



Engine Intake Systems

for Light, Medium & Heavy Dust Conditions

Air Cleaners • Pre-cleaners & Inlet Hoods • Rubber Adapters/Elbows • Filter Indicators • Mounting Bands



No matter what the dust conditions or engine airflow requirements, you will find a Donaldson air cleaner or intake system accessory that will deliver clean air when your engine needs it most!

Distributed by:

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Our innovative products are solving complex filtration challenges that improve people's lives, enhance engine and equipment performance and protect our environment.

Donaldson has the technical expertise, superior customer support and vast network of locations around the world to meet your toughest filtration needs – from initial system design through replacement products.



Improve



Enhance



Protect

This publication contains a wide selection of standard, stocked air cleaner models for both original equipment manufacturers and replacement parts for existing diesel-powered vehicles and equipment that operate in light to heavy dust conditions. For a variation or a custom designed intake system, please call your current supplier of Donaldson products.

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Donaldson Air Filtration Technologies help OEMs meet Global Emissions Regulations

The emissions solutions introduced to meet diesel engine emissions regulations have resulted in numerous vehicle design changes for original equipment manufacturers. Changes that we have seen include engine compartment size reductions and lower system weight requirements.

For engine manufacturers, regulators now recognize that engine blow-by gas emitted from the crankcase is a major emissions source and require that the vent be closed or filtered with high efficiency filtration.

Donaldson has been providing OEMs with custom and standard filtration solutions that meet their specifications to be emissions compliant: **PowerCore® G2 Filtration Technology** and **Spiracle™ Crankcase Filtration Systems**.

Our History of Filtration Innovation

1910s

- First-ever air cleaner invented by Frank Donaldson



1930s

- First closed crankcase ventilation system (pollution control device) invented for cars
- Patent issued for oil-washed air cleaner



1950s

- Innovative dry-type air cleaner and filter
- First Donaldson exhaust manufacturing facility opened



1960s

- Introduced mufflers with integrated ejectors



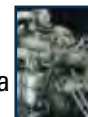
1970s

- Mobile hydraulic low pressure filters manufactured
- SealClamp™ band-style exhaust clamp
- Developed Self Cleaning Air Filter (SCAF)



1980s

- Donaldson pioneered Ultra-Web® Nanofiber Filtration Technology
- Revolutionary Duramax® mid-pressure hydraulic spin-on
- Synteq™ filter media developed for lube and hydraulic
- Produced engine liquid filters
- Innovative RadialSeal™ sealing technology
- Pleatloc™ media spacing invented
- Mufflers designed to meet U.S. EPA truck noise regulations
- Active DPF system for transit bus verified
- Fuel filter production began in South Africa



Our PowerCore G2 Filtration Technology is a perfect fit for the new space limitations, offering higher capacity and improved efficiency in a much smaller footprint. The geometric flexibility of PowerCore air intake systems gives OEM engineers the freedom to design unique configurations to fit tight spots.



Our Spiracle™ Crankcase Filtration Systems for CCV or OCV systems reduce or eliminate harmful and unwanted crankcase emissions. Our proprietary Synteq™ XP coalescing media technology offers high efficiency filtration with low operating pressure drop.



Three standard models (small, small extended and mid-sized) are available for engine blow-by flow ranges up to 300 lpm / 10.6 cfm and with blow-by mass flow rates up to 15 gms/hr

Donaldson was established in 1915. The timeline below displays the innovations introduced into the market place. The blue text items are related to air filtration.

1990s

- Ultra-Web® Nanofiber Filtration Technology first used in engine filtration products
- Donaldson PowerCore® Filtration Technology developed
- Engine liquid filter and mobile hydraulics production expanded globally
- Donaldson Endurance™ extended service filters introduced
- Pulse Jet Air Cleaner (PJAC®) applied on M1 Abrams tank
- Donaldson pioneers the design of the integrated catalytic converter muffler
- Silent Partner™ first muffler to effectively reduce engine brake noise



2000 and Beyond

- Ground-breaking PowerCore® G2 Filtration Technology introduced
- Spiracle™ crankcase filtration introduced to eliminate emissions from open crankcase vents
- Synteq™ XP filter media launched in next generation Duramax® and Spiracle™ crankcase filtration system
- Synteq™ fuel filter media first and second generations
- Emissions compliant lube and fuel technologies
- T.R.A.P.™ filtration technology for hydraulic reservoirs
- First to verify patented tailpipe and crankcase solutions with CARB and EPA
- DPF cleaning system and DMF muffler launched for the emissions retrofit market
- Introduced PJAC® Ultra



Intake System Choices for New & Retrofit

... newer air cleaner designs offer improved features and filtration performance. The products on the next two pages are recent additions to our product offering.



New XRB Housings: left XRB12; middle XRB10; and right XRB08.

XRB Air Cleaners

The XRB family is ideal for light- to medium-duty diesel engine trucks, agriculture, construction, mining and industrial engine applications. The XRB air cleaner is smaller, lighter and easier to install and it effectively reduces contaminants, providing a high level of engine protection. Available in three diameter sizes.



FKB Housings and Filters: top center, FKB06; bottom left, FKB05; and bottom right, FKB04

For smaller sizes, check out the FKB air cleaner family.



PSD08, PSD09, PSD10 and PSD12 housings

PSD PowerCore® Air Cleaners

Air cleaners with PowerCore filtration technology offer maximum design flexibility. You gain equal performance in significantly less space, freedom to design unique configurations to fit tight spots, and overall design simplicity. See the PowerCore air cleaner section for all the details.



The smallest of our PSD family, this D080056 Side Service model is designed for in airflow ranges of 180-245 cfm, see PowerCore section for more details.

How about Dust Dumpa + a PowerCore® Air Cleaner?

Air cleaners with PowerCore filtration technology offer maximum design flexibility. You gain equal performance in significantly less space, freedom to design unique configurations to fit tight spots, and overall design simplicity. See the PowerCore air cleaner section for all the details.



The addition of Dust Dumpa tube extensions to this double PSD air cleaner application provided extended filter life on this Australian geothermal drill rig.



Adapters for scavenge line

New adapters for the PSD Vacuator™ Valves for scavenge system. Scavenge system advantages include: higher pre-cleaner efficiency; completely self-servicing; and drop tube can be located in a variety of orientations (see pg 18 for more information).



Adapters for PSD scavenger systems.

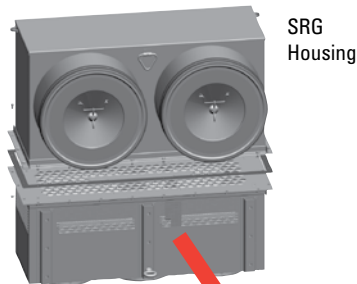


SSG Style - Our Largest Engine Air Cleaner

The SSG Air Cleaner offers design improvements over our older SRG air cleaner style - including filters with radial seal sealing technology, and a filter access cover with a quick release cover latches and a chain.



No more bolt to unscrew for a filter change - simply unlatch the cover and let it hang from the housing during service.



Upgrade to newer filtration technology...with our Conversion Kit

Replacing an older SRG housing with the new SSG housing allows you to simplify your routine filter service – no more separate gaskets at each filter change or removing a bolted on cover. SSG filters have radial seal end caps that provide a more reliable, consistent seal.

Choose from a upper assembly conversion kit or you may want to install a complete new housing if your current SRG assembly needs repair or is reaching the end of it's useful life.



Conversion kit includes all you need to replace the upper unit of an old air cleaner, including the filters.

Go Twice the Distance with Donaldson Endurance™ Air Filters

... with Donaldson Ultra-Web® Nanofiber Filtration Technology

Donaldson Endurance™ air filters, made using Donaldson's advanced Ultra-Web® nanofiber technology, deliver cost saving benefits:

- Longer filter life with submicron contaminant
- Ideal for extended maintenance intervals
- Longer engine life



Finding a Donaldson Endurance air filter in this catalog

Part numbers starting with EAF are Donaldson Endurance Air Filters. EAF part numbers, if available for an air cleaner model, are listed in the service parts listing.

ES = Extended Service
HE = High Efficiency
SM=Scheduled Maintenance

A150138	ERA	
bolt.....		P119463
cover		P544238
filter, primary - SM		P544301
filter, primary - ES & HE.....	EAF5150	
gasket, cover		P535559
mounting band, black.....		P016845
nut, plastic.....		P119325
retaining ring.....		P129469
Vacuator Valve		P149099

Don't forget intake accessories

... engine air accessories are designed to solve your customer's specific problems - such as excessive moisture or noise - or to simply help them maintain their systems



- Inlet Hoods - protect air intake from large debris
- Pre-cleaners - extend air filter life and boost system efficiency
- Filter Gauges and Indicators - maximize filter life and reduce maintenance costs
- Rubber Elbows and Connectors - minimize air intake flow resistance, reduce noise levels in severe operating condition
- Vacuator™ Valves - automatically dispel dust and water from the air cleaner
- Stack Caps - protects the exhaust stack from water and debris



New & Improved Pre-cleaners

A pre-cleaner will extend the life of your air filter and reduce overall operating costs and should be considered for your applications that operate in medium to heavy dust conditions.

The **Donaldson TopSpin™** pre-cleaner has been redesigned. Compared to the original TopSpin (clear cover) models, the design is now more robust!

The TopSpin cover is heavy-duty, solid black polypropylene – a stronger material that can withstand greater vibration. The internal blade mechanism bearings are now protected to extend bearing life. The operating range for the four models cover a wide airflow range of 50 to 1500 cfm / 2.5-42 m³/min.

Coming
Soon!



Strata® Cap

The pre-cleaner/rain cap installs over a 5.0" /127mm or 8.0" 203mm O.D. metal intake tube and connects to a 2.0"/51mm scavenge hose.



Dust Dumpa

Dust Dumpa for SRG/SSG Style Air Cleaners

SRG and SSG air cleaners operate in extreme dust conditions (mining, construction and quarrying). In some cases, the dust is so concentrated that maintenance personnel have to empty the dust cups or check the Vacuator™ Valves more frequently than they like.

Both Dust Dumpa kits incorporate rubber connections that improve dust evacuation from the housing during normal vehicle vibration. The clear tube allows you to easily see what's happening during daily inspections without climbing up to open or check out the Vacuator Valve.



Dust Dumpa tube extensions ship fully assembled. Left: Part No. X006561 and Part No. X006562 on right.

Check Out Your Regional Site at www.donaldson.com

No matter what region of the world you are in, Donaldson has a regional site for your area featuring the filtration solutions available in your area.

Each site features replacement parts and has it's own unique look and structure.

If you're looking for the most current information on our air cleaner product offering featured in this catalog, visit www.donaldson.com/aircleaners to view individual documents on each air cleaner family.

- Regional sites include:
- Americas
 - Europe
 - Middle East
 - S. Africa
 - Korea
 - Japan
 - China
 - S.E. Asia
 - Australia.



We invite you to see our America's redesigned web site. The site highlights filtration solutions for all industries. Go to www.donaldson-filters.com.

Air Cleaner Materials, Finishes & Construction

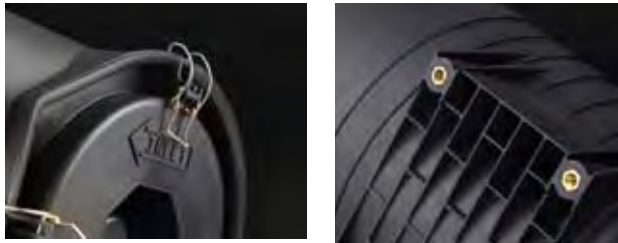
...Donaldson air cleaners are all designed for long life, rust resistance and good looks!



Injection and Blow-Molded Air Cleaners

Our non-metal finish is always black plastic and can be found on our DuraLites, PowerCore (PSD) and other radial seal air cleaners (FPG, XRB, FKB). Advantages include:

- Lighter weight than metal air cleaners
- Corrosion and chemical resistant
- Impact, mar and vibration resistant



Buff Prime Finish

This finish is applied to our large SRG, SSG & STG air cleaners as a base coat. Because these huge air cleaners are mounted to the outside of heavy equipment, this finish is primed and ready for you to apply paint to match the overall look of your equipment. (Exception: SRG to SSG conversion kit upper unit is white.)



Polymer Coating Resists Corrosion

Donaldson's gloss, black finish – on most of our metal air cleaners (ERA, FVG, FRG)– is resistant to chemicals and corrosion. Advantages include:

- Corrosion and chemical resistance. This polymer coating lasts 5 to 10 times longer than traditional paint.
- Impact and mar resistance. Polymer coating is up to 17 times harder than most solvent-based paint.
- Consistent thickness coating over the entire air cleaner, even in crevices and small, hard-to-reach places.



Filter Features

...Donaldson brand performance air filters give you consistent performance over the life of your engine.

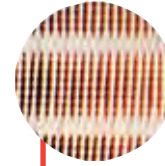
Radial seal filter seals

Radial seal filters slip easily on and off the outlet tube during installation and service. This design eliminated the separate gaskets used with metal end-cap filters.

Axial filter seals

Strong, pliable gasket ensures a leak-free seal when properly installed. The gasket won't harden or deteriorate over the useful life of the filter.

Pleatloc™ media spacing



Ensures uniform pleat spacing, keeps filter media from bunching during operation and promotes longer filter service life.



Filter end caps

Designed to protect the filter media and provide structural integrity.

Beading

Applied to both inner and outer liners, beading is designed to stabilize the media and prevent pleat tip wear.

Heavy-duty liners

Corrosion resistant, coated steel liners support the filter media during operation and maximizes airflow.

Radial seal filter seals

Our radial seal technology on PowerCore filters provides a tight critical seal on unique filter shapes.

Non-metal construction

Weighs less and with less disposal impact.



PowerCore Filtration Technology

To read more about the PowerCore advantages, check out page 13.

Five Steps to Proper Air Cleaner Selection

With the multitude of sizes and styles of air cleaners available from Donaldson, how do you choose the proper model that will reliably protect your engine protection and deliver maximum filter service life?

1. Determine the combustion air requirements of the engine. Airflow requirements are typically reported in cfm (cubic feet per minute) or m³/min (cubic meters per minute). This requirement is a specification of the engine and available from your engine manufacturer. In the air cleaner selection process, the requirement is used in conjunction with the recommended air inlet restriction limits (typically expressed inches of H₂O).

2. Determine the type of machine and its use or the environment in which it will operate. For example, a standby hospital generator set would probably see light dust, whereas a rock crusher would almost always be surrounded by an extremely heavy dust concentration of large dirt particles. Our new air cleaner selection chart (on left and on page 3) is a visual guide to select your vehicle type and operating environment.

3. Select an air cleaner series.

You will have multiple choices, including new families not previously available. Key design differences are color coded in our selection chart (on left) include PowerCore® filtration technology, Axial Seal, Radial Seal and Disposable.

Series / Families
PowerCore® Series
Light Dust - E Series
Medium Dust - F Series
Heavy Dust - S Series

Application notes, dimensional, locations of the inlet and outlet, and mounting configurations are appropriately considered at this step. These parameters are sometimes critical and may lead you to an alternative model or series that is better suited to your application.

4. Choose a specific air cleaner model from this catalog according to the cfm your engine needs. Refer to the Initial Airflow Restriction table for the style you're considering. If there are two air cleaner models that fit your parameters, choose the one with the lowest restriction to ensure maximum service life from that air cleaner/filter.

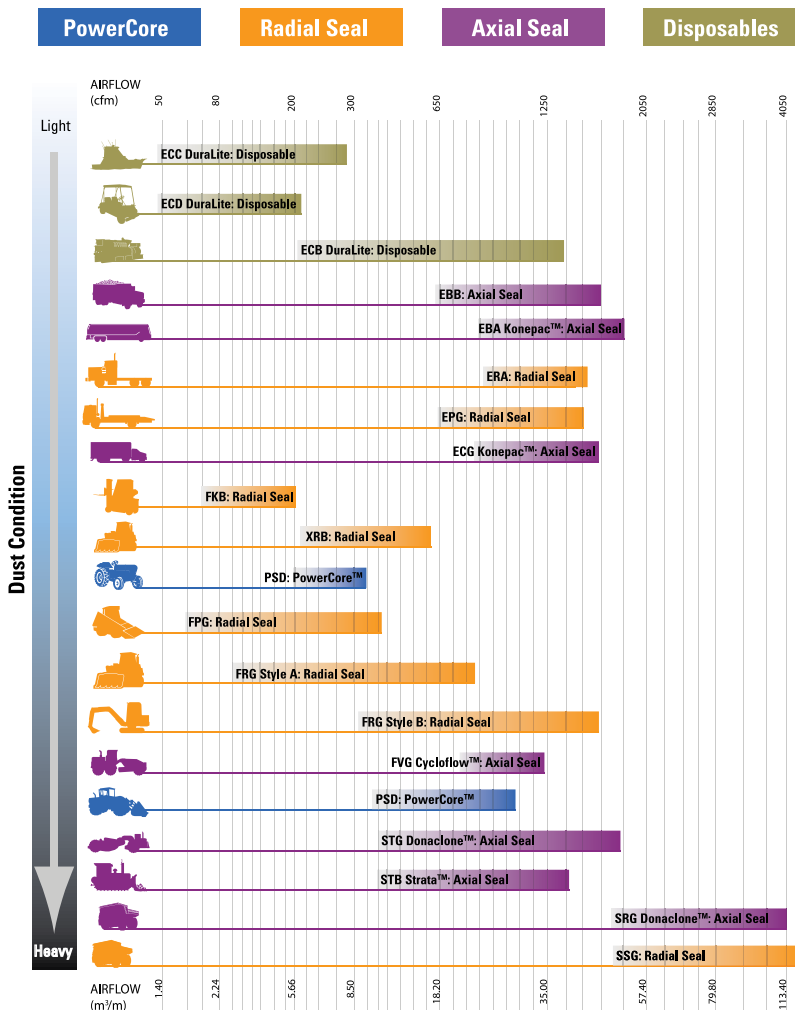
5. Choose intake accessories.

Even though they're called accessories, things like inlet hoods, mounting bands, rubber connectors, and clamps are important part of the overall intake system. See our detailed accessories section for more information.



Donaldson recommends that you conduct a thorough validation and performance test BEFORE final production or release of the unit into mass production.

For a variation on an air cleaner model you find in this catalog, and you have a need for more than 100 pieces per year, please call your supplier of Donaldson products for a quote.



Calculating Engine Airflow

The calculations on the right are provided as a reference and may be helpful as you validate and specify housings and components.

For the most accurate engine airflow specifications, Donaldson recommends using the CFM intake airflow rate specified by the engine manufacturer.

Looking for Engine Airflow Guide?



See Reference Section of this catalog.



Airflow guide should only be used as a reference document, for proper air cleaner application, look to your engine supplier for the most accurate and current information.

Engine Airflow Calculations

CFM intake rate is available from the engine manufacturer. If CFM specifications are not available, use the volumetric efficiency calculation. A simple calculation for cfm is to multiple the horsepower of your engine by 2.5.

4-Cycle Engine Airflow Calculation

$$\left(\frac{\text{Engine Size (CID)} \times \text{RPM}}{3456} \right) \times \text{Volumetric Efficiency} = \text{Intake Airflow (CFM)}$$

2-Cycle Engine Airflow Calculation

$$\left(\frac{\text{Engine Size (CID)} \times \text{RPM}}{1728} \right) \times \text{Volumetric Efficiency} = \text{Intake Airflow (CFM)}$$

Volumetric Efficiency

Engine volumetric efficiency ratings are best obtained from your engine manufacturer. Engines operating with electronic controls could have volumetric efficiency ratings of more than 2.0. Airflow on these engines should be verified by the engine manufacturer.

4 Cycle GAS Engine	Naturally Aspirated	=	.70 - .80
2 and 4 Cycle DIESEL Engine	Naturally Aspirated	=	.90
	Turbo*	=	1.50 - 3.00*

* If VE rating is not available, Donaldson recommends using the highest value to insure proper airflow.

High Pulsation, Naturally Aspirated Engine* Applications

The intake airflow to the air cleaner can negatively affect the cubic displacement of the air into the engine.

To compensate for the loss, we recommend you multiply the engine airflow by one of the following factors:

The Pulsation Factor (PF)

- 2.1 for 1 cyl.
- 1.5 for 2 cyl.
- 1.2 for 3 cyl.
- 1.0 for 4 or more cyl.

* No airflow adjustment is required for Donaldson air cleaners with high pulsation filter media (i.e., Donaldson DuraLite ECB, ECC, ECD air cleaners) or turbo-charged engines.

Air Cleaner Selection by Flow Direction

Donaldson has air cleaner housings that work in a variety of dust conditions and air flow patterns (A - D, and G). For improved filtration reliability and quicker filter service compared to older axial seal style air cleaners, Donaldson recommends installing either PowerCore air cleaners or radial seal style air cleaners whenever possible.

NEW B, D and G Airflows Models

Flow Direction Legend

A = Air in the End, Out the Side

B = Air in the Side, Out the End

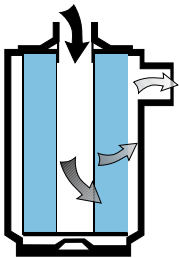
C = Air in the End, Out the Same End

D = Air in the End, Out the Opposite End

G = Air in the Side, Out the End

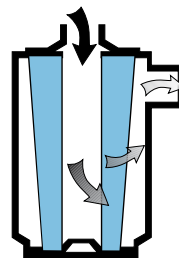
A Airflow

Air in the End, Out the Side



Light Dust - ERA

Classic cylindrical design, black finish, cowl-mounted for vertical installation. Airflows to 1350 cfm.
Page 37



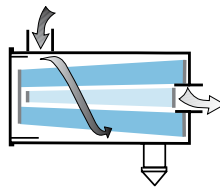
Light Dust - EBA Konepac™

Same housing as original EBA but with cone shaped filter (Konepac), can be mounted either horizontally or vertically. Airflows to 1850 cfm.
Page 40

Radial Seal Style upgrade path: ERA or PSD

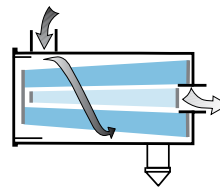
B Airflow

Air in the Side, Out the End



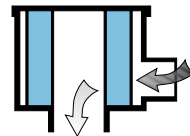
Medium Dust - XRB

The radial seal, plastic, two-stage air cleaner with side inlet for horizontal installation. Body diameters in 8", 10" and 12". Handles airflows of 265-630 cfm. Mount under hood or behind cab.
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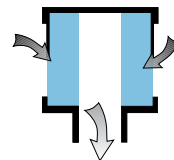
Light and Medium Dust - FKB

A compact housing high dust holding capacity, and comparable airflow to FPG. Two-stage filtration, side inlet, horizontal installation. Body diameters in 4", 5" and 6". Mount under hood or behind cab. Handles airflows from 70- 207 cfm.
Page 48



Light Dust - EBB

A small housing with higher dust holding capacity, and comparable airflow. Side inlet, horizontal installation. Airflows to 1640 cfm.
Page 46

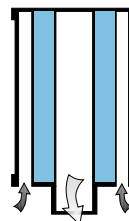


Light Dust - ECB

Disposable, small, lightweight and unitized (housing and filter in one). For 2-3 cylinder, high-vibration engines. Can be vertically or horizontally mounted. Airflows to 2118 cfm.
Page 26

C Airflow

Air in the End, Out the Same End

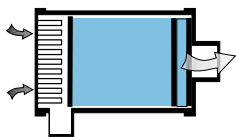


Light Dust - ECC

Disposable, small, lightweight and unitized (housing and filter in one). For small 2-3 cylinder, high-vibration engines. Can be vertically or horizontally mounted. Airflows to 760 cfm.
Page 26

D Airflow

Air in the End, Out the Opposite End

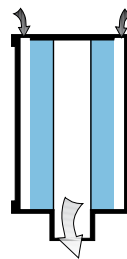


NEW

Light to Medium Dust - PSD

Has PowerCore™ Filtration Technology. Smaller, compact with built-in mounting brackets. Can be vertically or horizontally mounted. Airflows to 915 cfm.

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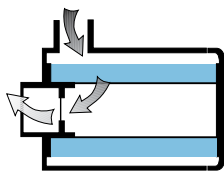
Light Dust - ECD

Disposable, small, lightweight and unitized (housing and filter in one). For small 2-3 cylinder, high-vibration engines. Can be vertically or horizontally mounted. Airflows to 185 cfm.

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G Airflow

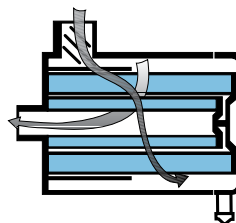
Air in the Side, Out the End



Light Dust - EPG

Single stage filtration. Smaller than ECG and lightweight, sturdy, and totally plastic. Horizontal installation. Airflows to 1325 cfm.

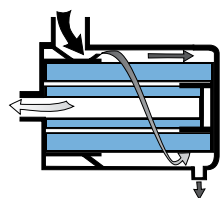
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Medium Dust - FVG

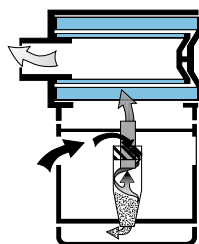
A heavy-duty housing, our FVG has high airflow throughput and safety filter. Adds a vane in the inlet for a more aggressive first stage of cleaning. Horizontal mounting required. Airflows of 690 to 1200 cfm.

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Medium Dust - FPG

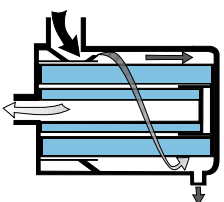
The first fully plastic air cleaner in our two-stage filtration line. Tangential inlet, with or without safety element, body diameters from 4" to 8". Handles airflows of 55 to 346 cfm. Can be mounted horizontal, vertical or at an angle. Page 59



Heavy (Severe) Dust - STG

The efficient "T" design of the STG allows high airflow and strong two-stage filtration. Two styles available - one with a peripheral inlet and another with a tubular inlet. Handles airflows from 390 to 1760 cfm. Can be mounted vertically or horizontally.

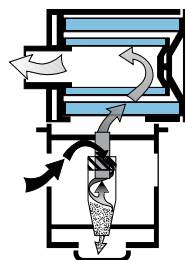
Page 84



Medium to Heavy Dust - FRG

This two stage filtration housing is available in body diameters of 5" to 18". This style is the ideal upgrade from our older FWA, FWG, FHG and FTG housings. Horizontal mount required. Style A handles airflows up to 795 cfm and our new Style B handles airflows up to 1600 cfm.

Page 66

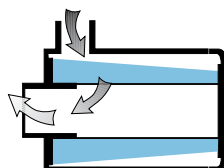


NEW

Heavy (Severe) Dust -SSG

These new models are replacing our older SRG models. Donaldson's largest two-stage engine air cleaner, designed for the engines on large equipment. Handles airflows of 1700 to 4800 cfm. The best protection for 500 to 2000 horsepower diesel engines. This new model uses radial seal sealing technology for filter retention.

Page 78



Light Dust - ECG Konepac™

Second generation Konepac with a cone-shaped filter has a long and narrow housing. Designed for horizontal installation; usually mounted under hood or behind cab. Airflows to 1600 cfm.

Page 43

Radial Seal Style upgrade path: EPG or PSD

PowerCore® Technology

The next generation!



PowerCore™ G2
A Donaldson Filtration Technology

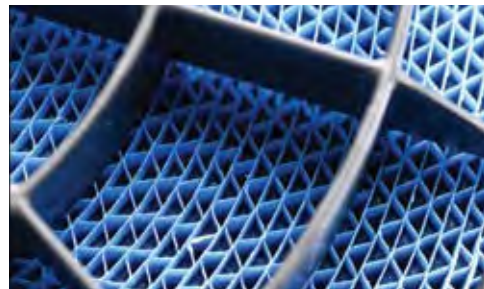
Innovative vehicle designs call for new engineering solutions plus know-how from your suppliers. We have both – and are ready to help you solve your space or configuration problems.



Donaldson PowerCore® G2 Big Performance, Small Footprint

Heavy-duty truck and off-road equipment manufacturers demand compact, high-performance air filtration solutions and Donaldson continues to deliver. Donaldson PowerCore G2, the next generation of Donaldson PowerCore filtration technology, is designed with a 30 percent smaller footprint with the same straight-through airflow and high-density filtration system as the "original" PowerCore - hence Big Performance, Small Footprint.

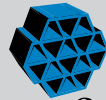
PowerCore G2 can provide a matrix of performance advantages, including smaller size, lower pressure drop and longer filter life or a combination of the three depending on customer under-hood space and performance requirements.



PowerCore® G2 features include:

- Industry-proven technology based on over 10 years of "original" PowerCore manufacturing experience and over 5 million units found in medium- and heavy-duty engine applications
- Panel, round and obround shaped air intake systems that can be customized to meet a wide spectrum of performance, size, shape and space constraints
- Utilization of Donaldson's Ultra-Web® Nanofiber Filtration technology, a proven filter media with over 25 years in heavy-duty industrial air filtration applications and more than 1 billion square feet of media sold
- Environmentally friendly with its compact, metal-free, cartridge-style design that traps contaminants inside the structure
- Long life and higher initial efficiency for superior diesel engine protection

More information on
Donaldson PowerCore® G2 can be found at
<http://www.donaldson.com/en/engine/news/059751.html>



PowerCore® Filtration Technology Delivers Improved Filtration Performance

Greater Efficiency

The straight-through fluted design of PowerCore Filtration Technology is three times more efficient than average conventional pleated filters

Engine Protection

No media movement, expansion, contraction or bunching, with less dust and dirt passed on to the engine

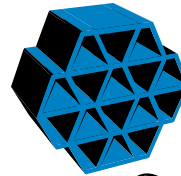
Contaminant Encapsulation

Dust and dirt won't dislodge during servicing

Design Differentiation

The design of the U.S. and internationally patented housings, filters and filter media are key to Donaldson PowerCore Filtration Technology (additional patents pending).

Donaldson has been manufacturing air cleaners with PowerCore Filtration Technology since 1999. There are millions of filters installed on various types of equipment throughout the world.

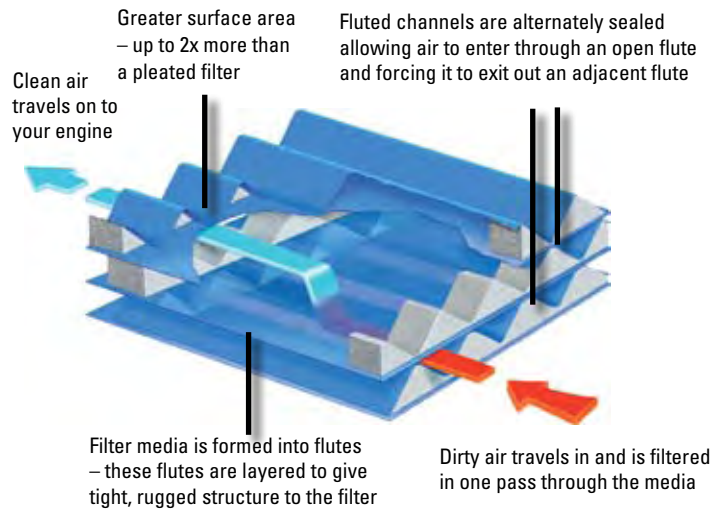


PowerCore
A DONALDSON FILTRATION TECHNOLOGY

Section Index

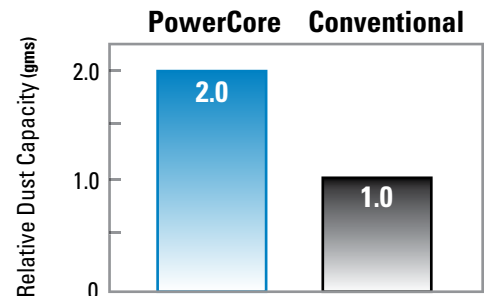
PSD Models.....16
Ford 7.3L Retrofit Kit 23

PowerCore Filtration Technology



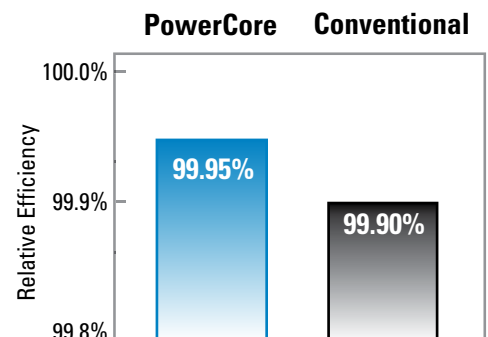
Dust Holding Capacity

Gain over 100% more dust-holding capacity in a given volume.



Overall Efficiency

Improved filtration efficiency.



Millions of PowerCore® Filters Installed on Original Equipment! Three times more efficient than average conventional pleated paper filters

This new air cleaner family offers two-stage filtration in a single, compact unit that delivers superior filtration performance using our PowerCore® Filtration Technology.

This non-metal air cleaner (except for cover clamps) is ideal for equipment operating in medium to heavy dust environments.

When you request PowerCore Filtration Technology, you will gain...

Equal or better performance in a small package – the freedom to design unique configurations to fit tight spots and overall design simplicity.

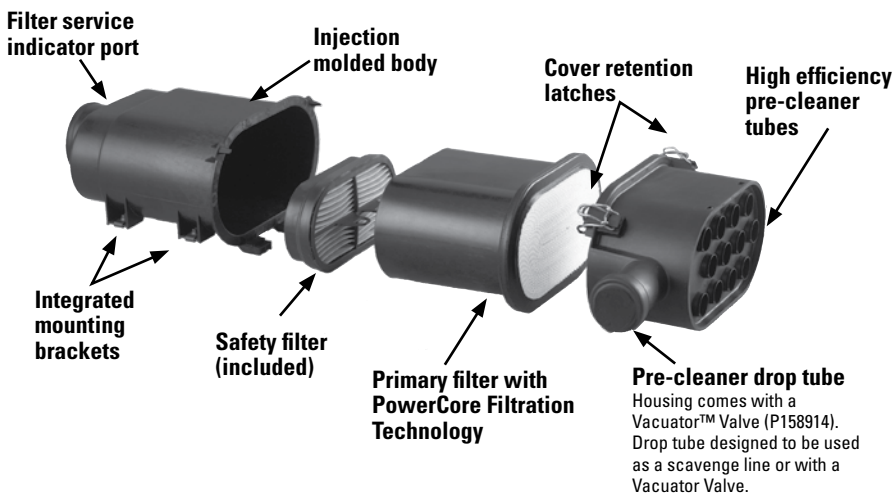
Donaldson reliability - backed by nearly a century of innovation and experience. Donaldson supplies air filtration products to almost every vehicle manufacturer.

Lower shipping and inventory costs – PowerCore filters are lighter and take up less shelf space.

Donaldson PowerCore® products are protected internationally by patents, trademarks, and design registrations, both issued and pending.

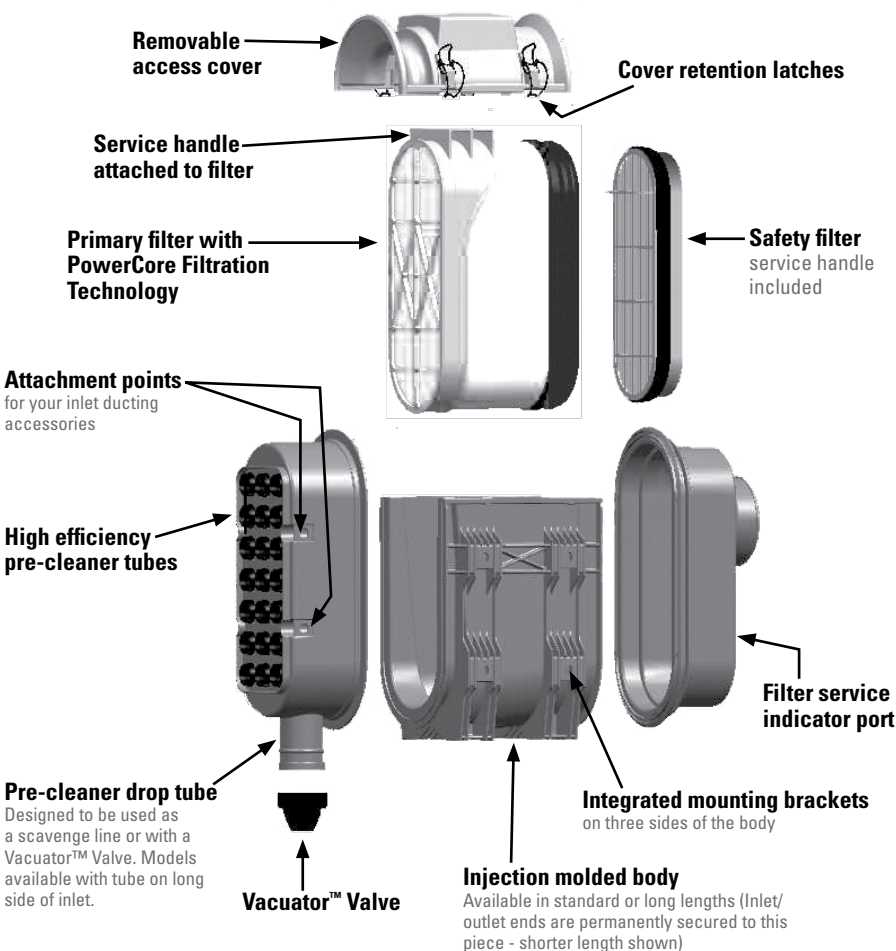
Service Access on Inlet End - PSD08

Exploded view is of D080020. For tube on long side of inlet end (opposite clamps), consider D080026.



Service Access on Side - PSD08, PSD09, PSD10 and PSD12

Exploded view is of D090019 model. For tube on long side of inlet end, consider D090020 or D090022.



Excellent Performance in Half the Space

Applications

- Off-road equipment operating in medium to heavy dust conditions with engine airflow ranges up to 915 cfm
- Obround housing shape allows for a narrow or wide mounting orientation. Models have either end or side filter service access
- Sustained temperature tolerance: -40° to 180°F / -40° to 82°C

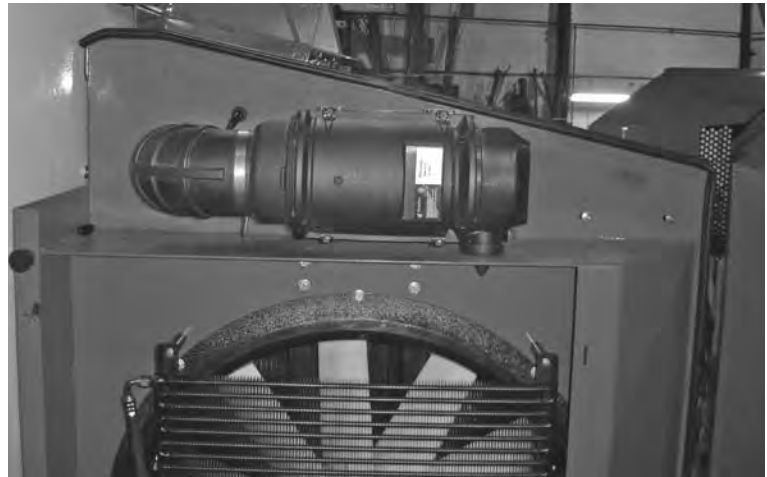
Features

- More compact at a given performance level than standard pleated filters
- Non-metal filters - both primary and safety (where applicable)
- Improved engine protection: no media movement, expansion, contraction or bunching
- Improved contaminant encapsulation: dust and dirt stay contained in filter during service
- Improved filtration efficiency:
 - Three times more efficient than the average conventional pleated filter
 - PowerCore® Filtration Technology with high efficiency pre-cleaner tubes improve engine protection
- Improved handling and maintenance: lighter and smaller, changing filters is a snap



The filter on the side service access models can be easily removed with the built-in grab handle.

- Easily serviced with clamp-on cover design
- Can be used with scavenge line or Vacuator™ Valve depending on housing orientation
- Built in mounting brackets eliminate the need to purchase separate mounting bands



A PSD10 mounted horizontally was the equipment manufacturer's choice on this diesel-powered (285 HP @ 2,000 RPM) feller buncher.



D080020 - Horizontal



D080056 - Vertical

Mounting Flexibility

With mounting brackets on three sides of the housing (exception D080020 & D080026) and two separate drop tube orientations the PSD series offers the greatest amount of flexibility for a wide variety of installations.



D090020 - Horizontal



D090019 - Vertical



D100072 - Horizontal



D100029 - Vertical

Four u-clips are shipped with each air cleaner. Affix these to the mounting location (all in the same direction) and slide the housing into place. See dimensional illustration for u-clip mounting hole pattern.



When spec'ing an Air Cleaner . . .

Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

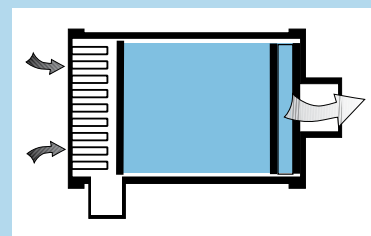
Initial Airflow Restriction

6"	CFM @ "H ₂ O		Air Cleaner Model
	8"	10"	
MODELS WITH SERVICE ACCESS ON END			
176	206	232	D080020
176	206	232	D080026
180	216	245	D080056

MODELS WITH SERVICE ACCESS ON SIDE			
267	315	357	D090019
267	315	357	D090020
267	315	357	D090021
267	315	357	D090022
267	315	357	D090055
500	580	652	D100029
500	580	652	D100030
500	580	652	D100072
532	622	700	D100031
532	622	700	D100032
532	622	700	D100068

Airflow Pattern "D"

Air in the end, out opposite end



6"	CFM @ "H ₂ O		Air Cleaner Model
	8"	10"	
700	810	915	D120035
700	810	915	D120036
700	810	915	D120037
700	810	915	D120038

To Scavenge or Not Scavenge...

PSD air cleaners are designed to operate with or without aspiration, otherwise known as scavenging. Scavenging is accomplished by introducing a secondary airflow to the drop tube on the air cleaner (generally through the use of an ejector or ejector muffler). This flow pulls the separated contaminant from the pre-cleaner and inserts it into the exhaust stream.

The advantages to scavenging are:

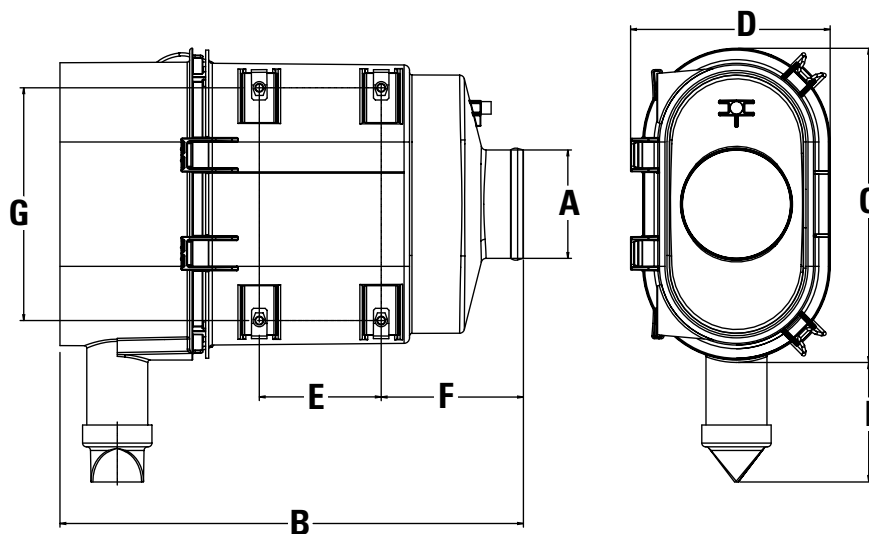
- Higher pre-cleaner efficiency (resulting in longer filter service life)
- Completely self-servicing (no regular maintenance needed on pre-cleaner)
- Drop tube can be located in a variety of orientations (not just straight down as is necessary on non-scavenged systems)

Aspirating an intake system through the use of a scavenging device adds more components (an ejector and some plumbing) to the overall system, but will enhance the separator efficiency of the pre-cleaner and consequently extend the filter service life.

Conversely, the PSD air cleaner and pre-cleaner will function adequately without scavenge, with the result being less filter service life than with the use of scavenging.

PSD Specification Illustrations

PSD08 Models - Service Access on End (Vertical Model Shown)



Adapters replace the Vacuator Valve on PSD air cleaners to allow for scavenge line. For available, Contact Donaldson for availability.

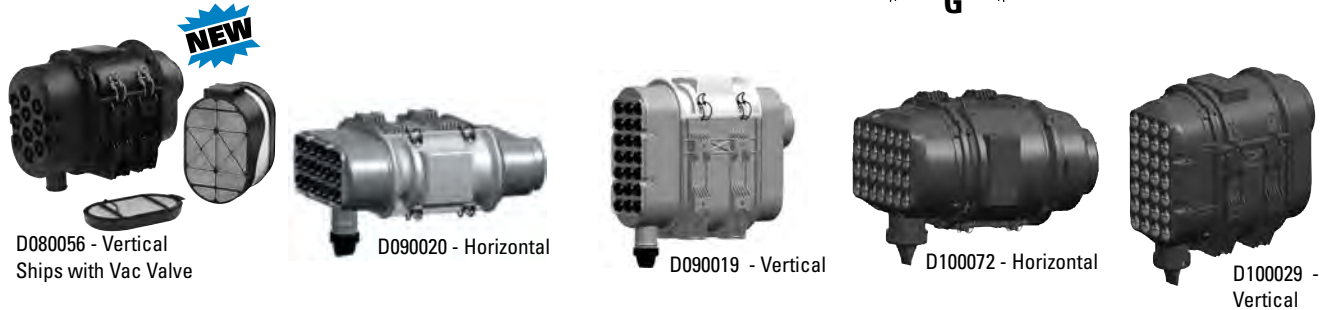
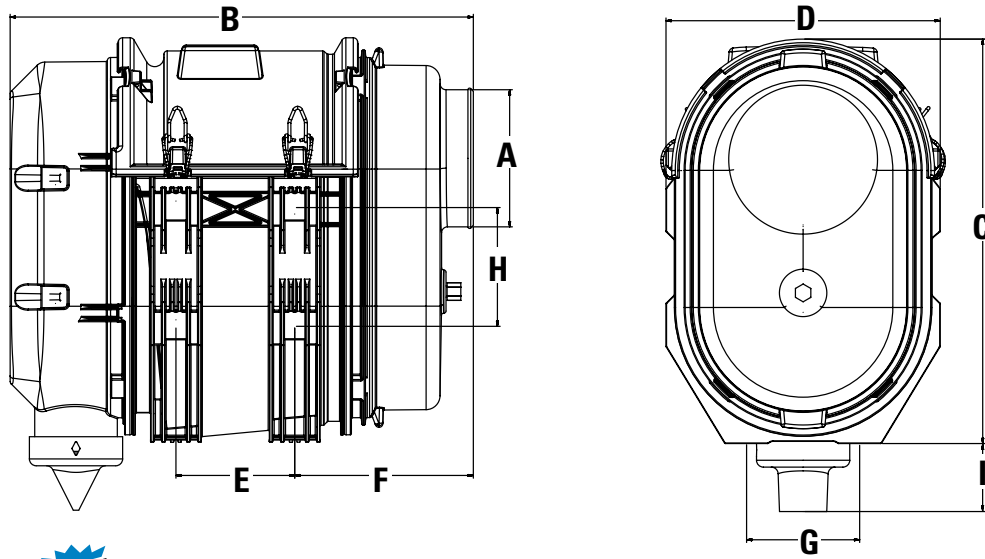


D080020 - Horizontal



D080026 - Vertical

PSD08, PSD09, PSD10, PSD12 Models - Service Access on Side (Vertical Model Shown)



PSD Specifications (Letters are keyed to drawings)

Orientation: H=Horizontal; V=Vertical

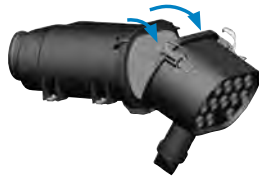
Part No. / Orientation	A		B		C		D		E		F		G		H		I		Weight		
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lbs	
MODELS WITH SERVICE ACCESS ON END																					
D080020	H	89	3.50	380	14.97	256	10.07	154	6.05	100	3.94	117	4.59	191	7.50	---	---	98	3.87	2.2	4.8
D080026	V	89	3.50	380	14.97	256	10.07	154	6.05	100	3.94	117	4.59	191	7.50	---	---	98	3.87	2.2	4.8
MODELS WITH SERVICE ACCESS ON SIDE																					
D080056	V	89	3.50	270	14.55	247	9.70	180	7.09	69	2.72	142	5.60	118	4.65	75	2.95			2.2	4.9
D090019	V	102	4.00	432	17.00	363	14.31	180	7.09	110	4.33	173	6.83	100	3.94	130	5.12	67	2.62	3.7	8.1
D090020	H	102	4.00	432	17.00	363	14.31	180	7.09	110	4.33	173	6.83	100	3.94	130	5.12	83	3.26	3.7	8.1
D090021	V	102	4.00	532	20.96	372	14.66	180	7.09	180	7.09	173	6.83	100	3.94	130	5.12	58	2.27	4.3	9.5
D090022	H	102	4.00	532	20.96	372	14.66	180	7.09	180	7.09	173	6.83	100	3.94	130	5.12	83	3.26	4.3	9.5
D090055	H	102	4.00	432	17.00	363	14.31	180	7.09	110	4.33	173	6.83	100	3.94	130	5.12	68	2.68	5.0	11.0
D100029	V	127	5.00	429	16.90	374	14.74	254	10.01	110	4.33	165	6.50	110	4.33	110	4.33	63	2.48	5.3	11.7
D100030*	H	127	5.00	429	16.90	374	14.74	254	10.01	110	4.33	165	6.50	110	4.33	110	4.33	70	2.76	5.3	11.7
D100031	V	152	6.00	529	20.84	384	15.12	254	10.01	210	8.27	165	6.50	110	4.33	110	4.33	54	2.12	6.1	13.4
D100032*	H	152	6.00	529	20.84	384	15.12	254	10.01	210	8.27	165	6.50	110	4.33	110	4.33	70	2.76	6.1	13.4
D100068	H	152	6.00	529	20.84	384	15.12	254	10.01	210	8.27	165	6.50	110	4.33	110	4.33	70	2.76	6.1	13.4
D100072	H	127	5.00	429	16.90	374	14.74	254	10.01	110	4.33	165	6.50	110	4.33	110	4.33	70	2.76	5.3	11.7
D120035	V	152	6.00	496	19.53	430	16.93	306	12.04	168	6.62	160	6.30	154	6.08	110	4.33	68	2.68	7.0	15.5
D120036	H	152	6.00	496	19.53	430	16.93	306	12.04	168	6.62	160	6.30	154	6.08	110	4.33	68	2.68	7.0	15.5
D120037	V	152	6.00	596	23.46	441	17.36	306	12.04	268	10.56	160	6.30	154	6.08	110	4.33	68	2.68	7.9	17.4
D120038	H	152	6.00	596	23.46	441	17.36	306	12.04	268	10.56	160	6.30	154	6.08	110	4.33	68	2.68	7.9	17.4

* Access cover and outlet tube rotated 180° compared to view shown in the D100072 photo above.

Note: Your air cleaner service cover may be in a different position than shown.

Side Service Access Models
PSD08, PSD09, PSD10
or PSD12 Style

End Service Access Models
PSD08 Style

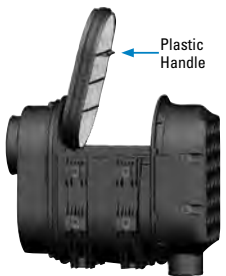


1 Shut off engine. Unlatch and remove the housing service cover.



2 Remove primary filter. Pull the filter out of housing. For side service access models: you must first loosen the filter gasket seal. Using the handle, push down on the filter to loosen the seal, which will tilt the filter to approximately a 5° angle.

Note: Remove any excess dirt and white out the housing before removing the safety (or secondary) filter.



3 Remove safety/secondary filter. Using the plastic handle on the face of the safety filter, pull the filter toward the center of the housing and remove.

Note: A safety/secondary filter only needs to be replaced at every third primary air filter change.



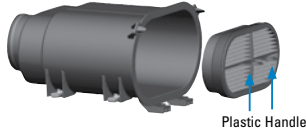
4 Inspect the new filter before installing. Visually check for cuts, tears, or indentations on the sealing surfaces before installation. If any damage is visible, do not install.

Side Service Access Models
PSD08, PSD09, PSD10
or PSD12 Style

End Service Access Models
PSD08 Style



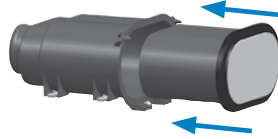
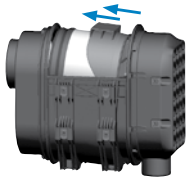
Safety Filter Positioning Tab Location



Plastic Handle

5 If replacing safety/secondary filter, use the plastic handle on the safety filter, slide the filter at an angle into the outlet side and push in place until the filter seats firmly and evenly within the housing.

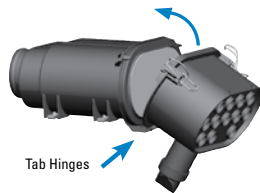
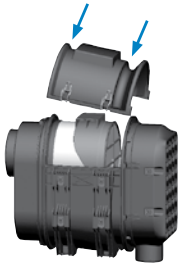
Note: On side service access models, insert the safety filter tab into the positioning slot before pushing the filter in place.



