



# Direct Flow™

Air Filtration Solutions:  
Performance and Versatility for a Changing World

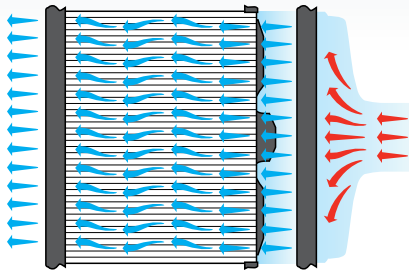
AIR





# Advanced Technology

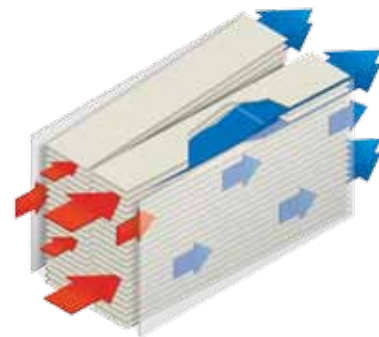
## Design & Performance for Today's Engines



Designed to address space constraints associated with packaging engines that meet globally tighter emissions standards, Fleetguard Direct Flow air filtration technology provides optimum protection with improved air management and greater installation flexibility. The creative design utilizes a straight air flow path allowing filter media to be packaged in a smaller space efficient profile with easier serviceability. Longer service life is available versus typical cylindrical air filter shapes.

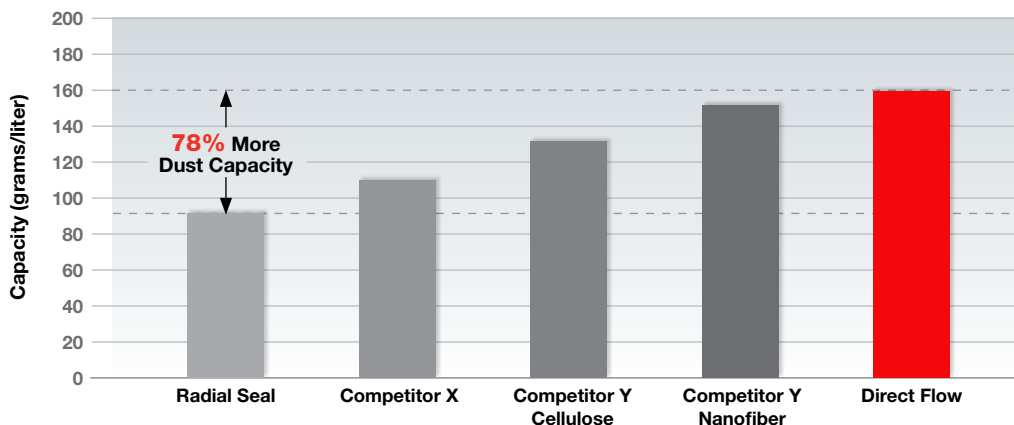
## Improved Performance in a Smaller Package

Direct Flow provides more performance in less space than competitive air system providers. The proven technology employs highly optimized, stiff phenolic media arranged in a rectangular "V-block" configuration to optimize space normally wasted in the inner diameter of a typical cylindrical air filter. The design advantage maximizes filter life and minimizes air flow restriction. This enables the right balance between application packaging demands and filtration performance requirements.



Direct Flow meets Medium and Heavy Duty dust specification requirements and has been lab tested to meet OEM, SAE, ISO, ASTM and JIS test standards. Direct Flow has proven handling capabilities for large debris and snow that causes premature plugging of the pre-cleaner and filter. Cummins Filtration has completed over 150,000 hours of field test experience across a wide array of applications and severe environments, including log skidders, tree shakers and rock drills.

