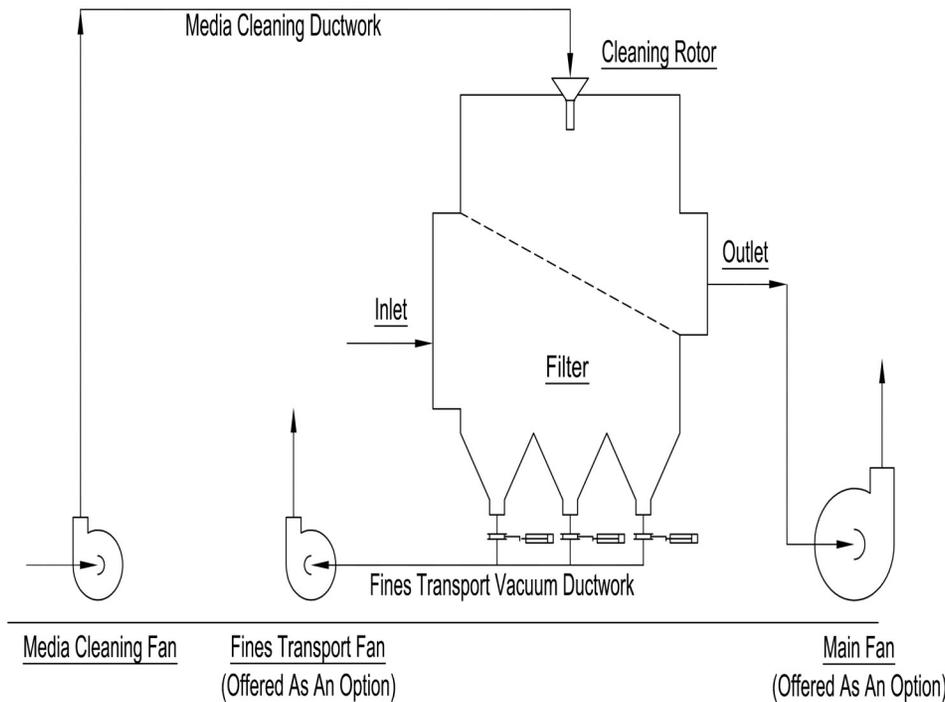
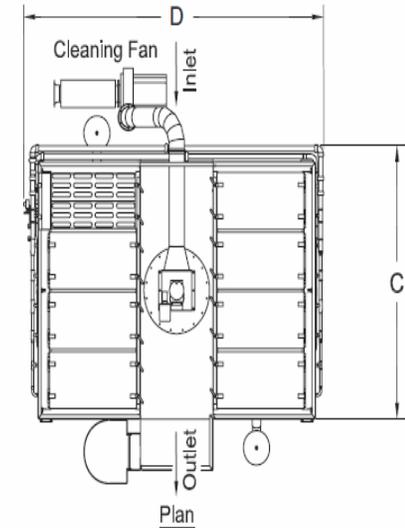


## *REVERSED AIR CLEANING FILTER (RACF)*

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## Reversed Air Cleaned Filter (RACF) Models

MODEL	MAX AIR SYSTEM VOLUME	MEDIA AREA	BAG QTY	BAG LENGTH	A	B	C	D
	(cfm)	(ft <sup>2</sup> )		(inches)	(ALL DIMENSIONS LISTED IN INCHES)			
RACF-2375-192-2-60	22,014	2,043	192	60	200	58	147	200
RACF-3800-192-2-96	35,225	3,269	192	96	234	93	147	212
RACF-4750-192-2-120	44,136	4,086	192	120	258	117	147	212
RACF-5100-240-2-120	55,794	5,107	240	120	258	117	160	212



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