6 Insert the primary filter.

For end service access (PSD08) models, slide the filter into the housing until the gasket seats against the housing.

For side service access models, slide the filter down at approximately a 5° angle until it hits the end of the housing. Rotate the filter toward the outlet section to complete the seal.



Tab Hinges

7 Replace the service cover.

For end service access (PSD08) models, insert the hinge tabs into the housing, tilt the service cover into place and secure latches. For side service access models, place the service cover in position and fasten the latches.

Note: If the cover doesn't seat, remove and re-check the filter position. The cover will be difficult to install if the filter isn't installed correctly.



8 Visually inspect your inlet and outlet connections.

If your air cleaner has a Vacuator Valve, inspect the valve. Replace if any signs of wear or damage are visible.

Service Parts

PSD08

D080020 and D080026

Filter, Primary.....	P608533
Filter, Safety	P600975
Latch.....	P776033
Cover (D080026-Vertical)	P601735
Cover (D080020-Horizontal).....	P602985
Vacuator Valve	P158914

D080056

Filter, Primary.....	P617631
Filter, Safety	P615493
Latch.....	P776033
Cover	P615530
Vacuator Valve	P617632
U-clip (4 clips).....	P784517

PSD09

D090019 and D090020

Filter, Primary	P608665
Filter, Safety	P606121
Latch.....	P777366
Vacuator Valve	P158914
Cover	P609550
U-clip (4 clips).....	P784517

D090021 and D090022

Filter, Primary.....	P608675
Filter, Safety	P606121
Latch.....	P777366
Vacuator Valve	P158914
Cover	P609552
U-clip (4 clips).....	P784517

D090055

Filter, Primary.....	P608665
Filter, Safety	P606121
Latch.....	P784506
Vacuator Valve	P112803
Cover	P785651
U-clip (4 clips).....	P784417

PSD10

D100029, D100030 and D100072

Filter, Primary.....	P608666
Filter, Safety	P601560
Latch.....	P777366
Vacuator Valve	P112803
Cover	P784279
U-clip (4 clips).....	P784517

D100031, D100032 and D100068

Filter, Primary.....	P608676
Filter, Safety	P601560
Latch.....	P777366
Vacuator Valve	P112803
Cover	P784298
U-clip (4 clips).....	P784517

PSD12

D120035 and D120036

Filter, Primary.....	P608667
Filter, Safety	P607557
Latch.....	P777366
Vacuator Valve	P112803
Cover	P608171
U-clip (4 clips).....	P784517

D120037 and D120038

Filter Primary.....	P608677
Filter, Safety	P607557
Latch.....	P777366
Vacuator Valve	P112803
Cover	P608180
U-clip (4 clips).....	P784517

Severe Duty Air Induction System Retrofit Kit

1999*-2003 Ford F250-550 or Excursion with 7.3L Power Stroke® Diesel Engine

* Built after January 1, 1999

Application

1999*-2003 Ford F250-550 or Excursion with 7.3L Power Stroke® Diesel Engine

* Built after January 1, 1999

Features

This retrofit air induction system kit is ideal for truck owners who operate their vehicle in dirty and dusty conditions and want longer filter service life and improved engine protection.

- Three times or more efficient compared to average conventional pleated or reusable wire mesh filters
- Straight-through airflow delivers powerful performance
- Improved engine protection: no media movement, expansion, contraction or bunching
- Improved contaminant encapsulation: during service, the dust and dirt stay contained in the filter
- Installs in 30-45 minutes



Kit X007953 includes the air cleaner assembly, duct, battery tray and blanket, fasteners and installation instructions.

Order Information

Item	Donaldson Part No.	Ford Part No.	Motorcraft Part No.
Air Induction Retrofit Kit	X007953	2U2Z-9K635-AA	FA-1759
Air Filter	P606122	2U2Z-9601-BA	FA-1757

Other Filters for this Ford Vehicle available from Donaldson

Item	Donaldson Part No.	Ford Part No.	Motorcraft Part No.
Fuel Spin-on	P553375	E8TZ-9N184-A	FD-3375, FD-829
Fuel Cartridge	P550437	F81Z-9N184-AA	FD-4596
Lube Spin-on	P550371 P550784	F4TZ-6731-A E3TZ-6731-A	FL-1995 FL-784, FL-784FP

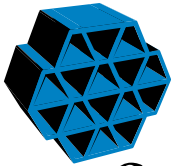
Ford and Power Stroke are registered trademarks of Ford Motor Company.



Complete retrofit installation instructions are included with the X007953 kit (document no. P609001).

Engine Protection in All Conditions

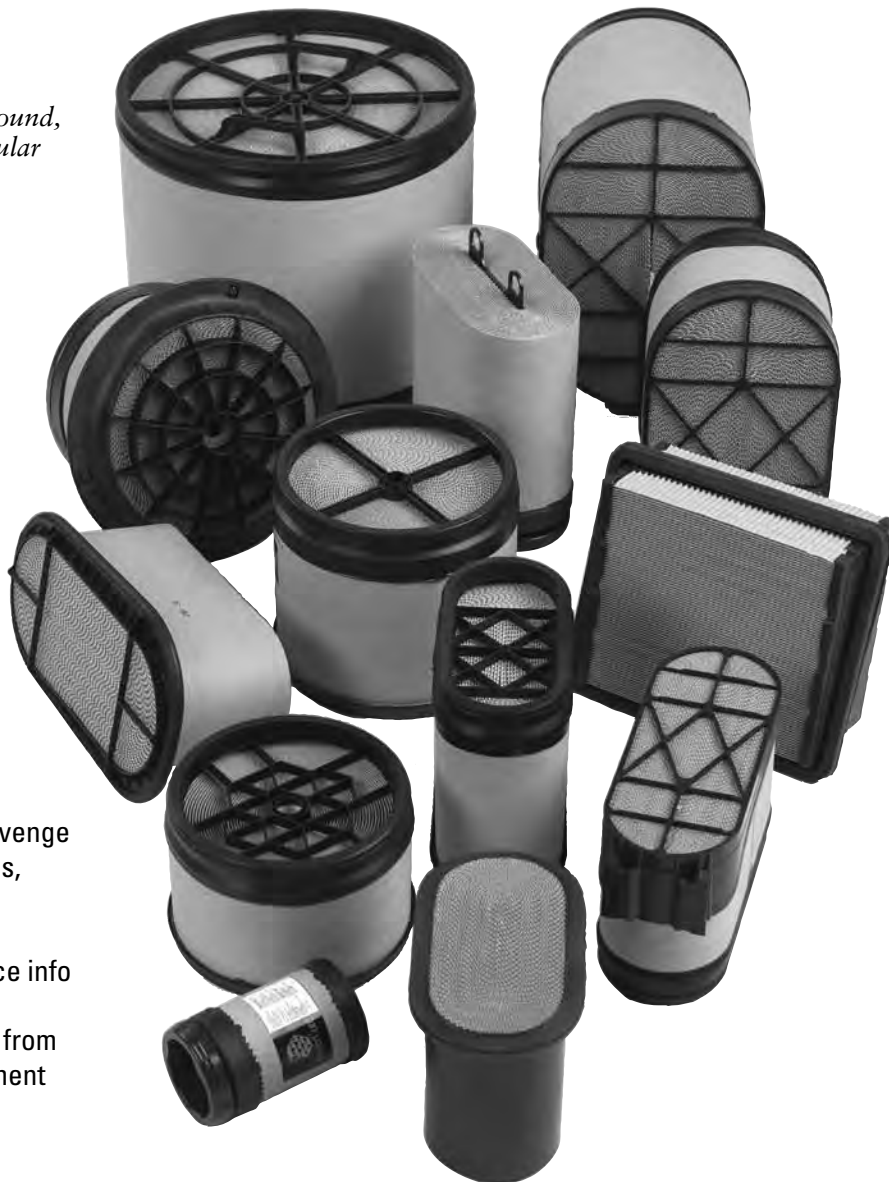
Like Never Before!



PowerCore[®]
A DONALDSON FILTRATION TECHNOLOGY

Innovative vehicle designs call for new engineering solutions plus know-how from your suppliers. We have both – and are ready to help you solve your space or configuration problems.

PowerCore filters in round, obround, and rectangular configurations.



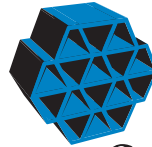
Replace with Scavenge flow story on PSDs,

Move ahead of PowerCore Service info

Need information from Product management

For Diesel, Gasoline & Compressed Natural Gas Engines Operating in Light to Light/Medium Dust Conditions

Over-highway trucks, stationary engines, light industrial vehicles and sport utility/light trucks generally operate in low-dust environments, yet they still need top quality air filtration systems to protect them and keep them running at peak efficiency. And those operating in high carbon environments particularly need protection.



PowerCore[®]
A DONALDSON FILTRATION TECHNOLOGY

If you're looking for a new air cleaner, check out the PowerCore[®] air cleaner section first!

PSD Air Cleaners with PowerCore Filtration Technology offer improved filtration performance compared to our older E-Series air cleaners.

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Convenient DuraLite Disposables

Rugged Air Cleaners for Small and/or High Pulsation Gas & Diesel Engines

Donaldson's DuraLite Air Cleaners are tough, non-metallic, lightweight, self-supporting and completely disposable. They are also easy to install, durable, and reliable.

They are designed to function well under high and severe pulsation conditions found in many applications, especially two- and three-cylinder engines. Vibration-resistant media is potted into molded housings of rugged ABS plastic – so they don't fall apart as other designs might.

Applications

- Can be mounted vertically or horizontally
- Gas and diesel engines in light to medium dust conditions
- Powered vehicles & equipment
- Mobile engines
 - Stepvans
 - Recreational vehicles
 - Lawn & garden tractors
- Stationary engines
 - Air compressors
 - Refrigeration units
 - Material handling equipment pumps
 - Gen sets
 - Welding equipment
- Marine engines
 - Propulsion units
 - Gen sets
- Provides variety of airflow volumes to engine: from 42 to 2118 cfm
- Temperature tolerance:
 - 180°F/83°C continuous
 - 220°F/105°C intermittent



Donaldson recommends the use of a high torque hose clamp (up to 150 lbs.-in) for DuraLite air cleaners. This clamp eliminates the need for double clamping – order one for each DuraLite air cleaner. See page 98 for more information.



DuraLite™ Air Cleaners – sturdy, one-piece, disposable – are designed to withstand the high pulsation of small engines such as the ones shown here. They are easy to maintain because there are no service parts! When the filter is full, simply throw it away.



Air Cleaner Features

- No serviceable parts! Air cleaner housing and filter are one unit!
- Designed to withstand severe intake pulsation
- Economical replacement cost
- Self-supporting, sturdy
- Very reliable: only one critical seal
- Lightweight and compact in size
- Non-metallic (except B085008 which is galvanized steel), non-corrosive... ideal for marine applications
- Completely disposable...acceptable for normal trash pick-up (DuraLite should not be incinerated)
- Easily installed and maintained
- Minimal removal clearance needed: only 1.5"
- Three airflow styles available to fit virtually any engine intake configuration
- Various media available for specific applications: high pulsation, high humidity, etc.

LIGHT DUST

When spec'ing an Air Cleaner . . .

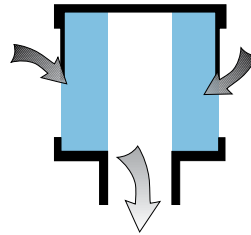
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

ECB DuraLite



Airflow Pattern "B"

Air in the side, out the end

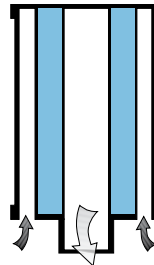


ECC DuraLite



Airflow Pattern "C"

Air in the end, out the same end



ECD DuraLite



Airflow Pattern "D"

Air in the end, out the opposite end



Note: D065008 has inlet holes on both ends of filter

ECB Initial Airflow Restriction

CFM @ "H2O			Air Cleaner Model
4"	6"	8"	
175	250	300	B085008
275	335	390	B085001
275	335	390	B085048
280	400	470	B085011
280	400	470	B085046
380	440	480	B105020
400	580	710	B105002
450	590	680	B105006
700	882	1024	B125011
800	1060	1250	B125005
830	1110	1295	B125003
970	1215	1412	B085056
1060	1305	1500	B120439
1550	1836	2118	B120376

ECC Initial Airflow Restriction

CFM @ "H2O			Air Cleaner Model
4"	6"	8"	
42	55	64	C045001
55	70	82	C045002
64	82	94	C055003
70	90	106	C055002
95	111	140	C065001
108	137	162	C065002
112	145	170	C085001
115	147	190	C065015
115	150	175	C085005
120	150	175	C065003
130	165	188	C085002
135	170	195	C085006
135	170	195	C085043
150	180	215	C085003
170	205	245	C085004
170	205	245	C085041
325	400	480	C105003
352	400	480	C105028
400	500	620	C105004
400	500	620	C105017
485	620	760	C125004

ECD Initial Airflow Restriction

CFM @ "H2O			Air Cleaner Model
4"	6"	8"	
44	56	65	D045003
50	64	75	D045004
78	97	115	D055004
102	127	152	D065003
125	155	185	D065008

ECB DuraLite™ Specifications

Air Cleaner Models	Body Diameter (A)		Outlet Diameter (C)		Length (D)		Outlet Length (F)		Media Type	Weight	
	in	mm	in	mm	in	mm	in	mm		lbs	kg
B085001	8.50	216	3.00	76	11.00	279	1.38	35	A	4.2	1.9
B085008 ¹	8.75	222	3.00	76	8.50	216	1.38	35	A	5.5	2.5
B085011	8.50	216	4.00	102	11.00	279	1.38	35	A	4.2	1.9
B085046	8.50	216	4.00	102	11.00	279	1.38	35	B	4.2	1.9
B085048	8.50	216	3.00	76	11.00	279	1.38	35	B	4.2	1.9
B085056	7.72	196	5.67	144	11.02	280	1.38	35	B	3.2	1.5
B105002	10.50	267	5.00	127	15.00	381	1.38	35	C	5.9	2.7
B105006	10.50	267	4.00	102	10.50	267	1.38	35	A	5.2	2.4
B105020	10.50	267	4.00	102	10.50	267	1.38	35	B	3.6	1.6
B120376	12.5	318	7.8	198	15.75	400	1.89	48	D	8.0	3.6
B125011	12.5	318	5.0	127	9.0	229	1.38	35	D	6.6	3.0
B120439	12.5	318	7.78	197	15.75	400	1.57	40	A	3.5	1.6
B125003	12.50	318	6.00	152	15.00	381	1.38	35	C	7.1	3.2
B125005	12.50	318	5.50	140	9.00	229	1.38	35	D	5.0	2.3

ECC DuraLite™ Specifications

Air Cleaner Models	Body Diameter (A)		Outlet Diameter (C)		Length (D)		Outlet Length (F)		Media Type	Weight	
	in	mm	in	mm	in	mm	in	mm		lbs	kg
C045001	4.50	114	1.50	38	4.50	114	1.38	35	C	0.6	0.27
C045002	4.50	114	1.50	38	8.00	203	1.38	35	C	0.9	0.40
C055002	5.50	140	1.75	44	7.00	178	1.38	35	C	1.0	0.45
C055003	5.50	140	1.75	44	4.00	102	1.38	35	C	1.0	0.45
C065001	6.50	165	2.00	51	4.00	102	1.38	35	C	0.8	0.36
C065002	6.50	165	2.00	51	7.50	191	1.38	35	C	1.3	0.60
C065003	6.50	165	2.25	57	5.00	127	1.38	35	C	1.0	0.45
C065015	6.50	165	2.00	61	9.00	229	1.38	35	D	2.0	0.90
C085001	8.50	216	2.50	64	4.00	102	1.38	35	C	1.4	0.64
C085002	8.50	216	2.50	64	6.50	165	1.38	35	C	2.2	1.0
C085003	8.50	216	3.00	76	5.00	127	1.38	35	C	2.2	1.0
C085004	8.50	216	3.00	76	9.50	241	1.38	35	C	3.0	1.4
C085005	8.50	216	2.50	64	5.00	127	1.38	35	C	2.2	1.0
C085006	8.50	216	2.50	64	9.50	241	1.38	35	C	3.0	1.4
C085041 ³	8.50	216	3.00	76	9.50	241	1.38	35	C	3.0	1.4
C085043 ³	8.50	216	2.50	64	9.50	241	1.38	35	C	3.0	1.4
C105003	10.50	267	4.00	102	6.00	152	1.38	35	A	2.3	1.0
C105004	10.50	267	4.00	102	10.50	267	1.38	35	A	3.6	1.6
C105017 ³	10.50	267	4.00	102	10.50	267	1.38	35	A	3.6	1.6
C105028 ³	10.5	267	4.0	102	6.0	152	1.38	35	A	3.4	1.5
C125004	12.50	318	5.00	127	11.00	279	1.38	35	A	5.8	2.6

ECD DuraLite™ Specifications

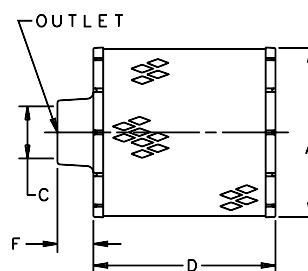
Air Cleaner Models	Body Diameter (A)		Outlet Diameter (C)		Length (D)		Outlet Length (F)		Media Type	Weight	
	in	mm	in	mm	in	mm	in	mm		lbs	kg
D045003	4.50	114	1.50	38	4.50	114	1.38	35	C	0.6	0.27
D045004	4.50	114	1.50	38	6.00	152	1.38	35	C	0.8	0.36
D055004	5.50	140	1.75	44	7.00	178	1.38	35	C	1.0	0.45
D065003	6.50	165	2.00	51	4.00	102	1.38	35	C	0.8	0.36
D065008 ⁴	6.50	165	2.00	51	9.00	229	1.38	35	D	1.5	0.68

Media Types:

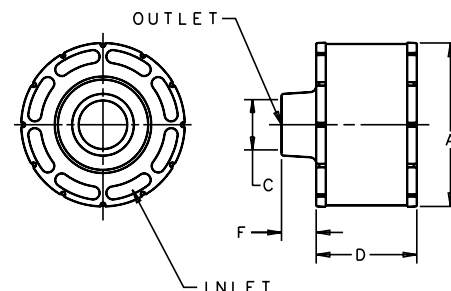
- A = Standard media
- B = Treated to withstand higher humidity...most often used in marine applications
- C = Reinforced to withstand higher pulsation applications
- D = Designed for higher airflow/low dust applications... should NOT be used for normal engine operating environments

Specification Illustrations

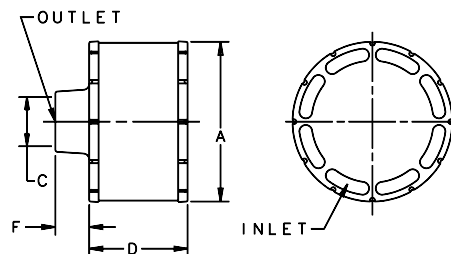
ECB DuraLite



ECC DuraLite



ECD DuraLite



Note: D065008 has inlet holes at both ends of filter

Specifications Notes:

- 1 - Body is galvanized steel with 4" (254mm) dia. inlet on side
- 2 - Body is plastic with 4" (254mm) dia. inlet on side
- 3 - Screen inlet deters rodent infestation
- 4 - Has inlet holes at both ends of filter

Installation Instructions

Installation

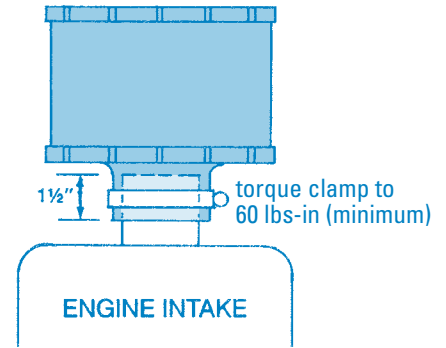
DuraLite air cleaners can be mounted in two ways:

1. **Direct Mount:** mounted directly on the intake manifold.
2. **Remote Mount:** mounted away from engine and connected to engine with inlet piping.

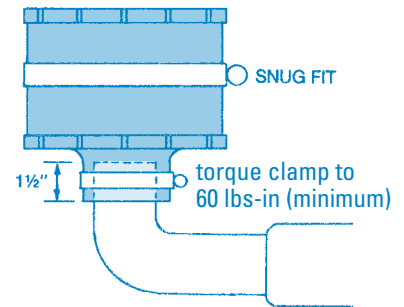
Installation Tips

- Engage outlet neck of the DuraLite over intake piping for a full 1½" to insure a secure, lasting seal.
- Tighten clamp around outlet neck to 60 lbs-in minimum. A Donaldson high torque hose clamp is recommended.
- On remote mount style, avoid crushing the body with body clamps. A snug fit is best, and body clamps are not always required.
- Keep away from engine manifold and other very hot components (DuraLite is rated at 180°F/83°C maximum sustained temperature).
- Keep away from battery acids, brake fluid, and other caustic fluids.

Direct Mount



Remote Mount



Service Recommendations

Servicing Intervals

Choose either of two types:

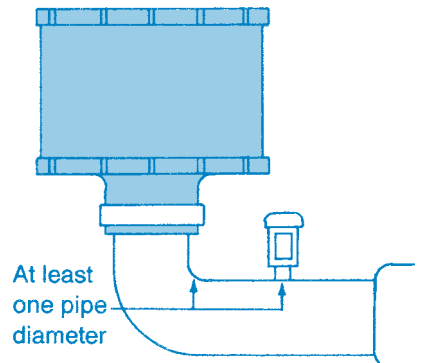
- **Scheduled maintenance.** DuraLite service intervals can be integrated into any existing maintenance program.
- **Restriction Maintenance.** This method offers the most accurate filter maintenance program, delivering maximum filter life at 99.9% efficiency, less machine downtime, and reduced maintenance costs.
- Washing, cleaning or servicing the filter in any way voids the warranty.

Service Indicator Location

For proper restriction readings, a restriction fitting tap must be located between the engine intake and DuraLite outlet neck. The tap should be located in a straight section of the intake pipe at least one pipe diameter away from the manifold or any bends, elbows or reducers.

Servicing Tips

- Do NOT judge the filter on the basis of visual inspection! If it's doing its job, it should look dirty. DuraLite filter life is longer than you may think. Change the filter only when restriction readings indicate.
- Do NOT leave the inlet ducting exposed any longer than necessary (a few minutes) during service.



Disposal

Normal trash pick up is acceptable – never burn.

- Lightweight
- Sturdy
- One Piece Construction

Use the initial restriction table if your specing an air cleaner or for a direct replacement to Parker, select the air cleaner style tables.

Initial Restriction

Airflow		Air Cleaner Model
350 cfm @ 8" H ₂ O	P537451	ECO-SE
510 cfm @ 8" H ₂ O	P537452	ECO-SE
800 cfm @ 8" H ₂ O	P613679	ECO-SE
840 cfm @ 8" H ₂ O	P537453	ECO-SE
960 cfm @ 8" H ₂ O	P537454	ECO-SE
1000 cfm @ 5" H ₂ O	P537447	ECOLITE
1000 cfm @ 6" H ₂ O	P527586	ECO-CM
1000 cfm @ 7" H ₂ O	P524837	ECO-II
1100 cfm @ 6" H ₂ O	P537450	ECO-CM
1200 cfm @ 5" H ₂ O	P537448	ECOLITE
1200 cfm @ 6" H ₂ O	P154927	ECO-II
1230 cfm @ 8" H ₂ O	P607373	ECO-SE
1400 cfm @ 7" H ₂ O	P524838	ECO-II
1500 cfm @ 5" H ₂ O	P537449	ECOLITE
1500 cfm @ 7" H ₂ O	P528722	ECO-II
1530 cfm @ 8" H ₂ O	P537456	ECO-SM
1550 cfm @ 8" H ₂ O	P537455	ECO-SM

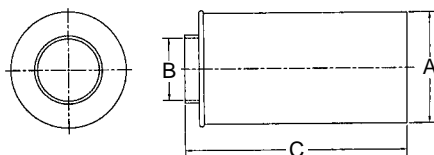
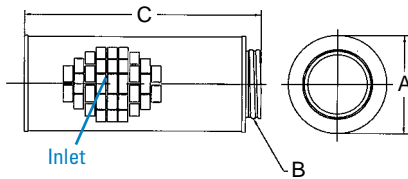
ECO®-II

Parker Number	Donaldson Number	Body Dia. (A)		Body Length (C)		Inlet		Outlet Dia. (B)	
		in	mm	in	mm	in	mm	in	mm
071338001	P524837	9.75	248	24.0	610	Grid	6.0	152	
071338002	P154927	11.0	279	24.0	610	Grid	7.0	178	
071338003	P524838	13.5	343	24.0	610	Grid	7.0	178	
071338004	P528722	13.5	343	18.0	457	Grid	7.0	178	

ECO®-SE

Parker Number	Donaldson Number	Body Dia. (A)		Body Length (C)		Inlet Dia.		Outlet Dia. (B) I.D.	
		in	mm	in	mm	in	mm	in	mm
114500001	P537451	6.75	171	14.2	361	End Perf	3.0	76	
114500002	P537452	7.75	197	17.2	437	End Perf	4.0	102	
114500003	P537453	9.67	246	20.2	513	End Perf	5.0	127	
114880003	P537454	9.70	246	18.1	460	6.0* 152*	5.0	127	
114880005	P613679	7.75	197	17.20	437	6.0* 152*	4.00	102	
400292000	P607373	11.50	292	16.88	429	6.0* 152*	7.00	178	

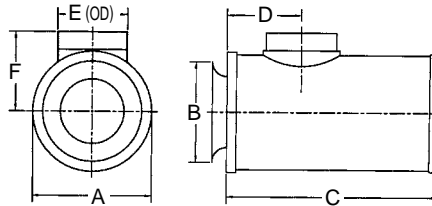
* side inlet (not illustrated)



LIGHT DUST

ECO®-CM

Parker Number	Donaldson Number	Body Dia. (A)		Body Length (C)		Outlet Dia. (E)		Inlet Dia. (B)		(D)		(F)	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
078897002	P527586	11.0	279	24.0	610	6.0	152	8.0	203	18.5	470	8.9	226
078897001	P537450	13.5	343	24.0	610	7.0	178	8.0	203	5.5	140	11.1	282



Competitive Cross Reference

Baldwin	
PA2650.....	P154927
PA2721.....	P537447
PA2722.....	P537448
PA2723.....	P537449
PA2724.....	P524838
PA2731.....	P537450
PA2874.....	P527586
PA2875.....	P528722
PA2876.....	P524837
PA3493.....	P537454
PA3554.....	P537451
PA3555.....	P537452
PA3556.....	P537453

Fleetguard	
AH1103.....	P154927
AH1104.....	P537447
AH1105.....	P537448
AH1106.....	P537449
AH1135.....	P524838
AH1135F.....	P524838
AH1183.....	P528722
AH1184.....	P537450
AH1191.....	P537451
AH1192.....	P537452
AH1193.....	P537453
AH1194.....	P524837
AH1197.....	P537454
AH19014.....	P537455
AH19015.....	P537456

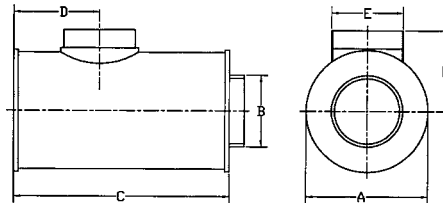
Fram	
CA3770.....	P154927
CA6622.....	P524837
CA6623.....	P524838
CA6624.....	P528722
CA6854.....	P537451
CA6855.....	P537453
CA7229.....	P537447
CA7230.....	P537448
CA7231.....	P537449
CA8129.....	P537452
CA8131.....	P537450

Luber-finer	
LAF1799.....	P528722
LAF1821.....	P537450
LAF1825.....	P527586
LAF1828.....	P537447
LAF1844.....	P537449
LAF1848.....	P537448
LAF1934.....	P537454
LAF2521.....	P537453
LAF8002.....	P154927
LAF8003.....	P524838

Wix	
46743.....	P537451
46748.....	P537454
46755.....	P537453
46759.....	P537452
46848.....	P524837
46849.....	P528722
46850.....	P154927
46851.....	P524838
46857.....	P537455
46858.....	P537456
46891.....	P537447
46893.....	P537448
46895.....	P537449
46897.....	P537450
546755.....	P537453

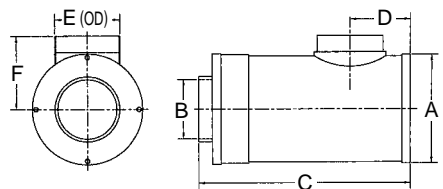
ECOLITE®

Parker Number	Donaldson Number	Body Dia. (A)		Body Length (C)		Inlet Dia. (E)		Outlet Dia. (B)		(D)		(F)	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
062891001	P537447	9.75	248	24.0	610	6.0	152	6.0	152	5.5	140	6.75	171
062891002	P537448	11.0	279	24.0	610	7.0	178	7.0	178	5.5	140	7.8	198
062891003	P537449	13.5	343	24.0	610	7.0	178	7.0	178	5.5	140	9.1	231



ECO®-SM

Parker Number	Donaldson Number	Body Dia. (A)		Body Length (C)		Inlet Dia. (E)		Outlet Dia. (B)		(D)		(F)	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
099842009	P537455	13.5	343	16.8	427	7.0	178	7.0	178	5.5	140	8.6	219
099842010	P537456	13.5	343	16.8	427	7.0	178	7.0	178	9.5	241	8.6	219



ECO and ECOLITE are registered trademarks of Parker-Hannifin Corp., Racor Division

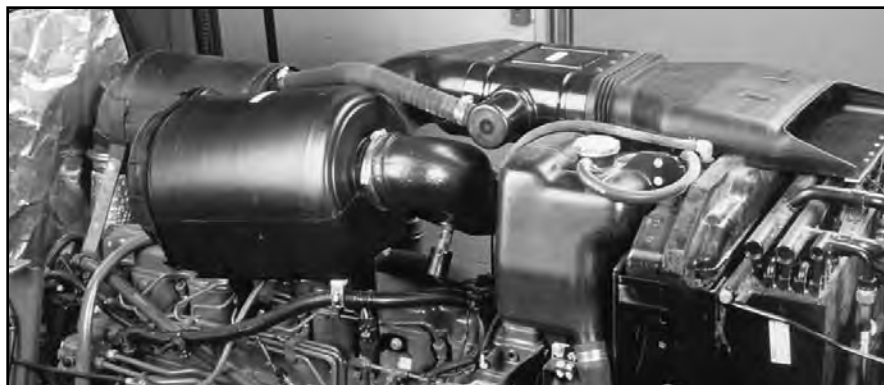
Durable, Corrosion-Free Air Cleaner Improved Reliability, Superior Engine Protection, Easiest Serviceability

The EPG air cleaner series, incorporates Donaldson Radial Seal Sealing Technology, offers improved reliability and durability, reduced weight and costs, and better serviceability.

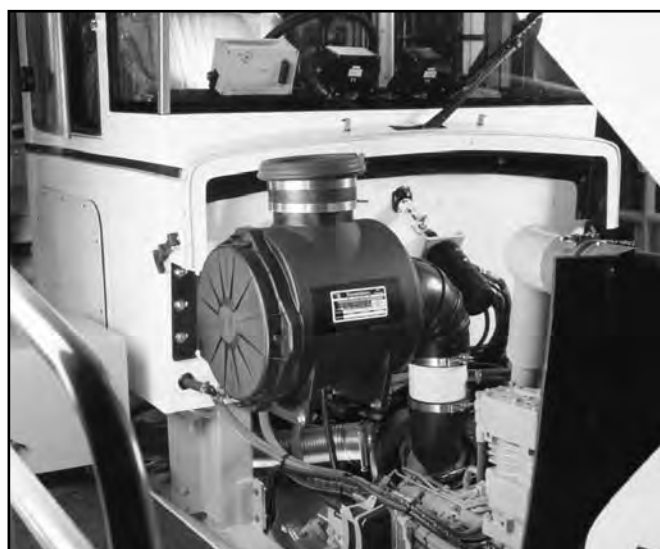
EPG air cleaners conquer underhood space limitations, are corrosion-free and lighter in weight than traditional metal units, are more sturdy than ever before, and have a reliable, easy-to service design.

The filter inside the air cleaner is also quite different from filters with metal end caps. The one-piece molded end caps encase the ends of the media and filter liners. The filter fits over the housing outlet tube, creating a reliable seal – with no hassle of separate sealing gaskets.

Of the six models, three include a primary filter and three include a primary and safety filter.



This EPG Radial Seal Air Cleaner, part of a complete Donaldson intake system, is mounted on a John Deere tractor. The entire engine air intake system is made of molded plastic. Between the intake scoop and the air cleaner are Donaldson Strata™ tubes, which provide pre-cleaning. Particulate from this stage is scavenged off and out through the exhaust system. In this system, the EPG air cleaner provides the second stage of cleaning.



The EPG Air Cleaner, which fits neatly under the hood of this Tyler Ag Sprayer, protects the engine with its powerful air filtration capability. The Radial Seal Sealing Technology means a reliable seal even in rugged environments and fast filter change-out. (Above: the hood of the vehicle is up. Left: the hood is down.)



LIGHT DUST

Provides up to 1325 cfm Airflow per Air Cleaner

Applications

- Provides up to 1325 cfm airflow per air cleaner – double airflow to engine by using two units
- Horizontal or vertical installation

Ideal for

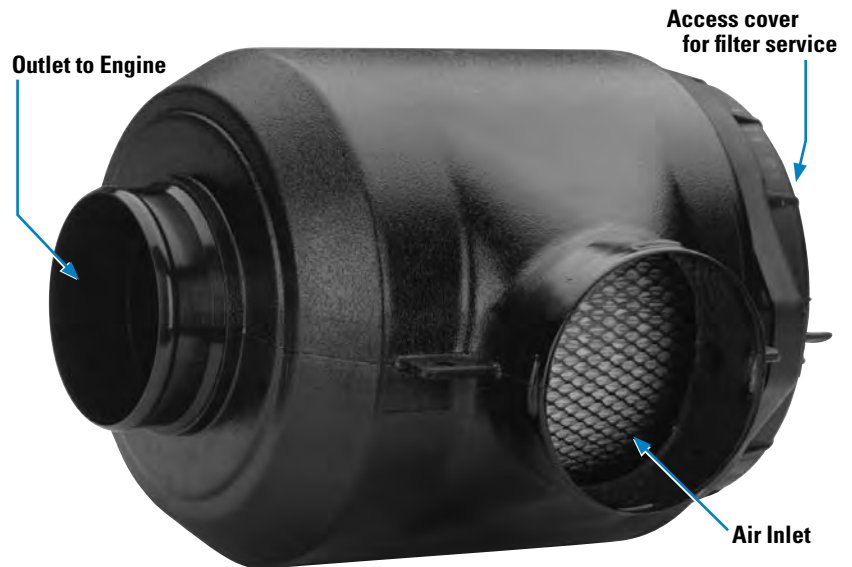
- On-highway vehicles
- Marine and offshore equipment
- Light construction vehicles
- Agricultural vehicles
- Compressors and generator sets

Air Cleaner Features

- Durable plastic housing is corrosion-free and weighs less than metal air cleaners
- Very few service parts! Easy to service!
- No mounting bands required! Installs securely via molded-in mounting flange(s) with pre-drilled holes on the side of the housing
- Available in three body diameters (11, 13, 15 inch / 279, 330, 381mm)
- Temperature tolerances:
 11" (279mm) dia: -40° to 220°F (-40° to 104°C)
 13" and 15" (330 and 381mm) dia: -40° to 200°F (-40° to 93°C)

Filter Features

- Radial Seal Sealing Technology ensures reliability, is easy to service and makes the filter self-centering, self-aligning and self-sealing
- All models can accommodate safety filter
- Donaldson Endurance™ extended service and high efficiency filters – which capture sub-micron contaminant such as soot and carbon – are available for some models (see service parts listing on page 27)



When specifying an Air Cleaner . . .

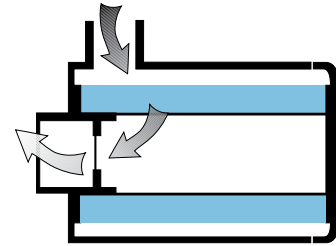
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

Initial Airflow Restriction

Airflow	Air Cleaner Model
MODELS WITH PRIMARY & SAFETY FILTER	
450 cfm @ 5.5" H ₂ O	G110120
650 cfm @ 6" H ₂ O	G130089
800 cfm @ 5.5" H ₂ O	G150049
MODELS WITH PRIMARY FILTER	
625 cfm @ 5.5" H ₂ O	G110119
950 cfm @ 10" H ₂ O	G130079
1325 cfm @ 8" H ₂ O	G150048

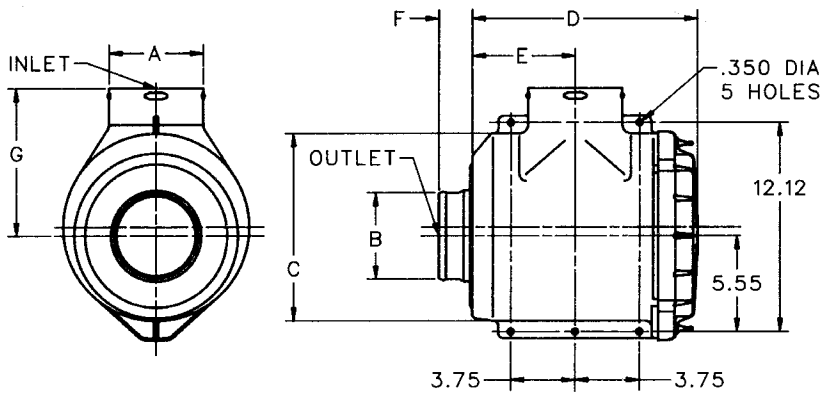
Airflow Pattern "G"

Air in the side, out the end

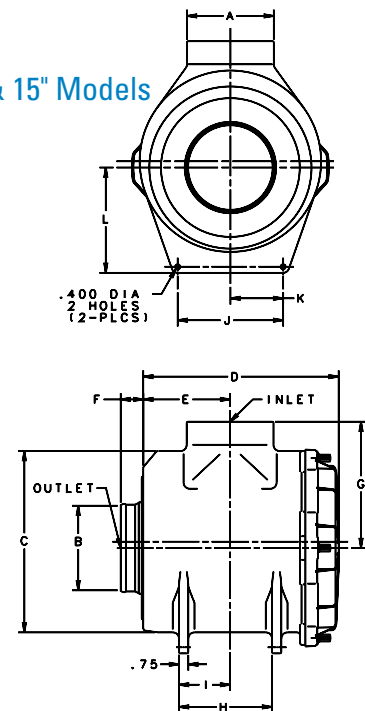


EPG Specification Illustrations

11" Models



13" & 15" Models



EPG Specifications

Air Cleaner Model	Body Dia. (C)	Inlet Dia. (A)	Outlet Dia. (B)	Length (D)	(G)	Outlet Length (F)	(E)	(H)	(I)	(J)	(K)	(L)
G110119	10.86" 276mm	5.50" 140mm	5.00" 127mm	12.89" 327mm	8.56" 217mm	1.95" 50mm	6.00" 152mm	See drawing above for dimensions on 11" models				
G110120	10.86" 276mm	5.50" 140mm	5.00" 127mm	12.89" 327mm	8.56" 217mm	1.95" 50mm	6.00" 152mm	See drawing above for dimensions on 11" models				
G130079	12.62" 321mm	6.00" 152mm	5.00" 127mm	16.02" 407mm	9.51" 242mm	3.00" 76mm	5.66" 144mm	7.75" 197mm	2.00" 51mm	8.00" 203mm	4.00" 102mm	6.00" 152mm
G130089	12.62" 321mm	6.00" 152mm	5.00" 127mm	16.02" 407mm	9.51" 242mm	3.00" 76mm	5.66" 144mm	7.75" 197mm	2.00" 51mm	8.00" 203mm	4.00" 102mm	6.00" 152mm
G150048	14.62" 371mm	7.00" 178mm	7.00" 178mm	15.75" 400mm	10.19" 259mm	1.82" 46mm	7.00" 178mm	7.50" 191mm	4.12" 105mm	8.50" 216mm	4.25" 108mm	8.00" 203mm
G150049	14.62" 371mm	7.00" 178mm	7.00" 178mm	15.75" 400mm	10.19" 259mm	1.82" 46mm	7.00" 178mm	7.50" 191mm	4.12" 105mm	8.50" 216mm	4.25" 108mm	8.00" 203mm

LIGHT DUST

EPG Service Parts

G110119

cover	P529151
fastener kit	X006452
filter, primary - SM	P527484 ....3
filter, primary - ES & HE.....	EAF5067
filter, safety.....	P527680 ....4
thumb screw	P527435

G110120

cover	P529151
fastener kit	X006452
filter, primary - SM	P527484 ....3
filter, primary - ES & HE.....	EAF5067
filter, safety.....	P527680 ....3
thumb screw	P527435

G130079

cover	P533916
fastener kit	X006452
filter, primary - SM.....	P533930 ....3
filter, primary - ES & HE.....	EAF5109
filter, safety.....	P533890 ....4
thumb screw	P527435

G130089

cover	P533916
fastener kit	X006452
filter, primary - SM.....	P533930 ....3
filter, primary - ES & HE.....	EAF5109
filter, safety.....	P533890 ....3
thumb screw	P527435

G150048

cover	P523096
fastener kit	X006452
filter, primary - SM	P527682 ....3
filter, primary - ES & HE.....	EAF5069
filter, safety.....	P527683 ....4
thumb screw	P527435

G150049

cover	P523096
fastener kit	X006452
filter, primary - SM	P527682 ....3
filter, primary - ES & HE.....	EAF5069
filter, safety.....	P527683 ....3
thumb screw	P527435

NOTES:

- 3 = Shipped with air cleaner initially
- 4 = Safety filter is designed to fit this air cleaner, but was not originally shipped with it (note that adding a safety filter will decrease the maximum airflow throughput)

ES = Extended Service
HE = High Efficiency
SM= Scheduled Maintenance



11" Model Shown

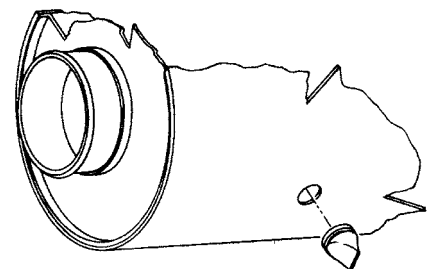


Vacuator™ Valve: The Better Alternative to Drain Holes for Avoiding Moisture Ingestion

The Donaldson Vacuator™ Valve is an optional accessory for the EPG that expels water from the air cleaner before any reaches the filter – thereby extending filter life. Bare drain holes can clog or take in backsplash, but the Vacuator Valve never does! The P525956 is a 1" (25mm) diameter model designed for over-highway applications.

Installation is fast and easy:

1. Locate the lowest point of the air cleaner to allow proper drainage through Vacuator Valve.
2. Remove filter(s) before drilling.
3. Drill a 1" (25mm) hole centered at the lowest point of the air cleaner as shown in illustration. Remove debris from drilling.
4. Install Vacuator Valve (P525956) by pushing it into the hole.
5. Reinstall filter(s), reattach cover.

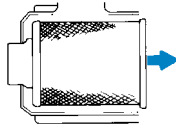


1 Remove the Filter



Rotate the filter while pulling straight out.

Unfasten or unlatch the service cover. Because the filter fits tightly over the outlet tube to create the critical seal, there will be some initial resistance, similar to breaking the seal on a jar. Gently move the end of the filter back and forth to break the seal then rotate while pulling straight out. Avoid knocking the filter against the housing.



4 Inspect the New Filter for Damage

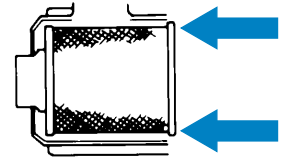
Inspect the new filter carefully, paying attention to the inside of the open end, which is the sealing area. NEVER install a damaged filter. A new Donaldson radial seal filter may have a dry lubricant on the seal to aid installation.



5 Insert the New Radial Seal Filter Properly

If you're servicing the safety filter, this should be seated into position before installing the primary filter.

Insert the new filter carefully. Seat the filter by hand, making certain it is completely into the air cleaner housing before securing the cover in place.



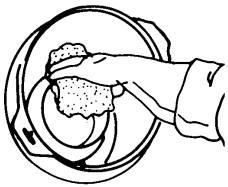
The critical sealing area will stretch slightly, adjust itself and distribute the sealing pressure evenly. To complete a tight seal, apply pressure by hand at the outer rim of the filter, not the flexible center. (Avoid pushing on the center of the urethane end cap.) No cover pressure is required to hold the seal. NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing, cover fasteners and will void the warranty.

If the service cover hits the filter before it is fully in place, remove the cover and push the filter (by hand) further into the air cleaner and try again. The cover should go on with no extra force.

Once the filter is in place, secure the service cover.

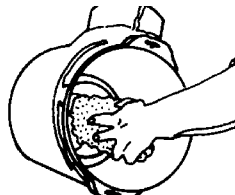
2 Clean Both Surfaces of the Outlet Tube and Check the Vacuator™ Valve

Use a clean cloth to wipe the filter sealing surface and the inside of the outlet tube. Contaminant on the sealing surface could hinder an effective seal and cause leakage. Make sure that all contaminant is removed before the new filter is inserted. Dirt accidentally transferred to the inside of the outlet tube will reach the engine and cause wear. Engine manufacturers say that it takes only a few grams of dirt to "dust" an engine! Be careful not to damage the sealing area on the tube.



Outer edge of the outlet tube

Wipe both sides of the outlet tube clean.



Inner edge of the outlet tube

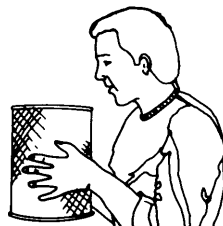
If your air cleaner is equipped with a Vacuator Valve


Visually check and physically squeeze to make sure the valve is flexible and not inverted, damaged or plugged.



3 Inspect the Old Filter for Leak Clues


Visually inspect the old filter for any signs of leaks. A streak of dust on the clean side of the filter is a telltale sign. Remove any cause of leaks before installing new filter.





Caution

NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing, cover fasteners and will void the warranty.



6 Check Connectors for Tight Fit

Make sure that all mounting bands, clamps, bolts, and connections in the entire air cleaner system are tight. Check for holes in piping and repair if needed. Any leaks in your intake piping will send dust directly to the engine!

LIGHT DUST

Cowl-Mounted Air Cleaner Superior Protection with Radial Seal Sealing Technology

Looking for a replacement to our older EBA cylindrical shaped, axial seal style air cleaner? Our ERA radial seal air cleaner series deliver a reliable filtration system for your engine and simplifies filter service.

Applications

- Vertical installation, mounted on the side of the truck
- Primarily for on-highway trucks
- Can be installed on driver or passenger's side
- Allows up to 1350 cfm airflow throughput per air cleaner

(Mounting the unit directly to the engine is not recommended)

Air Cleaner Features

- Black, corrosion and chemical resistant polymer paint retains its finish through all types of weather
- Available in 11" (279mm), 13" (330mm) and 15" (381mm) diameter sizes
- Does not include an inlet hood
- Double airflow throughput by using two air cleaners
- Vacuator™ Valve automatically expels moisture from bottom of housing

Filter Features

- The filters feature radial seal sealing technology – a high tech resilient urethane ends hat hold the filter firmly in place and maintain a tight, reliable seal – reducing the number of components and ensuring reliability
- Extended service, high efficiency Donaldson Endurance™ filters are available on some models (see service parts list for part numbers)

Our older, classic EBA cowl-mounted air cleaner (shown on the right) has been replaced with our ERA Air Cleaner.

EBA replacement filters are still available through your local Donaldson outlet.



LIGHT DUST

The ERA Style air cleaner has radial seal sealing technology and fewer access bolts to remove during service compared to our old EBA air cleaner design.

The exterior finish is glossy black, polymer paint.

Don't forget to protect the air cleaner from rain and exposure, be sure to add an inlet hood to the intake flange on the service cover. Pre-cleaner inlet hoods are featured in the accessories section



When spec'ing an Air Cleaner ...

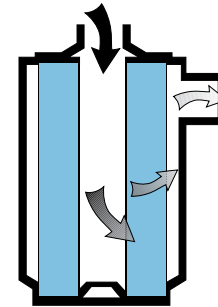
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

Initial Airflow Restriction

CFM @ "H2O			Air Cleaner Model
6"	8"	10"	
ERA AIR CLEANER			
750	870	970	A110052
760	880	890	A130115
760	880	980	A150141
1045	1205	1350	A150138

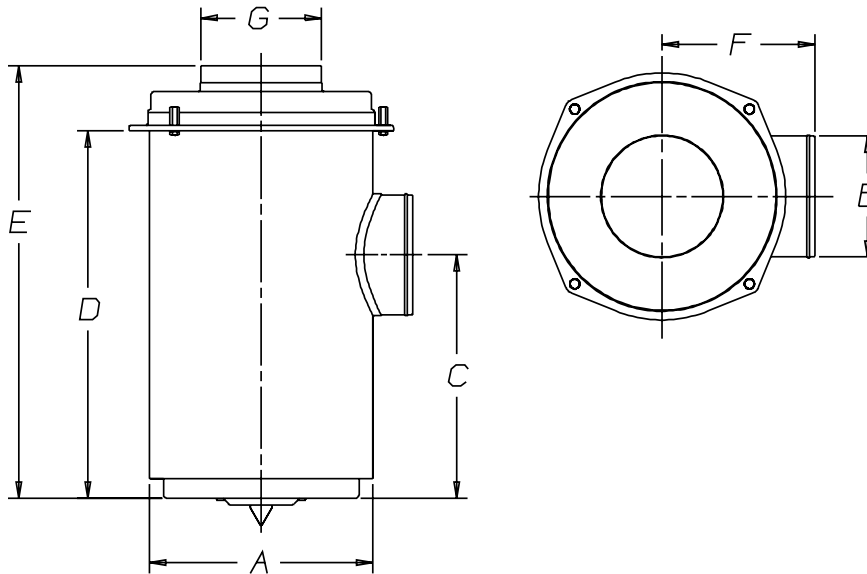
Airflow Pattern "A"

Air in the end, out the side



ERA Specification Illustrations

Side and Top View

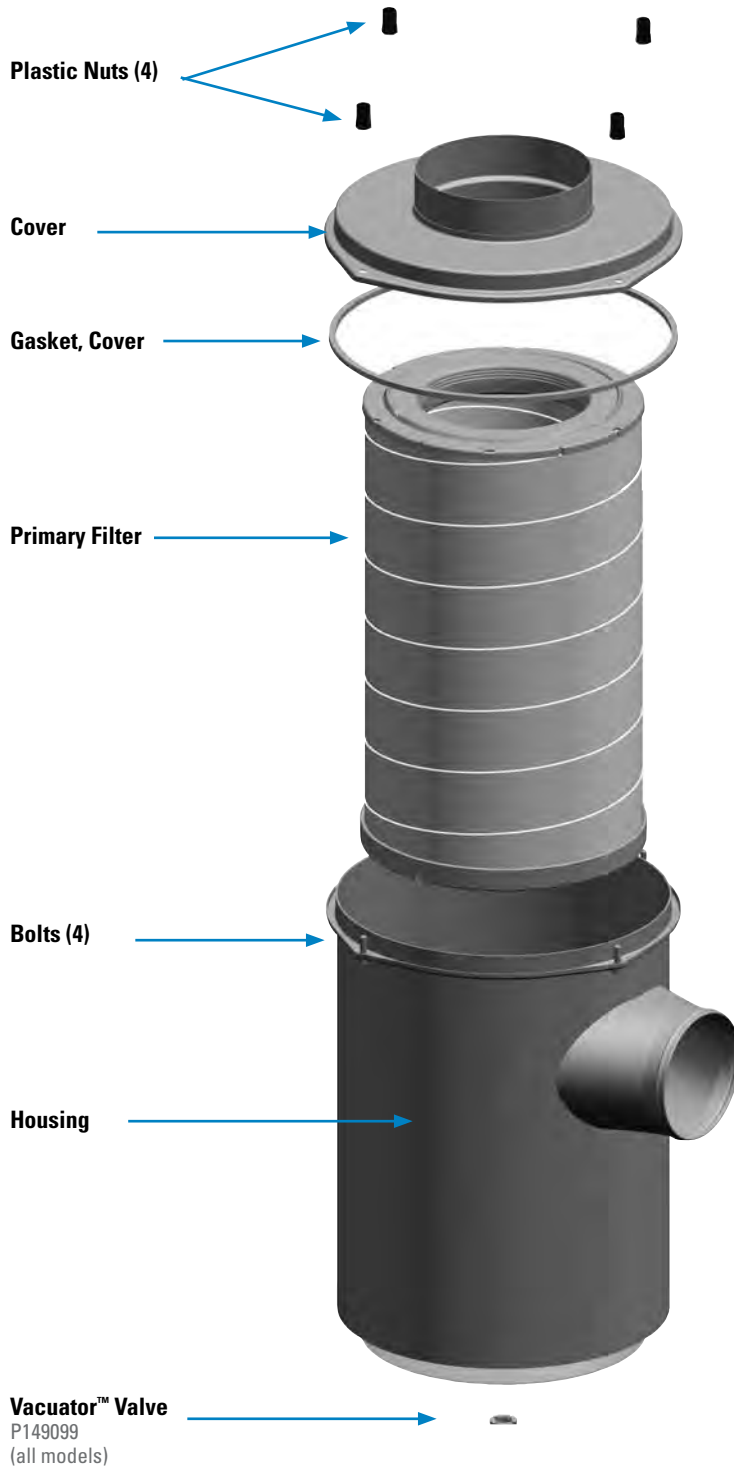


ERA Specifications

Air Cleaner Models	Body Diameter (A)		Outlet Diameter (B)		Outlet Location (C)		Body Length (D)		Overall Length (E)		Outlet Location (F)		Inlet Dia. OD (G)		Service Clearance		Service Indicator Tap	Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		lbs	kg
BLACK FINISH, WITH NO INLET HOOD																			
A110052	11.00	279	5.50	140	17.07	434	20.39	518	23.70	602	9.36	238	6.00	152	20.00	508	Yes	24	11
A130115	13.00	330	6.00	152	16.69	424	20.19	513	22.95	265	10.42	265	6.00	152	20.00	508	Yes	29	13
A150141	15.00	381	6.00	152	16.90	429	20.38	518	23.14	588	11.90	302	6.00	152	20.00	508	Yes	32	15
A150138	15.00	381	7.00	178	19.25	489	24.38	619	27.69	7.03	11.90	302	7.00	178	24.00	610	Yes	36	16

LIGHT DUST

ERA Service Parts



A110052 ERA

bolt.....	P119463
cover	P544744
filter, primary - SM	P544741 .....3
filter, primary - ES & HE.....	EAF5148
gasket, cover	P155211
mounting band, black.....	P004079 .....2
nut, plastic.....	P119325
retaining ring.....	P129469
Vacuator Valve	P149099

A130115 ERA

bolt.....	P119463
cover	P542475
filter, primary - SM	P544950 .....3
filter, primary - ES & HE.....	EAF5149
gasket, cover	P155264
mounting band, black.....	P013722 .....2
nut, plastic.....	P119325
retaining ring.....	P129469
Vacuator Valve	P149099

A150138 ERA

bolt.....	P119463
cover	P544238
filter, primary - SM	P544301 .....3
filter, primary - ES & HE.....	EAF5150
gasket, cover	P535559
mounting band, black.....	P016845 .....2
nut, plastic.....	P119325
retaining ring.....	P129469
Vacuator Valve	P149099

A150141 ERA

bolt.....	P119463
cover	P544827
filter, primary - SM	P544243 .....3
filter, primary - ES & HE.....	EAF5151
gasket, cover	P535559
mounting band, black.....	P016845 .....2
nut, plastic.....	P119325
retaining ring.....	P129469
Vacuator Valve	P149099

NOTES:

- 2 = Two required for proper installation
- 3 = Shipped with air cleaner initially

SM = Scheduled Maintenance
 ES = Extended Service
 HE = High Efficiency

Looking for the EBA Cylindrical models?

