



The Next Generation in Air Intake Design



REALTM 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







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.

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

Fleetguard

OptiAir

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,

Increased Outlet Area

Increased area resulting

in reduced restriction

reduced maintenance time

- 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



 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.

Pressure Tap
 Fasy-to-install filte

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 m³/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

Corico*	Includes Secondary	Straight	90-degree
Series	Element	Outlet	Outlet
400			
400			
400			
400			
500			
500			
500			
500			
600			
600			
600			
600			
	400 400 500 500 500 500 600 600 600	Secondary Element 400 400 400 400 500 500 500 500 500 600 600	Secondary ElementStraight Outlet400Image: Constraint of the secondary A00Image: Constraint of the secondary A00400Image: Constraint of the secondary A00Image: Constraint of the secondary A00400Image: Constraint of the secondary A00Image: Constraint of the secondary A00500Image: Constraint of the secondary A00Image: Constraint of the secondary A00500Image: Constraint of the secondary A00Image: Constraint of the secondary500Image: Constraint of the secondaryImage: Constraint of the secondary500Image: Constraint of the secondaryImage: Constraint of the secondary500Image: Constraint of the secondaryImage: Constraint of the secondary600Image: Constraint of the secondaryImage: Constraint of the secondary600Image: Constraint of the secondaryImage: Constraint of the secondary

Part Number	Series*	Includes Secondary Element	Straight Outlet	90-degree Outlet
AH19261	800			
AH19260	800			
AH19491	800			
AH19490	800			
AH19478	1000			
AH19479	1000			
AH19333	1100			
AH19334	1100			
AH19480	1300			
AH19481	1300			

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



For more information, visit cumminsfiltration.com

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