## Filter Element Offers Greater Dust Holding Capacity



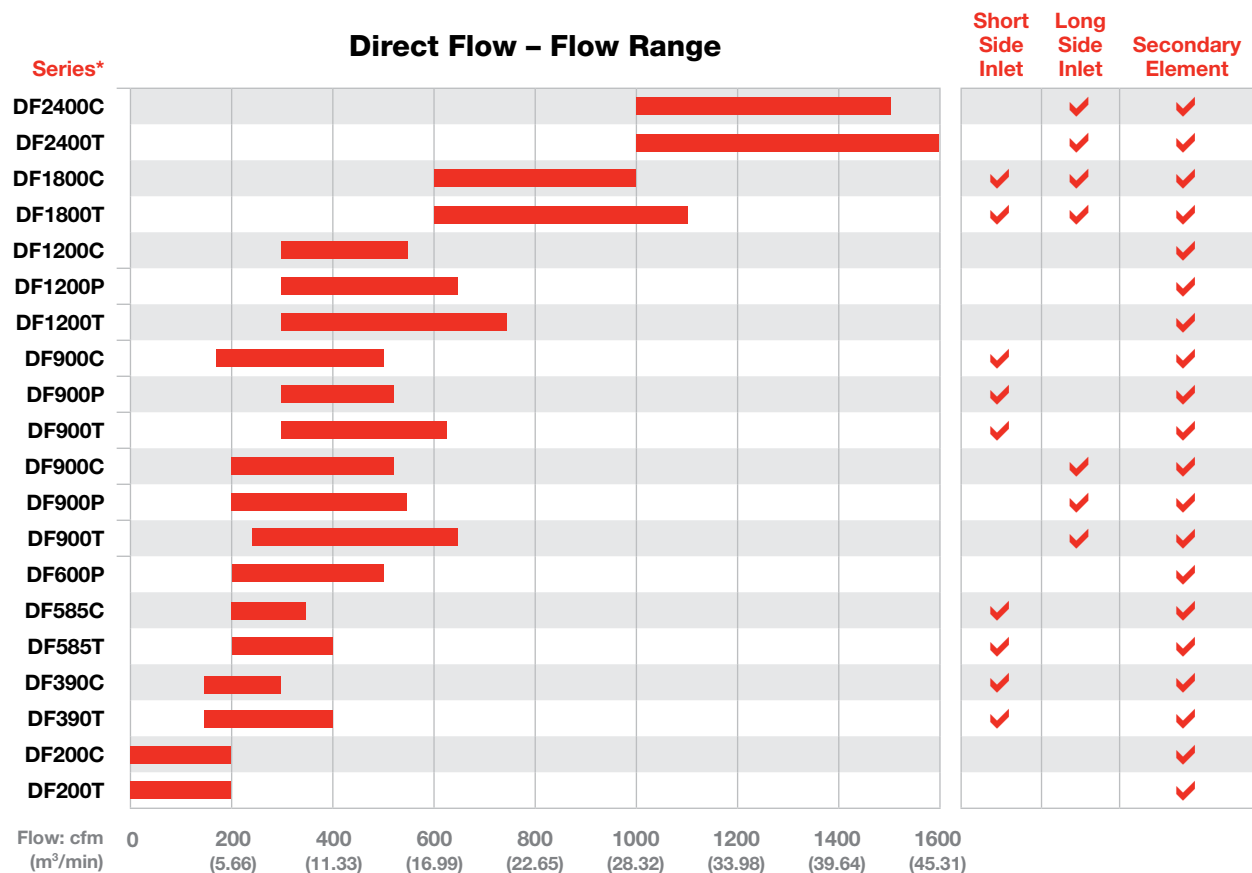
**Greater dust capacity per filter volume = easier air filter integration and lower maintenance cost**



## For a Wide Range of Applications

Direct Flow provides design flexibility for applications in low and high dust environments. With flow ranges from 100 - 1600 CFM (2.8 - 45.31 m<sup>3</sup>/min), it is available in both composite and composite/metal hybrid designs in a wide range of configurations:

- Direct through- or side-entry air flow
- Optional precleaner
- Optional ducting transitions for both the inlet and/or outlet
- Optional secondary filter
- Aspiration to improve precleaner efficiency
- DF200 Series thru DF900 Series are composite designs
- DF1200 Series thru DF2400 Series are composite/metal hybrid designs



\*C = Combo (Transition + Precleaner); P = Precleaner; T = Transition

2-12" H<sub>2</sub>O



# Integrated Value

## Integrated Features for Improved System Diagnostics

The Direct Flow air system works to improve engine performance with unique features that enable users to quickly evaluate operating conditions related to air flow. An optional integrated restriction gauge helps users to maximize filter life, reduce filter changes and lower overall maintenance costs. Integrated ports allow for easy installation of Temperature Barometric Atmospheric Pressure (TBAP) or Mass Air Flow (MAF) sensors into the housing. The Direct Flow configuration was specifically designed to enhance the performance of these sensors.



**Optional Outlet Transition Adaptor** provides easy installation to ducting

**Injection Molded Composite Construction** provides a durable rust-free, and flexible design

**Side and Front Entry Air Flow** are standard options

**Integrated Dust Ejector Valve (DEV)** removes large particles and moisture

**Integrated Mounting Feet** for simple installation

DF900P Shown

**Integrated Restriction Gauge Port** with optional easy-to-install gauge

**Optional Precleaner** removes up to 95% of dust before reaching the filter (with aspiration)

**Optional Secondary Filter** for added engine protection

**V-block Rectangular Construction** provides greater packaging flexibility



**Quick Reference Label** with convenient application of filter service information and private branding available

For more detailed information on Fleetguard Direct Flow, please refer to the **Fleetguard Technical Information Catalog – LT32599** or visit **Fleetschool** at [cumminsfiltration.com](http://cumminsfiltration.com).

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