The four models previously available have been replaced by a more reliable, radial seal style air cleaner design. The ERA design is a direct replacement to the older axial seal air cleaner models (see page 37).

A110009 use A110052

A130045 use A130115

A150039 use A150141

A150128 use A150138

When spec'ing an Air Cleaner . . .

Service parts for this axial style air cleaner may not be available due to newer filtration technology and housing designs. Donaldson now recommends radial seal style air cleaners for new applications.

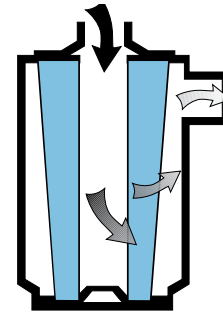
If you do prefer this air cleaner style, please use the air cleaner selection steps outlined on the inside cover to determine which air cleaner is best for your engine.

Initial Airflow Restriction

CFM @ "H2O			Air Cleaner Model
6"	8"	10"	
STYLE KPI			
1150	1300	1475	A112018
STYLE KPII			
875	1000	1130	A092037
1140	1300	1450	A112078
1400	1640	1850	A132001

Airflow Pattern "A"

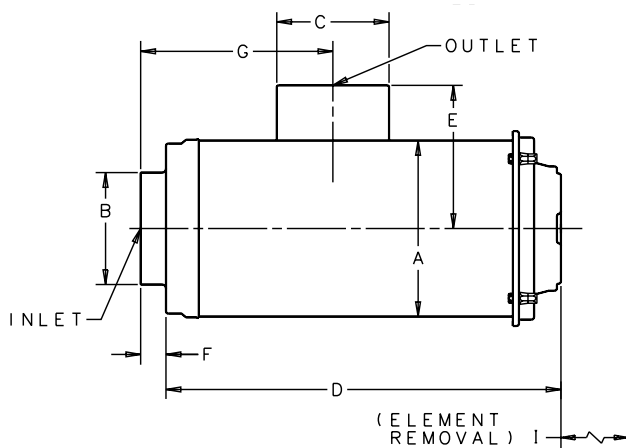
Air in the end, out the side



EBA Konepac™ Specification Illustrations

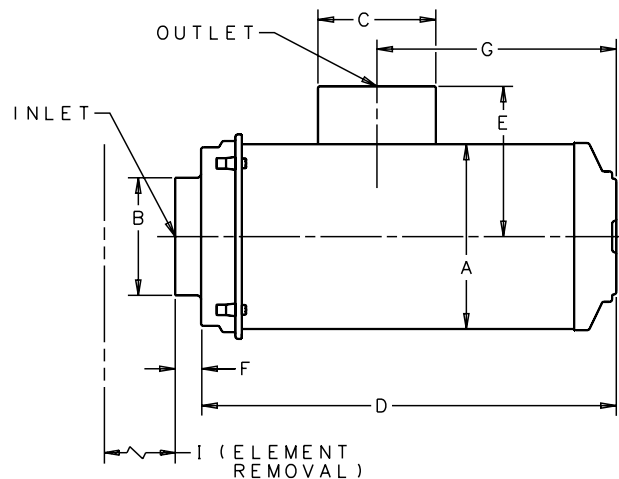
Style Konepac I (KPI)

Service cover opposite the inlet end



Style Konepac II (KPII)

Service cover on inlet end



EBA Konepac™ Specifications

Air Cleaner Models	Body Diameter (A)		Inlet Diameter (B)		Outlet Diameter (C)		Length (D)		(E)		Inlet Length (F)		(G)		Service Clearance (I)		Service Indicator Tap	Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		lbs	kg
STYLE KPI																			
A112018	11.00	279	7.00	178	7.00	178	28.62	727	8.95	227	1.58	40	22.20	564	28.00	711	Yes	39.0	17.8
STYLE KPII																			
A092037	9.00	229	6.00	152	6.00	152	28.63	727	7.85	199	1.18	30	10.00	443	27.62	702	Yes	21.5	9.5
A112078	11.00	279	7.00	178	7.00	178	28.67	728	8.95	227	1.58	40	8.00	203	28.00	711	Yes	30.0	13.6
A132001	13.00	330	8.00	203	8.00	203	28.59	726	10.00	254	2.38	60	7.50	191	28.00	711	No	42.0	19.0

LIGHT DUST



Because of the cone-shaped filter inside the housing, EBA Konepac™ is smaller in size compared to the ERA, without sacrificing airflow. This allows trucks to meet width requirements in all states.

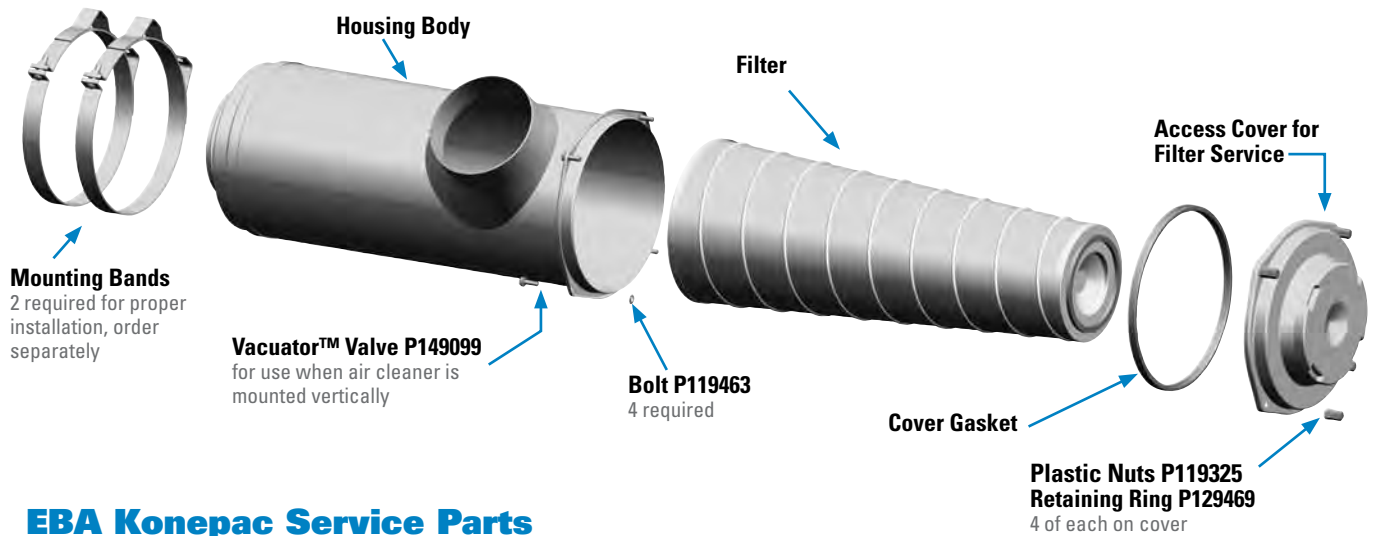


Picture of A112018 air cleaner with service cover on the opposite end of the inlet.

LIGHT DUST

EBA Konepac Service Parts

(KPII style shown)



EBA Konepac Service Parts

A092037	Style KPII
filter, primary	P140822
filter, primary - ES & HE.....	EAF5025
filter, primary, treated	P129472 .....1,3
mounting band.....	P004073 .....2

A112078	Style KPII
filter, primary	P151097
filter, primary - ES & HE.....	EAF5024
filter, primary, treated	P129396 .....1,3
gasket, cover	P155211
mounting band.....	P004079 .....2

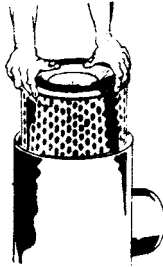
A112018	Style KPI
filter, primary	P151097 .....3
filter, primary - ES & HE.....	EAF5024
filter, primary, treated	P129396 .....1
gasket, cover	P155211
mounting band.....	P004079 .....2

A132001	Style KPII
filter, primary	P141228 .....3
filter, primary - ES & HE.....	EAF5026
gasket, cover	P155264
mounting band.....	P013722 .....2

NOTES:
 1 = Filter is treated with chemical for carbon resistance and is not cleanable
 2 = Two required for proper installation
 3 = Shipped with air cleaner initially
 ES= Extended Service
 HE= High Efficiency

1 Remove the old filter gently

“Baby” that dirty filter, until you get it clear of the housing. Accidentally bumping it while still inside means dropped dirt and dust that will contaminate the clean side of your filter housing, before the new filter element has a chance to do its job.



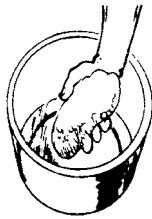
5 Press your fresh gasket to see that it springs back

Make sure your new filter is made with a highly compressible gasket that springs back (promptly) when finger pressure is released. A high quality gasket is one of the most important parts of the filter.



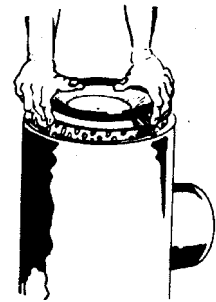
2 Always clean the inside of the housing carefully

Dirt left in the air cleaner housing spells death for your engine. Use a clean, damp cloth to wipe every surface clean. Check it visually to make sure it's clean before putting in a new filter.



6 Make sure the gasket seats evenly

If you don't feel the gasket seating evenly for a perfect seal, you don't have protection. Re-check to see if the sealing surface in the housing is clean, and ensure that the filter is the correct model. It may be the wrong size for the housing.



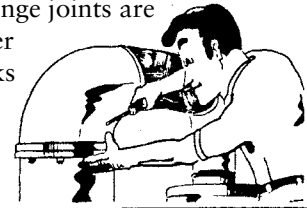
3 Always clean the gasket sealing surfaces

An improper gasket seal is one of the most common causes of engine contamination. Make sure that all hardened dirt ridges are completely removed, both on the bottom and top of the air cleaner housing.



7 Ensure air-tight fit on all connections and ducts

Check that all clamps and flange joints are tight, as well as the air cleaner mounting bolts. Seal any leaks immediately – leaks mean dirt is directly entering your engine.



4 Check for uneven dirt patterns

Your old filter has valuable clues to dust leakage or gasket sealing problems. A pattern on the filter clean side is a sign that the old filter was not firmly sealed or that a dust leak exists. Identify the cause of that leak and rectify it before installing a new filter.



LIGHT DUST

High Airflow in Compact Size for Horizontal Installation

Upgrade Path

To upgrade, consider the Donaldson EPG air cleaner or PSD air cleaners that use newer filtration technologies.

Applications

- Airflow range 775 to 1600 cfm airflow throughput per air cleaner
- Horizontal installation, side inlet
- Over-highway trucks: horizontal under hood or behind cab
- Buses: under hood

Air Cleaner Features

- Relatively small air cleaner with high airflow
- Designed for horizontal installation with side inlet
- Housing is metal and coated with a corrosion and chemical resistant polymer paint
- Direct engine mounting is not recommended due to excessive engine vibration.
- All models have service access cover opposite the outlet end of the air cleaner

Filter Features

- Cone shaped filters, which we call Konepac, allow maximum media in a small package (one filter is shipped with each air cleaner)
- Other filter performance options available (see service parts lists for specifics)



LIGHT DUST

This ECG Konepac model is mounted to the fire-wall on this on-highway truck. The latched service cover allows for easy access to the filter for change out.



ECG Konepac I with Latched Service Access
Left: a standard media filter, which is available with either standard or carbon-resistant media. Middle: the ECG Konepac™ metal air cleaner housing. Right: a extended service filter

ECG Konepac I with Perforated Inlet - an alternative to disposable style housings. You'll get the economy of replacing the filter instead of the entire unit each time. The perforated inlet on the side of this G112417 housing (middle) is the same as the disposable's, so conversion is direct and easy. Left: Extended service filter. Right: Filter designed for scheduled maintenance.

When spec'ing an Air Cleaner . . .

Service parts for this axial style air cleaner may not be available due to newer filtration technology and housing designs. Donaldson now recommends one of two other families - the EPG or PSD.

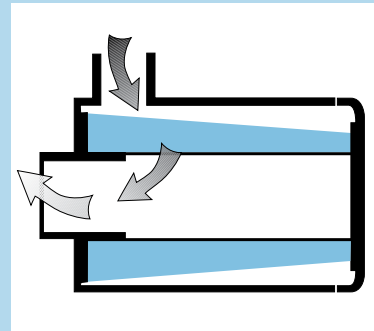
Initial Airflow Restriction

CFM @ "H2O			Air Cleaner Model
6"	8"	10"	
MODELS WITH BOLTED SERVICE ACCESS			
775	880	1000	G092001
1100	1300	1425	G112001
1200	1400	1550	G132000
MODELS WITH LATCHED SERVICE ACCESS			
800	925	1040	G092401
1200	1400	1600	G112404
1200	1400	1600	G112417 ¹
1200	1400	1600	G112501
1200	1400	1600	G112504

1 - No inlet tube, perforated inlet holes on side

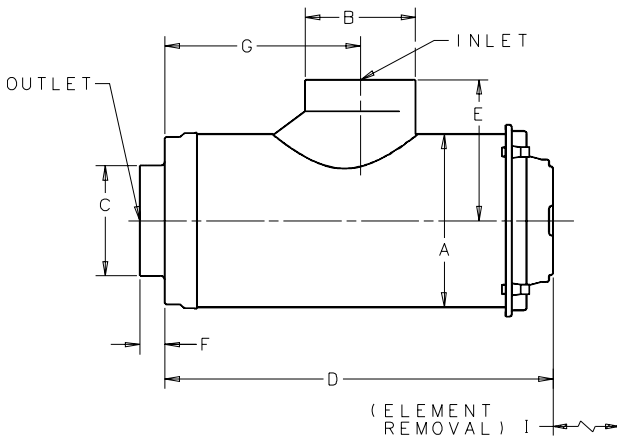
Airflow Pattern "G"

Air in the side, out the end

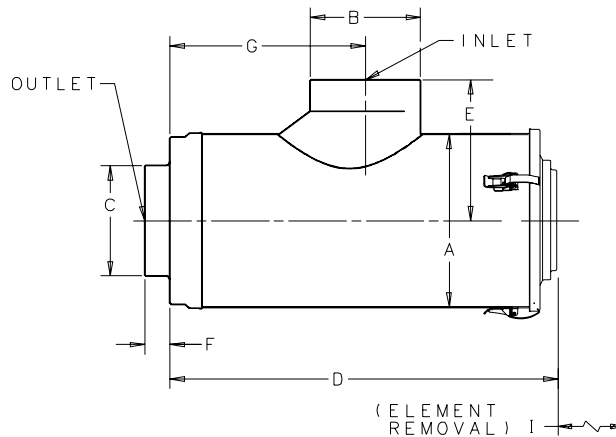


ECG Konepac™ Specification Illustrations

Bolted Service Access



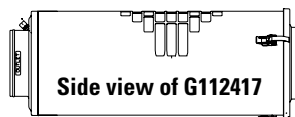
Latched Service Access

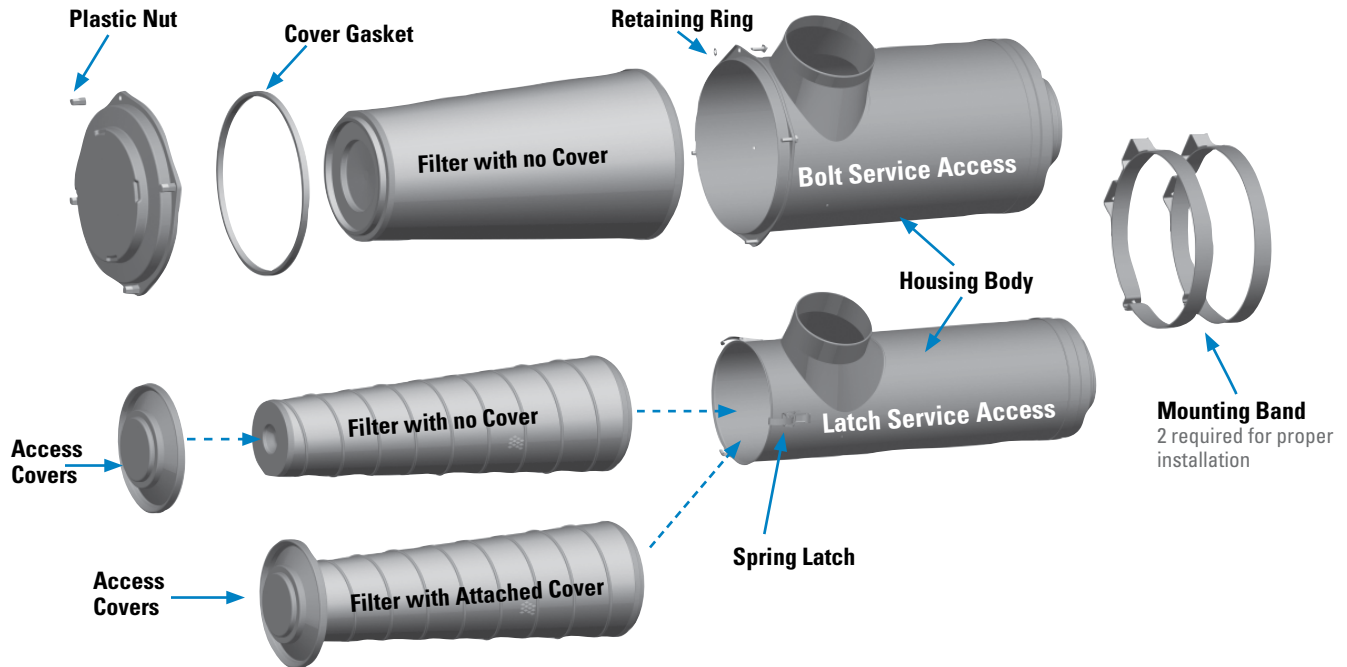


ECG Konepac Specifications

Air Cleaner Models	Body Diameter (A)		Inlet Diameter (B)		Outlet Diameter (C)		Overall Length (D)		(E)		Inlet Length (F)		(G)		Service Clearance		Service Indicator Tap	Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		lbs	kg
BOLTED SERVICE ACCESS																			
G092001	9.00	229	6.00	152	6.00	152	28.63	727	7.85	199	1.18	30	18.63	473	27.62	702	No	30	14
G112001	11.00	279	7.00	178	7.00	178	28.62	727	8.95	227	1.58	40	20.62	524	27.00	686	No	38	17
G132000	13.00	330	7.00	178	7.00	178	24.59	625	9.54	242	2.38	60	18.25	464	27.62	702	No	36	16
LATCHED SERVICE ACCESS																			
G092401	9.00	229	6.00	152	6.00	152	28.70	729	7.86	200	1.18	30	21.75	553	27.62	702	No	30	14
G112404	11.00	279	7.00	178	7.00	178	22.70	577	8.97	228	2.00	51	12.32	313	22.00	559	Yes	33	15
G112417 ¹	11.00	279	--	--	7.00	178	28.70	729	--	--	2.00	51	15.11	384	28.00	711	Yes	30	14
G112501	11.00	279	7.00	178	7.00	178	28.30	719	8.97	228	2.00	51	21.22	539	28.00	711	Yes	23	10
G112504	11.00	279	7.00	178	7.00	178	22.30	566	8.97	228	2.00	51	12.32	313	22.00	559	Yes	20	9

1 - This model has no inlet tube; inlet consists of rectangular perforated holes on side of housing.





LIGHT DUST

ECG Konepac Service Parts

G092001 Bolted Cover

filter, primary, no cover, treated.....	P148044	.....1,3
mounting band.....	P004073	.....2
nuts, plastic.....	P119325	.....6
retaining ring.....	P129469	.....1

G092401 Latched Cover

filter, primary, no cover	P150692	.....3
filter, primary, no cover, treated.....	P148044	.....1
filter, primary, attached cover.....	P150693	.....6
latch replacement kit.....	X009291	.....1

G112001 Bolted Cover

filter, primary, no cover, treated.....	P148043	.....1,3
gasket, cover	P155211	.....1
mounting band.....	P004079	.....2
nuts, plastic.....	P119325	.....6
retaining ring.....	P129469	.....1

G112404 Latched Cover

cover	P150862	.....1
filter, primary, attached cover		
- ES & HE	EAF5053	.....1
filter, primary, attached cover.....	P153551	.....6
filter, primary, no cover, treated.....	P154575	.....1,3,5
gasket, cover	P536493	.....1
latch replacement kit	X009291	.....1

G112417 Latched Cover

cover	P150862	.....1
filter, primary, no cover	P150694	.....3,5
filter, primary, no cover-ES & HE ..	EAF5029	.....5
filter, primary, attached cover.....	P150695	.....6
filter, primary, attached cover		
- ES & HE	EAF5047	.....1
gasket, cover	P536493	.....1
latch replacement kit	X009291	.....1

G112501 Latched Cover

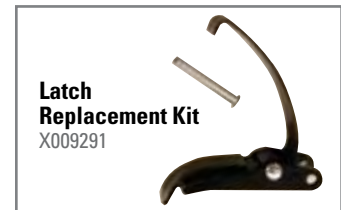
filter, primary.....	P150694	.....5
filter, primary, no cover-ES & HE..	EAF5029	.....5
filter, primary.....	P150695	.....3,6
filter, primary, attached cover		
- ES & HE	EAF5047	.....1
filter, primary, treated	P148043	.....1
gasket, cover	P536493	.....1
latch replacement kit	X009291	.....1

G112504 Latched Cover

cover	P150862	.....1
filter, primary, attached cover		
- ES & HE	EAF5053	.....1
filter, primary, attached cover.....	P153551	.....6
filter, primary, attached black		
cover	P537791	.....3,6
filter, primary, no cover, treated.....	P154575	.....1,5
gasket, cover	P536493	.....1
latch replacement kit	X009291	.....1

G132000 Bolted Cover

filter, primary, no cover	P142100	.....3
filter, primary, no cover-ES & HE..	EAF5027	.....5
gasket, cover	P120604	.....1
mounting band.....	P013722	.....2
nuts, plastic.....	P119325	.....6
retaining ring.....	P129469	.....1



ECG style air cleaners have three cover latches that need to perform correctly to ensure the filter gasket is sealing properly. These latches should be checked

for tightness and wear. To check for tightness, close all three latches, then open and close them one at a time. There should be good tension and should snap tightly when closed. If any latches seem loose or rattle, they should be replaced.

NOTES:

- 1 = Filter is treated with chemical for carbon resistance and is not cleanable
- 2 = Two required for proper installation
- 3 = Shipped with air cleaner initially
- 5 = Also requires access cover P150862
- 6 = Access cover is attached to filter

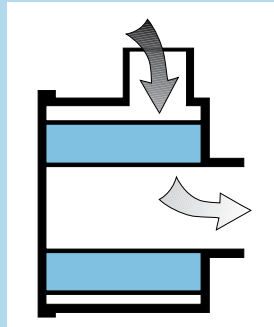
ES = Extended Service
HE = High Efficiency

When spec'ing an Air Cleaner ...

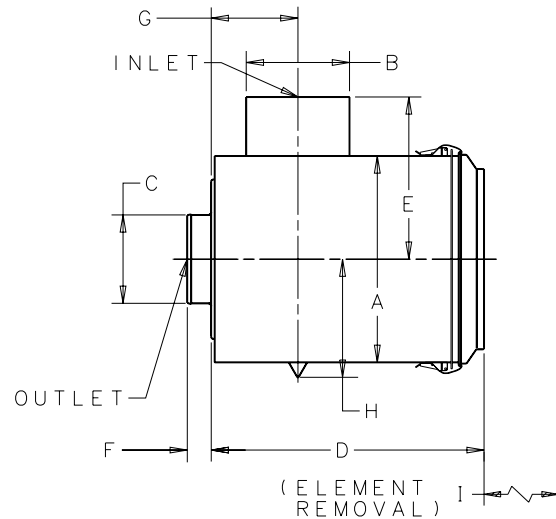
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

Airflow Pattern "B"

Air in the side, out the end

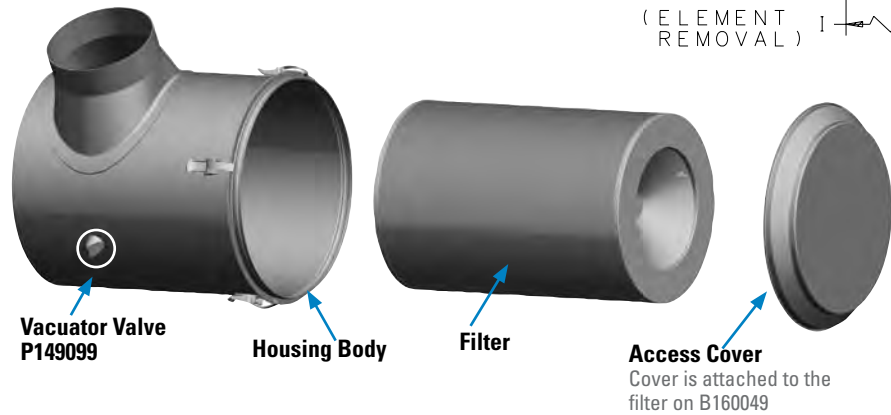


EBB Specification Illustration



Initial Airflow Restriction

Air Cleaner Model	CFM @ "H2O		
	6"	8"	10"
B120271	620	730	800
B140044	900	1050	1320
B160049	1360	1530	1640



EBB Specifications

NOTE: All EBB Air Cleaners are tapped to accept a filter service indicator

Air Cleaner Models	Body Diameter (A)		Inlet Diameter (B)		Outlet Diameter (C)		Length (D)		Length (E)		Inlet Length (F)		Length (G)		Length (H)		Service Clearance (I)		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
B120271	11.81	300	5.50	140	5.00	127	16.42	417	7.64	194	2.00	51	5.80	147	--	--	16.0	406	16	7
B140044 ¹	14.00	356	7.00	178	6.00	152	18.50	470	10.90	277	1.62	41	5.88	149	8.00	203	17.5	445	19	8
B160049 ²	16.00	406	8.00	203	7.00	178	18.75	476	12.91	328	2.50	64	8.84	225	--	--	18.0	457	35	16

1 - B140044 is only model with installed Vacuator Valve 2 - Bolted on access cover

EBB Service Parts

B120271

filter, primary - SM	.....	P181028	.....3
filter, primary - ES & HE	.....	EAF5028	
filter, primary	.....	P182028	
mounting band	.....	H000349	.....2

B140044

filter, primary - SM	.....	P181015	.....3
filter, primary - ES & HE	.....	EAF5015	
filter, primary	.....	P182015	
mounting band	.....	H000350	.....2

B160049

filter, primary - SM	.....	P181099	.....6
filter, primary - ES & HE	.....	EAF5099	
filter, primary	.....	P182099	.....3,6
mounting band	.....	H000351	.....2

NOTES:

- 2 = Two required for proper installation
- 3 = Shipped with air cleaner initially
- 6 = Access cover is attached to filter

ES = Extended Service
HE = High Efficiency
SM = Scheduled Maintenance

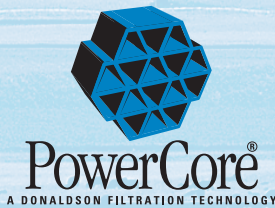


Mounted against the firewall, this EBB air cleaner (not a catalog model) is small enough to fit under hood yet large enough to deliver plenty of clean airflow to the engine.

LIGHT DUST

If you're looking for a new air cleaner, check out the **PowerCore Air cleaner section first!**

PSD Air Cleaners with PowerCore® Filtration Technology Offer Improved Filtration Performance Compared to our older F-Series air cleaners.



Powerful Two-Stage Filtration for Diesel Engines Operating in Medium- to Heavy-Dust Conditions

The air cleaners featured in this section offer reliable two-stage filtration designs that have been proven by years of service in medium dust environments such as light construction, mining, agriculture, trucks, gen sets, compressors and industrial applications.

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Looking for FHG, FWG or FVG Air Cleaner Families?

These old air cleaner families are being phased out of our product offering. To help you transition from these older air cleaner designs to newer designs with improved filtration technology, the upgrade tables on the right will point you to a new air cleaner housing (or family) that is a close match to the older model. If you need help to upgrade, please call Donaldson customer service for assistance.

Upgrade FHG to FPG or FRG

Older FHG	FPG Model	--- FRG Model --- Style A	Style B
G052558	G065424	G052686	
G052559	G065424	G052686	
G052560	G057511	G052685	
G052561	G057511	G052685	
G065104	G070019	G065551	
G065113	G065432	G065541	
G065212	G065432	G065541	
G065360	G065432	G065551	
G080147	G070019	G080582	
G080195	G082528	G080585	
G080200	G082527	G080582	
G080490	G082527	G080582	
G090022	G090225	G090245	G100297
G090024	G090225	G090250	G110206
G090182	G090225	G090245	G100297
G090183	G090225	G090250	G100297
G100035	G100319	G100398	G110206
G100036	G100319	G100395	G100297
G120012		G120417	G110206
G120014		G120415	G110206
G120036		G120415	G110206
G120037		G120417	G110206
G140022		G140523	G130097
G140054		G140523	G130097
G140055		G140526	G130097
G160078		G160679	G150092

Upgrade FWG to FPG or FRG

Older FWG	Upgrade	Style
G042503	G042544	FPG
G042529	G042544	FPG
G052510	G057511	FPG
G052512	G057511	FPG
G065266	G070017	FPG
G080023	G082528	FPG
G080026	G082528	FPG
G120365	G100297	FRG
G100003	G100297	FRG
G100004	G100297	FRG
G120059	G110206	FRG
G120063	G110206	FRG
G140077	G130097	FRG
G140083	G130097	FRG
G160104	G150092	FRG
G160107	G150092	FRG

Upgrade FVG to FRG

Older FVG	Upgrade	Style
G140195	G150092	FRG
G160376	G150092	FRG
G160587	G180031	FRG

Smaller, Lightweight Alternative Two-Stage Air Cleaner Designed for horizontal installation

The FKB series is a family of two-stage air cleaners for medium dust conditions.

Compared to other air cleaner styles, this new air cleaner family delivers the performance of competitive larger air cleaners in a compact, rugged design.

With heavy-duty plastic construction and non-metal filters, the air cleaner is lighter, more efficient and easier to install and replace than competing products.

Another key design feature is the built-in mounting brackets. There's no need for additional mounting support.

The two stage design features a built-in pre-cleaner that separates up to 85% of airborne contaminants.



FKB air cleaners are smaller in diameter compared to competitive brands with similar airflow.

The FKB's plastic housing and durable construction enables installation in all types of operating environments and temperature ranges from -40° to 82°C, operating in medium-dust conditions with engine air flow from 70 to 207 cfm (2 to 5.9 m3/min).

FKB air cleaners effectively reduce contaminants flowing into the air intake system, provide a high level of engine protection from harmful contaminants and increase engine performance and fuel efficiency.

The air cleaner models ship with both the primary and safety filters.



Donaldson FKB air cleaners are protected internationally by patents, trademarks, and design registrations, both issued and pending.

MEDIUM DUST

Built-in Mounting Brackets and Filter Indicator Port Easy to service with non-metal filters

Applications

- Off-road equipment operating in medium-dust conditions with engine airflow range of 70 to 207 cfm (2 to 5.9 m³/min)
- Installs horizontally. Mounting the air cleaner directly to the engine is not recommended; excessive engine vibration can cause premature air cleaner structural failure
- Sustained temperature tolerance: -40° to 180°F / -40° to 82°C. Do not install next to components that exceed the maximum temperature (180°F / 82°C); like a turbocharger, muffler, exhaust pipe or other high temperature component

Air Cleaner Features

- Smaller in diameter compared to competitive brands with similar airflow
- Improved handling and maintenance: lighter and smaller, changing filters is a snap
- Product design includes:
 - primary filter
 - safety filter
 - filter service indicator port
- Improved filter disposal ease: no metal
- Cover latch position allows for minimum service clearance and eases filter service
- Mounting brackets built-in to air cleaner body eliminating need for mounting bands



Filter changeout is a snap with minimal service clearance required

MEDIUM DUST



Unique Twist & Lock Filter ensure proper positioning during filter service. Air cleaners assemblies include primary and safety filters.

When spec'ing an Air Cleaner . . .

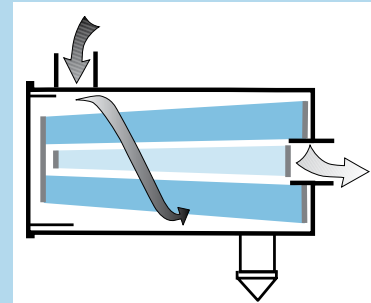
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

Initial Airflow Restriction

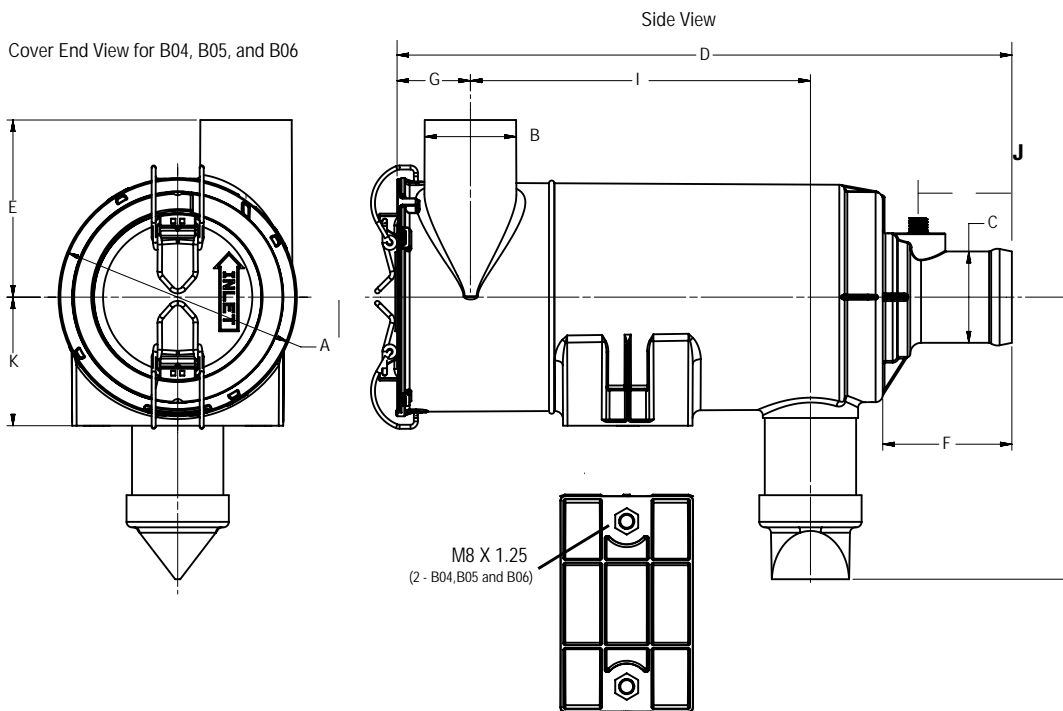
6" H ₂ O	CFM	8" H ₂ O	10" H ₂ O	Air Cleaner Model
70	84	95		B045008
116	137	154		B055006
155	185	207		B065045

Airflow Pattern "B"

Air in the side, out the end



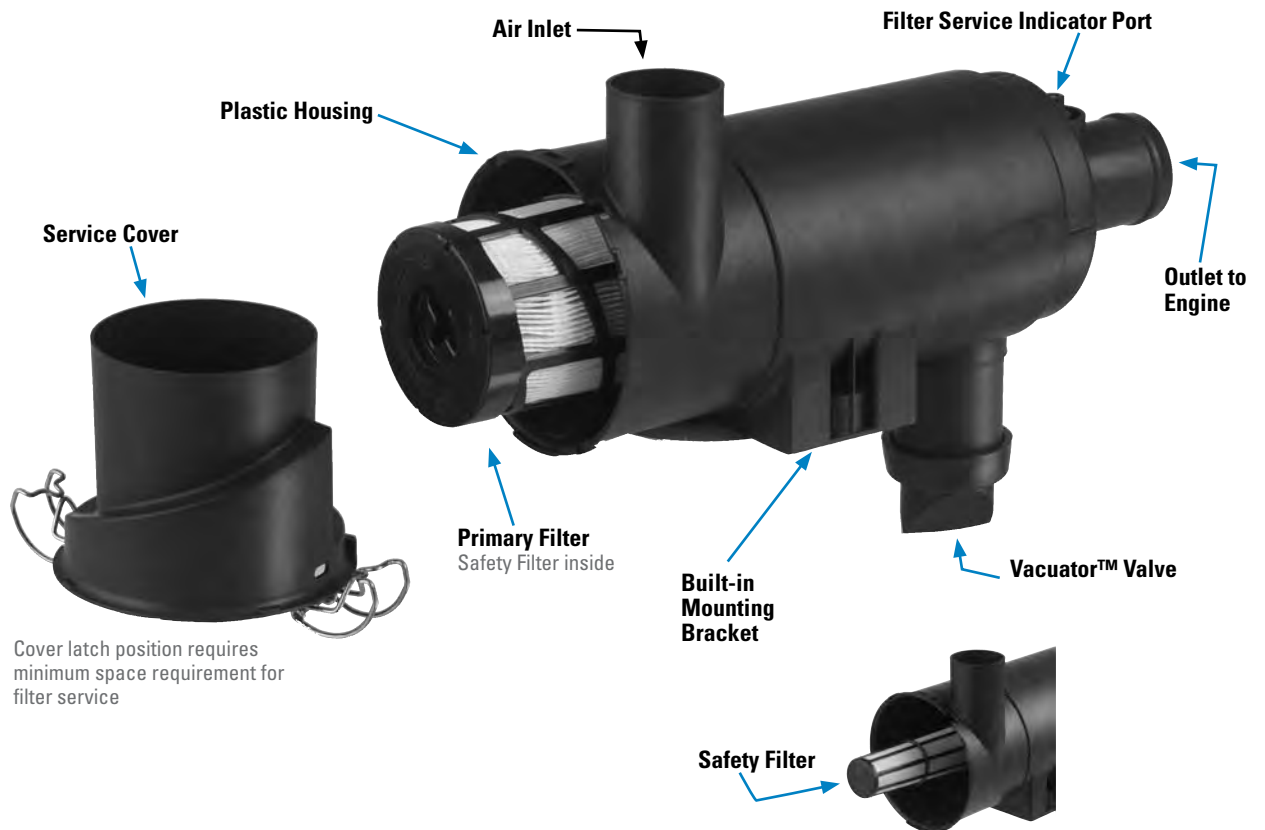
FKB Specification Illustrations



FKB Specifications

Air Cleaner Models	Body Dia. (A)	Inlet Dia. (B)	Outlet Dia. (C)	Housing Length (D)	Inlet Height (E)	Outlet Length (F)	Inlet Location (G)	Center Line to Valve (H)	Service Clear. (I)	Weight	Restr. Tap Loc. (J)	Mounting Bracket Height (K)
B045008	5.22" 133mm	2.00" 51mm	2.00" 51mm	13.46" 342mm	3.88" 99mm	2.83" 72mm	1.60" 41mm	6.18" 157mm	7.44" 189mm	2.1 lb 1.0 kg	2.02" 52mm	2.82" 72mm
B055006	5.97" 152mm	2.50" 64mm	2.50" 64mm	15.89" 404mm	3.88" 99mm	2.88" 73mm	1.93" 49mm	6.18" 157mm	9.61" 244mm	3.2 lb 1.4 kg	2.05" 52mm	3.03" 77mm
B065045	7.09" 180mm	3.00" 76mm	3.00" 76mm	16.06" 408mm	4.72" 120mm	2.87" 73mm	2.07" 53mm	7.41" 188mm	9.50" 241mm	3.7 lb 1.7 kg	2.05" 52mm	3.54" 90mm

MEDIUM DUST



MEDIUM DUST

FKB Service Parts

B045008

cover	P606497
filter, primary.....	P604457
filter, safety.....	P603729
Vacuator™ Valve.....	P158914

B055006

cover	P609219
filter, primary.....	P609218
filter, safety.....	P602427
Vacuator™ Valve.....	P158914

B065045

cover	P608592
filter, primary.....	P609221
filter, safety.....	P608599
Vacuator™ Valve.....	P158914

Installation Recommendations

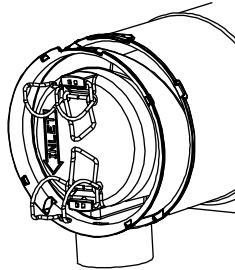
- Shut off your engine.
- Air cleaner orientation is horizontal, with the drop tube pointing down - within +/- 15°. For service clearance, allow the entire length of the filter for removal and 35mm for service cover latches.
- Mounting is M8 x 1.25, with a maximum torque of 15 ft. lbs.
- Connections: Inlet/Outlet maximum torque 40 in. lbs. Indicator port maximum torque 1.5 ft. lbs.
- Inlet accessory note: The air cleaner housing can accommodate a lightweight inlet hood, but not a pre-cleaner or any other accessory. Use of an unapproved intake accessory will void your Donaldson warranty.

Service Instructions

1 Shut off your engine

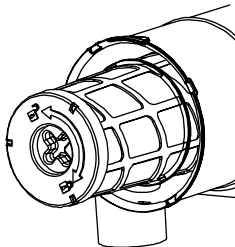
2 Remove service cover

Unlatch and remove the service cover. To remove the primary filter, press and rotate filter counterclockwise until filter is free.



3 Remove the filter

Gently pull the filter out of housing. Avoid dislodging contaminant from the filter or knocking it against the housing.

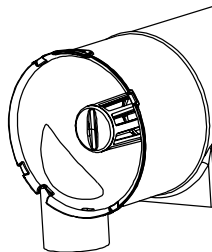


4 Clean the inside surface

With a soft rag, thoroughly clean the inside surface of the housing. Be careful not to introduce contaminant into the outlet tube.

5 Check the safety filter

Check safety filter for damage. If damaged, replace. Also check to insure that the safety filter is properly seated in the housing. It should fit snugly inside the outlet tube.



6 Inspect the new primary filter

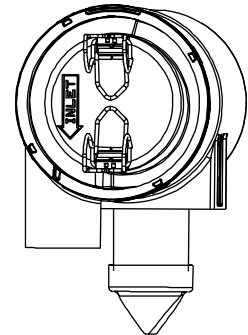
Inspect the new primary filter carefully. Check for any voids, cuts, tears or indentations in the urethane-sealing surfaces.

7 Install the new filter

Install new filter by pressing and rotating the filter clockwise until fully engaged to stop.

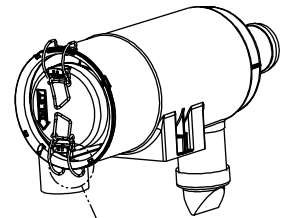
8 Replace the cover

Replace the service cover. The "INLET" arrow should line up with the air cleaner inlet. DO NOT force cover onto air cleaner. The cover should go on with no extra force. If cover is not flush to the body, the filter is not properly seated in the housing.



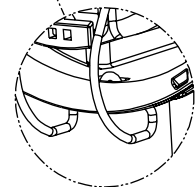
9 Refasten the latches

Refasten latches to secure cover. Make sure that latches penetrate the slots in both the body and the cover.



10 Inspect

Inspect and torque all clamps, bolts and connections in the entire air intake system. Check for holes in piping, and repair if needed. If Vacuator Valve is damaged replace.



11 Restart the engine

Compact, Radial Seal, Medium-Duty Air Cleaner
Designed for horizontal installation



MEDIUM DUST

Donaldson XRB air cleaners are protected internationally by patents, trademarks, and design registrations, both issued and pending.

Compared to other air cleaner styles, this new air cleaner family is smaller in size compared to competitive models with similar airflow operating ranges.

XRB air cleaners effectively reduce contaminants flowing into the air intake system, provide a high level of engine protection from harmful contaminants and increase engine performance and fuel efficiency.

The XRB's plastic housing and durable construction enables installation in all types of operating environments and temperature ranges from -40° to 82°C, operating in medium-dust conditions with engine airflow from 265 to 630 cfm.

The B080080 has non-metal primary and safety filters. The primary filters for the B100127 and B120420 have metal outer liners. The air cleaner models ship with both the primary and safety filters.

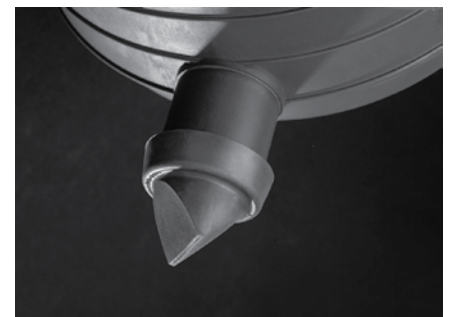
Like our FKB and PSD models, these air cleaners feature built-in mounting brackets. There's no need for additional mounting support.



Mounting brackets built-in to air cleaner body eliminating need for mounting bands



Cover latch position allows for minimum service clearance and eases filter service



Air cleaners are equipped with the Donaldson Vacuator Valve.

Built-in Mounting Brackets and Filter Indicator Port

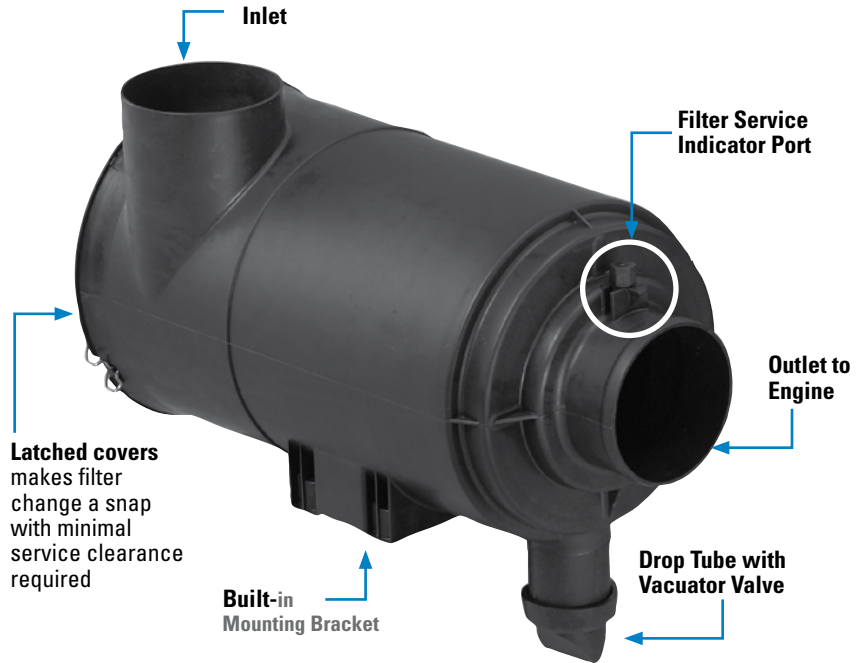
Easy to service with non-metal filters

Applications

- Off-road equipment operating in medium-dust conditions with engine airflow range of 255 to 630 cfm (7.5 to 17.8 m³/min)
- Installs horizontally. Mounting the air cleaner directly to the engine is not recommended; excessive engine vibration can cause premature air cleaner structural failure
- Sustained temperature tolerance: -40° to 180°F / -40° to 82°C. Do not install next to components that exceed the maximum temperature (180°F / 82°C); like a turbocharger, muffler, exhaust pipe or other high temperature component

Air Cleaner Features

- Smaller in diameter compared to competitive brands with similar airflow
- Improved handling and maintenance: lighter and smaller, changing filters is a snap
- Product design includes:
 - primary filter
 - safety filter
 - filter service indicator port
- Cover latch position allows for minimum service clearance and eases filter service
- Mounting brackets built-in to air cleaner body eliminating need for mounting bands



Primary and safety filters for XRB housings.

Installation Recommendations

- Air cleaner orientation is horizontal, with the drop tube pointing down - within +/- 15°. For service clearance, allow the entire length of the filter for removal and 1.38" (35mm) for service cover latches.
- Mounting is M8 x 1.25, with a maximum torque of 15 ft. lbs.
- Connections: Inlet/Outlet maximum torque 40 in. lbs.
- Inlet accessory note: The air cleaner housing can accommodate a lightweight inlet hood, but not a pre-cleaner or any other accessory. Use of an unapproved intake accessory will void your Donaldson warranty.
- Filter Service Indicator port arrives with plug/cap. Order filter service indicator separately. See accessories section. Indicator port maximum torque 1.5 ft. lbs.

When spec'ing an Air Cleaner . . .

