



# *OptiAir*<sup>TM</sup>

The Next Generation in Air Intake Design



AIR

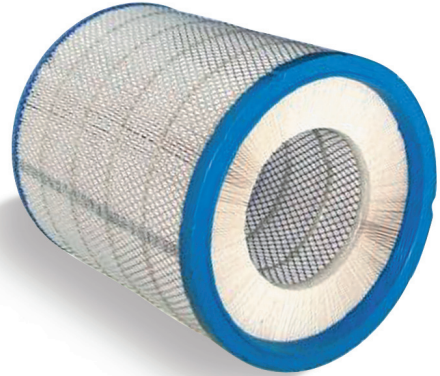


# REAL™ Innovation.

## Innovative Design Meets All OEM Requirements

Cummins Filtration's patented OptiAir™ technology addresses key design requirements of all equipment manufacturers while outperforming conventional radial seal designs:

- Reduction in system size to fit shrinking engine compartments
- Longer filter life to extend service intervals
- Two-stage air housing design to extend filter life
- Lower system restriction to deliver maximum engine performance
- Reduced service time to lower maintenance costs



## A Complete Line Of Air Intake Systems

covering requirements up to 1100 CFM (31.15 m³/min)

Rotatable 90-degree Outlet available in 4 sizes, 400 to 800 Series



Straight Outlet available in 7 sizes, 400 to 1300 Series



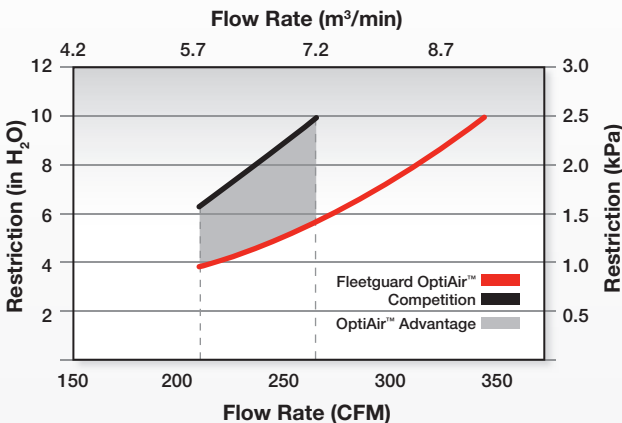
## OptiAir™ Delivers Longer Filter Life, Less Restriction... All in a Smaller Package

In laboratory tests, OptiAir™ significantly outperforms competitive air systems by maintaining greater than 99.9% efficiency over the filter life per ISO5011 while providing the following:

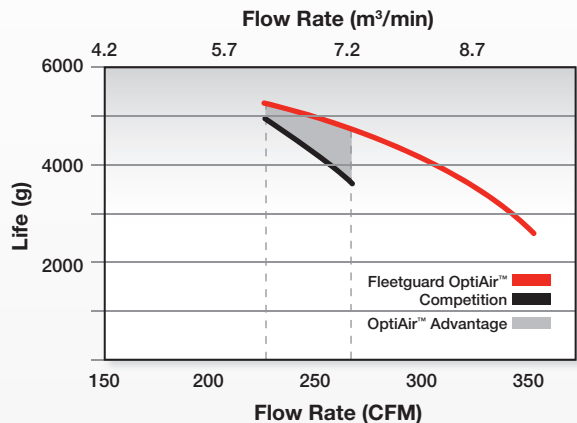
- Up to 50% longer filter life
- Up to 65% less initial restriction
- Broader CFM range per application

## 800 Series vs 8" Competition

### Initial Restriction



### Filter Life



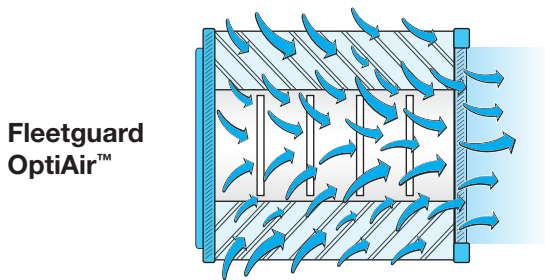


# REAL™ Performance.

## OptiAir™ Outperforms Conventional Radial Seal Designs In Delivering Higher Flows, Lower Restriction & Longer Filter Life

### ■ Up to 30% More Effective Media Area

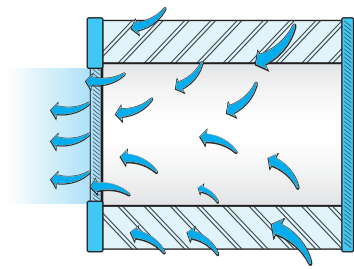
By optimizing the pleat spacing and pleat depth of the filter element, the effective media area is increased over conventional radial seal designs. The increased effective media area traps more contaminants resulting in greater capacity and longer filter life.



Fleetguard OptiAir™

### ■ Up to 60% More Outlet Area

By increasing the filter outlet area, OptiAir™ elements can handle higher flow rates with lower initial restriction. Higher flow and lower restriction means the filter can do the work of other filters in a smaller overall package size.



