



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

The Next Generation in Air Intake Design



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# 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 m<sup>3</sup>/min)



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



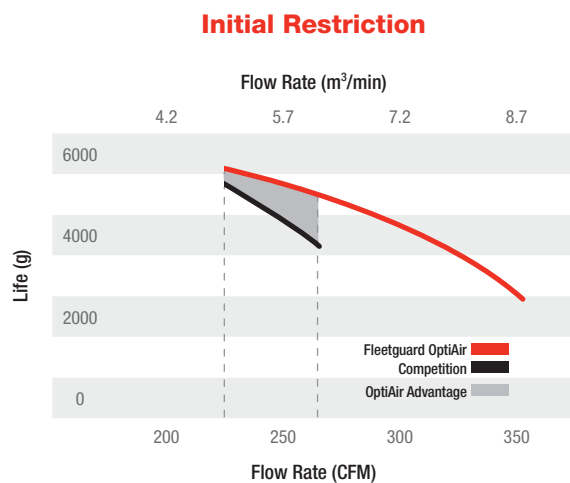
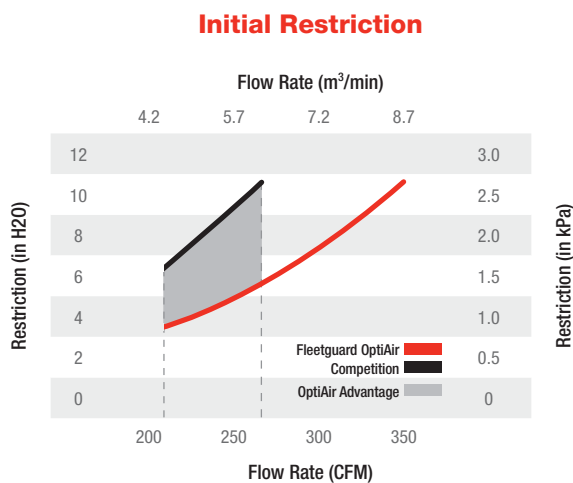
Rotatable 90-degree  
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### OptiAir Delivers Longer Filter Life, Less Restriction...All in a Smaller Package

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

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

#### 800 Series vs 8" Competition



# Performance

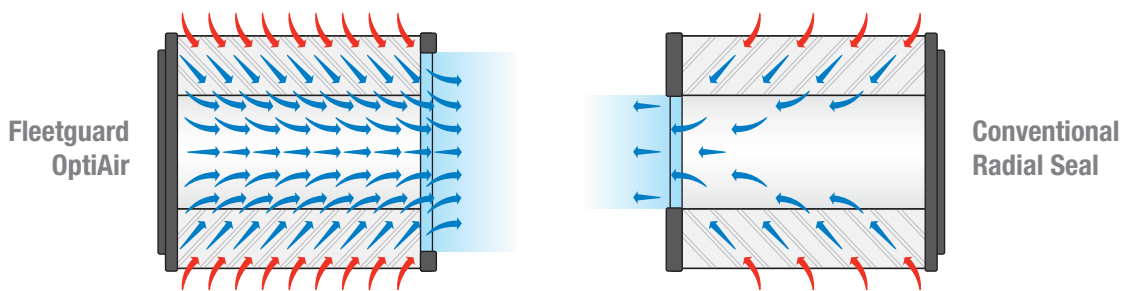
## OptiAir Outperforms Conventional Radial Seal Designs

### 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.

### 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.



### The Fleetguard OptiAir Advantage

#### Pressure Tap

Easy-to-install filter restriction gauge option

#### 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°

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

Installation flexibility, easy to service, reduced maintenance time

#### Increased Outlet Area

Increased area resulting in reduced restriction

#### 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

#### Dust Ejection Valve

Removal of large particulates and moisture

#### 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.



# Versatility

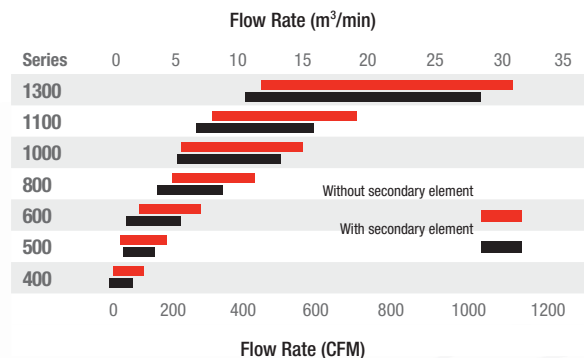
Meets today's first-fit engine needs and requirements



## 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 #	Housing with TBAP sensor	Series*	Secondary Element	Straight Outlet	90° Outlet
AH19474		400		■	
AH19496		400	■	■	
AH19485		400			■
AH19484		400	■		■
AH19483		500		■	
AH19482		500	■	■	
AH19487		500			■
AH19486		500	■		■
AH19476	AK165	600		■	
AH19477	AK166	600	■	■	
AH19489	AK167	600			■

Part #	Housing with TBAP sensor	Series*	Secondary Element	Straight Outlet	90° Outlet
AH19488	AK168	600	■		■
AH19261	AK169	800		■	
AH19260	AK170	800	■	■	
AH19491	AK171	800			■
AH19490	AK172	800	■		■
AH19478	AK173	1000		■	
AH19479	AK174	1000	■	■	
AH19333	AK175	1100		■	
AH19334	AK176	1100	■	■	
AH19480		1300		■	
AH19481		1300	■	■	

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



[cumminsfiltration.com](http://cumminsfiltration.com)

For technical details, refer to the **Fleetguard Technical Information Catalog** or visit **Fleetschool**.  
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**Nothing Guards Like Fleetguard.**