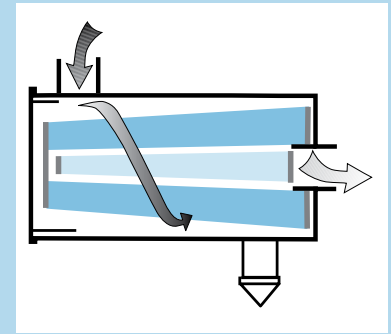
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

Initial Airflow Restriction

Air Cleaner Model	CFM @ H ₂ O		
	6"	8"	10"
B080080	265	315	360
B100127	330	405	475
B120470	475	555	630

Airflow Pattern "B"

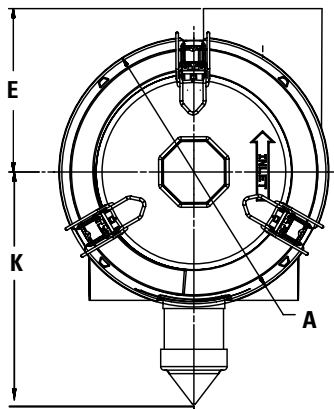
Air in the side, out the end



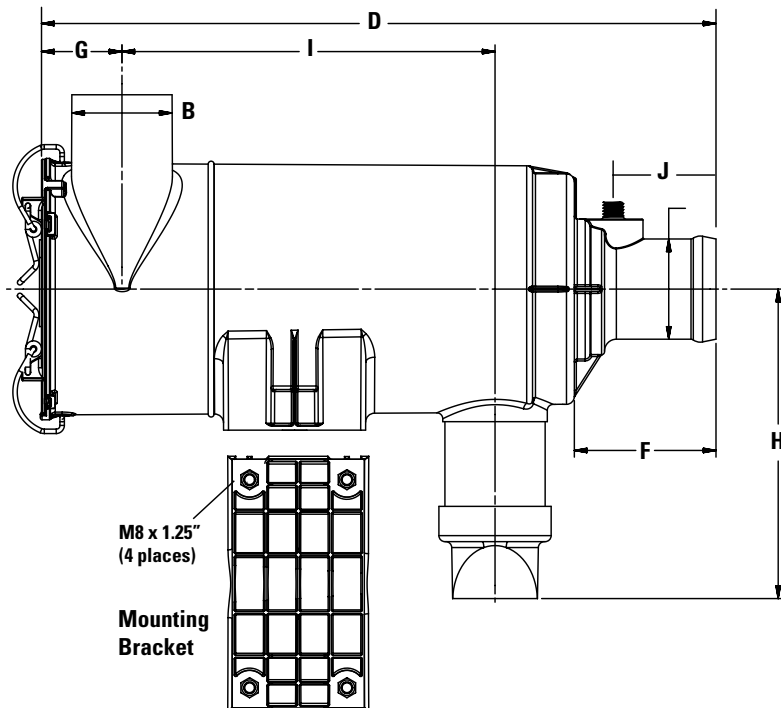
MEDIUM DUST

XRB Specification Illustration

Cover / End View



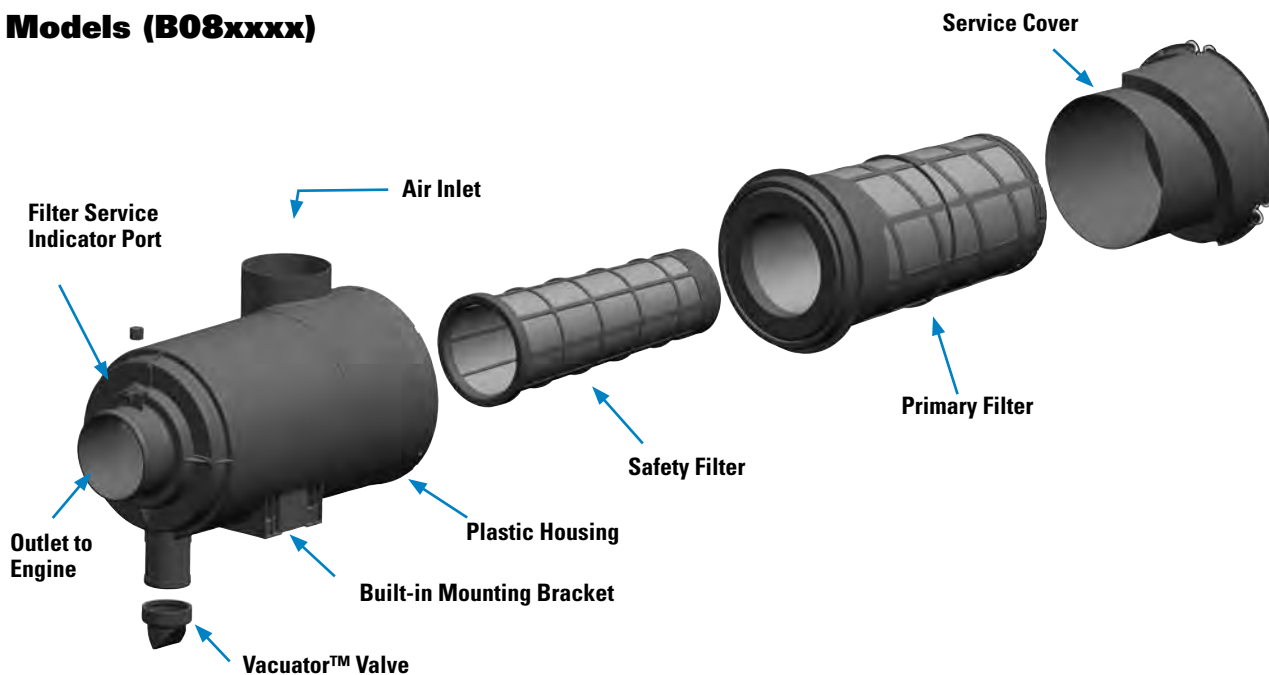
Side View



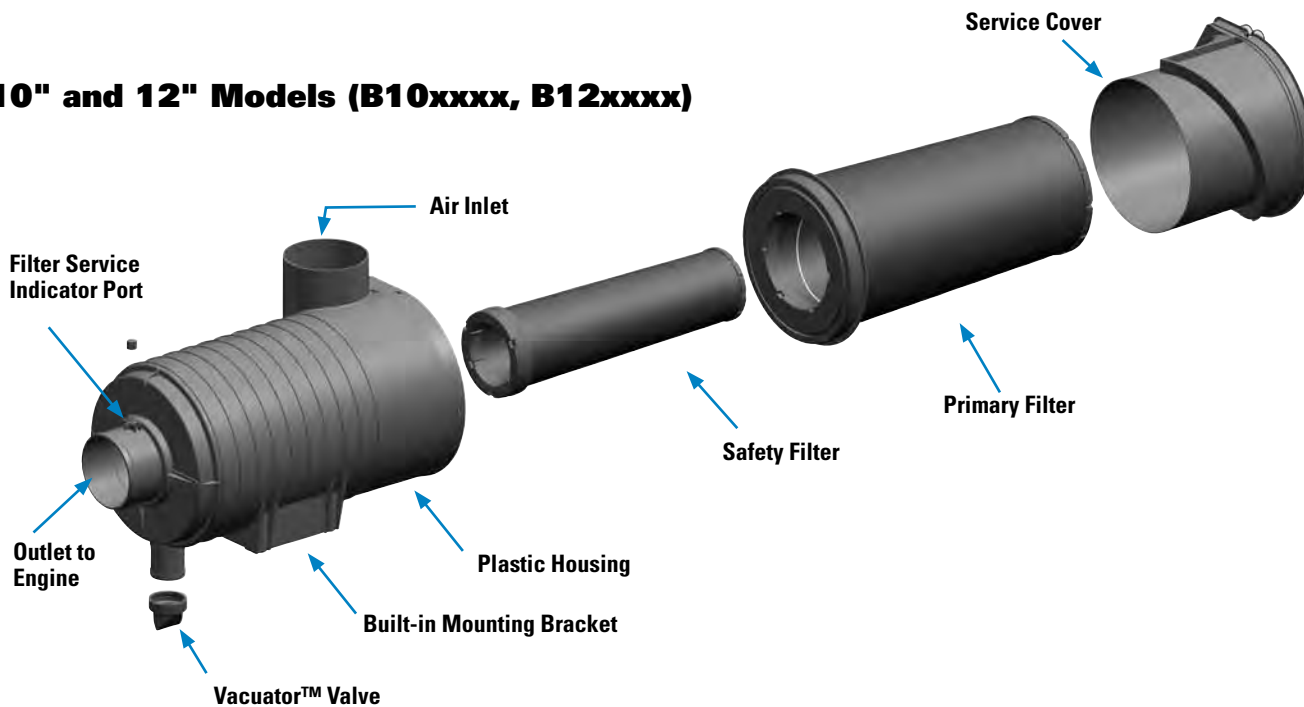
XRB Specifications

Air Cleaner Models	Body Dia. (A)	Inlet Dia. (B)	Outlet Dia. (C)	Housing Length (D)	Inlet Height (E)	Outlet Length (F)	Inlet Location (G)	Center Line to Valve (H)	Service Clear. (I)	Weight	Restr. Tap Loc. (J)	Mounting Bracket Height (K)
B080080	9.11" 231.3mm	4.00" 102mm	4.00" 102mm	16.75" 425mm	5.50" 140mm	2.40" 61mm	3.14" 80mm	7.78" 198mm	14.76" 375mm	5.52lb 2.5kg	1.57" 40mm	4.33" 110mm
B100127	11.31" 287mm	5.00" 127mm	4.50" 114mm	22.25" 565mm	7.80" 198mm	2.82" 72mm	3.47" 88mm	8.85" 225mm	19.41" 493mm	13.00lb 5.95kg	1.97" 50mm	5.71" 145mm
B120470	13.00" 330mm	6.00" 152mm	5.00" 128mm	23.68" 601mm	8.58" 218mm	2.81" 71mm	3.95" 100mm	9.63" 245mm	20.71" 526mm	20.00lb 9.07kg	1.97" 50mm	6.50" 165mm

8" Models (B08xxxx)



10" and 12" Models (B10xxxx, B12xxxx)



Service Parts

B080080

cover	P605731
filter, primary (non metal).....	P611190
filter, safety.....	P611189
Vacuator™ Valve.....	P158914

B100127

cover	P609942
filter, primary (metal liner)	P611539
filter, safety.....	P611540
Vacuator™ Valve.....	P158914

B120470

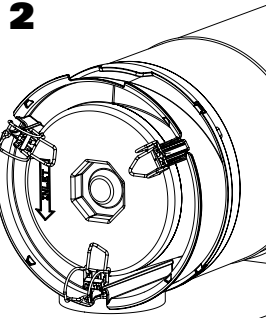
cover	P608117
filter, primary (metal liner)	P608116
filter, safety.....	P608391
Vacuator™ Valve.....	P158914

MEDIUM DUST

1 Shut off your engine

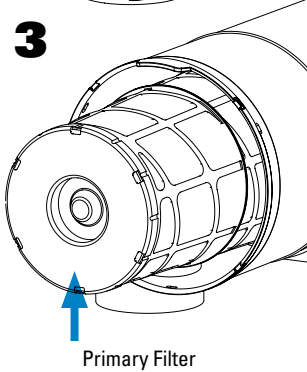
2 Unlatch and remove service cover

Unlatch and remove the service cover to access the primary filter. Gently move the end of the filter back and forth to break the seal.



3 Remove the filter

The primary filter makes such a tight seal, that you will encounter some initial resistance when trying to remove it. To break the seal, grab the end of the filter and gently move the filter back and forth and pull it out of the housing.



APPLICATION NOTE

APPLICATION NOTE! Avoid dislodging contaminant from the filter or knocking it against the housing.

4 Clean the inside surface

Using a soft rag, remove all the dust and debris from the inside surface of the housing. Be careful not to introduce contaminant into the outlet tube.

APPLICATION NOTE

APPLICATION NOTE! Failure to do so may cause contaminant to be introduced to the seal area of the primary filter during reinstallation, causing a leak. Leaks result in higher restriction on the safety filter and shorter filter life.

5 Check the safety filter. Replace every third primary filter change

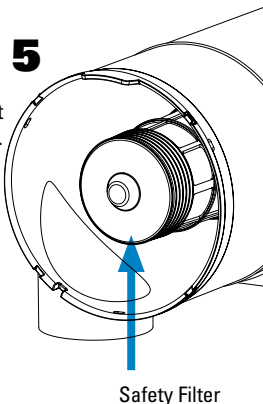
The safety filter should be changed every third primary filter change out.

APPLICATION NOTE

APPLICATION NOTE! If the safety is not installed properly, it may attach itself to the primary filter upon removal.

Dust from the primary filter may be evident on the safety filter. This is normal. At each 1st and 2nd primary filter change, check safety filter for damage. If damaged, replace.

Also check to ensure the safety filter is properly seated in the housing. It should fit snugly inside the outlet tube. Continue pushing the filter into the outlet tube until it stops.



6 Inspect the new primary filter

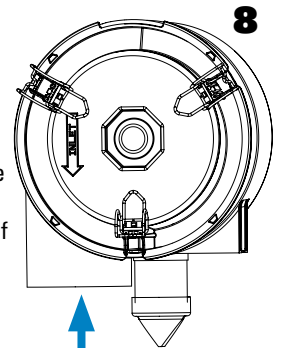
Before installing a new primary or safety filter, inspect it carefully. Visually check for any voids, cuts, tears or indentations in the urethane-sealing surface. If your check reveals damage, do NOT install the filter.

7 Install the new filter

The critical sealing area will compress slightly, adjust itself and distribute the sealing pressure evenly. To complete a tight seal, apply pressure by hand at the outer rim of the filter, not the center.

8 Replace the cover & refasten the latches

Replace the service cover. The "INLET" arrow should line up with the air cleaner inlet. DO NOT force cover onto air cleaner. The cover should go on with no extra force. If cover is not flush to the body, the filter is not properly seated in the housing.

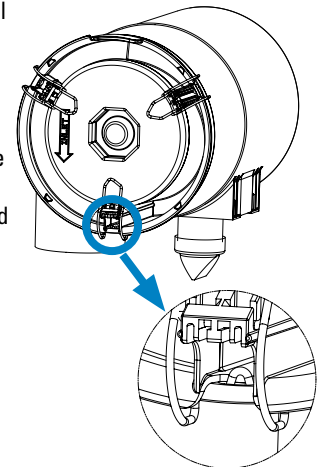


APPLICATION NOTE

APPLICATION NOTE! Never use the service cover to push the filter into place! Using the cover to push the filter could cause damage to the housing and will void the warranty.

The "INLET" arrow should line up with the air cleaner inlet.

If the service cover hits the filter before it is fully in place, remove the cover and push the filter further into the housing and try again. The cover should go on with no extra force.



Refasten latches to secure cover. Make sure that latches penetrate the slots in both the body and the cover.

9 Inspect the intake system

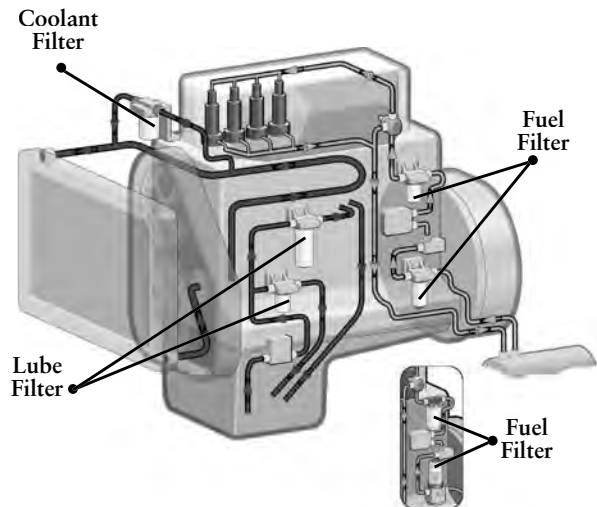
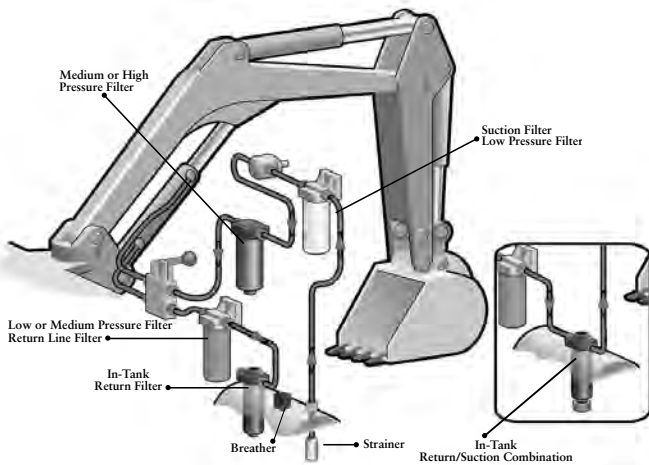
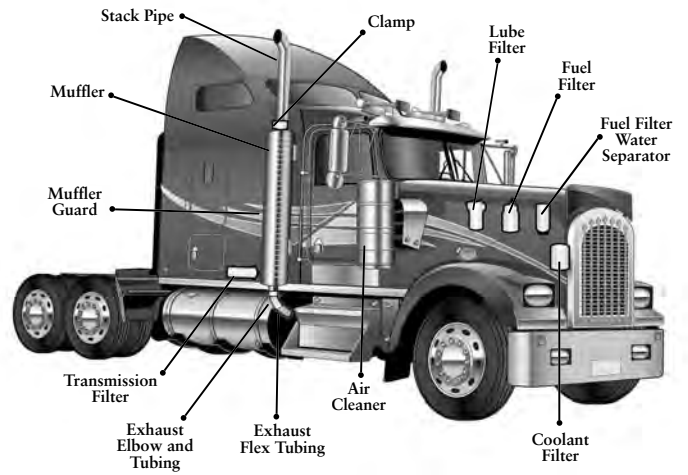
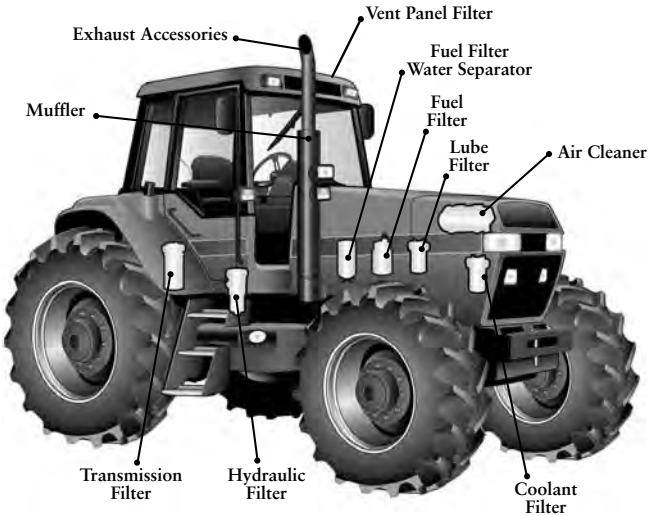
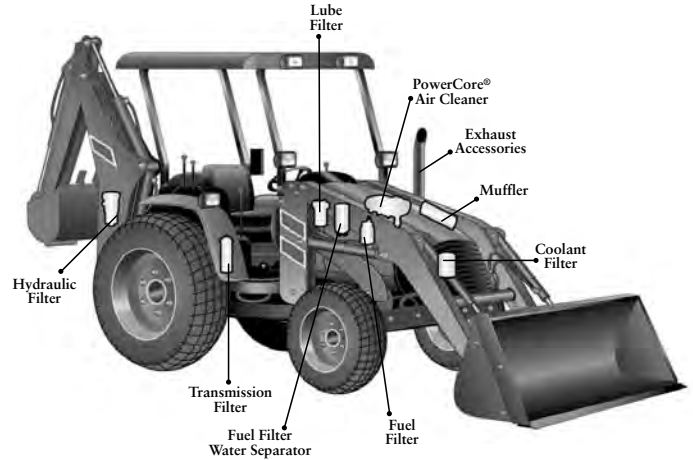
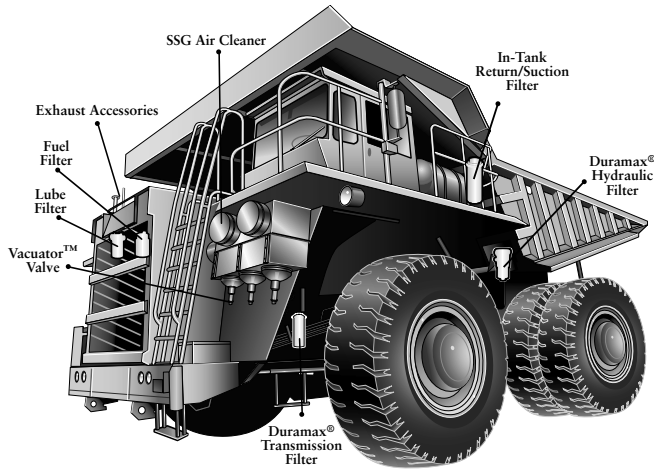
Inspect and torque all clamps, bolts and connections in the entire air intake system. Check for holes in piping, and repair if needed. If the Vacuator™ Valve is damaged, replace.

10 Restart your engine

Recommended Primary Filter Change Interval

Change the primary filter when the restriction level reaches your vehicle/engine manufacturer recommendation.

MEDIUM DUST



Advanced Sealing Technology in Compact Two-Stage Design For the Most Reliable Engine Protection

The FPG Air Cleaner series is a two-stage engine air cleaner operating in medium to heavy dust conditions. The FPG series offers improved reliability and durability with reduced weight and costs.

Ever since Donaldson developed the first air cleaner in 1915, we have worked closely with original equipment manufacturers to provide filtration solutions to meet changing design and specification requirements for diesel engines.

Because they are made of injection molded high-strength plastic, FPG air cleaners offer the flexibility to overcome space limitations for underhood air cleaners. Donaldson employs innovative plastic materials and production techniques that result in air cleaners that are corrosion-free and lighter in weight than traditional metal air cleaners – yet without sacrificing sturdiness. Our extensive vibration testing reveals this to be a more durable design than most metal air cleaners.

The filter inside the air cleaner is also quite different from the traditional design: one-piece molded urethane endcaps encase the ends of the media and filter liners, eliminating the metal caps and plastisol potting compound that were traditionally used. The glued-on gasket found on conventional filters is gone – now, the inside surface of the open end is actually the radial seal sealing surface.



Despite its compact size, the FPG Air Cleaner offers complete engine air protection – removing 99.99+% of the dust and dirt particulate that enters the engine airstream.



FPG Air Cleaners, with Radial Seal Sealing Technology, provide thorough two-stage cleaning of incoming engine air on industrial and construction vehicles operating in medium to heavy dust environments.

Small, Durable and Corrosion-Free The Easiest Air Cleaner to Service!

Applications

- Provides up to 346 cfm airflow per air cleaner – double throughput by using two units
- Installation can be horizontal, vertical, or even at an angle (as long as Vacuator™ Valve points down)
- 4", 5", 6", 7", 8", 9" & 10" diameter sizes
- Temperature tolerance: 180°F / 83°C sustained (Do not install next to turbocharger, muffler, exhaust pipes, or other high-temp component.)

Ideal for

- Compressors & generator sets
- Construction & in-plant vehicles
- On/Off-Highway vehicles
- Marine & offshore equipment

Air Cleaner Features

- Easy to service! No tools needed! Usually done in 5 minutes or less!
- Durable plastic housing – corrosion-free and lightweight
- Two-stage air filtration! Built-in, tangential pre-cleaner ahead of primary filter removes up to 85% of incoming dust
- Choose 90° or straight outlet to fit your application
- Easy to fasten latches (no bolts!) retain dust cup/cover
- 45° Vacuator™ Valve orientation permits either vertical or horizontal air cleaner mounting (the dust cup can be incrementally rotated to suit specific application)
- Four models have twist-off cover design
- Safety filter protects engine during in-field filter changeouts
- Already tapped to accept filter service indicator (see the Accessories section for indicator options)



Filter Features

- Exclusive Radial Seal Sealing Technology means reliability and easy service – the filter is self-centering and self-aligning!
- One piece, molded urethane endcaps encase the filter media and liners – reducing components, adding reliability and lowering cost



Four models are available with the twist-off cover design

MEDIUM DUST

Mounting Bands Designed Exclusively for the FPG Series

Polymer Mounting Band

The one-piece, high tech polymer mounting band will securely hold the housing in position. The band has tabs on the inside circumference which fit exactly into notches on the FPG housing.

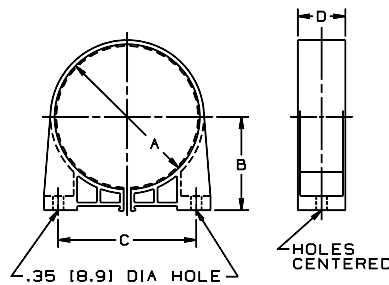
The band tightens around the air cleaner when the base of the band is bolted to a support, providing a fixed, stable mounting – even in high vibration applications.

Donaldson polymer bands are completely non-corrosive, lightweight, easy to install, and economical.

Application Note:

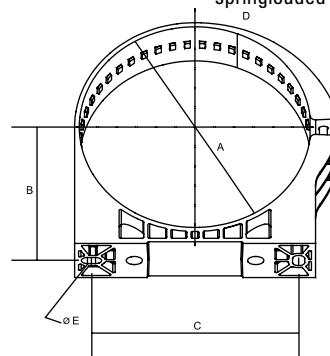
To accommodate even hard-to-fit applications, polymer bands allow the air cleaner housings to be rotated and positioned at various increments, depending upon the size:

Housing Diameter	Increment
4.80" (122mm)	11°
5.75" (146mm)	10°
6.74" (171mm)	7.5°
7.19" (183mm)	7°
8.35" (212mm)	5°



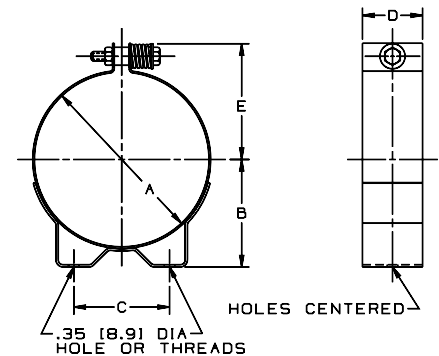
For G04 and G05 FPG Air Cleaners.

Bands for G06-G10 FPG Air Cleaners with springloaded screws



Metal Mounting Band

The metal mounting band has a spring-loaded bolt at the top to maintain a constant hold on the housing throughout high and low temperature extremes.



WARNING: Do not use any other mounting bands or straps with FPG air cleaners. Use of an unapproved mounting band voids warranty.

FPG Mounting Bands (Order one band per FPG air cleaner)

Part Number	A		B		C		D		E	Weight		Maximum Belt Torque		
	in	mm	in	mm	in	mm	in	mm		lbs	kgms	lbs.-ft.	N•m	
POLYMER BANDS														
P777151	4.80	122	3.09	79	4.56	116	1.57	40	n/a	0.26	118	11 lbs.-ft.	14.8 N•m	
P777730	5.75	146	3.52	90	5.35	136	1.99	51	n/a	0.37	167	11 lbs.-ft.	14.8 N•m	
P778810	6.79	173	3.94	100	6.00	154	1.99	51	n/a	0.40	182	11 lbs.-ft.	14.8 N•m	
P777731	7.17	182	4.11	105	6.50	165	1.99	51	n/a	0.45	206	11 lbs.-ft.	14.8 N•m	
P777732	8.35	212	4.70	120	7.48	190	1.99	51	n/a	0.56	253	11 lbs.-ft.	14.8 N•m	
P780532 ¹	9.48	241	5.47	136	5.63	143	1.99	51	n/a					
P780594 ¹	10.55	268	5.90	150	5.63	143	3.15	80	n/a					
METAL BANDS														
H008442	4.80	122	3.07	78	2.76	70	1.57	40	3.34	85	0.70	317	12 lbs.-ft.	16.2 N•m
H008443	5.75	146	3.54	90	3.15	80	1.99	51	3.83	97	1.30	590	12 lbs.-ft.	16.2 N•m
H0084412	6.79	173	3.94	100	3.54	90	1.99	51	4.35	111	1.40	635	12 lbs.-ft.	16.2 N•m
H008444	6.79	173	3.94	100	3.54	90	1.99	51	4.35	111	1.40	635	12 lbs.-ft.	16.2 N•m
H002070	7.19	183	4.09	104	3.74	95	1.99	51	4.55	116	1.50	680	12 lbs.-ft.	16.2 N•m
H002023	8.13	207	4.72	120	4.33	110	1.99	51	5.14	131	1.60	726	12 lbs.-ft.	16.2 N•m

1 - Mounting bands (with spring-loaded screws) for FPG09 and FPG10 models with twist-off cover
 2 - Model H008441 has 8mm threads

When spec'ing an Air Cleaner . . .

Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

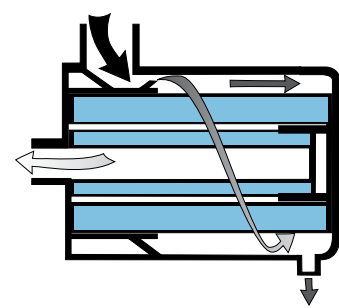
Initial Airflow Restriction

Airflow CFM @			Air Cleaner Model	
6"H ₂ O	8"H ₂ O	10"H ₂ O	90°	Straight
MODELS WITH PRIMARY FILTER ONLY				
55	65	70	G042545	G042544
80	95	105	G057514	G057513
120	135	155	G065433	G065432
150	170	190	G070020	G070019
205	245	275	G082528	G082527
MODELS WITH PRIMARY & SAFETY FILTER				
65	80	90	G057512	G057511
110	125	145	G065411	G065424
125	145	165	G070018	G070017
165	190	215	G082526	G082525
247	282	314	G100317 ¹	
259	297	328	G100319 ¹	
265	300	335	G090225 ¹	
256	317	346	G090219 ¹	

1 - Models with twist-off cover design (no latches)

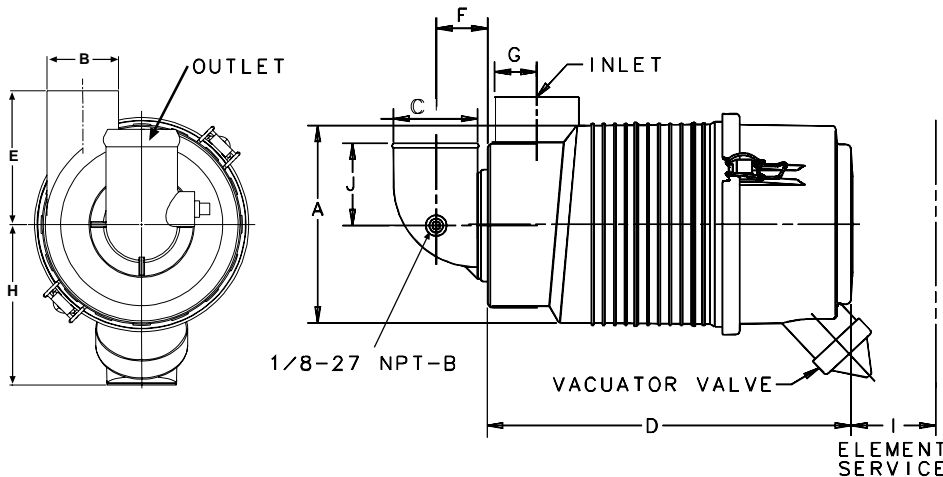
Airflow Pattern "G"

Air in the side, out the end

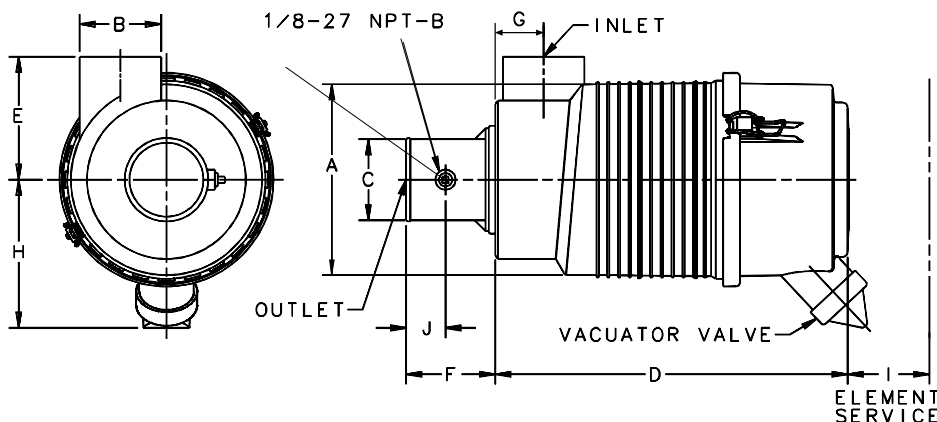


FPG Specification Illustrations

90° Elbow Outlet Model



Straight Outlet Tube Model



Application Notes

1) Safety filters: All FPG models can accept safety filters. This table shows which air cleaner models are shipped with a safety filter installed. If you want to add a safety filter to an existing model that did not originally have one, order the safety filter listed in the Service Parts table on page 34.

2) Mounting band specifications and ordering information are on next page.

3) Inlet Hoods: A plastic inlet stack up to 18" (457mm) tall may be added, supporting a plastic inlet hood. See the Accessories section for information on optional inlet hoods and filter service indicators. Warning: Do not add a pre-cleaner or any intake accessory other than a lightweight inlet hood. Use of unapproved intake accessories will void your Donaldson warranty.

4) Service Indicators. See the Accessories section for information on filter service indicators.

MEDIUM DUST

FPG Specifications

Air Cleaner Models	with Safety Filter?	Body Dia. (A)	Inlet Dia. (B)	Outlet Dia. (C)	Housing Length (D)	Inlet Height (E)	Outlet Length (F)	Inlet Location (G)	Center Line to Valve(H)	Service Clear. (I)	Weight lbs kg	Restr. Tap Loc. (J)
MODELS WITH 90° ELBOW OUTLET TUBE												
G042545	no	4.80" 122mm	1.75" 44mm	1.75" 44mm	7.45" 189mm	3.27" 83mm	1.23" 31mm	1.48" 38mm	3.96" 101mm	5.39" 137mm	1.3 lbs 0.6 kg	1.94" 48mm
G057512	yes	5.75" 146mm	2.00" 51mm	2.00" 51mm	10.87" 276mm	3.82" 97mm	1.36" 35mm	1.65" 42mm	4.66" 118mm	10.68" 271mm	2.5 lbs 1.1 kg	2.60" 66mm
G057514	no	5.75" 146mm	2.00" 51mm	2.00" 51mm	10.87" 276mm	3.82" 97mm	1.36" 35mm	1.65" 42mm	4.66" 118mm	7.95" 202mm	2.2 lbs 1.0 kg	2.60" 66mm
G065411	yes	6.74" 171mm	2.50" 64mm	2.50" 64mm	12.61" 320mm	4.41" 112mm	1.60" 41mm	1.70" 43mm	5.35" 136mm	12.24" 311mm	3.9 lbs 1.8 kg	3.06" 78mm
G065433	no	6.74" 171mm	2.50" 64mm	2.50" 64mm	12.61" 320mm	4.41" 112mm	1.60" 41mm	1.70" 43mm	5.35" 136mm	8.50" 216mm	3.5 lbs 1.6 kg	3.06" 78mm
G070018	yes	7.19" 183mm	3.00" 76mm	3.00" 76mm	13.09" 332mm	4.88" 124mm	1.88" 48mm	1.72" 44mm	5.45" 137mm	12.50" 318mm	4.3 lbs 1.9 kg	3.62" 92mm
G070020	no	7.19" 183mm	3.00" 76mm	3.00" 76mm	13.09" 332mm	4.88" 124mm	1.88" 48mm	1.72" 44mm	5.45" 137mm	8.87" 225mm	3.8 lbs 1.7 kg	3.62" 92mm
G082526	yes	8.35" 212mm	3.75" 95mm	3.50" 89mm	14.23" 361mm	5.43" 138mm	2.11" 54mm	2.11" 54mm	6.01" 153mm	13.91" 353mm	5.8 lbs 2.6 kg	4.13" 105mm
G082528	no	8.35" 212mm	3.75" 95mm	3.50" 89mm	14.23" 361mm	5.43" 138mm	2.11" 54mm	2.10" 53mm	6.01" 153mm	9.57" 243mm	5.2 lbs 2.3 kg	4.13" 105mm
G090219 ¹	yes	9.53" 242mm	4.50" 114mm	3.50" 89mm	15.75" 400mm	6.69" 170mm	2.11" 54mm	2.42" 62mm	10.44" 260mm	12.79" 325mm	8.8 lbs 4.0 kg	4.13" 105mm
G100317 ¹	yes	10.55" 268mm	4.50" 114mm	4.00" 102mm	16.85" 428mm	7.28" 185mm	2.37" 60mm	2.85" 73mm	10.60" 269mm	13.98" 355mm	11.1 lbs 5.1 kg	4.72" 120mm
MODELS WITH STRAIGHT OUTLET TUBE												
G042544	no	4.80" 122mm	1.75" 44mm	1.75" 44mm	7.45" 189mm	3.27" 83mm	3.24" 82mm	1.48" 38mm	3.96" 101mm	5.39" 137mm	1.3 lbs 0.6 kg	1.88" 48mm
G057511	yes	5.75" 146mm	2.00" 51mm	2.00" 51mm	10.87" 276mm	3.82" 97mm	3.25" 83mm	1.65" 42mm	4.66" 118mm	10.68" 271mm	2.5 lbs 1.1 kg	1.88" 48mm
G057513	no	5.75" 146mm	2.00" 51mm	2.00" 51mm	10.87" 276mm	3.82" 97mm	3.25" 83mm	1.65" 42mm	4.66" 118mm	7.95" 202mm	2.2 lbs 1.0 kg	1.88" 48mm
G065424	yes	6.74" 171mm	2.50" 64mm	2.50" 64mm	12.61" 320mm	4.41" 112mm	3.23" 82mm	1.70" 43mm	5.35" 136mm	12.24" 311mm	3.9 lbs 1.8 kg	1.63" 41mm
G065432	no	6.74" 171mm	2.50" 64mm	2.50" 64mm	12.61" 320mm	4.41" 112mm	3.23" 82mm	1.70" 43mm	5.35" 136mm	8.48" 216mm	3.5 lbs 1.6 kg	1.63" 41mm
G070017	yes	7.19" 183mm	3.00" 76mm	3.00" 76mm	13.09" 332mm	4.88" 124mm	3.26" 83mm	1.72" 44mm	5.45" 138mm	12.50" 318mm	4.3 lbs 1.9 kg	1.88" 48mm
G070019	no	7.19" 183mm	3.00" 76mm	3.00" 76mm	13.09" 332mm	4.88" 124mm	3.26" 83mm	1.72" 44mm	5.45" 138mm	8.87" 225mm	3.8 lbs 1.7 kg	1.88" 48mm
G082525	yes	8.35" 212mm	3.75" 95mm	3.50" 89mm	14.23" 361mm	5.43" 138mm	3.27" 83mm	2.10" 53mm	6.01" 153mm	13.91" 353mm	5.8 lbs 2.6 kg	1.91" 49mm
G082527	no	8.35" 212mm	3.75" 95mm	3.50" 89mm	14.23" 361mm	5.43" 138mm	3.27" 83mm	2.10" 53mm	6.01" 153mm	9.57" 243mm	5.2 lbs 2.3 kg	1.91" 49mm
G090225 ¹	yes	9.53" 242mm	4.50" 114mm	4.00" 102mm	15.75" 400mm	6.69" 170mm	3.43" 87mm	2.42" 62mm	10.04" 260mm	12.79" 325mm	8.7 lbs 3.9 kg	2.22" 57mm
G100319 ¹	yes	10.55" 268mm	4.50" 114mm	4.00" 102mm	16.85" 428mm	7.28" 185mm	3.45" 88mm	2.85" 73mm	10.60" 269mm	13.98" 355mm	10.9 lbs 4.9 kg	2.22" 57mm

1 - Models with twist-off cover design (no latches)

MEDIUM DUST

FPG Service Parts

G042544 (straight outlet)

G042545 (90° elbow outlet)

cover	P533685	.....8
filter, primary	P822686	.....3
filter, safety	P535396	.....4
latch	P538928	
Vacuator™ Valve	P522958	

G057511 (straight outlet)

G057512 (90° elbow outlet)

cover	P533761	.....8
filter, primary	P821575	.....3
filter, safety	P822858	.....3
latch	P538928	
Vacuator™ Valve	P522958	

G057513 (straight outlet)

G057514 (90° elbow outlet)

cover	P533761	.....8
filter, primary	P821575	.....3
filter, safety	P822858	.....4
latch	P538928	
Vacuator™ Valve	P522958	

G065411 (90° elbow outlet)

G065424 (straight outlet)

cover	P539422	.....8
filter, primary	P822768	.....3
filter, safety	P822769	.....3
latch	P538928	
Vacuator™ Valve	P158914	

G065432 (straight outlet)

G065433 (90° elbow outlet)

cover	P539422	.....8
filter, primary	P822768	.....3
filter, safety	P822769	.....4
latch	P538928	
Vacuator™ Valve	P158914	

G070017 (straight outlet)

G070018 (90° elbow outlet)

cover	P536202	.....8
filter, primary	P827653	.....3
filter, safety	P829332	.....3
latch	P538928	
Vacuator™ Valve	P158914	

G070019 (straight outlet)

G070020 (90° elbow outlet)

cover	P536202	.....8
filter, primary	P827653	.....3
filter, safety	P829332	.....4
latch	P538928	
Vacuator™ Valve	P158914	

G082525 (straight outlet)

G082526 (90° elbow outlet)

cover	P534048	.....8
filter, primary	P828889	.....3
filter, safety	P829333	.....3
latch	P538928	
Vacuator™ Valve	P158914	



G082527 (straight outlet)

G082528 (90° elbow outlet)

cover	P534048	.....8
filter, primary	P828889	.....3
filter, safety	P829333	.....4
latch	P538928	
Vacuator™ Valve	P158914	

G090219* (90° elbow outlet)

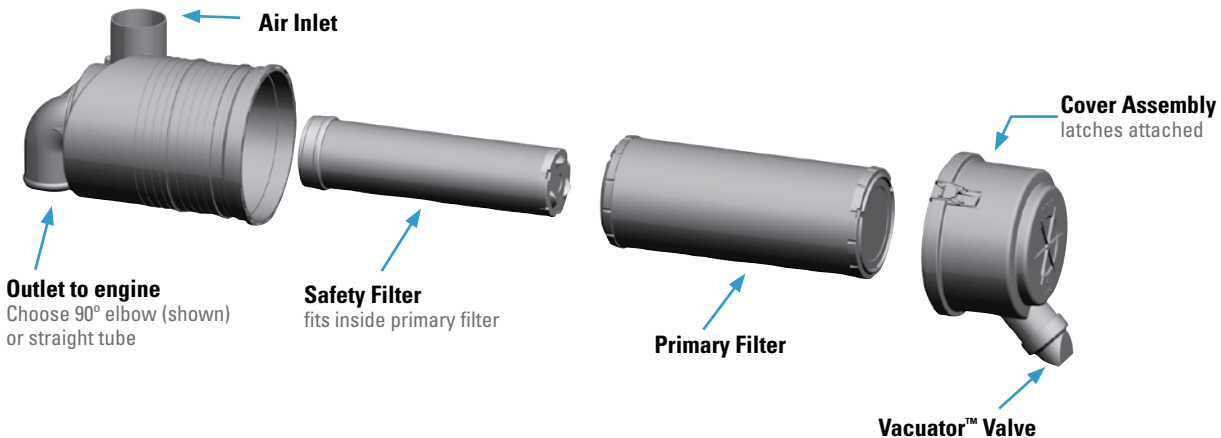
G090225* (straight outlet)

filter, primary	P780522	
filter, safety	P780523	
Vacuator™ Valve	P776008	
cover	P780524	

G100317* (90° elbow outlet)

G100319* (straight outlet)

filter, primary	P781039	
filter, safety	P777639	
Vacuator™ Valve	P776008	
cover	P780578	



NOTES:

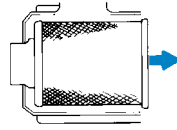
- 3 = Shipped with air cleaner initially
- 4 = Safety filter is designed to fit this air cleaner, but was not originally shipped with it (note that adding a safety filter will decrease the maximum airflow throughput)
- 8 = Cover assembly includes latches but no Vacuator™ Valve
- * = Models with twist off cover design (no latches)

1 Remove the Filter



Rotate the filter while pulling straight out.

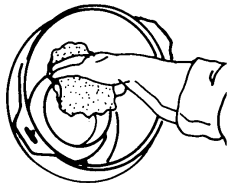
Unfasten or unlatch the service cover. Because the filter fits tightly over the outlet tube to create the critical seal, there will be some initial resistance, similar to breaking the seal on a jar. Gently move the end of the filter back and forth to break the seal then rotate while pulling straight out. Avoid knocking the filter against the housing.



If your air cleaner has a safety filter, replace it every third primary filter change. Remove the safety filter as you would the primary filter. Make sure you cover the air cleaner outlet tube to avoid any unfiltered contaminant dropping into the engine.

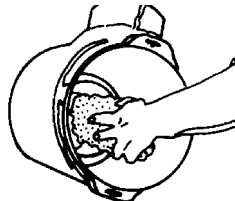
2 Clean Both Surfaces of the Outlet Tube and Check the Vacuator™ Valve

Use a clean cloth to wipe the filter sealing surface and the inside of the outlet tube. Contaminant on the sealing surface could hinder an effective seal and cause leakage. Make sure that all contaminant is removed before the new filter is inserted. Dirt accidentally transferred to the inside of the outlet tube will reach the engine and cause wear. Engine manufacturers say that it takes only a few grams of dirt to “dust” an engine! Be careful not to damage the sealing area on the tube.



Outer edge of the outlet tube

Wipe both sides of the outlet tube clean.



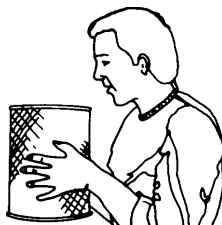
Inner edge of the outlet tube

If your air cleaner is equipped with a Vacuator Valve
Visually check and physically squeeze to make sure the valve is flexible and not inverted, damaged or plugged.



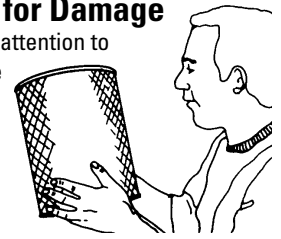
3 Inspect the Old Filter for Leak Clues

Visually inspect the old filter for any signs of leaks. A streak of dust on the clean side of the filter is a telltale sign. Remove any cause of leaks before installing new filter.



4 Inspect the New Filter for Damage

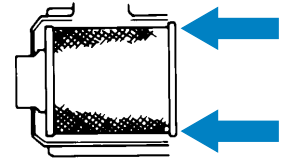
Inspect the new filter carefully, paying attention to the inside of the open end, which is the sealing area. NEVER install a damaged filter. A new Donaldson radial seal filter may have a dry lubricant on the seal to aid installation.



5 Insert the New Radial Seal Filter Properly

If you're servicing the safety filter, this should be seated into position before installing the primary filter.

Insert the new filter carefully. Seat the filter by hand, making certain it is completely into the air cleaner housing before securing the cover in place.



The critical sealing area will stretch slightly, adjust itself and distribute the sealing pressure evenly. To complete a tight seal, apply pressure by hand at the outer rim of the filter, not the flexible center. (Avoid pushing on the center of the urethane end cap.) No cover pressure is required to hold the seal. NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing, cover fasteners and will void the warranty.

If the service cover hits the filter before it is fully in place, remove the cover and push the filter (by hand) further into the air cleaner and try again. The cover should go on with no extra force.

Once the filter is in place, secure the service cover.



Caution

NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing, cover fasteners and will void the warranty.



6 Check Connectors for Tight Fit

Make sure that all mounting bands, clamps, bolts, and connections in the entire air cleaner system are tight. Check for holes in piping and repair if needed. Any leaks in your intake piping will send dust directly to the engine!

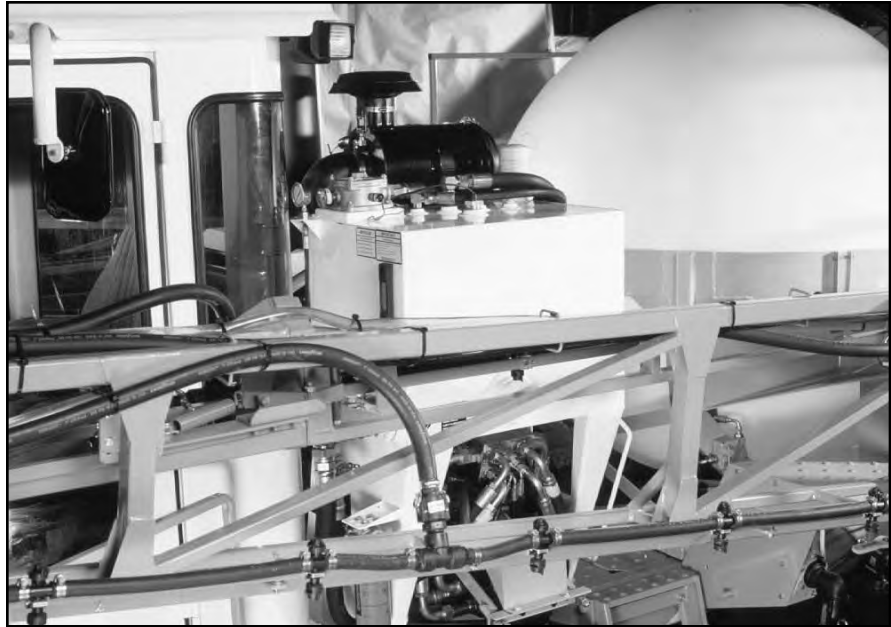
Superior Protection for Larger Engines

Radial Seal Sealing Technology Means Reliable Filtration and Quicker Service

The Donaldson two-stage FRG radial seal air cleaners provide improved reliability, better durability and reduced weight compared to axial seal style air cleaner designs. Choose from over 20 air cleaners that work in airflow ranges of 82 to 1600 cfm.

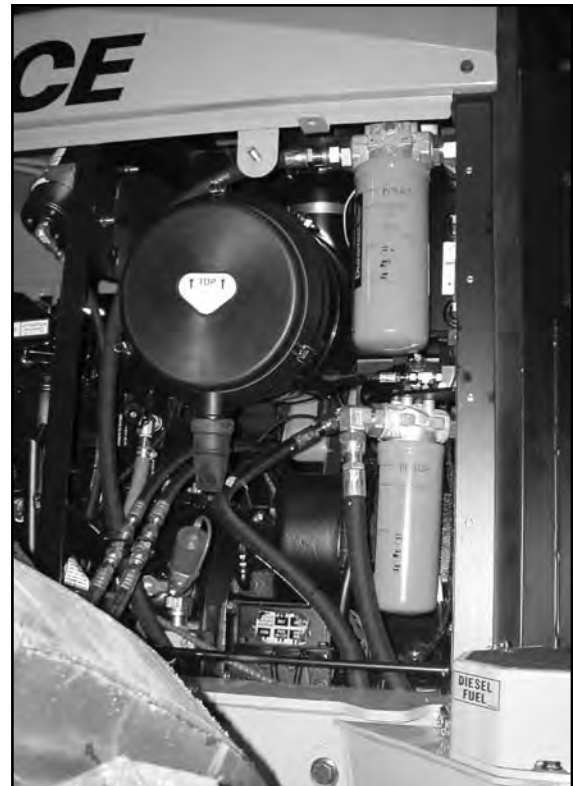
Two-Stage Filtration!

Both Style A and B have an integral pre-cleaning stage that separates up to 85% of the incoming dust. The primary filter stops the rest, resulting in engine air that is 99.99% free of dust!



The FRG Air Cleaner on this Tyler Ag Sprayer eliminates 99.99% of the dirt from the engine airstream, while providing up to 945 cfm airflow to the engine.

The two-stage FRG Air Cleaner in operation on a Prentice 490 Skidder.



Durable, Vibration Resistant Variety of Sizes in Two Separate Housing Styles

Applications

- Horizontal installation
- Medium and heavy dust environments
- **Style A** - From 82 to 795 cfm airflow throughput per air cleaner in body diameters ranging from 5" to 16" (127-406mm)
- **Style B** - From 270 to 1600 cfm airflow throughput per air cleaner in body diameters ranging from 10" to 18" (254-457mm)

Ideal for

- Construction equipment
- Agricultural machinery
- Mining equipment
- Off-highway vehicles

Air Cleaner Features

- Two stage filter system: the first stage removes up to 85% of incoming dust
 - The first stage in the Style A uses the angled vanes on the primary filter
 - The first stage in the Style B has a tangential air inlet
- Inlet on side, outlet on end (G flow)
- Already tapped to accept filter service indicator
- Vacuator™ Valve automatically releases the pre-cleaned dust
- Durable, long-lasting finish
 - Style A housing is metal and coated with a black, corrosion- and chemical-resistant polymer paint (service cover is accessed with clamp and bolt)
 - Style B is comprised of two materials: injection molded, high strength polymer service cover and a metal body (the service cover is accessed by latches)
- Mounting the unit directly to the engine is not recommended; excessive engine vibration can cause premature air cleaner structural failure

FRG Style A

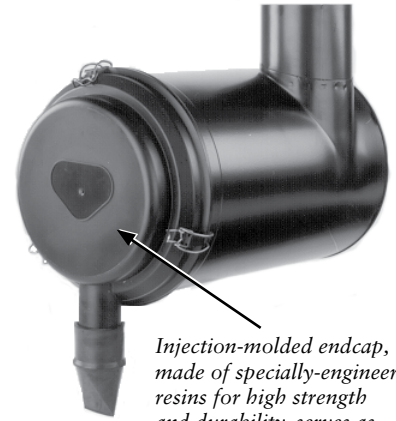
The FRG Style A series replaces Donaldson's obsolete FHG series in size and airflow capacity.



While it looks like an axial seal air cleaner on the outside, this new style housing is equipped with a radial seal style primary filter and an optional safety filter. Easy to service, one wing-bolt clamp to undo to access filter(s).

FRG Style B

The FRG Style B series replaces Donaldson's obsolete FTG series in size and airflow capacity.



Injection-molded endcap, made of specially-engineered resins for high strength and durability, serves as the service cover. Filter changeout is easier than ever – just unsnap the latches to access the filter!

Filter Features

The radial seal filter inside the air cleaner is also quite different from the conventional filters. Its one piece, molded urethane endcaps encase the filter media and liners – reducing components, adding reliability and lowering cost. The glued-on gasket found on the metal end cap of conventional filters is gone – the inside surface of the filter's open end is actually the sealing surface. For added engine protection during filter service, consider a model with a safety filter.

Accessories

Donaldson intake accessories for your FRG Air Cleaner can help overcome or prevent various problems. For instance:

- Mounting bands for FRGs must be ordered separately
- If the installed air cleaner will be exposed to rain, snow or debris, an **inlet cap** can prevent moisture ingestion.
- A **service indicator** measures the airflow restriction across the filter, thereby showing how much useful life the filter has left, and when to replace the filter cartridge (see Accessories section of this catalog)

When spec'ing an Air Cleaner . . .