Conventional Radial Seal

## The Fleetguard OptiAir™ Advantage

### ■ Two-Stage Design

Integral precleaning removes up to 80% of particles before reaching the filter

### ■ Outlet Options

Systems available in both straight and 90° designs – 90° design can be rotated full 360°



### ■ Pressure Tap

Easy-to-install filter restriction gauge option

### ■ Highly Durable, Rust Free Resin Construction

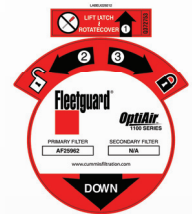
360° flexible mounting with plastic or metal options

### ■ Integrated Secondary Element

Added engine protection

### ■ Quick Reference

Service Label  
Replacement filter information



### ■ Mono Latch Twist Lock™ Cover with Multi Locking Positions

Installation flexibility, easy to service, reduced maintenance time

### ■ Dust Ejection Valve

Removal of large particulates and moisture

### ■ Increased Outlet Area

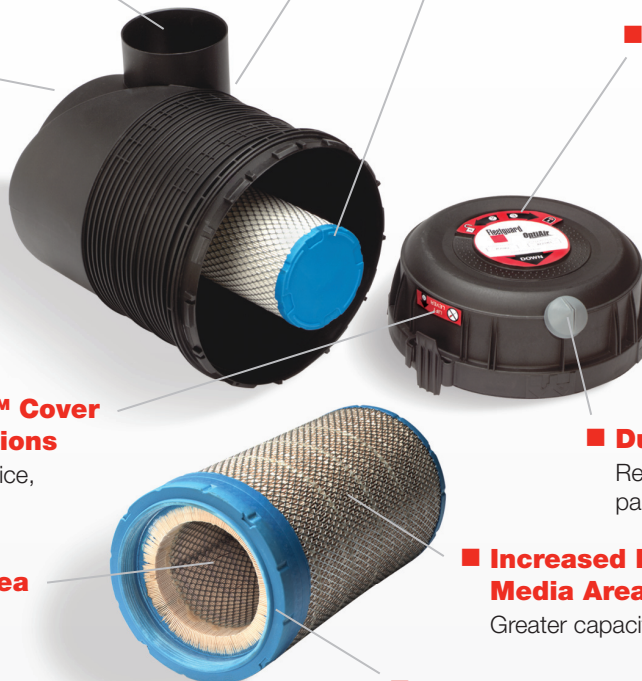
Increased area resulting in reduced restriction

### ■ Increased Effective Media Area

Greater capacity, longer filter life

### ■ Highly Resilient Urethane Seal

Excellent sealing capability



To gain maximum filter performance, Cummins Filtration recommends using a restriction indicator to determine the optimum service interval.

# REAL™ Solution.

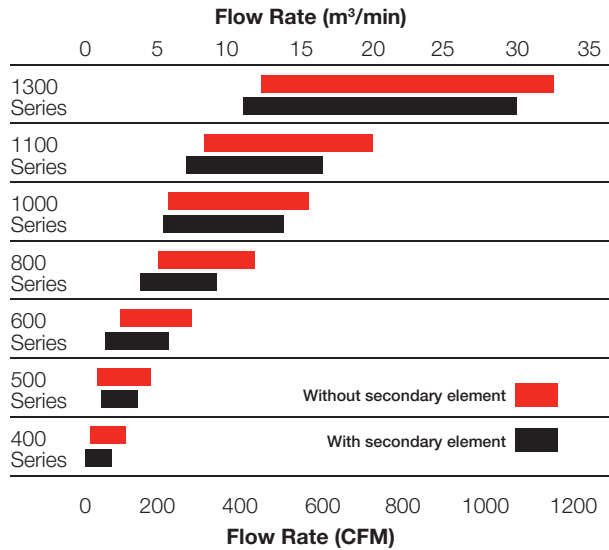
For today's first-fit engine needs and requirements



## Fleetguard OptiAir™ Technology covers a Complete Range of Applications

- A complete line of systems from the 400 Series to the 1300 Series covering air flow requirements up to 1100 CFM (31.15 m<sup>3</sup>/min.). All seven systems are available with or without secondary elements.
- 400–800 Series are available in either straight or rotatable 90-degree outlet configurations. 1000, 1100, and 1300 Series feature straight outlets.
- A complete line of air systems to cover both on and off-highway applications utilizing the patented OptiAir™ technology.

## OptiAir™ Flow Rates



## OptiAir™ Systems

Part Number	Series*	Includes Secondary Element	Straight Outlet	90-degree Outlet
AH19474	400		■	
AH19496	400	■	■	
AH19485	400			■
AH19484	400	■		■
AH19483	500		■	
AH19482	500	■	■	
AH19487	500			■
AH19486	500	■		■
AH19476	600		■	
AH19477	600	■	■	
AH19489	600			■
AH19488	600	■		■

Part Number	Series*	Includes Secondary Element	Straight Outlet	90-degree Outlet
AH19474	800		■	
AH19496	800	■	■	
AH19485	800			■
AH19484	800	■		■
AH19483	1000		■	
AH19482	1000	■	■	
AH19487	1100			■
AH19486	1100	■		■
AH19476	1300		■	
AH19477	1300	■	■	

\* Series designation is comparable to system size (Example: 400 Series = 4-inch air housing)



For more information, visit [cumminsfiltration.com](http://cumminsfiltration.com)

3.301.027A  
©2007 Cummins Filtration  
Printed in Australia