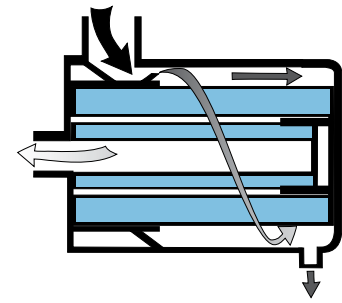
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

Initial Airflow Restriction

Airflow CFM @			Air Cleaner Model	Weight	
6"H ₂ O	8"H ₂ O	10"H ₂ O		lbs	kg
STYLE A - BOLT/CLAMP SERVICE COVER					
82	95	107	G052685	5.5	2.5
93	107	120	G052686	5.2	2.4
132	155	173	G065541	7.6	3.4
152	195	232	G065551	7.1	3.2
198	228	255	G080582	11.0	5.0
224	258	287	G080585	10.5	4.8
268	315	357	G090245	13.1	5.9
295	344	385	G090250	12.1	5.5
283	332	375	G100395	30.1	13.7
328	388	435	G100398	28.6	13.0
315	350	418	G120415	26.5	12.0
408	458	528	G120417	28.1	12.7
486	570	644	G140523	34.9	15.8
560	657	742	G140526	33.3	15.1
590	700	795	G160679	41.7	18.9
STYLE B - LATCH SERVICE COVER					
270	305	340	G100297	12.0	5.4
300	360	400	G110214	13.1	5.9
370	430	490	G110206	17.5	8.0
440	510	570	G130107	20.6	9.3
520	590	655	G130097	25.0	11.4
715	805	945	G150092	30.0	13.6
1220	1420	1600	G180031	44.0	20.0

Airflow Pattern "G"

Air in the side, out the end

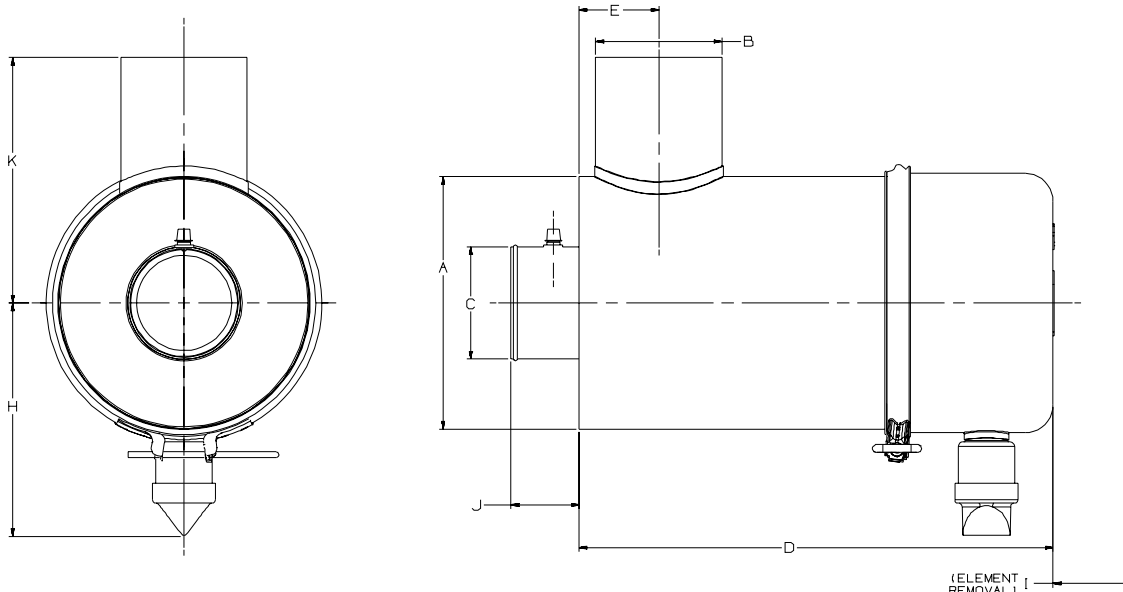


FRG Mounting Bands

- Two mounting bands are required for proper FRG installation (see service parts listing in this section).
- Durable, corrosion resistant, galvanized steel construction
- Engineered and tested to resist the adverse effects of vibration.
- Mounting band feet are designed to ensure maximum torque pressure, continuously.
- Dimensional information on these bands can be found in the accessories section, mounting bands.

FRG Specification Illustrations

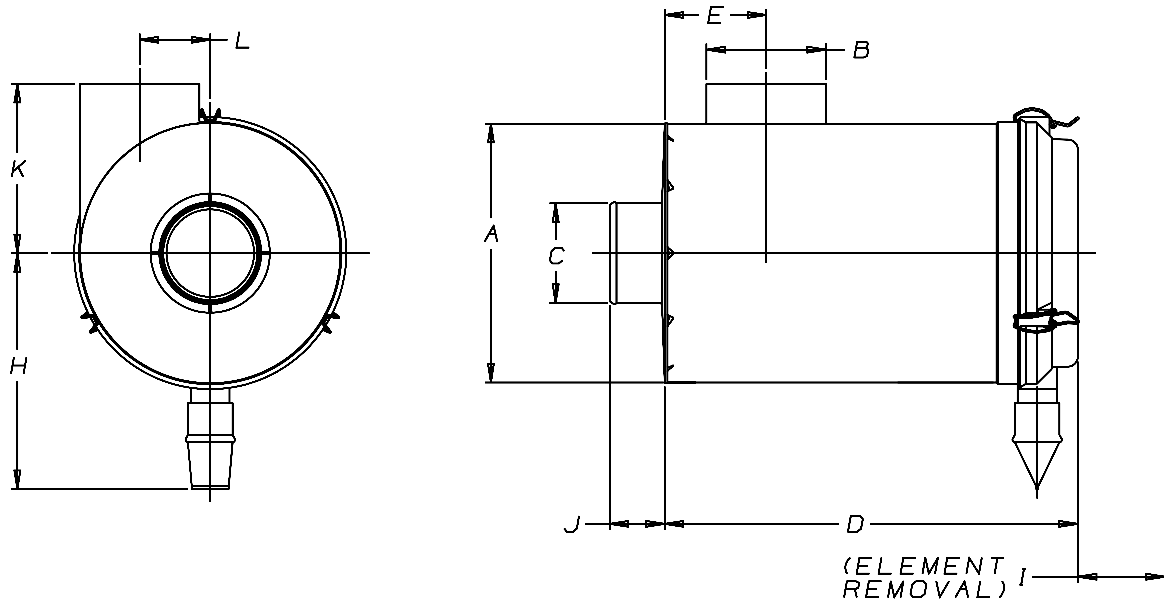
Style A - Bolt/Clamp Service Cover



MEDIUM DUST

FRG Specification Illustrations

Style B - Latch Service Cover



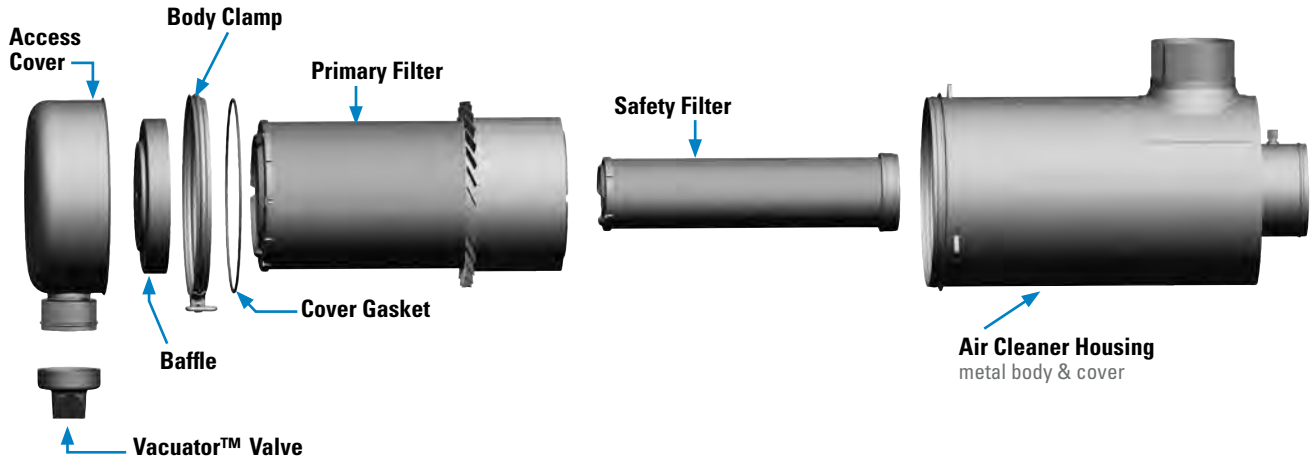
MEDIUM DUST

FRG Specifications

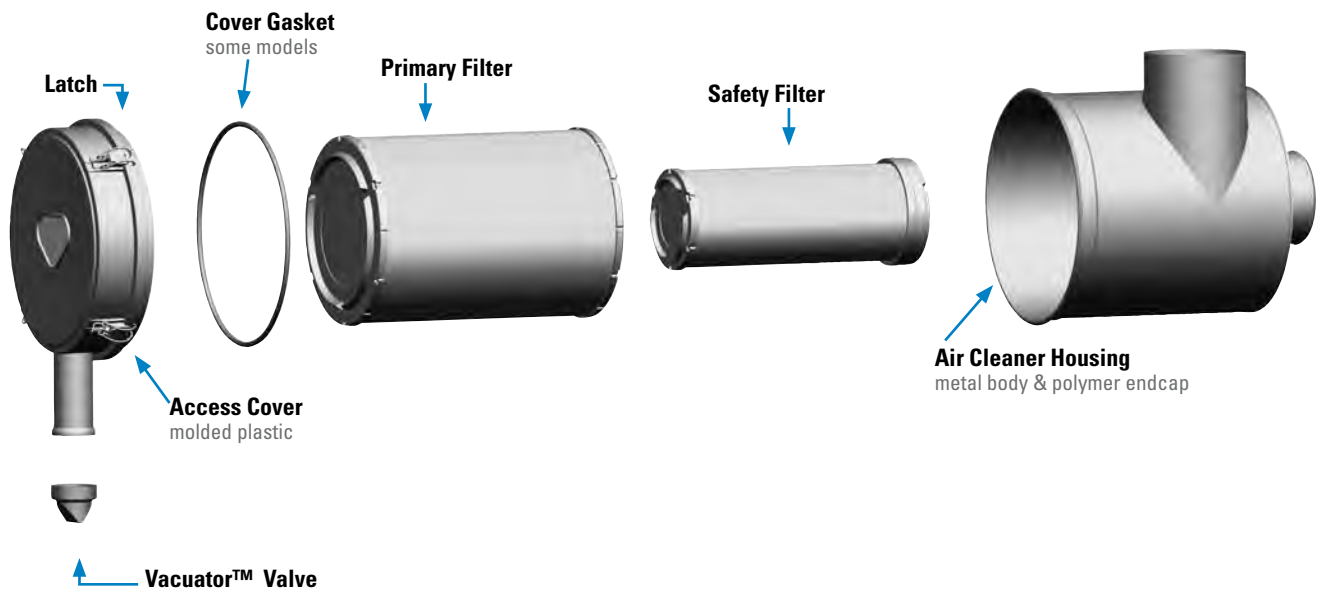
Air Cleaner Models	Body Diameter (A)		Inlet Diameter (B)		Outlet Diameter (C)		Housing Length (D)		Inlet Location (E)		Center Line to Valve (H)		Service Clearance (I)		Outlet Length (J)		Inlet Length (K)		Offset Inlet Location (L)		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
STYLE A - BOLT/CLAMP SERVICE COVER																					
G052685	5.25	133	2.50	64	2.50	64	14.76	375	2.06	52	6.36	162	9.80	249	2.30	58	4.97	126	--	--	
G052686	5.25	133	2.50	64	2.50	64	14.76	375	2.06	52	6.36	162	9.80	249	2.30	58	4.97	126	--	--	
G065541	6.55	166	3.00	76	3.00	76	15.44	392	1.92	49	6.28	160	12.31	313	2.22	56	6.38	162	--	--	
G065551	6.55	166	3.00	76	3.00	76	15.44	392	1.92	49	6.28	160	12.31	313	2.22	56	6.38	162	--	--	
G080582	8.00	203	3.75	95	3.50	89	15.84	402	2.38	60	7.96	202	12.44	316	2.46	62	7.25	184	--	--	
G080585	8.00	203	3.75	95	3.50	89	15.84	402	2.38	60	7.96	202	12.44	316	2.46	62	7.25	184	--	--	
G090245	9.00	229	4.50	114	4.00	102	16.90	429	2.84	72	8.27	210	16.90	429	2.43	62	8.75	222	--	--	
G090250	9.00	229	4.50	114	4.00	102	16.90	429	2.84	72	8.27	210	16.90	429	2.43	62	8.75	222	--	--	
G100395	10.19	259	4.50	114	5.00	127	21.03	534	3.38	86	8.96	228	13.06	332	2.10	53	8.09	205	--	--	
G100398	10.19	259	4.50	114	5.00	127	21.03	534	3.38	86	8.96	228	13.06	332	2.10	53	8.09	205	--	--	
G120415	12.00	305	5.00	127	5.00	127	19.06	484	4.69	119	9.62	244	9.10	231	2.28	58	8.92	227	--	--	
G120417	12.00	305	5.00	127	5.00	127	19.06	484	4.69	119	9.62	244	9.10	231	2.28	58	8.92	227	--	--	
G140523	14.00	356	6.00	152	6.00	152	22.06	560	5.28	134	10.72	272	12.10	307	2.26	57	10.12	257	--	--	
G140526	14.00	356	6.00	152	6.00	152	22.06	560	5.28	134	10.72	272	12.10	307	2.26	57	10.12	257	--	--	
G160679	16.00	406	7.00	178	7.00	178	24.04	611	5.76	146	11.72	298	14.10	358	2.29	58	12.00	305	--	--	
STYLE B - LATCH SERVICE COVER																					
G100297	10.2	259	4.5	114	4.0	102	16.93	430	3.54	90	10.63	270	15.00	373	2.59	66	8.07	205	2.81	72	
G110214	11.0	279	5.0	127	4.5	114	13.78	350	4.13	105	10.81	275	17.00	428	2.64	67	7.50	191	2.96	75	
G110206	11.0	279	5.0	127	4.5	114	19.28	490	4.13	105	10.81	275	17.00	428	2.64	67	7.50	191	2.96	75	
G130107	13.0	330	6.0	152	5.0	127	16.73	425	5.22	132	11.85	301	18.00	450	2.64	67	8.50	216	3.54	90	
G130097	13.0	330	6.0	152	5.0	127	20.87	530	5.22	132	11.85	301	18.00	450	2.64	67	8.50	216	3.54	90	
G150092	15.0	381	7.0	178	6.0	152	20.87	530	5.51	140	13.31	338	19.00	482	2.75	70	9.50	241	4.03	102	
G180031	18.0	457	8.0	203	8.0	203	25.60	650	5.04	128	15.80	402	28.62	600	3.35	85	11.42	290	5.05	128	

FRG Service Parts

Style A - Bolt/Clamp Service Cover



Style B - Latch Service Cover



SERVICE PARTS NOTES:
 2 = Two required for proper installation
 3 = Shipped with air cleaner initially
 8 = Cover assembly includes latches but no Vacuator™ Valve

SM = Scheduled Maintenance
 ES = Extended Service
 HE = High Efficiency

MEDIUM DUST

FRG Service Parts

G052685 Style A

clamp.....	P002904
cover	P120279
filter, primary.....	P600043 .....3
filter, safety.....	P600047 .....3
mounting band.....	P002348 .....2
Vacuator Valve	P158914

G052686 Style A

clamp.....	P002904
cover	P120279
filter, primary.....	P600043 .....3
filter, safety (optional).....	P600047
mounting band.....	P002348 .....2
Vacuator Valve	P158914

G065541 Style A

clamp.....	P002940
cover	P522133
filter, primary.....	P549271 .....3
filter, safety.....	P549277 .....3
mounting band.....	P007191 .....2
Vacuator Valve	P158914

G065551 Style A

clamp.....	P002940
cover	P522133
filter, primary.....	P549271 .....3
filter, safety (optional).....	P549277
mounting band.....	P007191 .....2
Vacuator Valve	P158914

G080582 Style A

clamp.....	P003951
cover	P600321
filter, primary.....	P601437 .....3
filter, safety.....	P601476 .....3
mounting band.....	P004307 .....2
Vacuator Valve	P158914

G080585 Style A

clamp.....	P003951
cover	P600321
filter, primary.....	P601437 .....3
filter, safety (optional).....	P601476
mounting band.....	P004307 .....2
Vacuator Valve	P158914

G090245 Style A

clamp.....	P102025
cover	P600657
filter, primary.....	P601280 .....3
filter, safety.....	P601286 .....3
mounting band.....	P004073 .....2
Vacuator Valve	P158914

G090250 Style A

clamp.....	P102025
cover	P600657
filter, primary.....	P601280 .....3
filter, safety (optional).....	P601286
mounting band.....	P004073 .....2
Vacuator Valve	P158914

G100297 Style B

dust cup/cover.....	P538200 .....8
filter, primary.....	P781039 .....3
filter, safety.....	P777639 .....3
gasket, cover	P537308
latch	P777366
mounting band.....	P004076 .....2
Vacuator Valve	P776008

G100395 Style A

baffle, metal	P602211
clamp.....	P106071
dust cup/cover.....	P103827
filter, primary.....	P601790 .....3
filter, safety.....	P777639 .....3
o-ring.....	P101401
mounting band.....	P004076 .....2
Vacuator Valve	P103198

G100398 Style A

baffle, metal	P602211
clamp.....	P106071
dust cup/cover.....	P103827
filter, primary.....	P601790 .....3
filter, safety (optional).....	P777639
mounting band.....	P004076 .....2
o-ring.....	P101401
Vacuator Valve	P103198

G110206 Style B

cover	P538452 .....8
filter, primary-SM.....	P532966 .....3
filter, primary- ES & HE.....	EAF5105
filter, safety.....	P533781 .....3
gasket, cover	P526676
latch	P536439
mounting band.....	P004079 .....2
Vacuator Valve	P158914

G110214 Style B

cover	P538452 .....8
filter, primary.....	P536457 .....3
filter, safety.....	P536492 .....3
gasket, cover	P526676
latch	P536439
mounting band.....	P004079 .....2
Vacuator Valve	P158914

G120415 Style A

baffle, metal	P106329
clamp.....	P121067
dust cup/cover.....	P109296
filter, primary.....	P601767 .....3
filter, safety.....	P601774 .....3
mounting band.....	H000349 .....2
o-ring.....	P017804
Vacuator Valve	P103198

G120417 Style A

baffle, metal	P106329
clamp.....	P121067
dust cup/cover.....	P109296
filter, primary.....	P601767 .....3
filter, safety (optional).....	P601774
mounting band.....	H000349 .....2
o-ring.....	P017804
Vacuator Valve	P103198

G130097 Style B

cover	P538259 .....8
filter, primary.....	P537876 .....3
filter, safety.....	P537877 .....3
gasket, cover	P537699
latch.....	P776033
mounting band.....	P013722 .....2
Vacuator Valve	P776008

G130107 Style B

cover	P538259 .....8
filter, primary.....	P532503 .....3
filter, safety.....	P532504 .....3
gasket, cover	P537699
latch.....	P776033
mounting band.....	P013722 .....2
Vacuator Valve	P776008

G140523 Style A

baffle, metal	P106771
clamp.....	P100866
dust cup/cover.....	P109297
filter, primary.....	P532503 .....3
filter, safety.....	P532504 .....3
mounting band.....	H000350 .....2
o-ring.....	P017335
Vacuator Valve	P103198

G140526 Style A

baffle, metal	P106771
clamp.....	P100866
dust cup/cover.....	P109297
filter, primary.....	P532503 .....3
filter, safety (optional).....	P532504
mounting band.....	H000350 .....2
o-ring.....	P017335
Vacuator Valve	P103198

G150092 Style B

cover	P777920 .....8
filter, primary.....	P777868 .....3
filter, safety.....	P777869 .....3
latch.....	P776033
mounting band.....	P016845 .....2
Vacuator Valve	P776008

G160679 Style A

baffle, metal	P106637
clamp.....	P100789
dust cup/cover.....	P106952
filter, primary.....	P549523 .....3
filter, safety.....	P549530 .....3
mounting band.....	H000351 .....2
o-ring.....	P017336
Vacuator Valve	P103198

G180031 Style B

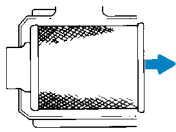
cover	P783185
filter, primary.....	P781098 .....3
filter, safety.....	P781102 .....3
mounting band.....	H770037 .....2
Vacuator Valve	P105220

1 Remove the Filter



Rotate the filter while pulling straight out.

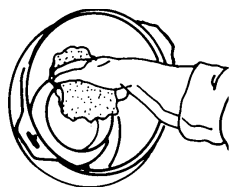
Unfasten or unlatch the service cover. Because the filter fits tightly over the outlet tube to create the critical seal, there will be some initial resistance, similar to breaking the seal on a jar. Gently move the end of the filter back and forth to break the seal then rotate while pulling straight out. Avoid knocking the filter against the housing.



If your air cleaner has a safety filter, replace it every third primary filter change. Remove the safety filter as you would the primary filter. Make sure you cover the air cleaner outlet tube to avoid any unfiltered contaminant dropping into the engine.

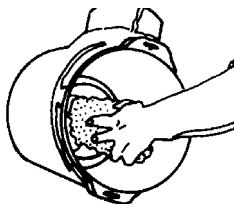
2 Clean Both Surfaces of the Outlet Tube and Check the Vacuator™ Valve

Use a clean cloth to wipe the filter sealing surface and the inside of the outlet tube. Contaminant on the sealing surface could hinder an effective seal and cause leakage. Make sure that all contaminant is removed before the new filter is inserted. Dirt accidentally transferred to the inside of the outlet tube will reach the engine and cause wear. Engine manufacturers say that it takes only a few grams of dirt to “dust” an engine! Be careful not to damage the sealing area on the tube.



Outer edge of the outlet tube

Wipe both sides of the outlet tube clean.



Inner edge of the outlet tube

If your air cleaner is equipped with a Vacuator Valve

Visually check and physically squeeze to make sure the valve is flexible and not inverted, damaged or plugged.



3 Inspect the Old Filter for Leak Clues

Visually inspect the old filter for any signs of leaks. A streak of dust on the clean side of the filter is a telltale sign. Remove any cause of leaks before installing new filter.



4 Inspect the New Filter for Damage

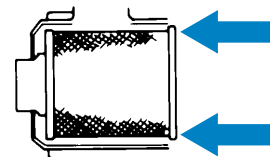
Inspect the new filter carefully, paying attention to the inside of the open end, which is the sealing area. NEVER install a damaged filter. A new Donaldson radial seal filter may have a dry lubricant on the seal to aid installation.



5 Insert the New Radial Seal Filter Properly

If you're servicing the safety filter, this should be seated into position before installing the primary filter.

Insert the new filter carefully. Seat the filter by hand, making certain it is completely into the air cleaner housing before securing the cover in place.



The critical sealing area will stretch slightly, adjust itself and distribute the sealing pressure evenly. To complete a tight seal, apply pressure by hand at the outer rim of the filter, not the flexible center. (Avoid pushing on the center of the urethane end cap.) No cover pressure is required to hold the seal. NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing, cover fasteners and will void the warranty.

If the service cover hits the filter before it is fully in place, remove the cover and push the filter (by hand) further into the air cleaner and try again. The cover should go on with no extra force.

Once the filter is in place, secure the service cover.



Caution

NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing, cover fasteners and will void the warranty.



6 Check Connectors for Tight Fit

Make sure that all mounting bands, clamps, bolts, and connections in the entire air cleaner system are tight. Check for holes in piping and repair if needed. Any leaks in your intake piping will send dust directly to the engine!

Horizontal Mount, Integral Vacuator™ Valve Aggressive Two-Stage Filtration for Large Construction & Mining Machines

Upgrade Path

To upgrade to the newest technology, consider the Donaldson FRG Air Cleaner with Radial Seal Sealing Technology. Recommended replacement models are listed on the next page.

Applications

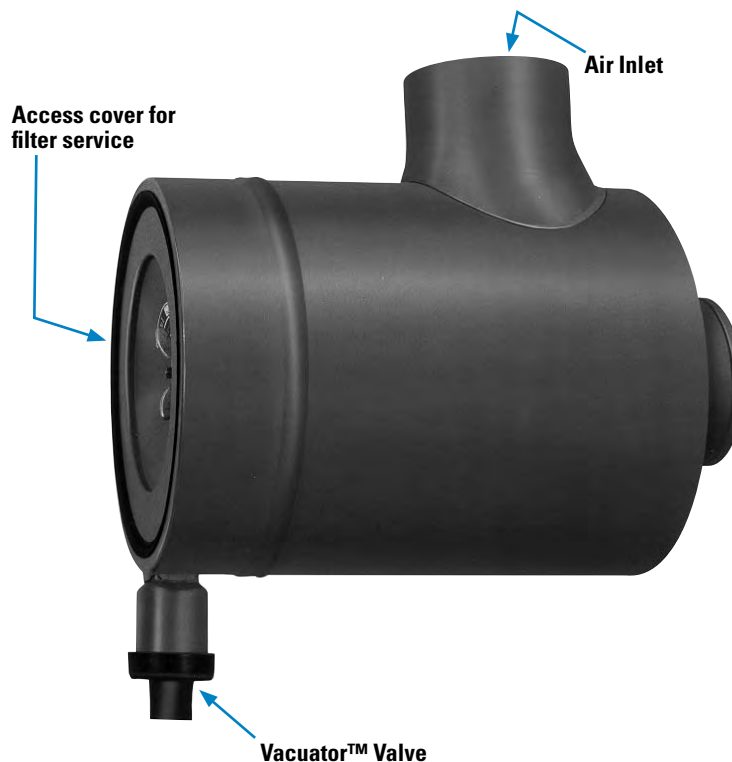
- Allows up to 1200 cfm airflow throughput per air cleaner
- Horizontal installation
- Designed for large industrial and construction machines: crawler tractors, crane loaders, excavators and air compressors with large engines operating in severe dust environments

Air Cleaner Features

- Unique, flared inlet allows maximum airflow with low restriction
- 14" & 16" body diameters
- Two-stage air cleaning deals with very dusty environment:
 - (1) Built-in louver spins air to separate up to 85% of incoming dust before it reaches the filter
 - (2) Primary filter removes up to 99.99% of the remaining dust
- Built-in Vacuator™ Valve collects and releases pre-cleaned dust
- Safety filter on all models protects engine inlet during filter changeout
- Housing is metal and coated with a corrosion and chemical resistant polymer paint

Filter Features

- Replacement filter choices include an extended service, high efficiency filter for restriction maintenance, and a standard life filter for scheduled maintenance



Accessories

- See the Accessories section for details on Donaldson air intake add-ons that can enhance the performance of your system
- Each FVG is tapped to accept a filter service indicator
- Order mounting bands, hoods, and other accessories separately



FVG air cleaners are used in tandem on this underground mining equipment to double the airflow throughput to the engine.

When spec'ing an Air Cleaner . . .

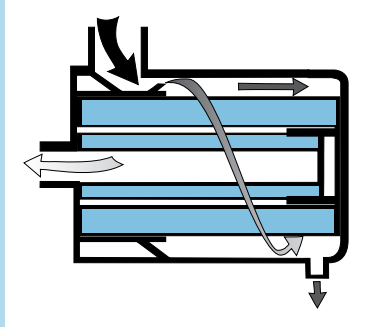
Service parts for this axial style air cleaner may not be available due to newer filtration technology and housing designs. Donaldson now recommends FRG radial seal style air cleaners for new applications. If you do prefer a newer style filtration system, see the recommended upgrade path table on the right.

Initial Airflow Restriction

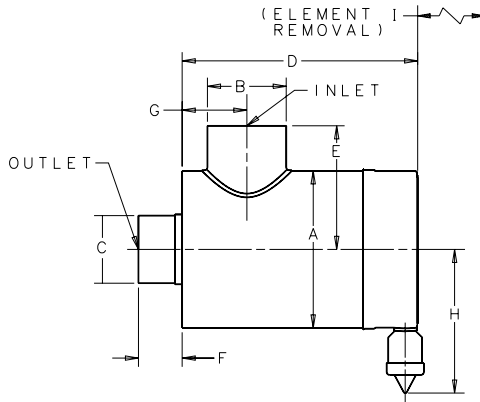
Air Cleaner Model	CFM @ "H ₂ O		
	6"	8"	10"
G140195	690	810	910
G160376	730	880	1000
G160587	930	1070	1200

Airflow Pattern "G"

Air in the side, out the end



FVG Cycloflow™ Specification Illustration



Recommended Upgrade Path

Current FVG	Upgrade	Style
G140195	G150092	FRG
G160376	G150092	FRG
G160587	G180031	FRG

FVG Specifications

Air Cleaner Models	Body Diameter (A)		Inlet Diameter (B)		Outlet Diameter (C)		Length (D)		Inlet Length (F)		Inlet Length (G)		Inlet Length (H)		Service Clearance (I)		Weight			
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg		
G140195	13.95	354	7.00	178	6.00	152	20.87	530	10.98	279	3.88	99	5.75	146	12.71	323	20.72	526	48	22
G160376	16.00	406	7.00	178	7.00	178	20.87	530	13.00	330	3.88	99	5.28	134	13.80	351	20.72	526	62	28
G160587	16.00	406	7.00	178	7.00	178	24.87	632	13.00	330	3.88	99	5.75	146	13.80	351	24.50	622	66	30

FVG Service Parts

G140195

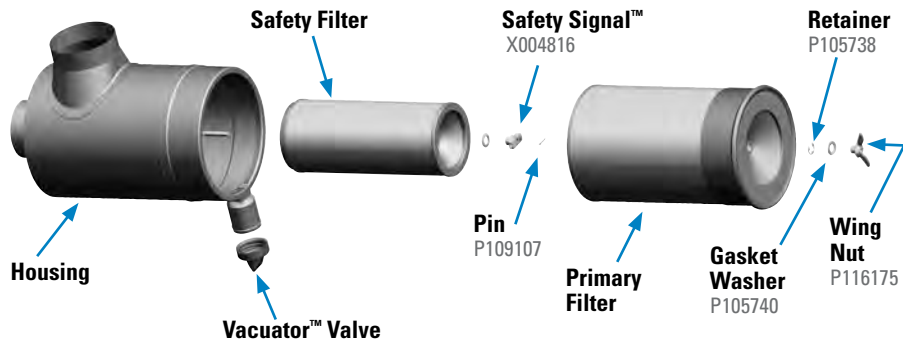
- filter, primary - SM P181043
- filter, primary - ES & HE..... EAF5043
- filter, primary..... P1820433
- filter, safety P1248603
- mounting band..... H0003502
- Vacuator Valve P103198

G160376

- filter, primary..... P1248673
- filter, safety..... P1248663
- mounting band..... H0003512
- Vacuator Valve P103198

G160587

- filter, primary - SM P181049
- filter, primary - ES & HE..... EAF5049
- filter, primary..... P1820493
- filter, safety P1164463
- mounting band..... H0003512
- Vacuator Valve P105220



NOTES:

- 2 = Two required for proper installation
- 3 = Shipped with air cleaner initially

ES = Extended Service
HE = High Efficiency
SM = Scheduled Maintenance

MEDIUM DUST

F Series Cyclopac™ and Cycloflow™ Service Procedure

MEDIUM DUST

1 Measure Restriction

Measure the restriction of the air cleaner with a Donaldson restriction indicator, such as The Informer™, a service gauge, or water manometer at the restriction tap provided in the air cleaner or the transfer pipe.

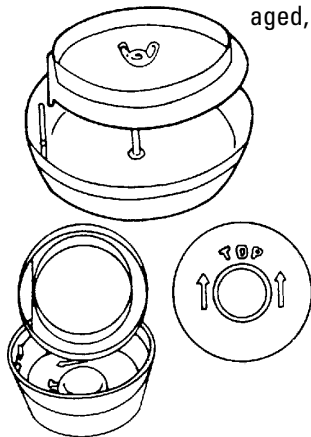


One of two conditions will exist:
 (1) If the reading indicates the maximum restriction (per engine manufacturer's recommendations), change out the filter.

(2) If the reading shows below the maximum, the filter still has life left and should not be serviced.

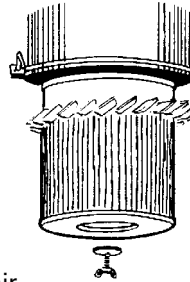
2 Empty the Dust Cup

Dust should not be allowed to build up closer than one inch from the baffle. On models equipped with a Donaldson Vacuator™ Valve, dust cup service is cut to a minimum; all that is necessary is a quick check to see that the Vacuator Valve is not inverted, damaged, or plugged.



3 Change the Filter

When restriction indicates that filter servicing is required, loosen the wing nut and remove the primary filter. Before installing the new filter, inspect the filter and gasket for shipping or storage damage. Wipe out the housing with a clean cloth. Carefully install new filter, wing nut and sealing washer.



Always use Donaldson replacement filters, which have been engineered to fit the air cleaner and engine intake system exactly.

4 Cover the Inlet

Don't leave the air inlet exposed! If the new filter won't be installed immediately, cover the opening to prevent stray contaminant from entering the induction system.

5 Safety Filter Service

For maximum engine protection and air cleaner service life, replace the safety filter every third primary filter change or as indicated by the Donaldson Safety Signal® service indicator.



6 Reinstall the Dust Cup

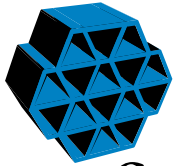
Be sure the dust cup is sealed 360° around the air cleaner body. Reset the restriction indicator to green.

7 Check Connections

Ensure that all connections between the air cleaner and the engine are tight and leak-free.

Engine Protection *in* All Conditions

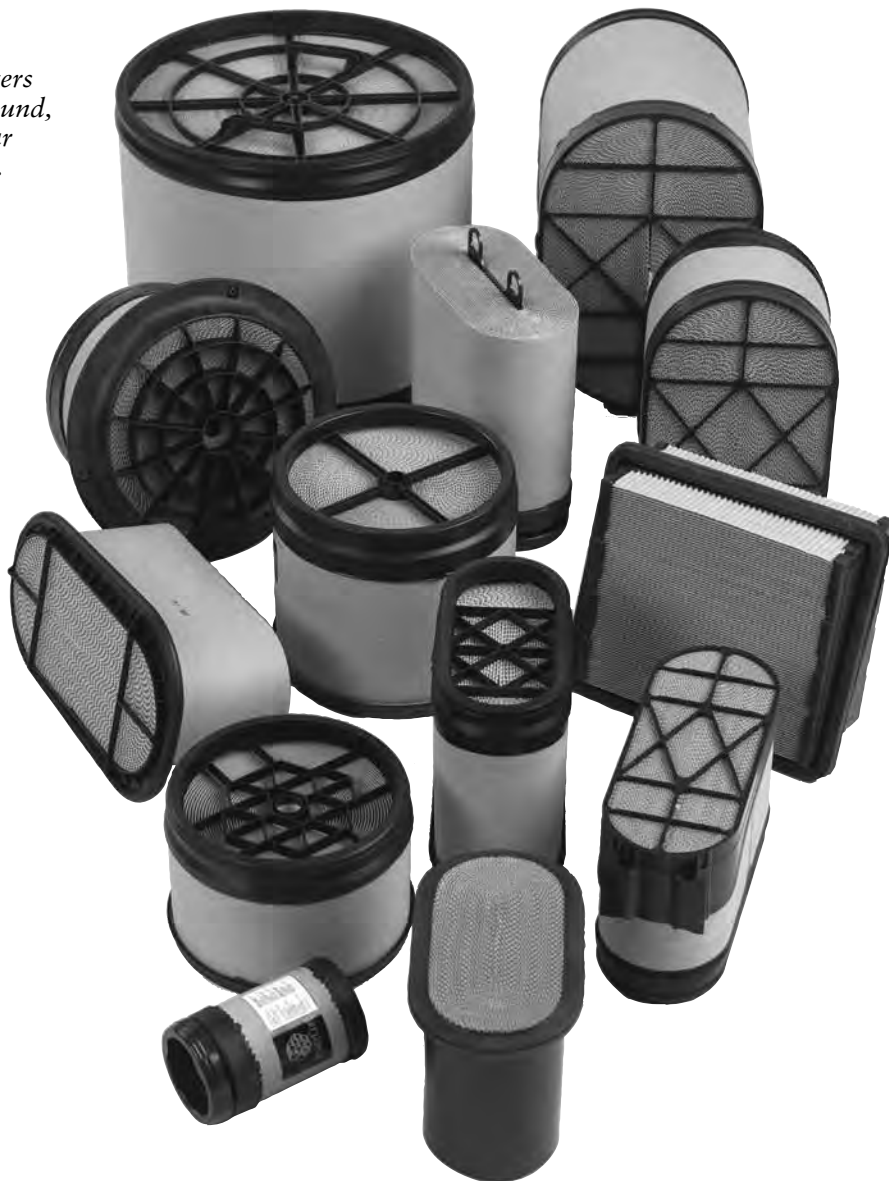
Like Never Before!



PowerCore®
A DONALDSON FILTRATION TECHNOLOGY

Innovative vehicle designs call for new engineering solutions plus know-how from your suppliers. We have both – and are ready to help you solve your space or configuration problems.

PowerCore filters in round, obround, and rectangular configurations.



MEDIUM DUST

Heavy Duty Two-Stage Filtration for Diesel Engines Operating in Severe Dust Conditions

Heavy construction vehicles (haul trucks, crawlers, dozers), above ground and underground mining machines, agricultural equipment (combines, tractors) and other off-highway vehicles and engines that operate daily in intensely dusty environments need powerful, reliable air filtration systems to protect them and keep them running reliably.

Donaldson S Series Air Cleaners provide:

- Durable, reliable protection
- Two cleaning stages to handle very dusty conditions
- Choice of filtration efficiency, Donaldson (standard) and Donaldson Endurance™ (high efficiency) replacement filters
- Low restriction so the engine receives a high volume of air
- Sturdy, vibration-resistant, long-life construction

Section Index

SSG Donaclone™	78
SSG Service Instructions	83
STG Donaclone™	84
Axial Seal Service Instructions.....	89
SRG Donaclone™ & Conversion Kits	90
STB Strata™	95

Attention!

The SRG air cleaner models will be phased out over time and replaced with our new SSG air cleaners.

Upgrade from SRG housings to new SSG!

SRG Model	SSG Model
G200008.....	G200087
G200013.....	G200086
G290000.....	G290057
G290023.....	G290052
G290012.....	G290053

Designed for the Worst Dust Conditions New Choice for Construction and Off-Highway Applications

The SSG Air Cleaner offers design improvements over our older SRG air cleaner style.

Design Improvements

The SSG Air Cleaner has filters that use radial seal sealing technology, compared to axial seal style filters.

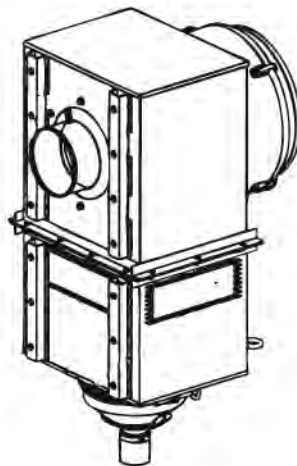


This single design improvement eliminates the need to replace filter and cover gaskets -- less service time and fewer parts to inventory.

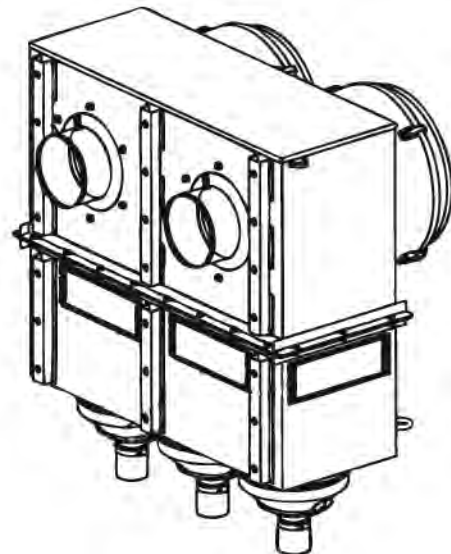
Another new design improvement - the access cover for filter service now has quick release cover latches and a chain that connects the air cleaner service cover to the housing!



The large, massive mining vehicle in the picture above is an ideal match for the Donaldson SSG Air Cleaner.



Mounting (back) side view of an SSG 20 model



Mounting (back) side view of an SSG 29 model

Covered by issued and pending patents, both U.S. and internationally

HEAVY DUST

Versatile SSG Provides Airflow to 4800 cfm With Improved Design Features Compared to our Older SRG Model

Applications

- Allows 1700 to 2400 cfm airflow throughput for the SSG 20 model and 2580 to 4800 cfm airflow throughput for the SSG 29 models
- Horizontal installation
- Off-road, heavy or extreme dust conditions
- Ideal for scrapers, earth movers, graders

Air Cleaner Features

- Single and dual outlet models - two high-flow models available
- Inlet has perforated holes on three sides; rain shrouds available if required
- Filters have urethane end caps with radial seal sealing technology
- Built-in pre-cleaning tubes separate up to 97% of the in-coming dust
- Latch-style cover with attached safety chain for faster and simpler filter service
- Constructed of heavy-gauge steel with a primed, ready-to-paint finish
- Same overall package size as older Donaldson SRG axial seal style housings
- Dust Dumpa tube accessory available simplifies routine air cleaner inspections

Filter Features

- Replacement primary filter choices: Standard life filters (for scheduled maintenance) and Donaldson Endurance™ extended service high efficiency filters. Air cleaners ship with the standard filters.
- Grab handles on the primary filter to help remove the loaded filter during service
- Safety filter on all models



The large, massive mining vehicle in the picture above is an ideal match for the Donaldson SSG Air Cleaner.

Powerful Two-Stage Filtration

The first stage of this powerful air cleaner consists of hundreds of our exclusive, patented Donaclone™ pre-cleaner tubes (over 130 tubes in the SSG 20 and over 250 tubes in the SSG 29 models). Each tube spins the incoming air to create a centrifugal force that separates up to 97% of the dust and dirt in the airstream (see image on right). Donaclone™ tubes have no moving parts – so there is nothing to break down or maintain. They function properly whenever the engine is running.

The pre-cleaned dust is automatically ejected from the dust cup with a Vacuator™ Valve located below in the lower housing body, below the Donaclone tubes.

The second stage of filtration is the primary filter. A safety filter, which fits inside the primary filter, is standard on all models for protection during primary filter changeout.



Side view of three Donaclone pre-cleaning tubes.

When spec'ing an Air Cleaner . . .

Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

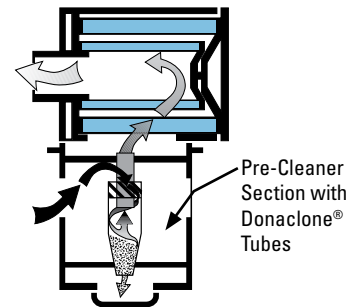
Initial Airflow Restriction

CFM @ "H2O		Air Cleaner Model
6"	8"	
SINGLE OUTLET MODELS		
1700	1980	G200087
1780	2060	G200086
2100	2400	G200088*
DUAL OUTLET MODELS		
2580	3000	G290057
3340	3800	G290052
3600	4080	G290053
4200	4800	G290055*

* Sized to accommodate higher airflow.

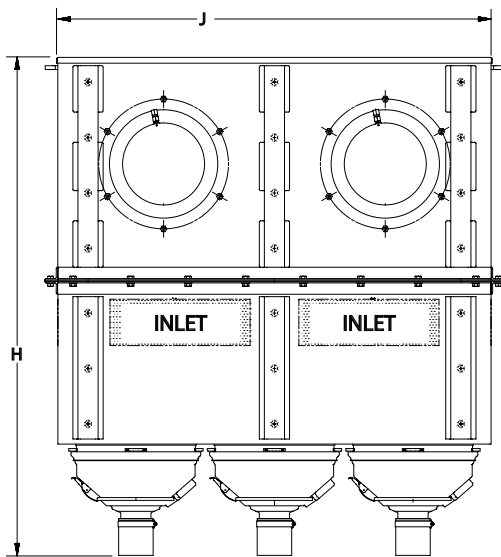
Airflow Pattern "G"

Air in the side, through the pre-cleaner, out the end of the air cleaner (upper) portion.

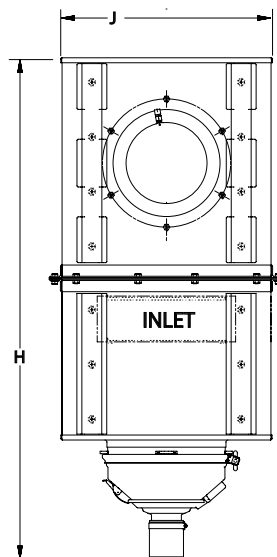


SSG Specification Illustrations

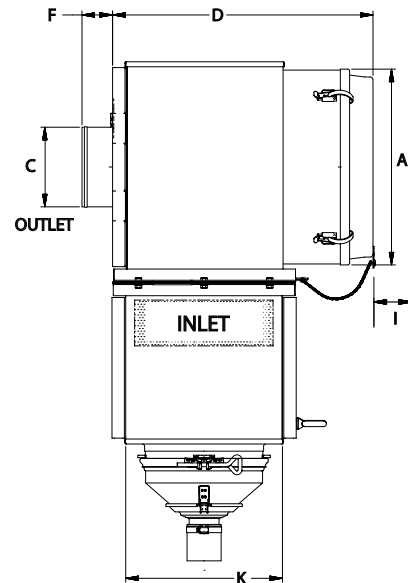
Front View Dual Outlet



Front View Single Outlet



Side View Dual and Single



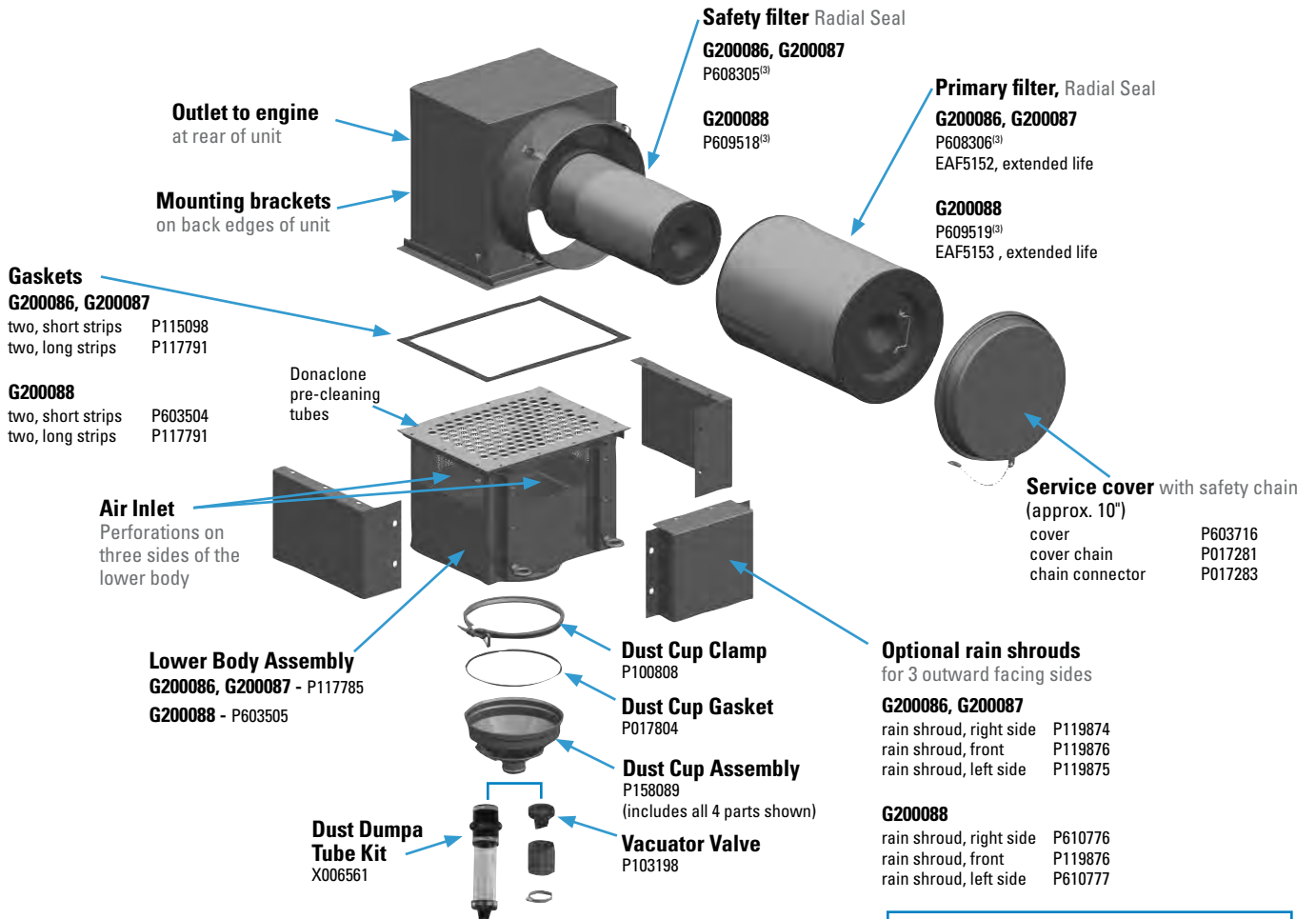
SSG Specifications

Air Cleaner Models	Body Diameter (A)		Outlet Diameter (C)		Length (D)		Outlet Length (F)		Height (H)		Service Clearance (I)		Width (J)		Depth (K)		Weight lbs kg	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
SINGLE OUTLET MODELS																		
G200087	19.67	500	8.0	203	26.2	665	3	76	50.15	1274	22.0	559	21.00	533	15.75	400	200	91
G200086	19.67	500	10.0	254	26.2	665	3	76	50.15	1274	22.0	559	21.00	533	15.75	400	200	91
G200088	19.67	500	10.0	254	31.4	798	3	76	50.15	1274	27.0	686	21.00	533	23.50	597	240	109
DUAL OUTLET MODELS																		
G290057	19.67	500	8.0	203	26.2	665	3	76	49.42	1255	22.0	559	43.00	1092	15.75	400	340	154
G290052	19.67	500	8.0	203	26.2	665	3	76	49.42	1255	22.0	559	43.00	1092	15.75	400	340	154
G290053	19.67	500	10.0	254	26.2	665	3	76	49.42	1255	22.0	559	43.00	1092	15.75	400	340	154
G290055	19.67	500	10.0	254	31.4	798	3	76	49.42	1255	27.0	686	43.00	1092	23.50	597	420	190

HEAVY DUST

Service Parts Listing by Model Number

Single Outlet Model - SSG 20



NOTES:
3 = Shipped with air cleaner initially

Dust Dumpa Tube Extension

How it works: When installed on the dust cups on the lower assembly, the rubber connector vibrates during normal vehicle operation and gravity expels the pre-cleaned dust.

- Improves dust evacuation from the air cleaner
- Clear tube allows for visual inspection of dust collection
- Reduces air cleaner inspection time
- Ships fully assembled
- Proper conversion requires drop down tube for every dust cup



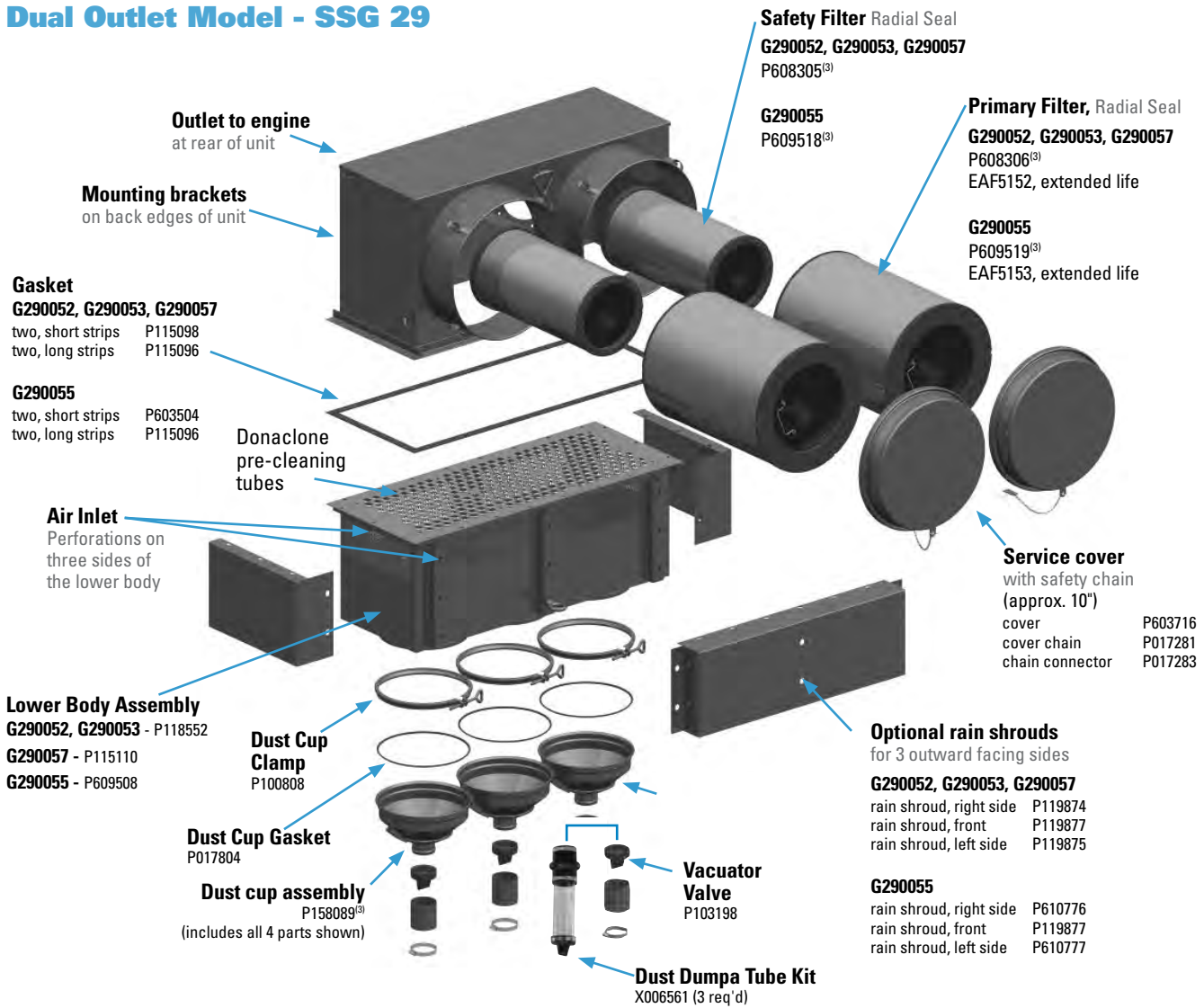
Part No. X006561

NEW

For more information features and dimensions, see accessories section.

Service Parts Listing by Model Number

Dual Outlet Model - SSG 29



NOTES:
3 = Shipped with air cleaner initially

Dust Dumpa Tube Extension

How it works: When installed on the dust cups on the lower assembly, the rubber connector vibrates during normal vehicle operation and gravity expels the pre-cleaned dust.

- Improves dust evacuation from the air cleaner
- Clear tube allows for visual inspection of dust collection
- Reduces air cleaner inspection time
- Ships fully assembled
- Proper conversion requires drop down tube for every dust cup



NEW

Part No. X006561

For more information features and dimensions, see accessories section.



SSG Maintenance Training DVD (item F115281-NTSC or F115282-PAL) available upon request. Contact your local Donaldson distributor or Territory Manager for a FREE copy!

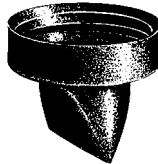
1 Measure restriction

Measure the restriction of the air cleaner with a Donaldson filter service indicator, service gauge, or a water manometer via the restriction tap provided on the air cleaner or the transfer pipe. Replace the filter only when the restriction level has reached the maximum recommended by the engine or equipment manufacturer.



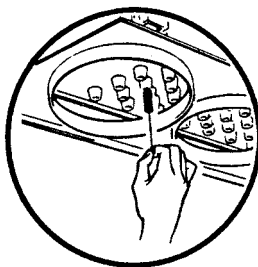
2 Check Vacuator™ Valve

If your unit has a Vacuator Valve (dust cup or Dust Dumpa), just check the Vacuator Valve to see that it is not inverted, damaged or plugged. If it is damaged, replace it immediately.



3 Check tubes for plugging

When the dust cup is removed, check the Donaclone tubes. Generally, the tubes are self-cleaning and need no service. Under rare circumstances, however, plugging can occur. Visual inspection is adequate. If the tubes carry light dust, remove it with a stiff brush.



Cleaning Note: Never clean Donaclone tubes with compressed air unless both the primary and safety filters are installed in the air cleaner. Do not steam-clean Donaclone tubes.

4 Change the filter

When restriction indicates that filter service is required, unfasten or unlatch the service cover. Because the filter fits tightly over the outlet tube to create the critical seal, there will be some initial resistance, similar to breaking the seal on a jar. Grasp the filter service handle and pull the filter out, gently moving the filter back and forth to break the seal.



Avoid knocking the filter against the housing during removal. If the new filter is not to be installed immediately, be sure to cover the seal tube with a cloth or the housing cover so that dirt is not ingested.

5 Inspect the new filter before installing

Inspect the new filter carefully, paying attention to the inside of the open end, which is the sealing area. NEVER install a damaged filter. A new Donaldson radial seal filter may have a dry lubricant on the seal to aid installation.



6 Insert new radial seal filter properly

If you are servicing the safety filter, this should be seated into position before installing the primary filter.

Insert the new filter carefully by hand, making certain it is completely seated into the air cleaner housing before securing the cover in place.



NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing, cover fasteners and will void the warranty.

The critical sealing area will compress slightly, adjust itself and distribute the sealing pressure evenly. To complete a tight seal, apply pressure by hand at the outer rim of the filter, not the center. (Avoid pushing on the center of the end cap.) No cover pressure is required to hold the seal. NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing or cover fasteners and will void the warranty.

If the service cover contacts the filter before it is fully in place, remove the cover and push the filter (by hand) further into the air cleaner and try again. The cover should go on with no extra force.

Once the filter is in place, secure the service cover.

STG Donaclone: Field Proven & Reliable

Heavy-Duty Workhorse for Construction & Off-Highway Applications

That Donaldson's STG Donaclone™ is arguably the most commonly used air cleaner, on the widest variety of heavy-duty equipment in the world, is a testament to its reliability and durability. With its two-stage air cleaning, heavy-duty construction, and variety of configurations, the STG works well in many applications.

Powerful Two-Stage Filtration

The first stage of this powerful air cleaner consists of a cluster of our exclusive, patented Donaclone™ tubes. They spin the incoming air to create a centrifugal force that separates up to 95% of the dust and dirt in the airstream. Donaclone™ tubes have no moving parts – so there is nothing to break down or maintain. They function properly whenever the engine is running.

This pre-cleaned dust is collected in a dust cup on the bottom of the air cleaner housing.

The second stage of filtration is the primary filter, a cylindrical-shaped unit of specially-developed pleated filter media, designed to trap and stop dust particles, both large and small. The result is air to your engine that is up to 99.9% contaminant free!

A safety filter, which fits inside the primary filter, is standard on all models for protection during primary filter changeout. Physical orientation does not affect the proper functioning of



This STG Donaclone, mounted on a large mining machine, is protecting the engine from harmful dirt in this severely dusty environment.

either cleaning stage! The STG operates well mounted horizontally or vertically. (Note that if mounting horizontally, the Vacuator™ Valve option on the dust cup is necessary.)

Mounting: Sturdy mounting brackets are attached to the top section of the STG; you will also need to order one separate mounting band for the lower body.

If you're replacing a worn out air cleaner, be sure to check ductwork, clamps, and other intake system parts that may also need replacing.

STG air cleaners feature a corrosion-resistant, chemical-resistant polymer coating. This black coating isn't paint, rather it's a pigmented polyester that provides a long-lived, hard protective finish.

Versatile STG Provides Airflow to 1760 cfm Choose Peripheral or Tubular Inlet, Horizontal or Vertical Mount

Applications

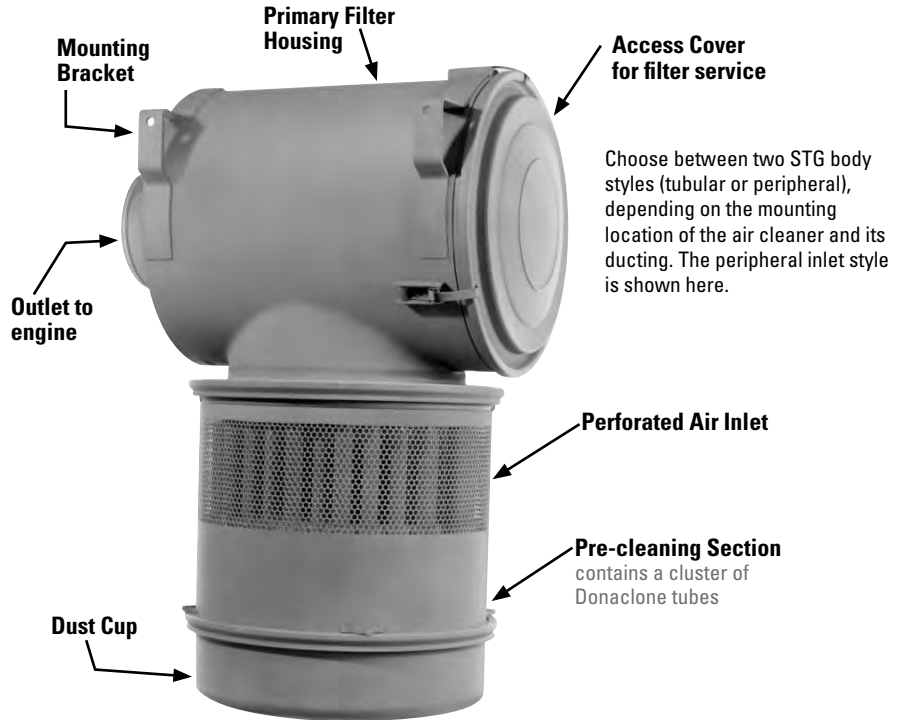
- Allows 390 to 1760 cfm airflow throughput per air cleaner
- Horizontal or vertical installation
- Off-road, high dust conditions
- Ideal for scrapers, earth movers, graders

Air Cleaner Features

- Very reliable! Only one critical filter seal!
- Airflow throughput can be doubled by using two air cleaners
- Two body styles (peripheral inlet and tubular inlet) to accommodate location and ducting
- Optional inlet shroud available for peripheral style
- When the air cleaner is mounted directly on the engine and there is clearance around it for airflow, choose the peripheral inlet style (see photo on right)
- When the air cleaner is mounted above the cab or somewhere far from the engine to get above the dust cloud, choose the tubular inlet style, which will accept ducting into the inlet
- Built-in Donaclone pre-cleaning tubes separate up to 95% of incoming dust to dust cup before it reaches the filter, resulting in more thorough cleaning and fewer filter changes!
- Choose the dust cup best suited to your maintenance practices: (1) the quick-release style for easy, manual emptying, or (2) a dust cup with a Donaldson Vacuator Valve that expels the dust automatically
- All models include a fitting for a filter service indicator

Filter Features

- Replacement primary filter choices: Standard life filters (for scheduled maintenance) and Donaldson Endurance extended service high efficiency filters
- Safety filter on all models



HEAVY DUST



How the Two-Stage STG Donaclone Works

Air is drawn in through the perforations in the lower part of the unit and forced down through a bank of Donaclone tubes. The Donaclone tubes spin the air so that centrifugal force causes the heavier dust particles to separate from the airstream.

While these particles fall into the dust cup at the bottom, the partially cleaned air is directed upward, into the primary filter in the upper portion of the unit. The specially-developed pleated media in the primary filter stops up to 99.9% of the remaining dust, allowing clean air to pass to the engine.

When specifying an Air Cleaner . . .

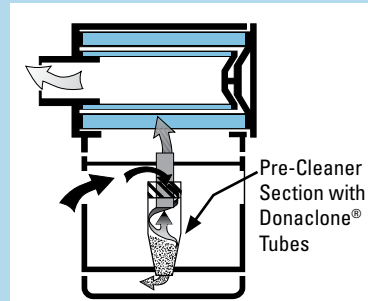
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the lowest restriction will provide longest filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

Initial Airflow Restriction

CFM @ "H2O			Air Cleaner Model
6"	8"	10"	
STG WITH PERIPHERAL INLET			
710	840	950	G140076
1015	1175	1320	G160077
1360	1570	1760	G161006
STG WITH TUBULAR INLET			
390	455	515	G120332
915	1065	1200	G160445
1127	1308	1466	G161020

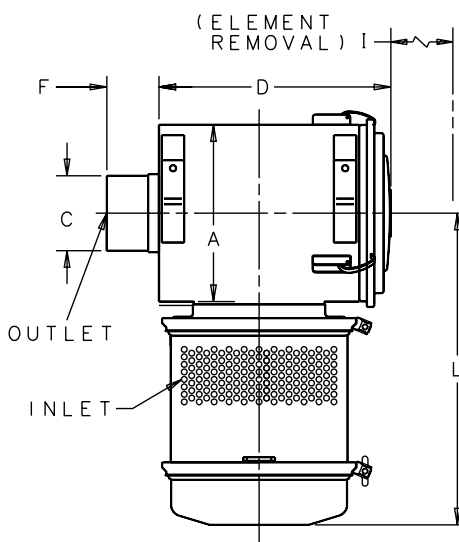
Airflow Pattern "G"

Air in the side, through the pre-cleaner, out the end of the air cleaner (upper) portion.

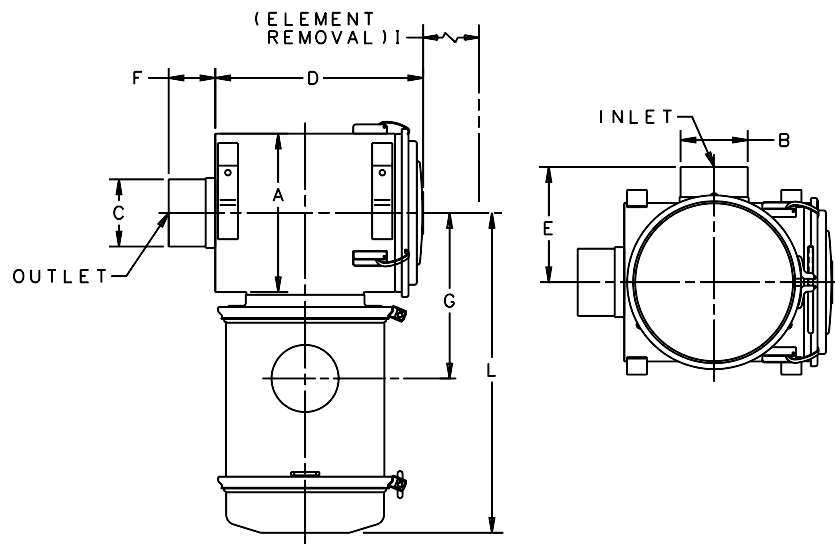


STG Specification Illustrations

with Peripheral Inlet



with Tubular Inlet



STG Donaclone™ Specifications

Air Cleaner Models	Body Diameter (A)		Inlet Diameter (B)		Outlet Diameter (C)		Length (D)		(E)		Inlet Length (F)		(G)		Service Clearance (I)		(L)		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg
STG WITH PERIPHERAL INLET																				
G140076	14.00	356	n/a		6.00	152	17.38	441	n/a		3.88	99	15.47	393	15.25	387	24.16	614	75	34
G160077	16.00	406	n/a		7.00	178	19.69	500	n/a		3.88	99	17.29	439	17.00	432	26.16	664	91	41
G161006	16.00	406	n/a		8.00	203	26.06	662	n/a		3.50	89	17.30	439	23.38	594	26.93	684	115	52
STG WITH TUBULAR INLET																				
G120332	11.81	300	5.00	127	5.00	127	15.43	392	7.88	200	3.94	100	11.54	293	13.19	335	22.06	560	53	24
G160445	16.00	406	7.00	178	7.00	178	19.59	498	11.00	279	3.87	98	14.81	376	17.25	438	26.31	668	93	42
G161020 ¹	16.00	406	6.00	152	8.00	203	26.06	662	10.02	255	3.50	89	14.06	357	23.38	594	26.31	668	120	55

1 - G161020 has two inlets, each 6" (152mm) in diameter

NOTE: All STG models are tapped to accept a filter service indicator

HEAVY DUST

STG Service Parts

G140076

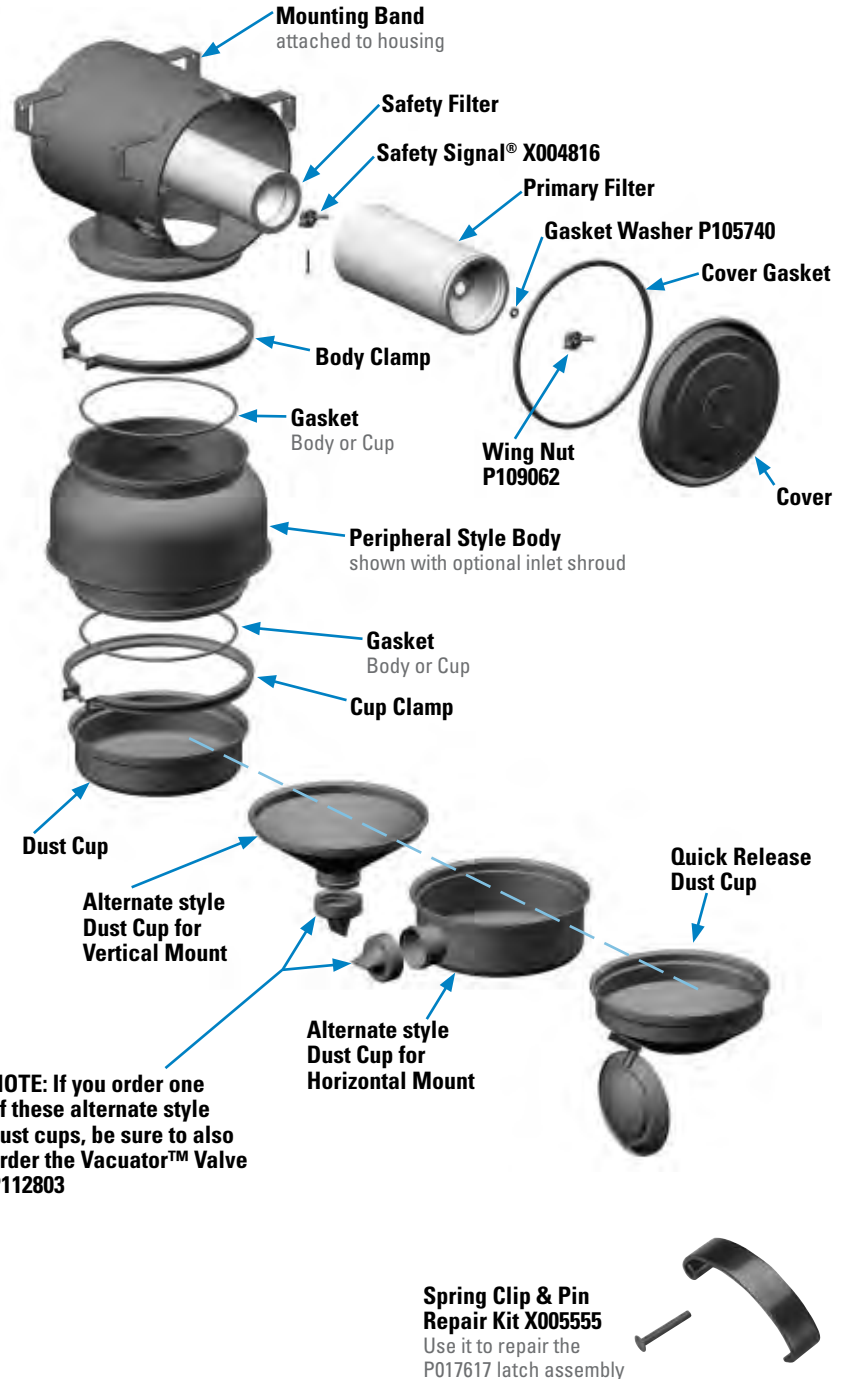
clamp, cup.....	P100866
cover latch assembly.....	P017617
dust cup.....	P100860 ....3
filter, primary - SM.....	P181041
filter, primary - ES & HE.....	EAF5041
filter, primary.....	P182041 ....3
filter, safety.....	P119370
gasket, body or cup.....	P017335
gasket, cover.....	P016972
gasket kit.....	X003538 ....9
inlet shroud (optional).....	P102870
mounting band.....	H000350 ....2
spring clip & pin.....	X005555

G160077

body, lower.....	P115023
clamp, body.....	P100780
clamp, cup.....	P100789
cover.....	P109153
cover latch assembly.....	P017617
dust cup.....	P100794 ....3
dust cup, quick release.....	P107377
dust cup, vac valve, horz.....	P103530
dust cup, vac valve, vert.....	P104973
filter, primary - SM.....	P181039
filter, primary - ES & HE.....	EAF5039
filter, primary.....	P182039 ....3
filter, safety.....	P114931
gasket, body or cup.....	P017336
gasket, cover.....	P017367
gasket kit.....	X003539 ....9
inlet shroud (optional).....	P101759
mounting band.....	H000351 ....2
spring clip & pin.....	X005555

G161006

clamp, body.....	P100780
clamp, cup.....	P100789
dust cup.....	P100794 ....3
dust cup, quick release.....	P107377
dust cup, vac valve, horz.....	P103530
dust cup, vac valve, vert.....	P104973
filter, primary - SM.....	P181042
filter, primary - ES & HE.....	EAF5042
filter, primary.....	P182042 ....3
filter, safety.....	P128408
gasket, body or cup.....	P017336
gasket, cover.....	P017367
gasket kit.....	X003539 ....9
inlet shroud (optional).....	P101759
mounting band.....	H000351 ....2



NOTE: If you order one of these alternate style dust cups, be sure to also order the Vacuator™ Valve P112803

NOTES:

- 2 = Two required for proper installation
- 3 = Shipped with air cleaner initially
- 9 = Gasket Kit includes all gaskets listed

ES = Extended Service
HE = High Efficiency
SM = Scheduled Maintenance

STG Service Parts

G120332

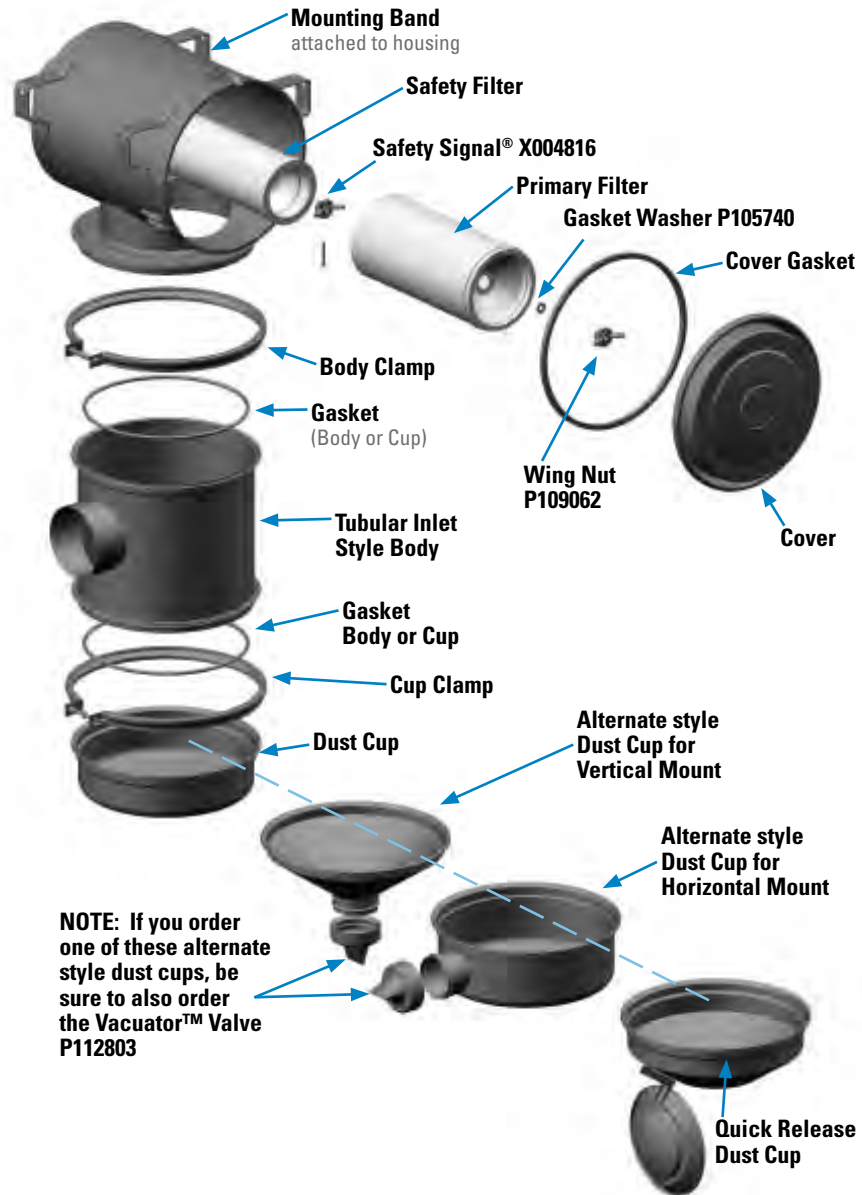
body, lower.....	P110875
dust cup, quick release	P107375
filter, primary - SM	P181044
filter, primary - ES & HE.....	EAF5044
filter, primary.....	P182044 .....3
filter, safety	P119371
gasket, body or cup	P017804
gasket, cover	P017365
mounting band.....	H000349.....2
spring clip & pin	X005555

G160445

cover	P109153
cover latch assembly	P017617
dust cup	P100794 .....3
dust cup, quick release	P107377
dust cup, vac valve, horz	P103530
dust cup, vac valve, vert	P104973
filter, primary - SM	P181039
filter, primary - ES & HE.....	EAF5039
filter, primary.....	P182039 .....3
filter, safety	P114931
gasket, body or cup	P017336
gasket, cover	P017367
gasket kit	X003539 .....9
mounting band.....	H000351 .....2
spring clip & pin	X005555

G161020

dust cup.....	P100794 .....3
dust cup, quick release	P107377
dust cup, vac valve, horz	P103530
dust cup, vac valve, vert	P104973
filter, primary - SM	P181042
filter, primary - ES & HE.....	EAF5042
filter, primary.....	P182042 .....3
filter, safety	P128408
gasket, body or cup	P017336
gasket, cover	P017367
gasket kit	X003539 .....9
mounting band.....	H000351 .....2



NOTE: If you order one of these alternate style dust cups, be sure to also order the Vacuator™ Valve P112803

NOTES:

- 2 = Two required for proper installation
- 3 = Shipped with air cleaner initially
- 9 = Gasket Kit includes all gaskets listed

ES = Extended Service
 HE = High Efficiency
 SM = Scheduled Maintenance

HEAVY DUST

S Series Donacclone Service Procedures

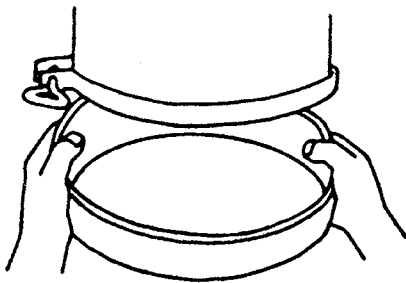
1 Measure Restriction

Measure the restriction of the air cleaner with a Donaldson filter service indicator, service gauge, or a water manometer via the restriction tap provided on the air cleaner or the transfer pipe. Replace the filter only when the restriction level has reached the maximum recommended by the engine or equipment manufacturer.



2 Empty the Dust Cup

The dust cup should be dumped when 2/3 full. (Frequency of dust cup service varies with dust severity.) When reinstalling dust cup, be sure it seals



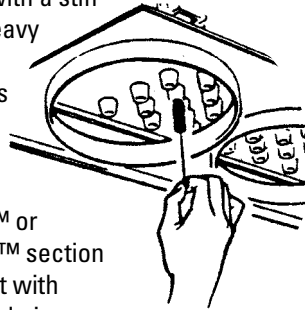
360° around the air cleaner body. On dust cups with Vacuator™ Valve, dust cup service is minimal; just check the Vacuator™ Valve to see that it is not inverted, damaged or plugged. If it is damaged, replace it immediately.



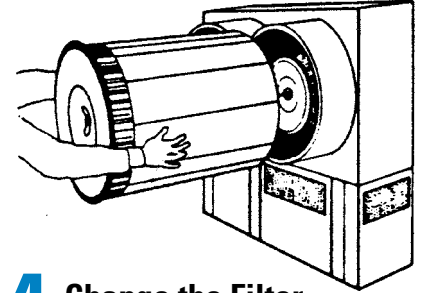
Vacuator™ Valve

3 Check Tubes for Plugging

When the dust cup is removed, check the tubes. Generally, Donacclone™ and Strata™ tubes are self-cleaning and need no service. Under special circumstances, however, plugging can begin. Visual inspection is adequate. If the tubes carry light dust, remove it with a stiff brush. If heavy plugging with fibrous material is evident, remove the Strata™ or Donacclone™ section and clean it with compressed air or water no hotter than 160°F/72°C.



Cleaning Note: Never clean Donacclone™ tubes with compressed air unless both the primary and safety filters are installed in the air cleaner. Do not steam-clean Donacclone™ or Strata™ tubes.



4 Change the Filter

When restriction indicates that filter service is required, loosen the wing nut and remove the primary filter. If the new filter is not to be installed immediately, be sure to cover the inlet with a cloth or the housing cover so that dirt is not ingested.

Before installing the new filter, inspect it for shipping damage and gasket integrity. If there's damage, DO NOT install it!

If the wing nut is held in place on the used filter with a C clip, remove it and reinstall on the new filter. Carefully install the new filter and the wing nut. Reset the filter service indicator to green.

5 Check System

Inspect and tighten all air cleaner system connections. If there are holes or damage, replace immediately. Inspect all gaskets for worn spots or damage. Annual replacement of air cleaner gaskets is recommended.

Save Maintenance Time & Costs Convert Older SRG Housing to new SSG Housing Style!

Replacing an older SRG housing with the new SSG housing allows you to simplify your routine filter service – no more separate gaskets at each filter change or removing a bolted on cover. SSG filters have radial seal end caps that provide a more reliable, consistent seal. Choose from an upper assembly conversion kit or you may want to install a complete new housing if your current SRG assembly needs repair or is reaching the end of its useful life.

HEAVY DUST

NEW

SRG Housing



Upper Body Conversion Kit



SSG Housing



Kit Order Information

SRG Housing

Item No.

- G200008
- G200013
- G290000
- G290023
- G290012

SRG to SSG Kit*

Kit No.

- X009702
- X009701
- X009230
- X009230
- X009231

SSG Housing

Item No.

- G200087
- G200086
- G290057
- G290052
- G290053

* The finish on the replacement kit upper assembly is a white, powdered-coated paint. Installation instructions are included with the kit.

Other Changes that Can Save you Time and \$\$ After Converting to an SSG!

Upgrade to Donaldson Endurance™ Filters

Donaldson Endurance, high efficiency filters are available for the the SSG product line. These filters have Donaldson advanced Ultra-Web® Filtration Technology to protect your engines from the smallest contaminant.



Install Dust Dumpa

Dust Dumpa is a direct replacement to our dust cups. You can greatly reduce, if not eliminate, the routine step of emptying the dust cup - two models available X006561 [left] and X006562 [right] .



SRG Donaclone Protects the Largest Engines

For Newer Technologies, Spec the SSG Air Cleaner or Convert Old Models to SSG Style!

Upgrade old SRG housings two ways: upgrade kit or a new SSG air cleaner!

Applications

- Allows 1700 to 4080 cfm airflow throughput per air cleaner – use two air cleaners to double airflow throughput
- Designed for large, high horsepower, off-road equipment
- For large engines operating in severe dust environments

A huge double-unit SRG29 engine air cleaner, protects this haul truck under severely dusty operating conditions. The SRG29 has three dust cups on the bottom of the unit.



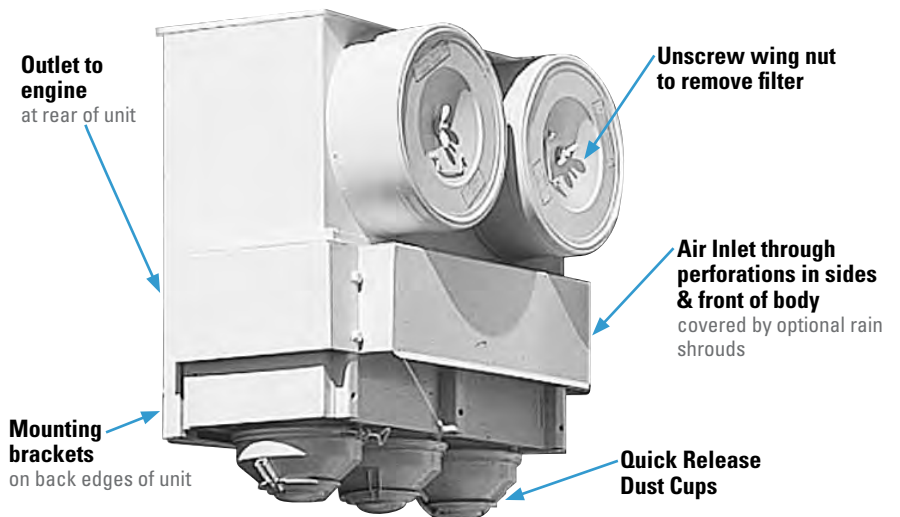
Air Cleaner Features

- Single outlet: SRG20 (1 filter)
Dual outlet: SRG29 (2 filters)
- Very reliable! Only one critical filter seal! No moving parts!
- Built-in Donaclone pre-cleaning tubes separate up to 97% of incoming dust to dust cup before it reaches the filter
- SRG air cleaners are finished with a red oxide primer, ready to be painted to match your equipment
- Dust cup options:
 - Dust Cup Kit with Dust Dumpa
 - Quick-release, for manual dumping (shipped with SRG initially)
 - Vacuator Valve, for automatic dumping (optional replacement style)
- Vertical mounting
- Perforated inlets on all models
- Heavy metal rain shrouds available optionally
- Taps for filter service indicators on all models

This SRG20 (single outlet style) with rain shroud is easy to service because the access cover, which is out front, is attached to the filter. Simply unscrew the wing nut and pull the filter out horizontally. Inside, a safety filter protects the air inlet during filter changeout.



HEAVY DUST



STOP!

The SRG air cleaner models will be phased out over time and replaced with our new SSG air cleaners with design improvements over this style.

Upgrade from SRG housings to new SSG!

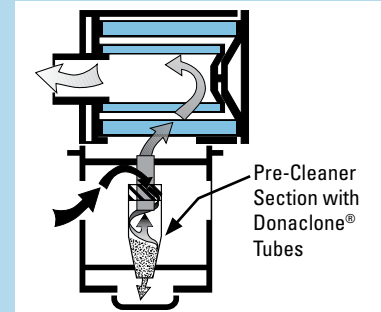
SRG Model	SSG Model
G200008	G200087
G200013	G200086
G290000	G290057
G290023	G290052
G290012	G290053

Initial Airflow Restriction

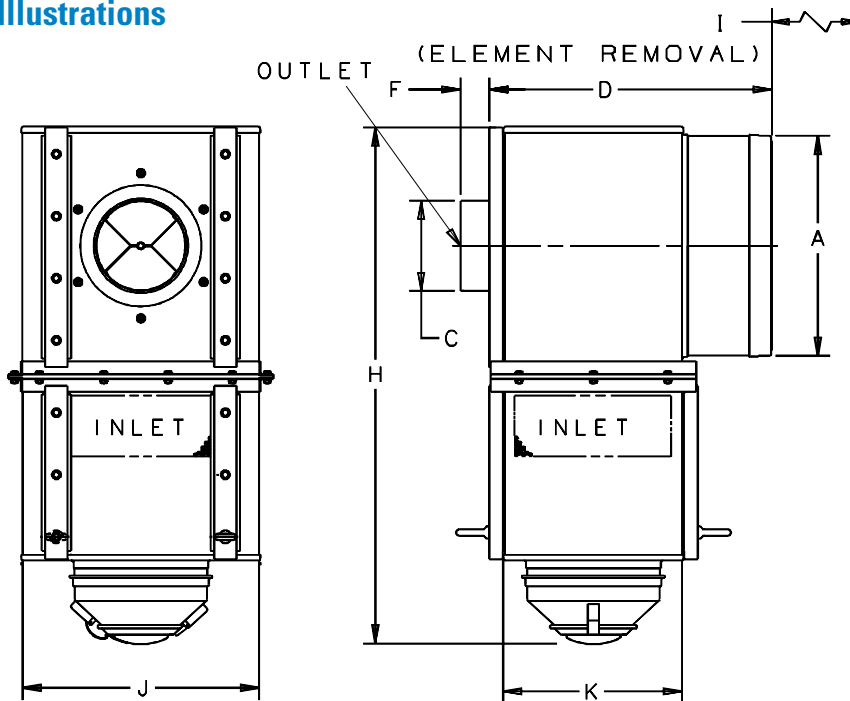
CFM @ "H2O		Air Cleaner Model
6"	8"	
1700	1980	G200008
1780	2060	G200013
2580	3000	G290000
3340	3800	G290023
3600	4080	G290012

Airflow Pattern "G"

Air in the side, through the pre-cleaner, out the end of the air cleaner (upper) portion.



SRG Specification Illustrations



SRG Specifications

Air Cleaner Models	Body Diameter (A)		Outlet Diameter (B)		Length (C)		Outlet Length (D)		(H)		Service Clearance (I)		Width (G)		Depth (K)		Service Indicator Tap	Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		lbs	kg
SINGLE OUTLET MODELS																			
G200008	19.50	495	8.00	203	25.03	636	2.54	65	46.13	1172	23.75	603	21.00	533	15.75	400	Yes	225	102
G200013	19.50	495	10.00	254	25.03	636	2.54	65	46.13	1172	23.75	603	21.00	533	15.75	400	Yes	200	91
DUAL OUTLET MODELS																			
G290000	19.50	495	8.00	203	25.03	636	2.54	65	45.28	1150	23.75	603	43.00	1092	15.75	400	Yes	340	154
G290012	19.50	495	10.00	254	25.03	636	2.54	65	45.28	1150	23.75	603	43.00	1092	15.75	400	Yes	340	154
G290023	19.50	495	8.00	203	25.03	636	2.54	65	45.28	1150	23.75	603	43.00	1092	15.75	400	Yes	340	154

HEAVY DUST

SRG20 Service Parts

Primary Filter Choices

G200008

filter, primary - SM P181038
 filter, primary - ES & HE EAF5038
 filter, primary P1820383

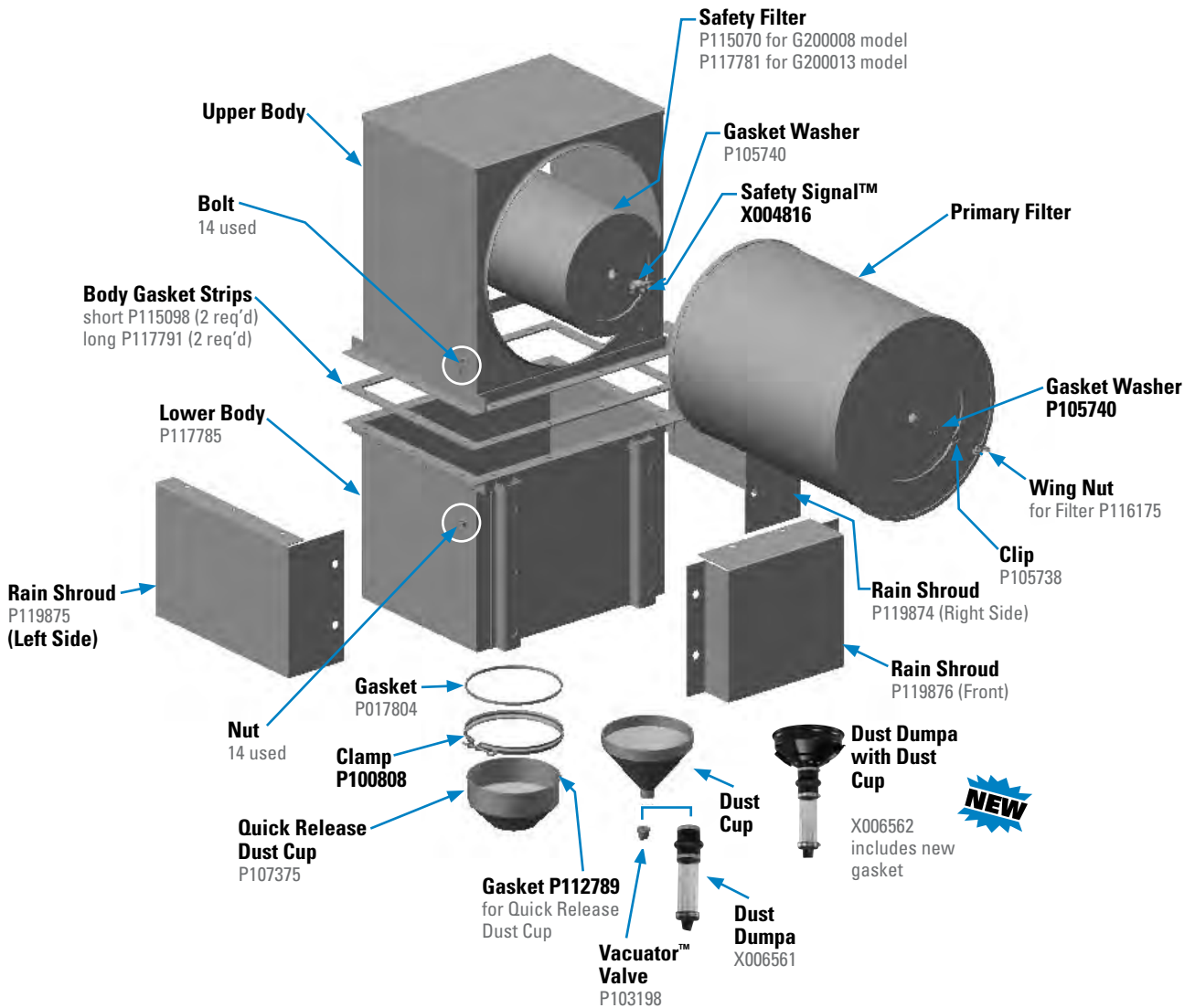
G200013

filter, primary - SM P181040
 filter, primary - ES & HE EAF5040
 filter, primary P182040 3

NOTES:

3 = Shipped with air cleaner initially

ES = Extended Service
 HE = High Efficiency
 SM = Scheduled Maintenance



Donaclone Tubes



The pre-cleaner of our SRG and STG air cleaners consists of a cluster of hundreds of Donaclone tubes positioned ahead of the primary filter. The Donaclone tube has no mechanical moving parts, so there's nothing to break down; it works automatically and properly whenever the engine is on.

Air is drawn into the tube and spun. Centrifugal force separates much of the dirt in the airstream. Dirt falls out the bottom of the tube, while the cleaned air is drawn up the through the middle of the tube, into the primary filter for further cleaning. Using the pre-cleaner as a first stage of filtration results in more effective engine air filtration and longer service life for the primary filter.

SRG Maintenance Training DVD (item F115259) available upon request. Contact your local Donaldson distributor or Territory Manager for a FREE copy! Available in English, Spanish & Portuguese



SRG29 Service Parts

Primary Filter Choices

G290000 & G290023

filter, primary - SM P181038
 filter, primary - ES & HE..... EAF5038
 filter, primary..... P1820383

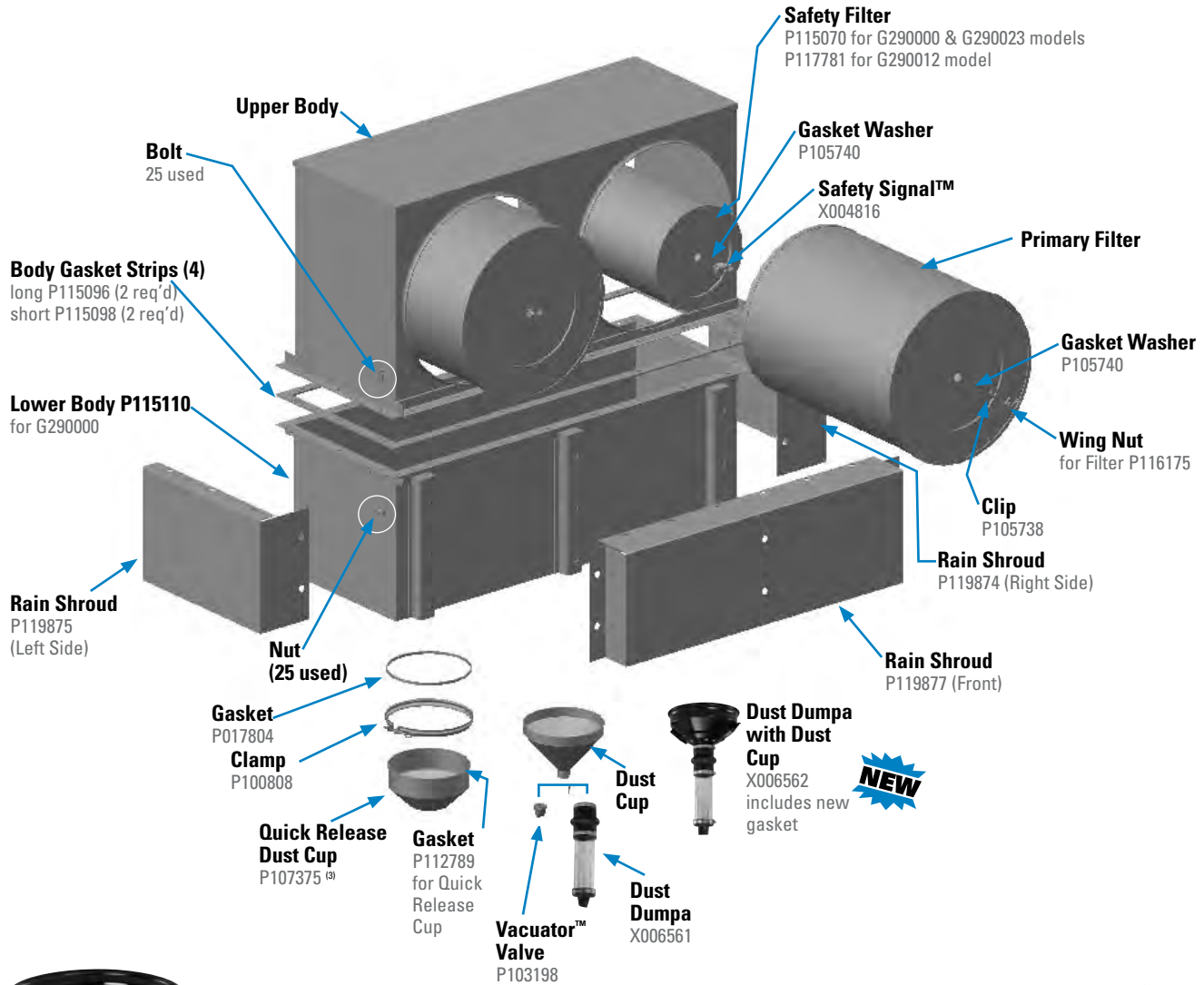
G290012 Filters

filter, primary - SM P181040
 filter, primary - ES & HE..... EAF5040
 filter, primary..... P1820403

NOTES:

3 = Shipped with air cleaner initially

ES = Extended Service
 HE = High Efficiency
 SM = Scheduled Maintenance



Part No.
X006562

Dust Dumpa Tube Extension

How it works: When installed on the dust cups on the lower assembly, the rubber connector vibrates during normal vehicle operation and gravity expels the pre-cleaned dust.

- Improves dust evacuation from the air cleaner
- Clear tube allows for visual inspection of dust collection

- Reduces air cleaner inspection time
- Ships fully assembled
- Proper conversion requires a Dust Dump tube extension for every dust cup

Order X006562 if your housing has a quick release style dust cup. Order X006561 if regular dust cup.

For more information, see accessories section.



The All-in-One STB Strata™ System Air Cleaner and Pre-Cleaner In One Package

Applications

- Allows 1050 to 1400 cfm airflow throughput per air cleaner
- For severe dust conditions, usually off-road applications: crawler tractors, scrapers, loaders, large agricultural tractors
- Horizontal installation

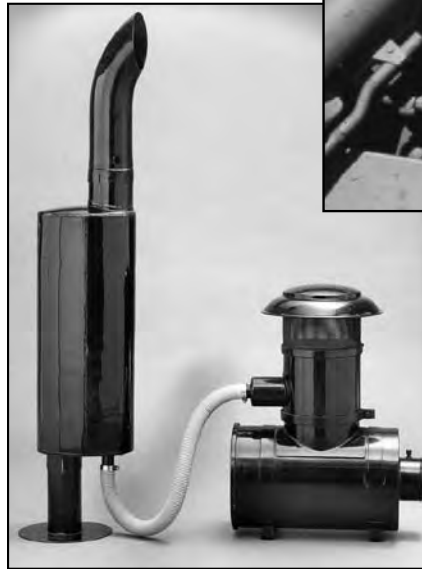
Air Cleaner Features

- Air cleaner and pre-cleaner in one package (exhaust ejector, scavenge hose and clamps sold separately)
- Pre-cleaned dust is ejected with the engine exhaust through an aspirated muffler or exhaust ejector
- Airflow pattern "B": air through the pre-cleaner, out the end of the air cleaner
- Perfect for:
 - turbocharged engines
 - intercooled engines
 - naturally aspirated engines
- Fitting for filter service indicator on all models
- Finished in corrosion-resistant paint
- Weight: 78 lbs. (35.4 kg)

Filter Features

- Two replacement filter choices: standard life filter for shops that service air cleaners on scheduled maintenance (shipped with STB initially), or extended life filter for those who measure restriction to obtain full filter life
- Safety filter on all models provide continuous protection during primary filter changeout

For installation instructions on the STB system, see the general information section.

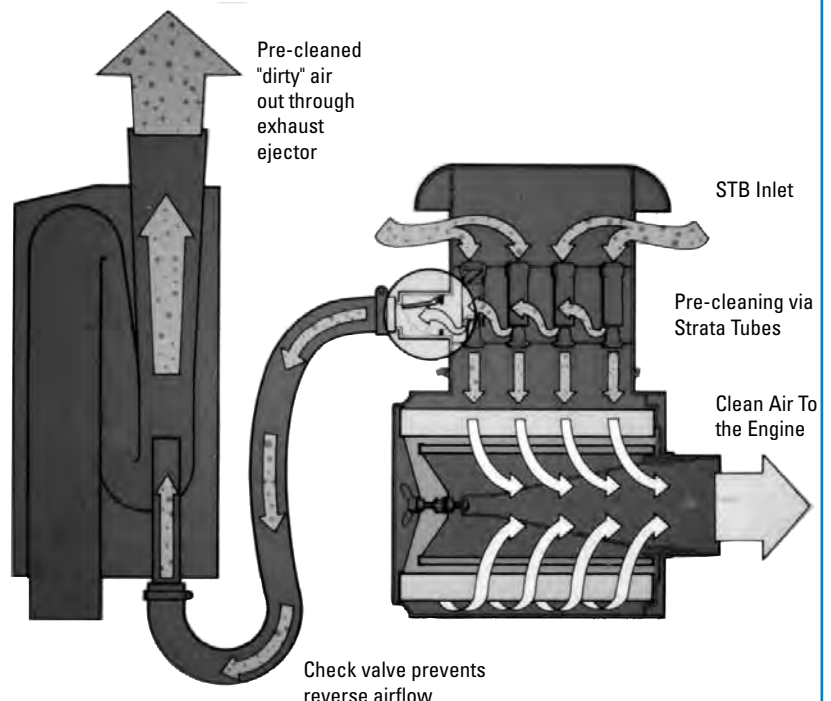


HEAVY DUST

The STB Strata™ System protects heavy duty engines (like this one operating in severe dust conditions) with two-stage filtration and the convenience of aspirated dust ejection.

Ejector muffler, hose and clamps not included with B160071 - order parts separately.

How the Strata™ System Works



When spec'ing an Air Cleaner . . .

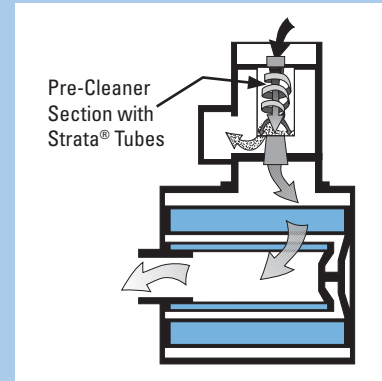
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc.

Initial Airflow Restriction

6"	CFM @ "H ₂ O		Air Cleaner Model
	8"	10"	
1050	1225	1400	B160071

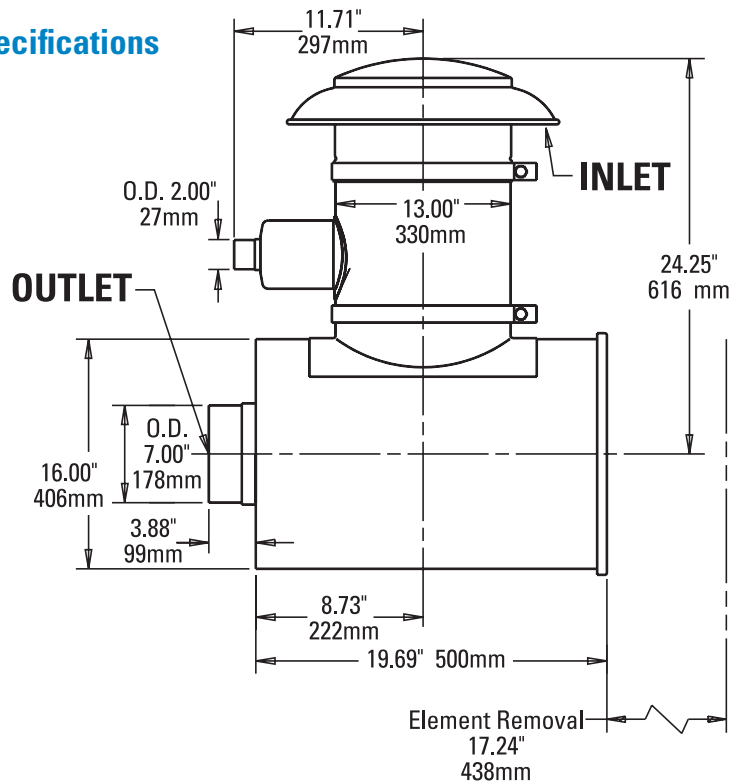
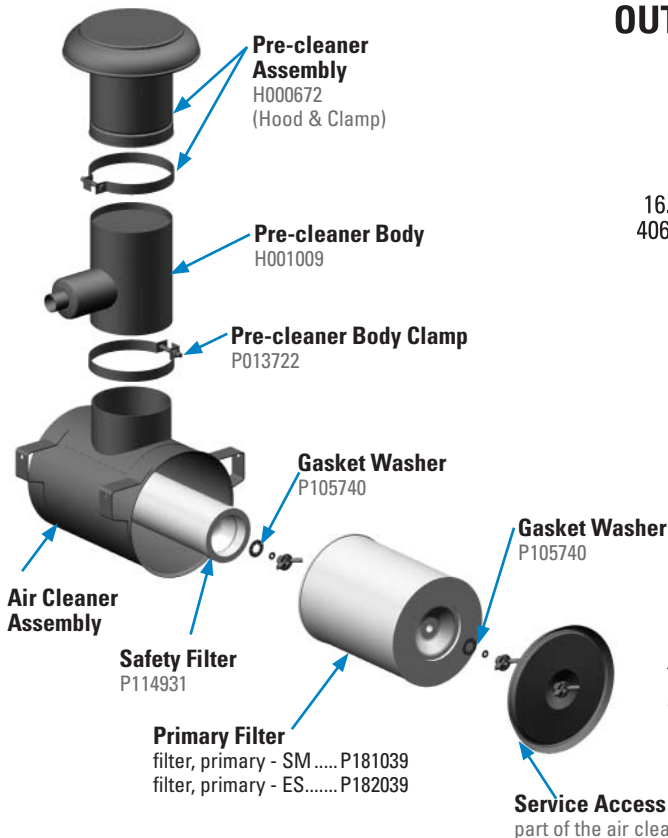
Airflow Pattern "B"

Air in through the pre-cleaner, out the end of the air cleaner (lower) portion.



STB B160071 Specifications

B160071



The STB is tapped to accept a filter service indicator

HEAVY DUST



When you need to...

Set Filter Service Schedule:

- Restriction indicators - go-no-go, lock-up styles, electric, in-field manometers, safety filter indicator

Aspirate (or scavenge) an intake system:

- Donaspin™
 - Exhaust Ejectors
 - Air Stack Extension
 - Ejector Check Valve

Evacuate air cleaner dust:

- Vacuator™ Valves
- Quick Release Dust Cups
- Dust Dumpa Tube Extension
- DonaSpin
- STB Air System

Solve air intake water problems:

- Air Ram™ Inlet Hood
- In-line Moisture Skimmer
- In-line Moisture Separator
- Stack Top Moisture Eliminator

Pre-clean or protect air inlet from debris:

- Inlet Hoods
- TopSpin Pre-Cleaner
- Full-View Pre-Cleaner
- Donaspin™
- Air Ram™ Inlet Hood
- In-line Separator

Connect intake components:

- Rubber Elbows and Connectors
- Clamps
- Aluminum Tubing
- Rubber and Silicone Hump/Reducers
- Charge Air Connectors

Mount or install an air cleaner

- Mounting Bands
- Straight Pipe

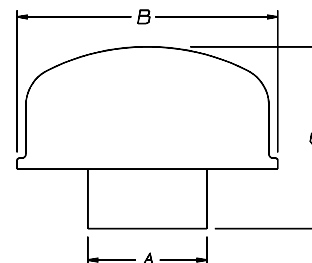
Section Index

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Protection Against Large Debris Ingestions

- Protects engine air intake from rain, snow, birds, and other large contaminants
- Mounts on stack or directly to air cleaner for on-road and off-road equipment
- Four styles in a wide variety of sizes
- Installs easily with one clamp. Clamp included with hood on styles B, C and D

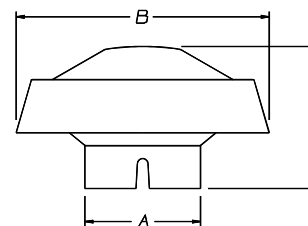
INTAKE ACCESSORIES



Inlet Hood - Style A¹

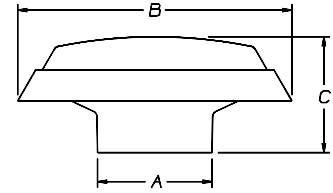
Fits O.D. (A)		Hood Dia. (B)		Height (C)		Add to Stack		Mat'l	Rain Shroud?	Weight		Part Number
inch	mm	inch	mm	inch	mm	inch	mm			lbs	kgs	
1.75	44	4.13	105	3.31	84	2.75	70	Metal	No	0.50	0.22	X002017
2.00	51	4.13	105	3.25	83	2.75	70	Metal	No	0.50	0.22	X002018
2.25	57	5.24	133	3.97	101	3.50	89	Metal	No	0.80	0.36	X002019
2.50	64	5.25	133	3.97	101	3.50	89	Metal	No	0.80	0.36	X001966
3.00	76	6.13	156	5.06	129	3.75	95	Metal	No	1.10	0.50	X002014
3.75	95	8.06	205	7.75	197	6.00	152	Metal	No	2.10	0.95	X001988
4.00	102	8.06	205	7.88	200	6.00	152	Metal	No	2.00	0.90	X002015

1 - Clamps must be ordered separately for this style.



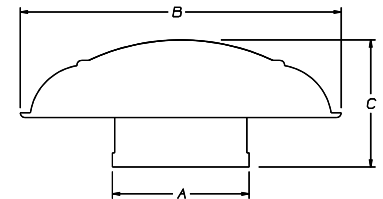
Inlet Hood - Style B

Fits O.D. (A)		Hood Dia. (B)		Height (C)		Add to Stack		Mat'l	Rain Shroud?	Weight		Part Number
inch	mm	inch	mm	inch	mm	inch	mm			lbs	kgs	
1.75	44	6.00	152	3.37	86	2.05	52	Plastic	No	0.20	0.09	H002068
2.00	51	6.00	152	3.31	84	2.50	64	Plastic	No	0.20	0.09	H001377
2.50	64	6.00	152	3.31	84	2.50	64	Plastic	No	0.20	0.09	H001378
3.00	76	6.00	152	3.31	84	2.50	64	Plastic	No	0.20	0.09	H001379



Inlet Hood - Style C

Fits O.D. (A)	Hood Dia. (B)		Height (C)		Add to Stack		Mat'l	Rain Shroud?	Weight		Part Number	
	inch	mm	inch	mm	inch	mm			lbs	kgs		
3.00	76	11.50	292	5.88	149	3.63	92	Plastic	No	1.10	0.50	H001063
3.75	95	11.50	292	5.13	130	3.63	92	Plastic	No	0.80	0.36	H000466
		11.50	292	5.13	130	3.63	92	Plastic	Yes	1.00	0.45	H000473
4.00	102	11.50	292	5.06	129	3.38	86	Plastic	No	0.90	0.40	H000467
		11.50	292	5.06	129	3.38	86	Plastic	Yes	1.00	0.45	H000472
4.50	114	11.50	292	4.88	124	3.38	86	Plastic	No	0.80	0.36	H000468
		11.50	292	4.88	124	3.38	86	Plastic	Yes	1.00	0.45	H000471
5.00	127	11.50	292	4.88	124	3.31	84	Plastic	No	0.80	0.36	H000469
		11.50	292	4.88	124	3.31	84	Plastic	Yes	1.00	0.45	H000470
		16.00	407	5.75	146	3.31	104	Plastic	Yes	1.80	0.80	H000605
5.50	140	16.00	407	5.75	146	4.94	125	Plastic	Yes	1.80	0.80	H000604
6.00	152	16.00	407	5.75	146	4.94	125	Plastic	Yes	1.80	0.80	H000606
		13.00	330	4.06	103	2.69	68	Bright	No	1.50	0.68	H001756
		16.00	406	5.69	145	4.25	108	Bright	Yes	1.50	0.68	H001948
7.00	178	12.81	325	4.81	122	3.44	87	Bright	No	1.50	0.68	H001773
		13.00	330	3.88	99	2.50	64	Bright	No	1.50	0.68	H001742
		16.00	406	5.75	146	4.09	104	Plastic	Yes	1.80	0.80	H000607
		16.00	406	5.69	145	4.25	108	Bright	Yes	1.50	0.68	H001947
8.00	203	16.00	406	6.19	157	4.69	119	Plastic	Yes	1.80	0.80	H001053
		16.00	406	6.19	157	4.60	117	Bright	Yes	1.50	0.68	H001946



Inlet Hood - Style D

Fits O.D. (A)	Hood Dia. (B)		Height (C)		Add to Stack		Mat'l	Rain Shroud?	Weight		Part Number	
	inch	mm	inch	mm	inch	mm			lbs	kgs		
4.50	114	9.50	241	4.69	119	3.69	94	Metal	No	3.20	1.44	H000170
5.00	127	9.50	241	4.69	119	3.69	94	Metal	No	3.30	1.50	H000165
6.00	152	9.50	241	4.69	119	3.69	94	Metal	No	3.10	1.40	H000275
		9.50	241	4.69	119	3.69	94	Metal	Yes	3.20	1.44	H000276
7.03	179	17.00	432	6.75	171	5.75	146	Metal	No	4.60	2.08	H000339
10.00	256	15.98	406	7.42	188	5.28	134	Metal	No	5.0	2.27	H770082

TopSpin™ Can Extend Filter Life in Heavy Dust Conditions

Donaldson TopSpin™ will extend primary air filter life, boost system efficiency and extend engine life!

Features

Separates up to 85% of incoming contaminant per ISO 5011/SAE J726

- Greatly extends air filter life
- Reduces air filter usage
- Lowers cost per operating hour
- Automatically ejects mixed debris
- Separates more than 99% of 20 micron and above particles



Operates at a lower RPM

- Less noise
- Longer bearing life
- Lower restriction

Self-cleaning/self-scavenging

- No maintenance to clean bowl
- No exhaust ejector required

Easy installation

- Quick installation
- One clamp to tighten
- No wires or power requirements

Dual mounted bearings

- More robust design
- Extends bearing life

Lighter Weight

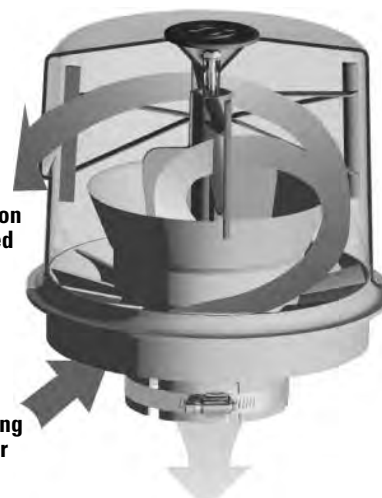
- Lighter than competitive pre-cleaners
- Lighter than Donaldson full-view pre-cleaner

Application

- Engine airflows of 80 to 1500 cfm (2.3-42.5 m³/min).
- Primarily used in medium to heavy dust environments.
- Great for off-road vehicles and equipment from crawler tractors to farm tractors to skid steer loaders.
- Recommended mounting: on top of the air cleaner inlet stack.



Donaldson TopSpin™ mounted on a grader - The aerodynamically designed TopSpin is made of a lightweight, durable, non-corroding material which makes it tolerant to all weather and operating conditions.



More than 99% of contaminant 20 micron and larger is expelled

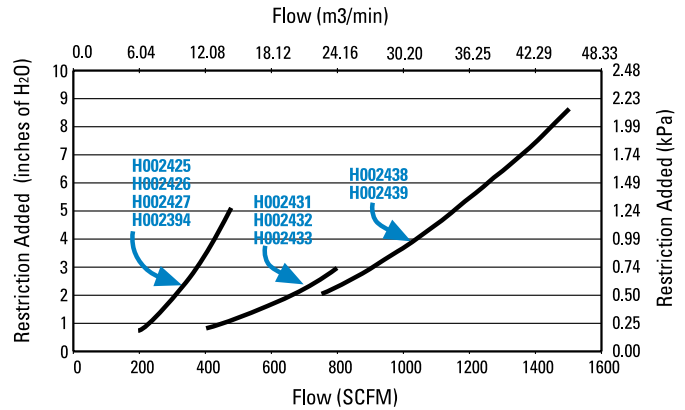
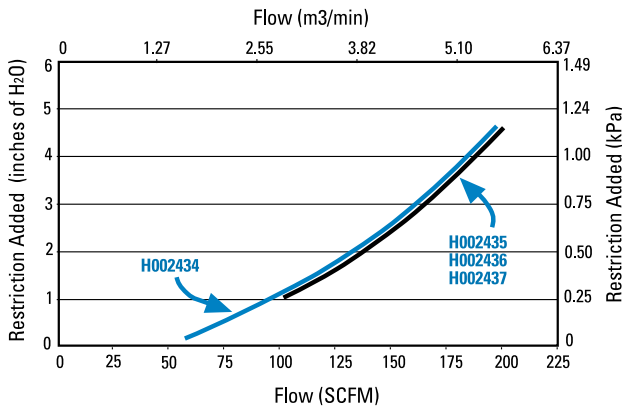
Incoming dirty air

Pre-cleaned air entering the intake system

TopSpin™ pre-cleaners are protected internationally by patents, trademarks, and design registrations, both issued and pending.

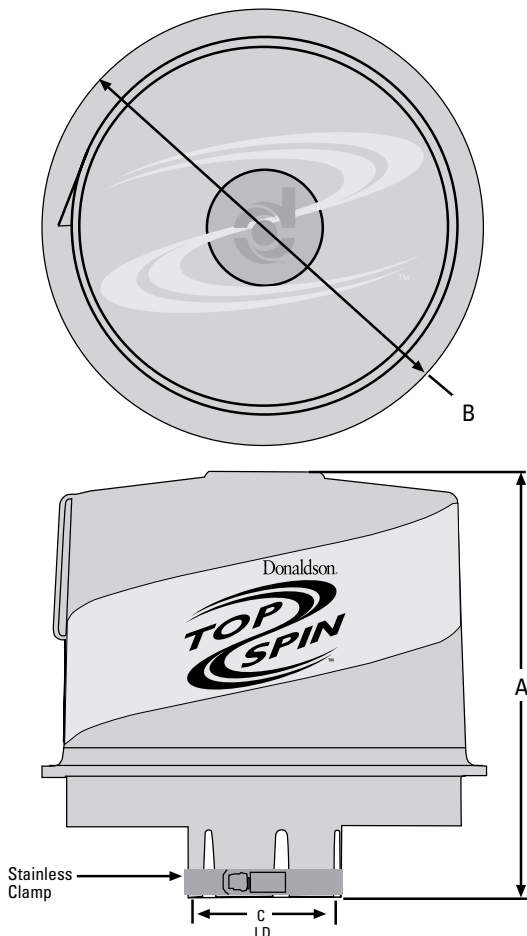
Performance Curves

Multiple tests conducted per ISO 5011/SAE J726 and average results are shown in charts below.



Dimensional Specifications

Donaldson TopSpin can be mounted horizontally or vertically. Installation instructions, stainless clamp and warranty are included. Operating temperature range: -40°F to 180°F (-40°C to 82°C)

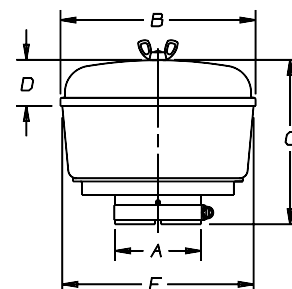


Outlet I.D. (C)		Overall Height (A)		Body Dia. (B)		Part Number	Weight	
in	mm	in	mm	in	mm		lbs.	kg.
2.03	56	5.75	146	6.38	162	H002434	1.0	0.4
2.27	58	5.75	146	6.38	162	H002435	1.0	0.4
2.53	64	5.75	146	6.38	162	H002436	1.0	0.4
3.03	77	5.75	146	6.38	162	H002437	1.0	0.4
3.07	78	9.39	238	9.51	242	H002425	2.2	1.0
3.83	97	9.39	238	9.51	242	H002426	2.2	1.0
4.06	103	9.39	238	9.51	242	H002394	2.2	1.0
		11.30	287	11.32	288	H002431	2.7	1.2
4.56	116	9.39	238	9.51	242	H002427	2.2	1.0
		11.30	287	11.32	288	H002432	2.7	1.2
5.03	128	11.30	287	11.32	288	H002433	2.7	1.2
6.03	153	13.57	345	15.62	397	H002438	6.0	2.7
7.03	179	13.57	345	15.62	397	H002439	6.0	2.7

Cross reference from a full view pre-cleaner to a TopSpin pre-cleaner is on page 88.

Full-View Pre-Cleaner Helps Extend Filter Life on Agricultural & Construction Equipment

Donaldson has a new pre-cleaner called TopSpin™. Before you consider replacing your full-view pre-cleaner with another one, check out the TopSpin models on the previous two pages.



Upgrade Path

Full-View Pre-Cleaner	TopSpin Pre-Cleaner
-----------------------	---------------------

H000820	H002425
H000821	H002426
H000858	H002394
H000823	H002427
H001250	H002435
H001251	H002436

H001249	H002437
H001823	H002434
H002043	H002433
H002044	H002432
H002045	H002431
H002223	H002438
H002224	H002439

Features

- Recommended mounting: on top of the engine intake stack
- Centrifugal force in bowl separates up to 75% of incoming dust before it enters the engine air intake system
- Low maintenance!
- Durable, lightweight, noncorrosive construction
- Full-view plastic bowl lets operator easily see when service is needed
- One-bolt cover retention for service when dirt reaches the level of the arrow, remove top nut and plastic body then empty – no tools required
- Mounting clamp included

Full-View Pre-Cleaners Specifications

Inlet (ID/OD)		B		C		D		E		Weight		Entire F.V. Pre-Cleaner	Replacement		Max. Airflow CFM
A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	lbs	kg		Cover	Bowl	
1.75	44	5.59	142	4.75	121	1.72	44	5.50	140	0.8	0.37	H002042	P020116	P020115	80
2.00	51	5.59	142	4.75	121	1.72	44	5.50	140	0.9	0.41	H002040	P020116	P020115	90
		7.34	186	6.19	157	1.72	44	7.25	184	1.4	0.64	H001823 ¹	P020648	P020227	110
2.25	57	7.34	186	6.19	157	1.72	44	7.25	184	1.5	0.68	H001250	P020648	P020227	130
2.50	64	7.34	186	6.19	157	1.72	44	7.25	184	1.5	0.68	H001251	P020648	P020227	150
3.00	76	7.34	186	6.19	157	1.72	44	7.25	184	1.6	0.73	H001249	P020648	P020227	170
		10.63	270	7.66	195	1.84	47	10.50	267	3.4	1.54	H000820 ¹	P016548	P016330	320
3.75	95	10.63	270	7.66	195	1.84	47	10.50	267	3.4	1.54	H000821	P016548	P016330	330
4.00	102	10.63	270	7.66	195	1.84	47	10.50	267	3.4	1.54	H000858	P016548	P016330	340
		12.06	306	8.19	208	2.00	51	11.94	303	4.5	2.04	H002045 ¹	P020345	P020344	660
4.50	114	10.63	270	7.66	195	1.84	47	10.50	267	3.4	1.54	H000823	P016548	P016330	340
		12.06	306	8.19	208	2.00	51	11.94	303	4.5	2.04	H002044 ¹	P020345	P020344	700
5.00	127	12.06	306	7.69	195	2.00	51	11.94	303	4.5	2.04	H002043	P020345	P020344	740
6.00	152	16.25	413	10.00	254	2.81	71	15.94	405	9.2	4.17	H002223	P104691	P158324	1300
7.00	178	16.25	413	10.00	254	2.81	71	15.94	405	9.2	4.17	H002224	P104691	P158324	1500

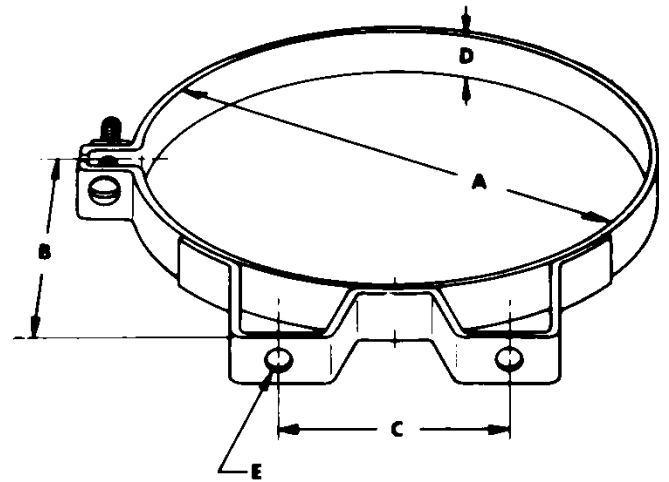
1 - Heavy Duty Option

Many Sizes Designed To Fit All Donaldson Air Cleaners



Most of our air cleaners with metal housings require two mounting bands.

- Durable, corrosion resistant, steel construction
- Fully engineered and tested to resist the adverse effects of vibration
- Mounting band feet are designed to ensure maximum torque pressure, continuously
- Gauge of steel increases as diameter of mounting band increases
- Bright stainless models available
- Bolt and nut included with mounting band



Air Cleaner Mounting Bands

A		B		C		D		E		Weight		Max. Bolt Torque		Part Number
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg	lbs-ft	N•m	
4.00	102	2.56	65	2.50	64	.75	19	.31	8	0.30	0.14	1.50	2.03	P007189
5.25	133	3.19	81	3.25	83	.88	22	.34	9	0.70	0.32	1.50	2.03	P002348
6.00	152	3.56	90	3.25	83	1.00	25	.34	9	0.80	0.36	1.50	2.03	P002351
6.50	165	3.88	99	3.75	95	.88	22	.41	10	0.70	0.32	2.00	2.71	P007191
7.00	178	4.13	105	4.50	114	.88	22	.30	8	0.80	0.36	3.00	4.07	P004906
7.75	197	4.44	113	4.25	108	1.00	25	.34	9	0.90	0.41	3.50	4.75	P003245
8.00	203	4.50	114	4.25	108	1.00	25	.34	9	1.10	0.50	4.00	5.42	P004307
9.00	229	5.13	130	4.5	114	1.25	32	.45	11	1.50	0.68	4.00	5.42	P004073
10.19	259	5.75	146	5.00	127	1.25	32	.45	11	1.50	0.68	4.00	5.42	P004076
11.00	279	6.13	156	5.00	127	1.25	32	.45	11	1.70	0.77	4.00	5.42	P004079
11.81	300	6.88	175	6.00	152	1.50	38	.41	10	2.50	1.13	4.00	5.42	H000349
13.00	330	7.25	184	6.00	152	1.50	38	.41	10	2.80	1.50	4.00	5.42	P013722
		7.25	184	6.00	152	1.50	38	.41	10	2.80	1.50	4.00	5.42	P522439*
14.00	356	8.13	207	8.00	203	1.50	38	.47	12	3.70	1.68	5.00	6.78	H000350
15.00	381	8.00	203	8.00	203	1.50	38	.47	12	4.10	1.86	6.00	8.14	P016845
		8.00	203	8.00	203	1.50	38	.47	12	4.10	1.86	6.00	8.14	P524552*
16.00	406	9.13	232	10.00	254	1.50	38	.47	12	4.75	2.16	5.00	6.78	H000351
18.00	457	9.2	234	15.75	400	1.96	50	.55	14	5.25	2.38	5.00	6.78	H770037
19.29	490	10.97	279	19.29	490	1.96	50	.55	14	6.39	2.9	5.00	6.78	H770068

* Bright Stainless Model

Filter Service Indicators Maximize Filter Life

Typical mounting options: on the air cleaner outlet tube, on the intake duct, or remote

Replacing filters based on restriction readings can reduce your maintenance costs significantly. Visual inspection of air filters is not adequate and should not dictate service life. Filters that appear very dirty may still contain a great amount of service life.

Over-servicing and excessive handling of the filter can result in serious consequences: filter damage, improper installation, intake contamination from ambient dust, and/or increased service cost, time and material. In contrast, filter service based on restriction readings can enable you to obtain the longest life possible from the filter, and the best engine protection.

Restriction Readings, Where & When

Restriction readings are normally taken at the air cleaner on the clean side of the air filter. If the air cleaner does not have a restriction tap, readings can be taken anywhere in the system between the air cleaner and the engine. To measure restriction of a naturally aspirated diesel engine, the reading is taken at full-governed RPM with no load.



Filter service indicators are very effective when mounted on the outlet tube of the air cleaner, as is The Informer™ above. This gives the operator constant & accurate visibility of filter life.

Two methods are used to measure the restriction of turbo-charged engines. The first method is to take the reading with the truck on a dynamometer under full load. This result is actual restriction. A locking step gauge is the other method. This popular method will give actual, on-the-road peak readings.

Choose Restriction Measurement Tools that Best Fit Your Applications

Donaldson offers a variety of restriction measuring devices that help you get maximum filter utilization. All measure restriction in inches of water vacuum. All are resistant to vibration, breakage, weather, corrosion, dust and dirt to assure reliable filter restriction readings.



Continuous Reading devices show how much life is left in the filter:

- The Informer™
- Service Gauge for Instrument Panel

Go/No-Go restriction readings on heavy-duty vehicles:

- ServiSignal™
- Visual Restriction Indicator
- Electrical Indicator
- SafetySignal™ for safety filters

In-Field restriction readings on light and medium-duty vehicles:

- In-Field Service Gauge Kit

Maximum Engine Manufacturers Recommended Restriction Limits

Maximum allowable restriction limits are set by the engine manufacturers. If your maximum limit is unknown, contact your engine manufacturer for the maximum limits. Maximum levels are measured at high idle with no load for naturally aspirated and super-charged diesel engines. Turbo-charged diesel, gasoline and carbureted engines are measured at full load with a wide open throttle.

Examples shown in Inches of Water (H₂O) and kiloPascals

Engine Maker	Diesel, Naturally Aspirated	Diesel, Turbo Charged	Compressed Natural Gas
Detroit Diesel	25" / 6.2 kPa	20" / 5 kPa	20" / 5 kPa
Cummins	20" / 5 kPa	25" / 6.2 kPa	15" / 3.7 kPa
Caterpillar	30" / 7.5 kPa	30" / 7.5 kPa	15" / 3.7 kPa
Mack		E7: 20" / 5 kPa E9: 25" / 6.2 kPa	
Navistar		30" / 7.5 kPa	
Volvo		30" / 7.5 kPa	

NOTE: These figures are general guidelines. Restriction limits on specific engine models may vary. Consult your engine manufacturer for definite figures.

Hand tighten filter service indicators (30-40 lbs./inch maximum).

The Informer™ for Graduated, Continuous Readings

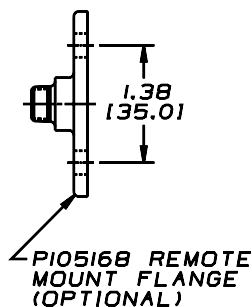
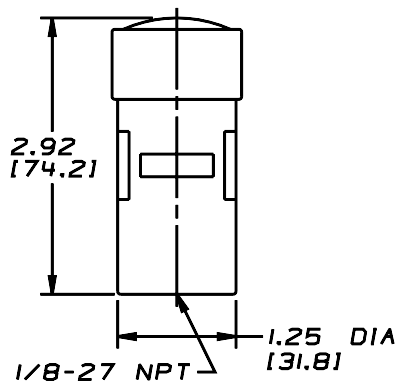


The Informer, when mounted on the air cleaner or the dashboard, provides a continuous reading whether the engine is running or is shut down. Reset button is on top. Kit includes full installation instructions and

a P100089 safety filter fitting. For remote mounting, order a P105168 flange and a P105622 90° elbow.

The Informer™

Restriction Limit	Gauge Only	Kit (gauge & fitting)
20" H ₂ O/5 kPa	X002278	X002103
25" H ₂ O/6.2 kPa	X002277	X002102
30" H ₂ O/7.5 kPa	X002275	X002101



The Mini-Informer™ for Light & Medium Trucks

The Mini-Informer restriction gauge is designed to mount in the plastic air cleaners of passenger cars, light trucks, and sport utility vehicles. It's an accurate, durable, easy-to-read "go/no go" style indicator, smaller than the original Informer.

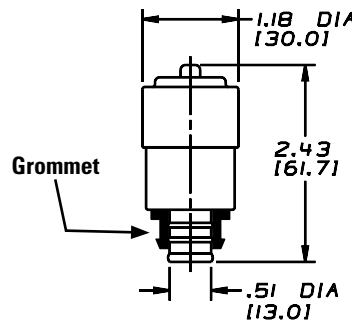


Through the clear window, a green flag shows when air filter restriction is below the service point. When the restriction reaches its limits, an orange flag imprinted with "change filter" pops up.

The Mini-Informer mounts in the air cleaner ducting in a rubber grommet.

The Mini-Informer™

Restriction Limit	Gauge & Grommet	Gauge Only
25" H ₂ O/6.2 kPa	X007276	X007335



ServiSignal™ Mini Indicator

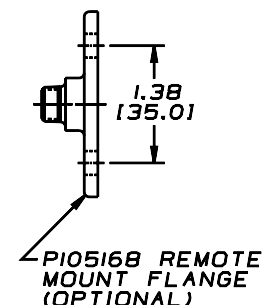
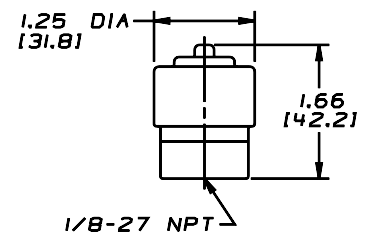
Small enough to fit just about anywhere (only 1.66" high), the Donaldson ServiSignal shows a highly visible, bright red flag in the full-view window when restriction limit is reached. Resets manually via top button after air cleaner service.



Kit includes 1/8" NPT threaded brass fitting for mounting on the air cleaner. For remote mount, also order P105168 flange. Hoses not included.

The ServiSignal™ Mini Indicator

Restriction Limit	Gauge Only	Kit (gauge & fitting)
15" H ₂ O/ 3.7 kPa	X002250	X002350
20" H ₂ O/ 5 kPa	X002251	X002351
25" H ₂ O/ 6.2 kPa	X002252	X002352
30" H ₂ O/ 7.5 kPa	X002254	X002354



Hand tighten filter service indicators (30-40 lbs./inch maximum).

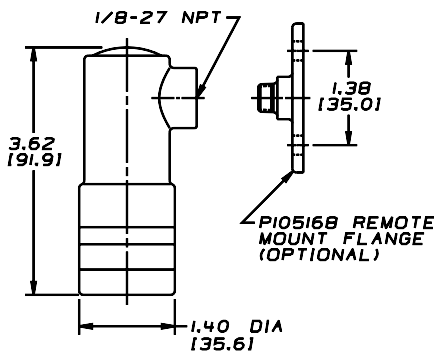
Visual Restriction Indicator

The Donaldson standard restriction indicator can be mounted directly on the air cleaner or remotely on the instrument panel or firewall. When restriction limit is reached and filter service is needed, easily-visible, bright red shows through the full-view window. After the filter is serviced, reset via rubber button on top. For remote mount, also order a flange, P105168. Hoses not included.



Visual Restriction Indicator

Restriction Limit	Gauge Only	Kit (gauge & fitting)
15" H ₂ O/ 3.7 kPa	X002215	X002315
20" H ₂ O/ 5 kPa	X002220	X002320
25" H ₂ O/ 6.2 kPa	X002225	X002325
30" H ₂ O/ 7.5 kPa	X002230	X002330



Electrical Indicator Connects to Light, Buzzer, or Computer

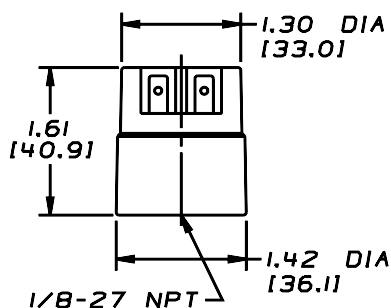
Our electrical indicator is designed for a variety of on- and off-highway applications within operating temperatures of -40°F to +212°F (-40°C to +100°C). When restriction level reaches the maximum recommended limit, an electrical signal activates a light, a buzzer, or a computer, as you choose. The indicator automatically resets itself after the filter is serviced.



- 12-24 Volts
- Maximum load: 6 watts (light or buzzer)
- Contacts have no polarity
- Switch contacts are normally in the open position
- Quick connectors and light, buzzer, or computer must be purchased separately

Electrical Indicator

Restriction Limit	Electrical Indicator
15" H ₂ O/ 3.7 kPa	X770037
20" H ₂ O/ 5.0 kPa	X770050
25" H ₂ O/ 6.2 kPa	X770062
30" H ₂ O/ 7.5 kPa	X770075



SafetySignal™ Wing Nut Indicator for Safety Filter

The Donaldson SafetySignal service indicator replaces the wing nut on the metal end cap safety filters and constantly monitors air restriction. When service is required, it locks red. The SafetySignal requires no special fittings or adapters. Donaldson safety filters are designed to last through multiple primary filter change outs. The SafetySignal helps save time and money by preventing over-servicing.



SafetySignal™ Order Numbers

PART NO.: X004814

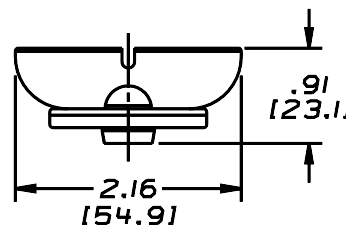
For Air Cleaners: FTG 13" & 15", FHG12" & 14", FVG16"
Fits Bolt: 7/16" - 20 UNF
Washer included: P111551

PART NO.: X004815

For Air Cleaners: FTG11
Fits Bolt: 7/16" - 20 UNF
Washer included: P101872

PART NO.: X004816

For Air Cleaners: FVG14-16", STG12-16"
& All SRG models
Fits Bolt: 1/2" - 13 UNC
Washer included: P105740



Service Gauge for Instrument Panel

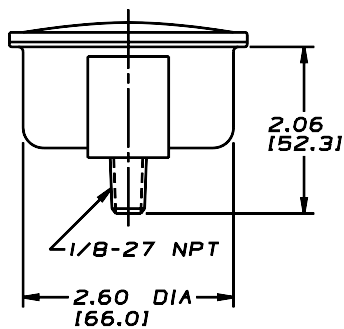
Continuously reads restriction in inches of water vacuum when engine is in operation and installs conveniently on instrument panel or wherever operator can easily see the dial. Mounts into a 2-5/8" diameter hole. Hoses not included.



Gauge Part No. X002730
Restriction Limit: 30" H₂O/ 7.5 kPa
Kit includes nuts, mounting bracket and installation instructions.



Gauge Part No. X002700
Restriction Limit: 60" H₂O/ 15 kPa
Kit includes restriction tap fitting (P112257), nuts, mounting bracket and installation instructions.



In-Field Service Gauge Kit

Equipped with three feet of vacuum hose to test the air cleaner restriction in the field. Sturdy, compact plastic case, measuring only 6" x 7.25" x 2.25", stores easily. Gauge reads in inches of water vacuum, up to 25" H₂O/ 6.2 kPa. Full instructions included.



Part No. X003903

Water Manometer Kit

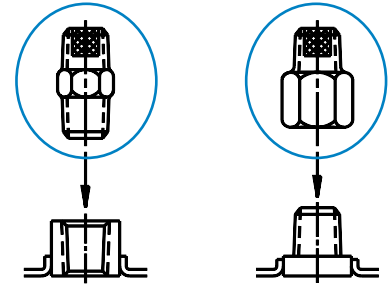


Part No. P134534

The Donaldson water manometer kit includes the manometer (flexible tubing), green dye, and full instructions. Manometer, range 18-0-18 in., 17-1/2 oz. mercury. Magnets conveniently hold top and bottom ends of manometer to side of equipment or vehicle. Special shut-off valve eliminates the need to empty water after use.



Restriction Tap Fittings



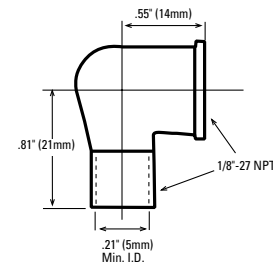
Part No. P100089

- Male threads both ends
- 1/8"-27 thread
- 0.44" (11mm) hex nut
- Internal sintered bronze safety filter

Part No. P122067

- Female threads on one end, male threads on opposite end
- 1/8"-27 thread
- Internal sintered bronze safety filter

Restriction Indicator Fitting



Part No. P105622

- 1/8"-27 threads
- 90° elbow with threaded end

Restriction Tap Sleeve

Install this sleeve in your intake system to convert from scheduled maintenance to more economical restriction maintenance practices.



Restriction Tap Sleeves

Fits Pipe O.D.	Part Number
5" / 127mm	P521639
6" / 152mm	P521641

90° Rubber Elbows & Reducing Elbows



These flexible rubber adapters and elbows have smooth radii and inside surfaces to minimize flow resistance within the air intake system. These rubber products are heavy-duty!

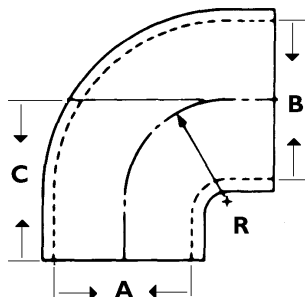
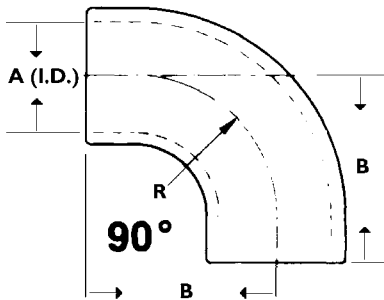
Larger elbows (5"/125mm) are ribbed or compounded for added strength and durability. All Donaldson rubber products meet ASTM standards.

- Resist tears, punctures and vacuum collapse
- Absorb vibration
- Reduce intake noise levels under severe conditions
- Material: EPDM rubber construction
- Temperature range: -40°F (-40°C) to +212°F (+100°C)
- Application tip: A minimum 1½" of metal piping should be inserted into the rubber fitting.



90° Elbows

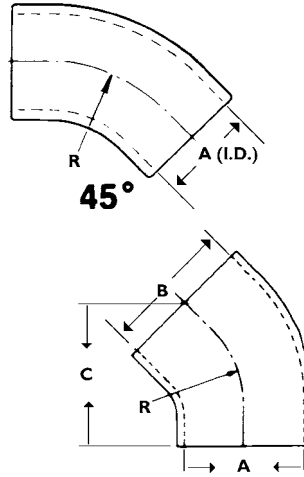
Inner Dia. (A) in	mm	Center Height (B) in	mm	Radius (R) in	mm	Part Number
2.00	51	3.50	76	2.00	51	P105529
2.25	57	3.75	95	2.25	57	P105530
2.50	64	4.00	102	2.50	64	P105531
3.00	76	5.25	133	3.75	95	P105532
3.50	89	5.50	140	4.00	102	P114318
4.00	102	5.75	146	4.50	114	P105533
4.50	114	5.50	140	3.50	89	P113733
5.00	127	6.12	155	4.50	114	P107844
5.50	140	6.50	171	4.63	118	P105534
6.00	152	7.00	179	5.00	127	P105535
7.00	179	7.56	192	5.56	141	P105536
8.00	203	8.50	216	6.50	165	P112605
10.00	254	10.50	267	8.50	216	P114314



90° Elbow Reducers

Inner Dia. (A) in	mm	Inner Dia. (B) in	mm	Center Height (C) in	mm	Radius (R) in	mm	Part Number
3.00	76	3.50	89	3.50	89	2.25	57	P123462
		4.00	102	4.50	114	3.00	76	P536163
4.00	102	5.00	127	6.00	152	3.75	95	P121482
		5.00	127	6.00	152	4.74	120	P537468
		6.00	152	6.00	152	4.25	108	P143895
5.50	140	7.00	179	6.25	159	4.25	108	P159820
		6.00	152	6.75	171	5.00	127	P117724
		7.00	179	6.25	159	4.38	111	P128990

45° Rubber Elbows, Reducing Elbows and Hump Reducers

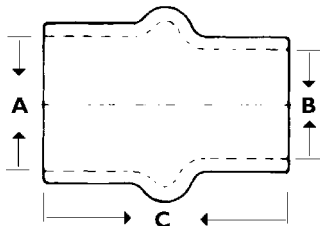


45° Elbow Reducers

Inner Dia. (A)		Inner Dia. (B)		Center Height (C)		Radius (R)		Part Number
in	mm	in	mm	in	mm	in	mm	
5.50	140	6.00	152	6.44	164	4.88	124	P133338
6.00	152	7.00	179	7.38	187	5.31	135	P133339

45° Elbows

Inner Dia. (A)		Radius (R)		Part Number
in	mm	in	mm	
2.00	51	2.00	51	P105541
2.25	57	2.25	57	P105542
2.50	64	2.50	64	P105543
3.00	76	3.75	95	P105544
3.50	89	3.50	89	P109331
4.00	102	4.25	108	P105545
4.50	114	3.50	89	P114316
5.00	127	4.50	114	P109021
5.50	140	4.75	121	P105546
6.00	152	5.00	127	P105547
7.00	178	5.56	141	P105548
8.00	203	6.50	165	P112606
10.00	254	8.50	216	P114313



Rubber Hump Reducers

Inner Dia. (A)		Inner Dia. (B)		Length (C)		Part Number
in	mm	in	mm	in	mm	
3.00	76	2.50	64	4.50	114	P102820
		2.75	70	3.50	89	P520883
3.50	87	3.00	76	5.00	127	P101290
		2.75	70	4.00	102	P520882
4.00	102	2.75	70	4.00	102	P520884
		3.00	76	5.25	133	P101291
		3.50	87	5.25	133	P101292
4.50	114	4.00	102	6.00	152	P540256
5.00	127	4.00	102	6.00	152	P101293
		4.50	114	6.25	159	P604045 ¹
5.50	140	4.00	102	6.00	152	P101891
		5.00	127	6.00	152	P103516
6.00	152	5.00	127	6.00	152	P112611
		5.50	140	6.00	152	P101294
		5.00	127	7.00	179	P136494
7.00	179	5.50	140	7.00	179	P126530
		6.00	152	6.00	152	P112610
		6.00	152	6.00	152	P112609
8.00	203	5.50	140	7.00	179	P129660
		6.00	152	6.00	152	P114315
		7.00	179	6.00	152	P112609
10.00	254	8.00	203	6.00	152	P112607

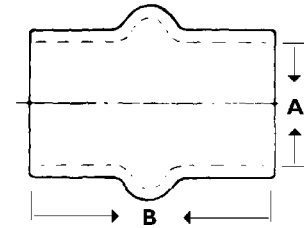
1 - Use clamp size for nominal 5" (127mm) I.D. each end.

Rubber Straight Humps, Reducers & Cobra Adapters



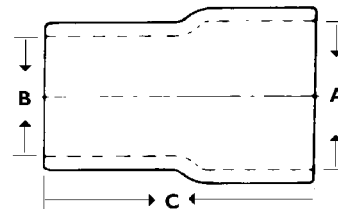
Rubber Straight Humps

Inner Dia. (A)		Length (B)		Part Number
in	mm	in	mm	
3.00	76	5.30	135	P105608
3.50	89	5.25	133	P114319
4.00	102	5.25	133	P105609
4.50	114	6.00	152	P114317
5.00	127	6.00	152	P105610
5.50	140	6.00	152	P105611
6.00	152	7.00	165	P105612
7.00	179	7.00	165	P105613
8.00	203	5.00	127	P112608
10.00	254	6.00	152	P111414



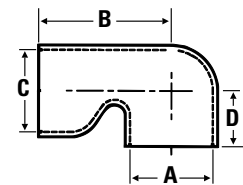
Rubber Reducers

Inner Dia. (A)		Inner Dia. (B)		Length (C)		Part Number
in	mm	in	mm	in	mm	
2.00	51	1.50	38	2.50	64	P104087
		1.75	44			P102948
2.25	57	2.00	51	2.50	64	P104088
2.50	64	2.00	51	2.50	64	P104089
		2.25	57			P104090



90° Cobra Adapters

Inner Dia. (A)		Inner Dia. (C)		Length (B)		(D)		Part Number
in	mm	in	mm	in	mm	in	mm	
2.75	70	4.00	102	6.50	165	1.81	46	P600328
3.00	76	3.00	76	5.22	133	1.91	49	P547694
4.00	102	4.00	102	6.44	164	2.69	68	P600325
		4.00	102	6.44	164	3.19	81	P600326
		5.00	127	6.44	164	3.19	81	P600327

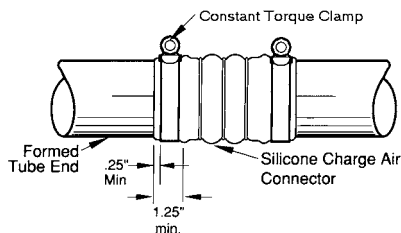


Silicone Charge Air Connectors Isolate Intake Piping Vibration Durable and Easy To Install



Our three styles of charge air connectors are designed to ease connections in air intake system piping: they compensate for slight misalignment and isolate vibration between hose connections. The silicone elastomer material resists chemicals, steam, ozone, coolants and aging conditions normally found in any engine operating environment.

All three charge air connectors are for installation on the pressure side with maximum operating temperatures up to 500°F (260°C.) They are orange in color to be easily identifiable as tolerant of high temperatures, and carry a one year warranty.



Use the illustration as a guide for installing your charge air connector. For proper installation, use Donaldson Constant Torque clamps to retain clamp load. Torque to 70-75 lbs-in.



Connectors/Sleeves

Inner Dia. in	mm	Length in	mm	Part Number
2.00	51	36.00	914	P532948
2.25	57	36.00	914	P532949
2.50	64	36.00	914	P532950
3.00	76	36.00	914	P532951
3.38	86	3.50	89	P532952
		6.00	152	P532953
		36.00	914	P532954
3.50	89	3.50	89	P532956
		4.50	114	P532957
		36.00	914	P532958
4.00	102	36.00	914	P532959

Hump Hose Connectors

Inner Dia. in	mm	Length in	mm	Part Number
2.50	66	5.50	140	P532960
2.75	70	4.25	108	P532961
3.00	76	4.38	111	P532962

4-Ply Bellows

Inner Dia. in	mm	Length in	mm	No. of Rings	Part Number
3.50	89	6.00	152	3	P535572
4.00	102	6.00	152	0	P532943
		6.00	152	2	P535571
		6.00	152	3	P532944
		7.50	191	3	P532945
		8.00	203	3	P535573

Worm-Drive Hose Clamps

- Versatile clamps for wide size range of hose connections
- Made of strong, durable, noncorrosive stainless steel
- Inside of clamp is lined so that hose doesn't bulge through clamp holes
- Narrow band enables easy installation in confined areas

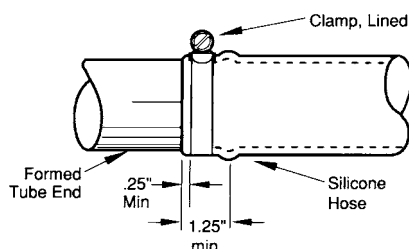


Lined Hose Clamp

-- Min. to Max. Size -- inch	mm	Part Number
9/16 - 13/16	14-21	P532919
11/16 - 15/16	17-24	P532920
13/16 - 1-1/16	21-27	P532921
13/16 - 1-1/2	21-38	P532923
13/16 - 1-3/4	21-44	P532924
15/16 - 1-1/4	29-32	P532922
1-9/16 - 2-1/2	40-62	P115200
2-1/16 - 3	52-76	P115201
2-13/16 - 3-3/4	71-95	P143422
3-5/16 - 4-1/4	84-108	P115202
4-5/16 - 5-1/4	109-133	P115203

Recommended application up to 40 lbs-in torque

Donaldson lined hose clamps seal silicone and other soft hoses without damage. The inner liner extends under the perforations to protect the hose and prevents extrusions through the worm-gear perforations.



Initial torque on lined hose clamp should be 40 lbs-in. If retorquing is required, limit to 20 lbs-in.

Constant Torque Clamp

--- Min. to Max. Size --- inch	mm	Part Number
2-1/4 - 3-1/8	57-79	P532925
2-3/4 - 3-5/8	70-92	P532926
3-1/4 - 4-1/8	83-105	P532927
3-3/4 - 4-5/8	95-117	P532928
4-1/4 - 5-1/8	108-130	P532929

Recommended application up to 90 lbs-in torque

Donaldson Constant Torque lined clamps are the best choice for systems where clamps cannot be retightened and have difficult access. Perfect for applications requiring higher torque, large diameters, temperature extremes, or where expansions and contractions within the system are common. This clamp is a good choice for critical coolant and charge-air connections.



High Torque Clamp

---- Min. to Max. Size ---- inch	mm	Part Number
4-1/4 - 5-1/8	108-130	P115204
5-1/4 - 6-1/8	133-156	P115205
6-1/4 - 7-1/8	159-181	P115206
7-1/4 - 8-1/8	184-206	P115207
8-1/4 - 9-1/8	210-232	P115208
10-1/4 - 11-1/8	260-286	P115209

Recommended application up to 150 lbs-in torque

This EXTRA heavy-duty clamp ensures total protection against leakage.....eliminates the need for double clamping.

T-Bolt Clamps



T-Bolt Clamp

Nominal I.D. ¹	Min. to Max. Size inch	mm	Part Number
2.00	2.25-2.53	57-64	P148337
2.25	2.50-2.78	63-70	P148338
2.50	2.81-3.09	71-78	P148339
2.75	3.06-3.34	78-85	P148340
3.00	3.31-3.59	84-91	P148341
3.50	3.81-4.09	98-104	P148342
4.00	4.31-4.59	109-116	P148343
4.50	4.81-5.09	122-129	P148344
5.00	5.31-5.59	135-142	P148345
5.50	5.94-6.21	151-158	P148346
6.00	6.38-6.65	162-169	P148347
7.00	7.38-7.78	187-198	P148348
8.00	8.25-8.56	216-226	P148349
10.00	10.50-10.91	267-277	P148350

¹ - Nominal I.D. dimension, shown in inches, corresponds to I.D. dimension of rubber part being clamped.

Vacuator™ Valves Automatically Expel Dust and Water

The Vacuator Valve, standard on the majority of Donaldson air cleaners, is an important part of the functionality of the air cleaner. It is an integral part of the pre-cleaning stage on two-stage air cleaners.

The dust cup, where pre-cleaned dust is collected, is normally under a slight vacuum when the engine is running. The normal engine pulsing of the vacuum causes the Vacuator Valve to open and close. This action automatically expels any collected dust and water. The Vacuator Valve also unloads when the engine is stopped.



The Donaldson Vacuator Valve, also known as VacValve, is made in a variety of sizes and shapes to fit various applications. The Donaldson part number is molded into each part for easy identification.

Application Notes

For proper operation, the Vacuator Valve should be located at the lowest point on the air cleaner or dust cup pointing down.

Never paint the Vacuator Valve. Solvents and chemicals will shorten the usable life.

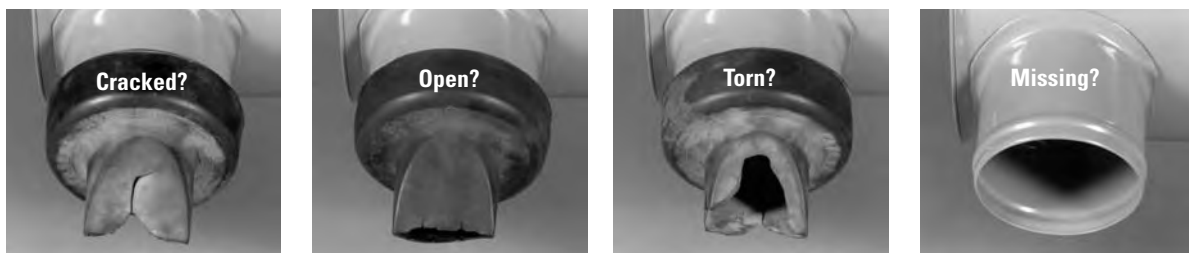
If the Vacuator Valve is torn, shredded or turned inside out, its durometer may be too soft for the application. Choose a model with a harder durometer (higher number). Conversely, if the Vacuator Valve doesn't empty itself properly, the durometer may be too hard. Choose one with a softer durometer (lower number).

Vacuator Valves

Part Number	Diameter in	Diameter mm	Durometer	Used on Air Cleaner Styles
P103198	3.0	76	40	FRG 10", 12", 14" and 16"; FHG 10", 12", 14" and 16"; FTG; FWA 5"-16"; FWG 4"-16"; SRG; In-line Water Separators
P105220	3.0	76	60	FRG 18"; FHG 8"; FVG160587
P106593	3.0	76	60	FHG 6"-8", High Pulsation Models
P112803	3.0	76	40	FHG 6"-8"; PSD 10", PSD 12"; SBG 14"-16"; SDG; STG 12"-16"
P149099	1.0	25	60	ERA; EBA; EBB; ECG
P158914	2.0	51	50	XRБ, FKB; PSD 8"; PSD 9"; FPG 6" and 8"; FRG 5"-9", 11"; FHG 5", FWG; FWA; Moisture Skimmers
P522958	2.0	51	60	FPG 4" -5"; FHG
P525956	1.0	25	60	EPG 11", 13", 15"
P617632	1.57	40	50	PSD 08"
P776008	2.0	51	60	FPG 9", 10" Twist-off cover; FRG 10", 13", and 15"

For the longest filter service life, replace damaged or missing Vacuator Valves immediately!

If your valve is cracked, torn, remains open or is missing, dust particles that are normally expelled can deposit themselves onto the filter and will shorten air filter service life. **Replace it!**



Replacement to Your Existing Dust Cup Assembly



Application

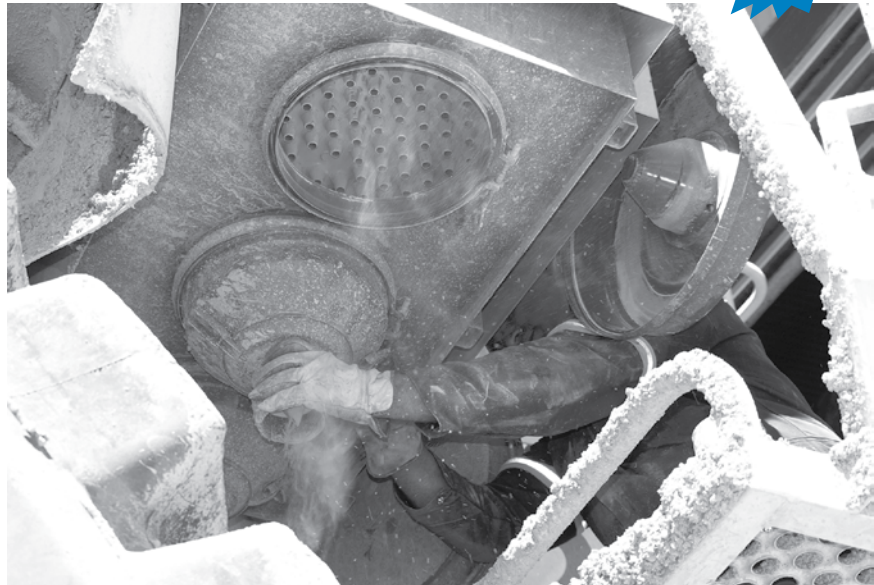
- Donaldson SRG & SSG and PowerCore® PSD Air Cleaners

How It Works

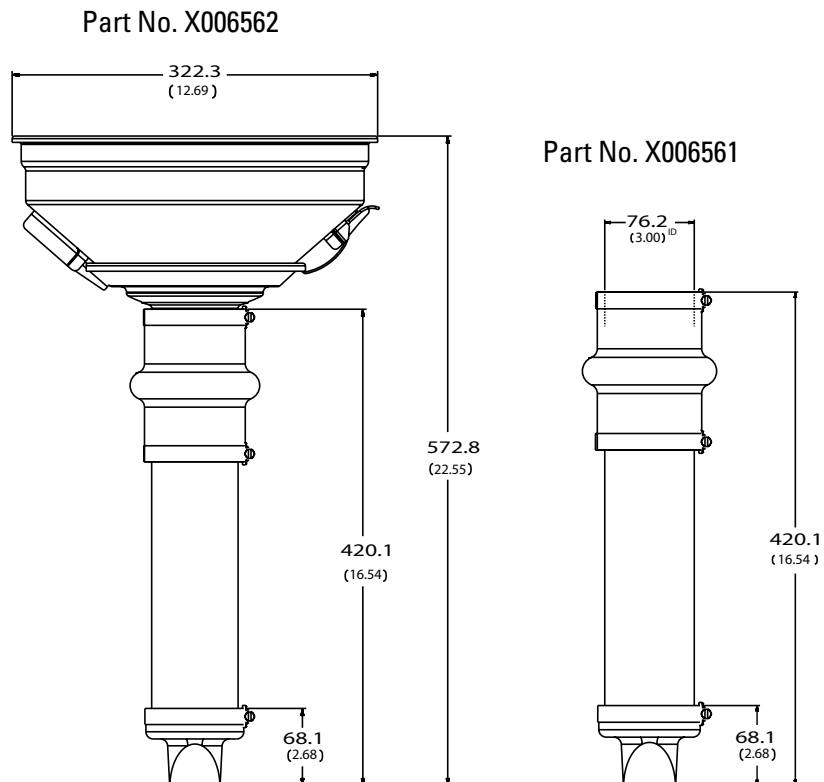
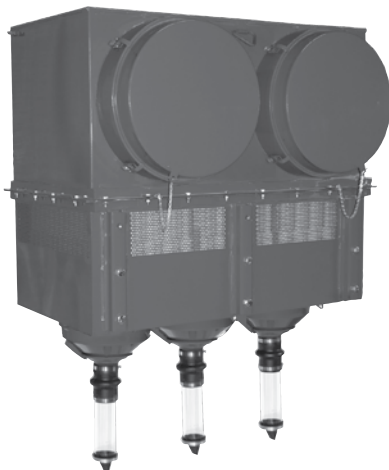
When installed on the dust cups on the lower assembly, the rubber connector vibrates during normal vehicle operation and gravity expels the pre-cleaned dust.

Features

- Improves dust evacuation from the air cleaner
- Clear tube allows for visual inspection of dust collection
- Improves safety of the air cleaner inspection process by eliminating the need for ladders or elevated platforms for daily inspections
- Allows operators to perform walk around inspections
- Keeps operators and maintenance personnel away from the nuisance dust normally encountered during air cleaner servicing operations.
- Improves vehicle up time by minimizing pre/post –shift air cleaner inspections, thus facilitating increased air cleaner service intervals.
- Reduces air cleaner inspection time
- Ships fully assembled
- Proper conversion requires drop down tube for every dust cup



If the above maintenance practice looks familiar, adding the X006561 Dust Dumpa extension to the dust cups of the air cleaner will save you maintenance time and will minimize your employees exposure to nuisance dust during service.



Available for SRG and SSG Air Cleaners



**Dust Dumpa applied to PSD
PowerCore® Air Cleaners**



Dust Dumpa + PSD air cleaners extended the filter service life for a geothermal drill rig in Australia.

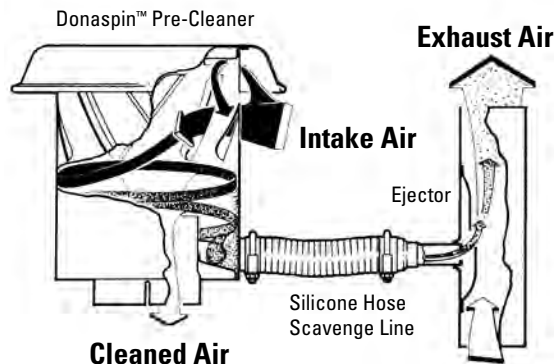
INTAKE ACCESSORIES

Three kits required for S Series double-inlet models. For proper performance all dust cups must have the new Dust Dumpa installed.



A Donaldson exhaust ejector mounts as a stack at the end of exhaust system (stack caps or extension tubes may be added). The ejector is used with a Donaldson Donaspin™ pre-cleaner or Strata™ system – typically used in off-highway equipment to extend air filter life.

To fit your space and design requirements, three exhaust ejector styles are available. All are constructed of heavy-gauge, aluminized steel. Select the appropriate ejector by the intake airflow (CFM) of your engine.



The Donaspin™ pre-cleaner uses a spinning motion of the airstream to force dirt and debris to the outside wall of the pre-cleaner body. The dirt and debris are forced to the bottom of the pre-cleaner and expelled by the secondary airflow developed by the ejector.

INTAKE ACCESSORIES



Expanded I.D. End

- Simplifies installation - requires less parts to install
- No need for separate connector!
- Fits over most standard muffler outlet tubes
- Adds only 4" (102 mm) to 8" (203 mm) H₂O (.3" to .6" Hg.) to exhaust backpressure

Standard

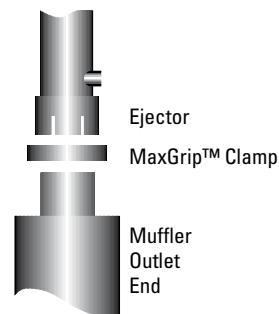
- Can be used with any pre-cleaner style
- Adds only 4" (102 mm) to 8" (203 mm) H₂O (.3" to .6" Hg.) to exhaust backpressure

Compact

- Used primarily on agricultural equipment
- Adds 10" (254 mm) to 15" (381 mm) H₂O (.75" to 1.1" Hg.) to exhaust backpressure

Expanded End Style

Part Number	Engine Intake CFM	-- Inlet I.D. --		Scavenge Tube O.D.		Ejector --- Length ---		Exhaust Flow Rate (CFM)	
		inch	mm	inch	mm	inch	mm	Min. ¹	Max. ²
H002129 ³	500-715	5.17	131	1.50	38	29.50	749	1270	1800
H002132 ⁴	1040-1475	6.19	157	2.00	51	32.50	826	2625	3715



EXPANDED STYLE INSTALLATION

Standard Style

Part Number	Engine Intake CFM	-- Inlet I.D. --		Scavenge Tube O.D.		Ejector --- Length ---		Exhaust Flow Rate (CFM)	
		inch	mm	inch	mm	inch	mm	Min. ¹	Max. ²
H001032 ³	245-350	3.02	77	1.50	38	17.50	445	620	873
H001033 ³	310-440	4.02	102	1.50	38	24.00	610	785	1110
H001034 ³	385-545	4.02	102	1.50	38	24.00	610	970	1375
H001035 ³	500-715	5.03	128	1.50	38	29.50	749	1270	1800
H001039 ⁴	1285-1820	6.04	153	2.00	51	32.50	826	3235	3875

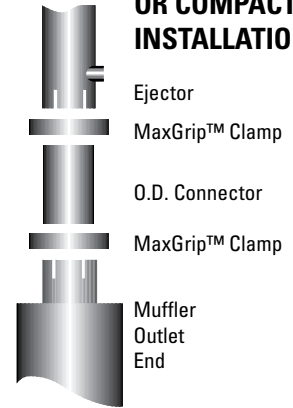
Compact Style

Part Number	Engine Intake CFM	-- Inlet I.D. --		Scavenge Tube O.D.		Ejector --- Length ---		Exhaust Flow Rate (CFM)	
		inch	mm	inch	mm	inch	mm	Min. ¹	Max. ²
H001278 ⁵	165-215	2.77	70	1.25	32	9.75	248	415	545
H001280	225-335	3.52	89	1.25	32	12.50	318	570	850
H001279 ⁵	300-390	3.02	77	1.25	32	10.80	274	760	990
H001284 ⁵	450-590	4.02	102	1.25	32	14.38	365	1140	1500

- 1 - Minimum exhaust flow based on 20" of water dead head vacuum
- 2 - Maximum exhaust flow based on 40" of water dead head vacuum
- 3 - Use 3-ply Silicone Scavenge Hose (1.50" I.D., 3 ft. length) P171378 and Lined Hose Clamp P115200
- 4 - Use 3-ply Silicone Scavenge Hose (2.00" I.D., 3 ft. length) P171381 and Lined Hose Clamp P115200
- 5 - Use 3-ply Silicone Scavenge Hose (1.25" I.D., 3 ft. length) P171376 and Lined Hose Clamp P532924

Exhaust Gas Temperature of 900° F assumed

STANDARD OR COMPACT INSTALLATION



INTAKE ACCESSORIES

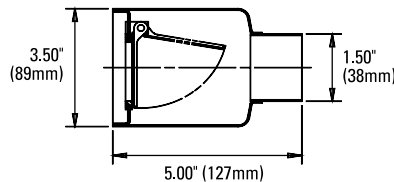
Ejector Check Valve Prevents Exhaust Backflow

The exhaust ejector check valve prevents backflow of damaging exhaust gases by way of an internal hinge flap. Add an ejector check valve when configuring the intake system to expel filtered contaminant through the exhaust system.

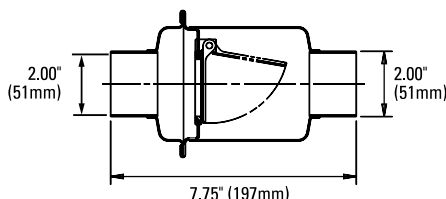
- Mounts horizontally (see installation diagrams)
- Durable, non-corrosive metal construction
- No servicing required



H001023



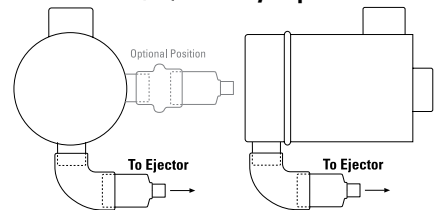
H000722



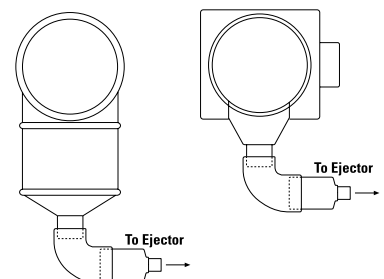
Check Valve Installation

The illustrations are side views of two-stage air cleaners, showing the position of the check valve. A 3" (76mm) inner diameter rubber reducing elbow or hump reducer is required for installation. See pages 94-96 for options.

Installation on F Series Cyclopac



Installation on S Series Donalclone



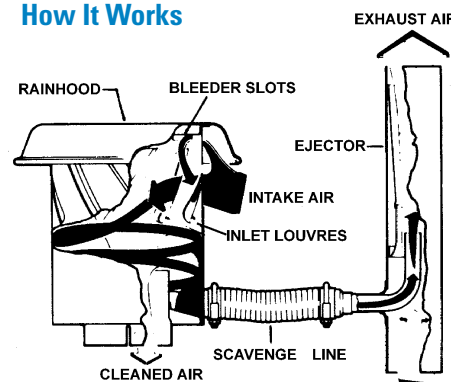
Extends Filter Life in Extremely Heavy Dust Conditions

The Donaspin Pre-Cleaner extends the life your air filter by removing up to 90% of the dirt and contaminant before it reaches the filter and ejecting it automatically via the exhaust. (See previous two pages for exhaust ejectors.)

Donaspin is designed especially for equipment operating in very heavy dust/debris environments.



How It Works

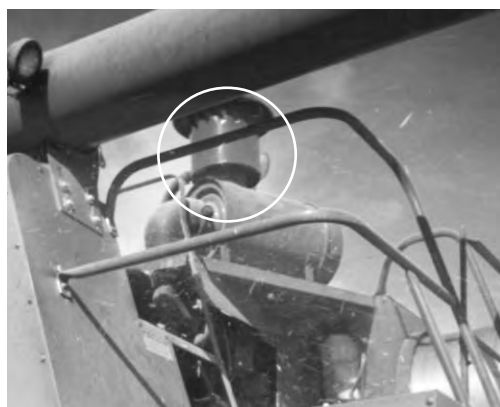


Application

- Vehicles: agricultural equipment, construction and waste haul vehicles
- For engine airflows of 305 to 800 cfm
- Recommended mounting: on top of the air inlet stack

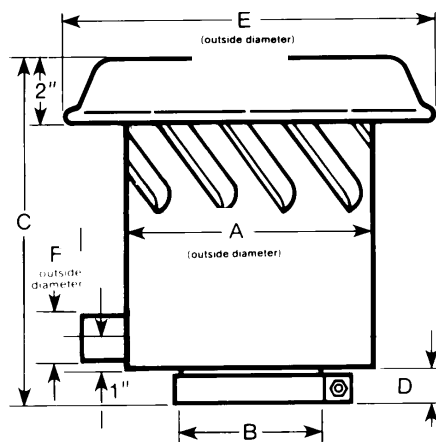
Features

- Built-in louvers spin air to separate up to 90% of incoming dirt and debris from the air intake system
- Works as part of a scavenged flow system to continuously expel pre-cleaned contaminants through the exhaust flow
- Durable, corrosion-resistant steel construction
- High efficiency with low restriction
- No maintenance! Self-cleaning! No moving parts!
- Mounting clamp is included



The Donaspin installed on this combine removes most of the incoming dirt, then directs the contaminant out of the system with the exhaust gases.

To create a scavenged flow system, combine the Donaspin with a Donaldson exhaust ejector and ejector check valve.

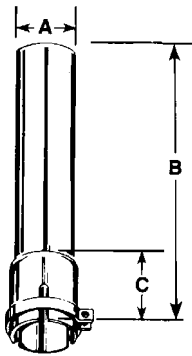


Donaspin™ Pre-Cleaner

A		B (I.D.)		C		D		E		F		Rated Airflow @ 5" H ₂ O Added	Approx. Weight		Part Number
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		lbs	kg	
8.00	203	3.00	76	11.98	304	2.15	55	12.00	305	1.25	32	305	8	3.6	H001212
8.00	203	4.50	114	10.93	278	1.10	28	12.00	305	1.25	32	465	8	3.6	H001215
8.00	203	5.00	127	11.14	283	1.31	33	12.00	305	1.25	32	530	8	3.6	H001308
9.00	229	6.00	152	14.68	373	1.10	28	13.00	330	1.25	32	770	10	4.5	H001375

Air Stack Extensions

- For on-road and off-road trucks
- Helps extend filter life by elevating air inlet away from heavy dust concentrations and engine exhaust
- Installs easily and quickly with one clamp, which is included with unit
- Durable, corrosion-resistant steel construction



Air Stack Extension

Part Number	-(A - O.D.)-		----(B)----		----(C)----		Part Number
	in	mm	in	mm	in	mm	
X001744	3.75	95	29.00	737	1.50	38	X001744
X001746	4.50	114	30.25	768	1.50	38	X001746
X001747	5.00	127	29.00	737	1.50	38	X001747
H000484	6.00	152	31.50	800	1.50	38	H000484
H000483	7.00	178	28.62	727	1.50	38	H000483

Intake Tubing

- 16 gauge aluminum, unless footnoted
- 10 ft. (3m) length

Intake Tubing

-- O.D. --	Part	Part
in mm	Number	Number
3.00 76	P224684	
3.50 89	P224691 ¹	
4.00 102	P207367	
5.00 127	P206849	
5.50 140	P207368	
6.00 152	P206850	
7.00 178	P206851	
8.00 203	P207369	

1 - 14 gauge



INTAKE ACCESSORIES

Breathers

As sealed machinery operates, its internal air heats and expands; later, this air cools and contracts. To allow hot air out and cool air in safely, use a Donaldson breather filter. These handy, spin-on filters use sturdy oil-wetted filter media that resists damage from vibration.

- Designed for engines, air compressors, crankcases, transmissions, gearcases, air cylinders, air presses, hydraulic reservoirs
- Mount either vertically or horizontally
- Can be cleaned and reused

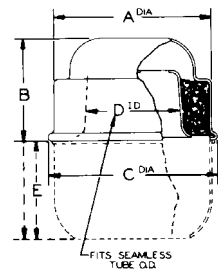
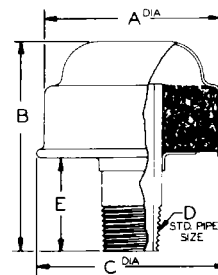
Style A



Style B



Part Number	--- A ---		--- B ---		--- C ---		--- D ---	--- E ---		
	in	mm	in	mm	in	mm		in	mm	
STYLE A										
S000011	2.50	64	2.00	51	2.68	68	1/4" NPT	1.00	25	
S000072	2.50	64	2.97	75	2.68	68	1/2" NPT	1.12	28	
S000080	2.50	64	2.32	59	2.68	68	3/4" NPT	0.68	17	
S000183	3.06	78	3.50	89	3.50	89	1" NPT	1.18	30	
S000099	4.06	103	4.50	114	5.12	130	2" NPT	1.68	43	
STYLE B										
S000067	2.50	64	1.62	41	2.75	70			n/a	



3-in-1 Intake Accessory Protects Against Moisture

- Primarily over-highway trucks
- For engine airflow of 700 to 1000+ cfm
- Improves intake system airflow and fuel economy by reducing restriction, examples:
 - at 33 mph, 53 kmh = 3.5" H₂O restriction
 - at 45-52mph, 72-74 kmh = 4" H₂O restriction
 - at 60 mph, 97 kmh = 5" H₂O restriction
- Lightweight, non-corrosive, and durable – no service needed!
- Inlet screen prevents large debris from entering intake ducting
- Side louvers ensure continuous airflow to intake system
- Common inlet sizes fit most installations
- Eliminates water from air intake system
 - at 700 cfm airflow = 90%
 - at 800 cfm airflow = 93%
 - at 1000 cfm airflow = 93%*

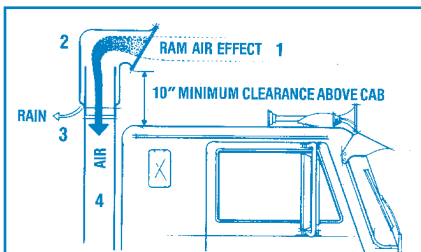
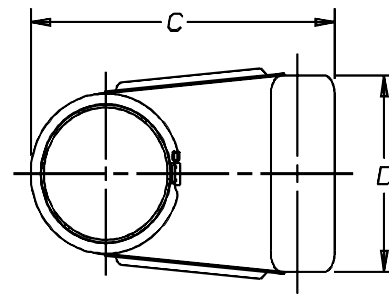
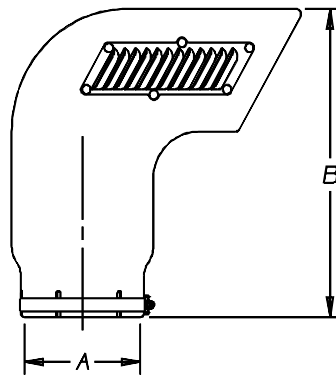
* based on item H001660



H001654
High profile model mounts on inlet stack, above and behind cab.



H001200
Low profile model designed for air cleaners mounted on the side of the cab.



How Air Ram™ Works

- 1- Moisture-filled air enters Air Ram.
- 2- Air is naturally forced against rear wall. Moisture sticks to the wall, separating from the air.
- 3- Moisture collects on the Air Ram wall and drains down to and out of the drain hole.
- 4- Virtually moisture-free air passes into air cleaner.

Air Ram Inlet Hood

Part Number	Inlet Diameter (A)		Height (B)		Depth (C)		Width (D)	
	in	mm	in	mm	in	mm	in	mm
MODELS WITH LOUVERS ON SIDE								
H001660	6.06	154	14.80	376	14.85	377	8.98	228
H001654	7.06	179	15.53	394	15.63	397	9.86	250
H001661	8.06	205	16.16	410	16.95	431	10.92	277
MODELS WITHOUT LOUVERS (LOW PROFILE)								
H001200	7.06	179	6.25	159	12.03	306	13.20	335

Note: One mounting band is included with each Air Ram

Installation Note

All Air Ram inlet hoods MUST be installed with the screen facing forward to ensure best performance. Airflow restriction will not be reduced if the Air Ram faces sideways; but if it faces backwards, restriction does increase and adversely affects engine performance.

Horizontal, In-Line Moisture Skimmer Removes Water

Applications

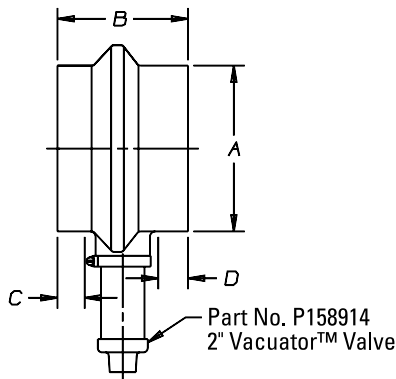
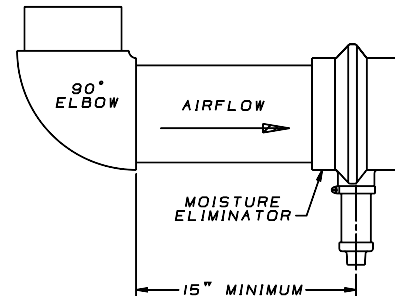
- Allows 600 to 1200 cfm airflow
- Horizontal mount in engine air intake ducting

Features

- Removes over 80% of water before it can reach and damage the filter
- No service needed!
- Made of durable rubber
- Collected water is automatically released by Vacuator™ Valve
- Adds little or no restriction to airflow
- Common inlet sizes fit most installations



Mounting Position



Moisture Skimmer

Part Number	CFM	Inlet Dia. (A)		Height (B)		Depth (C)		Width (D)	
		in	mm	in	mm	in	mm	in	mm
X005822	600-1000	6.00	152	6.00	152	1.25	32	1.37	35
X005900	800-1200	7.00	178	6.00	152	1.25	32	1.37	35
X005901*	800-1200	7.00	178	6.00	152	1.25	32	1.37	35

*Angled spout (see image on right)



Stack-Top Moisture Eliminator Prevents Water Problems

- For cabover trucks, on/off road, mounted on top of an intake stack
- Over 80% water removal efficiency
- Includes clamp for installation



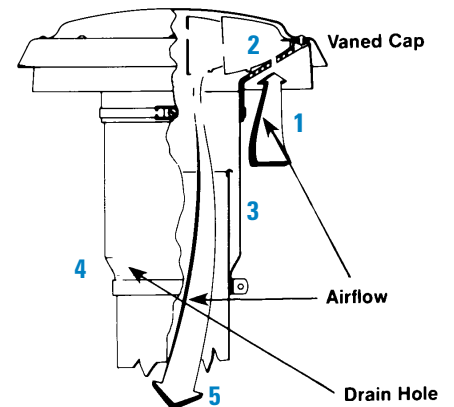
Part No. X003691

Airflow Range: 600-1200 cfm

I.D. 7.00" / 178 mm

How It Works

- 1- Moisture-filled air enters the moisture eliminator cap.
- 2- Built-in, stationary vanes cause the air to spin.
- 3- Moisture is forced to the outside wall, where it separates from the air and collects.
- 4- Water drains out through the drain hole.
- 5- As a result, drier air (acceptable for maximum filter life and engine performance) passes to the air cleaner.



Two-stage Cleaning for Unexpected Dust/Moisture Conditions

When your truck is being used in heavier-than-anticipated dust or moisture conditions, you may not have to replace the entire air cleaner. The problem may be solved by adding a Donaldson in-line separator.

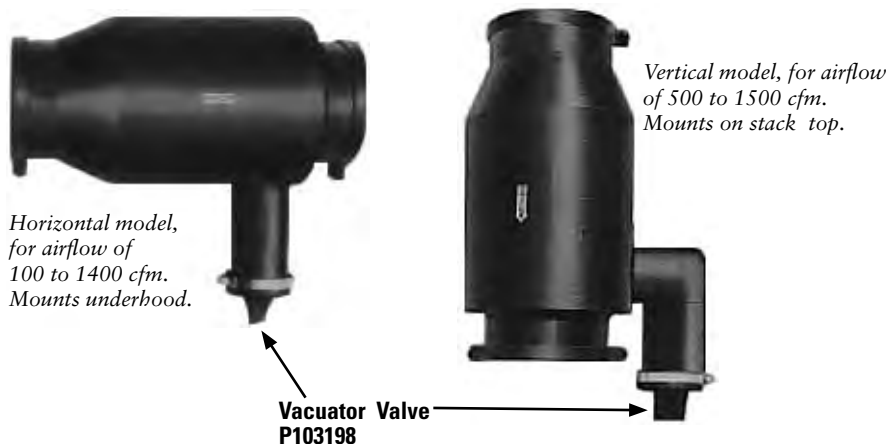
Installing this unit on your single-stage system creates a two-stage air filtration system. This enables an over-highway vehicle, which usually sees only light dust, to be easily and economically adapted to off-road conditions, where medium to heavy dust is encountered.

Applications

- **Vertical model:** On/off road, mounted on inlet tubing or cowl mounted directly to air cleaner
 - Compatible with engine airflows of 500 to 1500 cfm
- **Horizontal model:** On/off road, typically mounted underhood
 - Compatible with engine airflows of 100 to 1400 cfm

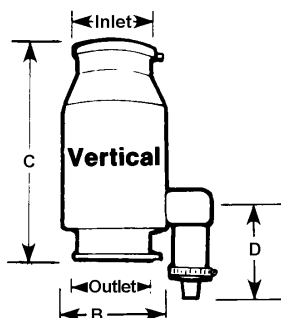
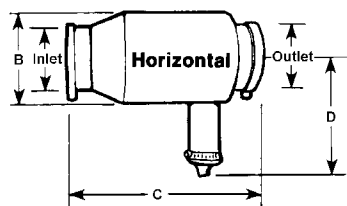
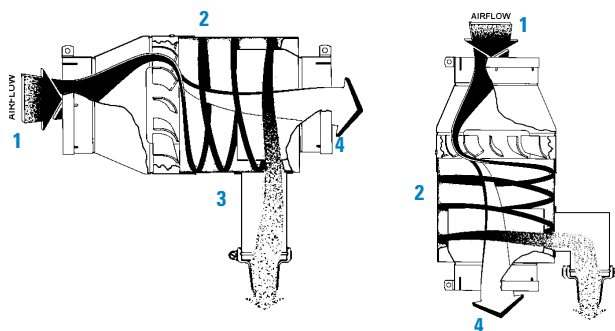
Features

- 80% water removal efficiency
- 70% dust removal efficiency



How It Works

- 1- When moisture – and/or dust-filled air – enters at one end, the built-in, stationary vanes cause the air to spin.
- 2- This spin creates centrifugal force, which pushes all moisture and dust to the outside wall where it separates from the air.
- 3- Moisture and dust are thrown into the Vacuator Valve tubing, then automatically released by the Vacuator Valve.
- 4- Clean air (acceptable for maximum filter life and engine performance) passes to the air cleaner.



In-Line Separators

Part Number	CFM Range	Inlet		Outlet		Diameter (B)		Length (C)		(D)	
		in	mm	in	mm	in	mm	in	mm	in	mm
HORIZONTAL STYLE											
H001474	100-400	4 OD ¹	102 OD	4 OD	102 OD	5.50	140	11.50	292	7.18	182
H000875	500-1,000	6 ID ²	152 ID	6 ID	152 ID	8.56	217	17.25	438	11.58	294
H001906	700-1,400	7 ID	178 ID	7 ID	178 ID	9.59	244	17.0	432	12.02	305
VERTICAL STYLE											
H000878	500-1,100	6 ID	152 ID	6 ID	152 ID	8.56	217	17.25	438	7.80	198
H000886	750-1,100	7 ID	178 ID	7 ID	178 ID	8.56	217	17.25	438	7.80	198
H001220	900-1,500	8 OD	203 OD	8 ID	203 ID	9.59	244	17.0	432	4.56	115

1 - Outer diameter
2 - Inner diameter

The parts in this section are listed by air cleaner model number, in alpha/numeric order. If you know the model number of your air cleaner (for instance, G110206), but not the style (ie: EPG, or ERA, or STG), this section will help you find service parts quickly and easily.



Air cleaner part numbers that have an '*' before the number are obsolete, only their service parts listed are available. If an air cleaner replacement is required and the model is no longer available, we recommend retrofitting to a newer air cleaner model. Newer air cleaner models offer improved filtration features and replacement filters will be less expensive over time.

FOOTNOTES:

- 1 = Filter is treated with chemical for carbon resistance and is not cleanable
- 2 = Two required for proper installation
- 3 = Shipped with air cleaner initially
- 4 = Safety filter is designed to fit this air cleaner, but was not originally shipped with it (note that adding a safety filter will decrease the maximum airflow throughput)
- 5 = Also requires access cover P150862
- 6 = Access cover is attached to filter
- 7 = Included with each replacement filter
- 8 = Cover assembly includes latches but no Vacuator Valve
- 9 = Gasket Kit includes all gaskets listed
- 10 = Includes body, hood and clamps

FILTER DESCRIPTIONS:

ES=Extended Service
HE=High Efficiency
SM=Scheduled Maintenance

NOTE:

One-piece, air cleaners; like our DuraLite™ disposable, ECO & ECOLITE air cleaners are not listed in this section because they have no service parts.

Air Cleaner Service Parts Listing

Part Numbers with * indicates old/cancelled model (only service parts are available).



AC SERVICE PARTS

Air Cleaner Part No. and Style Description Service Part No.

*A042511 FGA

OIL Cup..... P014889
Clamp P002846

A052526 FWA

Wing Nut..... P101870
Filter Primary-UL Approved..... P122510
Filter Primary-extended life..... P182050
Filter Primary..... P181050
Dust Cup-VacValve, Vert..... P103835
Cup..... P103007
Clamp P002904
Baffle, Rubber..... P102523

A052527 FWA

Wing Nut..... P101870
Filter Primary-extended life..... P182050
Dust Cup-VacValve, Vert..... P103835
Cup..... P103007
Clamp P002904
Baffle, Rubber..... P102523

*A060022 FGA

Clamp, Cup P002691

A065007 FWA

Wing Nut..... P101870
Filter Primary-extended life..... P182052
Dust Cup-VacValve, Vert..... P103839
Cup..... P102805
Clamp P002940
Baffle, Rubber..... P102510

A065015 FWA

Wing Nut..... P101870
Filter Primary-extended life..... P182052
Dust Cup-VacValve, Vert..... P103839
Cup..... P102805
Clamp P002940
Baffle, Rubber..... P102510

A080022 FWA

Wing Nut..... P101870
Filter Primary-High Vibration..... P148968
Filter Primary-extended life..... P182054
Filter Primary..... P181054
Dust Cup-VacValve, Vert..... P103840
Cup..... P103113
Clamp, Body or Cup P003951
Baffle, Rubber..... P102980

*A080031 FWA

Wing Nut..... P101870
Filter Primary-High Vibration..... P148968
Filter Primary-extended life..... P182054
Filter Primary..... P181054
Dust Cup-VacValve, Vert..... P103840
Cup..... P103113
Clamp, Body or Cup P003951
Baffle, Rubber..... P102980

Air Cleaner Part No. and Style Description Service Part No.

*A092018 EBA-KPI

Stud Repair Kit..... X004464
Nuts, Plastic..... P119325
Mounting Band..... P004073
Cover Gasket..... P150442
Filter Primary Treated..... P129472
Filter Primary Reverse Flow P140822

*A092019 EBA-KPII

Stud Repair Kit..... X004464
Nuts, Plastic..... P119325
Mounting Band..... P004073
Cover Gasket..... P120597
Filter Primary W/CVR Gasket P130959

A092037 EBA KPII

filter, primary P140822
filter, primary - ES & HE..... EAF5025
filter, primary, treated P1294721,3
mounting band..... P0040732
nut, plastic..... P119325
retaining ring..... P129469
Vacuator Valve P149099

*A100013 FGA

Side Rod..... P016731
Screen Filter..... P101390
Inner OIL Cup P101396

A100017 FWA

Wing Bolt..... P018464
Gasket, Body or Cup P101401
Filter Primary-extended life..... P182045
Filter Primary..... P181045
Dust Cup-VacValve, Vert..... P103826
Cup..... P103519
Clamp P106071
Baffle, Metal P103135

A100019 FWA

Wing Bolt..... P018464
Gasket, Body or Cup P101401
Filter Primary-extended life..... P182045
Filter Primary..... P181045
Dust Cup-VacValve, Vert..... P103826
Cup..... P103519
Clamp P106071
Baffle, Metal P103135

*A110007 EBA-CYL

Stud Repair Kit..... X004464
Nuts, Plastic..... P119325
Mounting Band..... P004079
Cover Gasket..... P124141
Filter Primary-extended life..... P182017
Filter Primary..... P181146
Filter Primary..... P181017

Air Cleaner Part No. and Style Description Service Part No.

A110052 ERA

bolt..... P119463
cover P544744
filter, primary - SM P5447413
filter, primary - ES & HE..... EAF5148
gasket, cover P155211
mounting band, black..... P004079
nut, plastic..... P119325
retaining ring..... P129469
Vacuator Valve P149099

A112018 EBA KPI

filter, primary P1510973
filter, primary - ES & HE..... EAF5024
filter, primary, treated P1293961
gasket, cover P155211
mounting band..... P0040792
nut, plastic..... P119325
retaining ring..... P129469
Vacuator Valve P149099

A112078 EBA KPII

filter, primary P151097
filter, primary - ES & HE..... EAF5024
filter, primary, treated P1293961,3
gasket, cover P155211
mounting band..... P0040792
nut, plastic..... P119325
retaining ring..... P129469
Vacuator Valve P149099

A120003 FWA

Wing Bolt..... P018464
Gasket, Body or Cup P017804
Filter Primary-UL Approved..... P122525
Filter Primary-extended life..... P182035
Filter Primary..... P181035
Dust Cup-VacValve, Vert..... P103828
Cup..... P101239
Clamp P100808
Baffle P101238

A120036 FWA

Wing Bolt..... P018464
Gasket, Body or Cup P017804
Filter Primary-UL Approved..... P122525
Filter Primary-extended life..... P182035
Filter Primary..... P181035
Dust Cup-VacValve, Vert..... P103828
Cup..... P101239
Clamp P100808
Baffle P101238

*A127200 FGA

Side Rod..... P016731
Screen Filter..... P016735
OIL Cup..... P016729
Inner OIL Cup P016727
Clip Band P101467

Air Cleaner Part No. and Style
Description Service Part No.
***A130045 EBA-CYL**

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band.....	P013722
Cover Gasket.....	P117800
Filter Primary-extended life.....	P182007
Filter Primary Treated.....	P122708
Filter Primary.....	P181007

***A130060 EBA-CYL**

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band.....	P013722
Cover Gasket.....	P117800
Filter Primary-extended life.....	P182016
Filter Primary.....	P181016

***A130087 EBA-CYL**

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band.....	P013722
Cover Gasket.....	P117800
Filter Primary-extended life.....	P182016
Filter Primary.....	P181016

A130115

bolt.....	P119463
cover.....	P544878
filter, primary - SM.....	P544950.....3
filter, primary - ES & HE.....	EAF5149
gasket, cover.....	P155264
mounting band, black.....	P013722
nut, plastic.....	P119325
retaining ring.....	P129469
Vacuator Valve.....	P149099

A132001 EBA KPII

filter, primary.....	P141228.....3
filter, primary - ES & HE.....	EAF5026
gasket, cover.....	P155264
mounting band.....	P013722.....2
nut, plastic.....	P119325
retaining ring.....	P129469
Vacuator Valve.....	P149099

***A132004 EBA-KPI**

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band.....	P013722
Cover Gasket.....	P120604
Filter Primary W/CVR Gasket.....	P142100

***A132020 EBA-KPII**

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band, BRIGHT.....	P522439
INLET HOOD, BRIGHT.....	H001773
Cover Gasket.....	P155264
Filter Primary W/CVR Gasket.....	P521598

Air Cleaner Part No. and Style
Description Service Part No.
***A140002 FWA**

Wing Bolt.....	P018464
Gasket, Body or Cup.....	P017335
Filter Primary-UL Approved.....	P122529
Filter Primary-extended life.....	P182000
Filter Primary.....	P181000
Dust Cup-VacValve, Vert.....	P103829
Cup.....	P101242
Clamp.....	P100866
Baffle.....	P101241

A140003 FWA

Wing Bolt.....	P018464
Gasket, Body or Cup.....	P017335
Filter Primary-UL Approved.....	P122529
Filter Primary-extended life.....	P182000
Filter Primary.....	P181000
Dust Cup-VacValve, Vert.....	P103829
Cup.....	P101242
Clamp.....	P100866
Baffle.....	P101241

***A140033 FWA**

Wing Bolt.....	P018464
Gasket, Body or Cup.....	P017335
Filter Primary-UL Approved.....	P122529
Filter Primary-extended life.....	P182000
Filter Primary.....	P181000
Dust Cup-VacValve, Vert.....	P103829
Cup.....	P101242
Clamp.....	P100866
Baffle.....	P101241

***A140036 FWA**

Wing Bolt.....	P018464
Gasket, Body or Cup.....	P017335
Filter Primary-UL Approved.....	P122529
Filter Primary-extended life.....	P182000
Filter Primary.....	P181000
Dust Cup-VacValve, Vert.....	P103829
Cup.....	P101242
Clamp.....	P100866
Baffle.....	P101241

***A144800 FGA**

Side Rod.....	P016731
Screen Filter.....	P016688
OIL Cup.....	P016696
Inner OIL Cup.....	P016694
Clip Band.....	P101469

***A144900 FGA**

Side Rod.....	P016731
Screen Filter.....	P016688
OIL Cup.....	P016696
Inner OIL Cup.....	P016694
Clip Band.....	P101469

Air Cleaner Part No. and Style
Description Service Part No.
***A145200 FGA**

Side Rod.....	P016731
Screen Filter.....	P016688
OIL Cup.....	P016696
Inner OIL Cup.....	P016694
Clip Band.....	P101469

***A150039 EBA-CYL**

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band.....	P016845
Cover Gasket.....	P116891
Filter Primary-extended life.....	P182008
Filter Primary.....	P181008

***A150128 EBA-CYL**

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band.....	P016845
Cover Gasket.....	P116891
Filter Primary-extended life.....	P182009
Filter Primary.....	P181009

A150138 ERA

bolt.....	P119463
cover.....	P544238
filter, primary - SM.....	P544301.....3
filter, primary - ES & HE.....	EAF5150
gasket, cover.....	P535559
mounting band, black.....	P016845
nut, plastic.....	P119325
retaining ring.....	P129469
Vacuator Valve.....	P149099

A150141 ERA

bolt.....	P119463
cover.....	P544827
filter, primary - SM.....	P544243.....3
filter, primary - ES & HE.....	EAF5151
gasket, cover.....	P535559
mounting band, black.....	P016845
nut, plastic.....	P119325
retaining ring.....	P129469
Vacuator Valve.....	P149099

***A150174 EBA-CYL**

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band, BRIGHT.....	P524552
INLET HOOD, BRIGHT.....	P524540
Cover Gasket.....	P116891
Filter Primary-extended life.....	P182009
Filter Primary.....	P181009

For descriptions of footnotes, see page 123

Air Cleaner Service Parts Listing

Part Numbers with * indicates old/cancelled model (only service parts are available).



AC SERVICE PARTS

Air Cleaner Part No. and Style Description Service Part No.

A160001 FWA

Wing Bolt.....	P018464
Gasket, Body or Cup.....	P017336
Filter Primary-extended life.....	P182001
Filter Primary.....	P181001
Dust Cup-VacValve, Vert.....	P103831
Cup.....	P101245
Clamp, Cup.....	P100798
Baffle.....	P101244

*A160013 FWA

Wing Bolt.....	P018464
Gasket, Body or Cup.....	P017336
Filter Primary-extended life.....	P182001
Filter Primary.....	P181001
Dust Cup-VacValve, Vert.....	P103831
Cup.....	P101245
Clamp, Cup.....	P100798
Baffle.....	P101244

*A160173 EBA-CYL

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band.....	H000351
Cover Gasket.....	P123790
Filter Primary-extended life.....	P182011
Filter Primary.....	P181011

*A161500 FGA

Side Rod.....	P016731
Screen Filter.....	P016883
OIL Cup.....	P016884
Inner OIL Cup.....	P016885
Gasket, Body or Cup.....	P017336
Clip Band.....	P101471

*A161600 FGA

Side Rod.....	P016731
Screen Filter.....	P016883
OIL Cup.....	P016884
Inner OIL Cup.....	P016885
Gasket, Body or Cup.....	P017336
Clip Band.....	P101471

B045008 FKB

cover.....	P606497
filter, primary.....	P604457 .....3
filter, safety.....	P603729 .....3
Vacuator Valve.....	P158914

B055006 FKB

cover.....	P609219
filter, primary.....	P609218 .....3
filter, safety.....	P602427 .....3
Vacuator Valve.....	P158914

Air Cleaner Part No. and Style Description Service Part No.

B065045 FKB

cover.....	P608592
filter, primary.....	P609221 .....3
filter, safety.....	P608599 .....3
Vacuator Valve.....	P158914

B080080 XRB

cover.....	P605731
filter, primary (non metal).....	P611190
filter, safety.....	P611189
Vacuator™ Valve.....	P158914

*B100001 FWB

Filter Primary.....	P101038
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*B100002 FWB

Filter Primary.....	P101038
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*B100028 STB

Pre-Cleaner Assembly.....	H001001
Mounting Band.....	P004076
Hood, Pre-Cleaner.....	H000657
Filter Safety.....	P124837
Filter Primary.....	P127075
Clamp, Pre-Cleaner Body.....	P007161
Body, Strata Pre-Cleaner.....	H001006
Air Cleaner Assembly, Strata.....	B100029

B100127 XRB

cover.....	P609942
filter, primary (metal liner).....	P611539
filter, safety.....	P611540
Vacuator™ Valve.....	P158914

*B120105 EBB-STYB

Filter Primary-extended life.....	P182021
Filter Primary.....	P181021

*B120129 STB

Pre-Cleaner Assembly.....	H001000
Hood, Pre-Cleaner.....	H000659
Filter Safety.....	P119371
Filter Primary-extended life.....	P182044
Filter Primary.....	P181044
Clamp, Pre-Cleaner Body.....	P004073
Body, Strata Pre-Cleaner.....	H001007
Air Cleaner Assembly, Strata.....	B120131

B120271 EBB

filter, primary - SM.....	P181028 .....3
filter, primary - ES & HE.....	EAF5028
filter, primary.....	P182028
mounting band.....	H000349 .....2

Air Cleaner Part No. and Style Description Service Part No.

B120470 XRB

cover.....	P608117
filter, primary (metal liner).....	P608116
filter, safety.....	P608391
Vacuator™ Valve.....	P158914

*B140019 STB

Pre-Cleaner Assembly.....	H001002
Hood, Pre-Cleaner.....	H000674
Filter Safety.....	P119370
Filter Primary-extended life.....	P182041
Filter Primary.....	P181041
Clamp, Pre-Cleaner Body.....	P004079
Body, Strata Pre-Cleaner.....	H001008
Air Cleaner Assembly, Strata.....	B140020

B140044 EBB

filter, primary - SM.....	P181015 .....3
filter, primary - ES & HE.....	EAF5015
filter, primary.....	P182015
mounting band.....	H000350 .....2

*B140149 EBB-STYB

Filter Primary-extended life.....	P182029
Filter Primary.....	P181030

*B140150 EBB-STYB

Filter Primary-extended life.....	P182029
Filter Primary.....	P181030

B160049 EBB

filter, primary - SM.....	P181099 .....6
filter, primary - ES & HE.....	EAF5099
filter, primary.....	P182099 .....3,6
mounting band.....	H000351 .....2

B160071 STB

pre-cleaner assembly.....	H000672
pre-cleaner body.....	H001009
clamp, pre-cleaner body.....	P013722
filter, primary - SM.....	P181039 .....3
filter, primary - ES.....	P182039
filter, safety.....	P114931 .....3
gasket washer.....	P105740

D080020, D080026 PSD

filter, primary.....	P608533 .....3
filter, Safety.....	P600975 .....3
latch.....	P776033
Vacuator Valve.....	P158914

D080056 PSD

Filter, Primary.....	P617631
Filter, Safety.....	P615493
Latch.....	P776033
Cover.....	P615530
Vacuator Valve.....	P617632
U-clip (4 clips).....	P784517

Air Cleaner Part No. and Style Description Service Part No.

D090019, D090020	PSD	
filter, primary.....	P608665	.....3
filter, Safety.....	P606121	.....3
latch.....	P777366	
Vacuator Valve.....	P158914	
cover.....	P609550	
u-clip (4 clips).....	P784517	

D090021, D090022	PSD	
filter, primary.....	P608675	.....3
filter, Safety.....	P606121	.....3
latch.....	P777366	
Vacuator Valve.....	P158914	
cover.....	P609552	
u-clip (4 clips).....	P784517	

D090055	PSD	
Filter, Primary.....	P608665	
Filter, Safety.....	P606121	
Latch.....	P784506	
Vacuator Valve.....	P112803	
Cover.....	P785651	
U-clip (4 clips).....	P784417	

D100029, D100030	PSD	
filter, primary.....	P608666	.....3
filter, Safety.....	P601560	.....3
latch.....	P777366	
Vacuator Valve.....	P112803	
cover.....	P784279	
u-clip (4 clips).....	P784517	

D100031, D100032	PSD	
filter, primary.....	P608676	.....3
filter, Safety.....	P601560	.....3
latch.....	P777366	
Vacuator Valve.....	P112803	
cover.....	P784298	
u-clip (4 clips).....	P784517	

D100068	PSD	
filter, primary.....	P608676	.....3
filter, Safety.....	P601560	.....3
latch.....	P777366	
Vacuator Valve.....	P112803	
cover.....	P784298	
u-clip (4 clips).....	P784517	

D100072	PSD	
filter, primary.....	P608666	.....3
filter, Safety.....	P601560	.....3
latch.....	P777366	
Vacuator Valve.....	P112803	
cover.....	P784279	
u-clip (4 clips).....	P784517	

Air Cleaner Part No. and Style Description Service Part No.

D120035, D120036	PSD	
filter, primary.....	P608667	.....3
filter, Safety.....	P607557	.....3
latch.....	P777366	
Vacuator Valve.....	P112803	
cover.....	P608171	
u-clip (4 clips).....	P784517	

D120037, D120038	PSD	
filter primary.....	P608677	.....3
filter, Safety.....	P607557	.....3
latch.....	P777366	
Vacuator Valve.....	P112803	
cover.....	P608180	
u-clip (4 clips).....	P784517	

G042503	FWG	
Thumb Screw.....	P017858	
Gasket Washer.....	P102784	
Filter Primary-UL Approved.....	P123065	
Filter Primary-High Vibration.....	P148970	
Filter Primary.....	P102745	
Cup.....	P102755	
Clamp.....	P002846	

G042529	FWG	
Thumb Screw.....	P017858	
Gasket Washer.....	P102784	
Cup.....	P102755	
Clamp.....	P002846	
Baffle, Rubber.....	P102754	
Baffle, Rubber.....	P102754	

G042544	FPG	
cover.....	P533685	.....8
filter, primary.....	P822686	.....3
filter, safety.....	P535396	.....4
latch.....	P538928	
Vacuator Valve.....	P522958	

G042545	FPG	
cover.....	P533685	.....8
filter, primary.....	P822686	.....3
filter, safety.....	P535396	.....4
latch.....	P538928	
Vacuator Valve.....	P522958	

*G042547	FPG	
Vacuator Valve.....	P522958	
Safety Filter.....	P535396	
Primary Filter.....	P831520	
Latch.....	P538928	
Inlet Hood-Optional.....	H002068	
Cover.....	P534392	

Air Cleaner Part No. and Style Description Service Part No.

*G042549	FPG	
Vacuator Valve.....	P522958	
Safety Filter.....	P535396	
Primary Filter.....	P831520	
Latch.....	P538928	
Inlet Hood-Optional.....	H002068	
Cover.....	P534392	

G052510	FWG	
Wing Nut.....	P101870	
Filter Primary-UL Approved.....	P122510	
Filter Primary-extended life.....	P182050	
Filter Primary.....	P181050	
Dust Cup-Vac Valve Style, Horz....	P103838	
Cup.....	P103007	
Clamp.....	P002904	
Baffle, Rubber.....	P102523	

G052512	FWG	
Filter Primary-UL Approved.....	P122510	
Filter Primary-extended life.....	P182050	
Filter Primary.....	P181050	
Dust Cup-Vac Valve Style, Horz....	P103838	
Cup.....	P103007	
Clamp.....	P002904	
Baffle, Rubber.....	P102523	

*G052558	FHG-STYA	
Wing Nut.....	P101870	
Vacuator Valve.....	P158914	
Filter Safety.....	P120307	
Filter Primary-High Vibration.....	P148967	
Filter Primary-extended life.....	P182072	
Filter Primary.....	P181072	
Cover/Cup.....	P120729	
Clamp.....	P002904	

*G052559	FHG-STYA	
Wing Nut.....	P101870	
Filter Safety.....	P120307	
Filter Primary-High Vibration.....	P148967	
Filter Primary-extended life.....	P182072	
Filter Primary.....	P181072	
Cover/Cup.....	P120316	
Clamp.....	P002904	

*G052560	FHG-STYA	
Wing Nut.....	P101870	
Vacuator Valve.....	P158914	
Filter Safety.....	P120307	
Filter Primary-High Vibration.....	P148967	
Filter Primary-extended life.....	P182072	
Filter Primary.....	P181072	
Cover/Cup.....	P120729	
Clamp.....	P002904	

For descriptions of footnotes, see page 123

Air Cleaner Service Parts Listing

Part Numbers with * indicates old/cancelled model (only service parts are available).



AC SERVICE PARTS

Air Cleaner Part No. and Style Description Service Part No.

*G052561 FHG-STYA

Wing Nut.....	P101870
Filter Safety.....	P120307
Filter Primary-High Vibration.....	P148967
Filter Primary-extended life.....	P182072
Filter Primary.....	P181072
Cover/Cup.....	P120316
Clamp.....	P002904

*G052617 FHG-STYA

Wing Nut.....	P101870
Vacuator Valve.....	P522958
Filter Safety.....	P120307
Filter Primary.....	P148967
Cover/Cup.....	P120729
Clamp.....	P002904

G052685 FRG Style A

clamp.....	P002904
cover.....	P120279
filter, primary.....	P600043 .....3
filter, safety.....	P600047 .....3
mounting band.....	P002348 .....2
Vacuator Valve.....	P158914

G052686 FRG Style A

clamp.....	P002904
cover.....	P120279
filter, primary.....	P600043 .....3
filter, safety (optional).....	P600047
mounting band.....	P002348 .....2
Vacuator Valve.....	P158914

G057511 FPG

cover.....	P533761 .....8
filter, primary.....	P821575 .....3
filter, safety.....	P822858 .....3
latch.....	P538928
Vacuator Valve.....	P522958

G057512 FPG

cover.....	P533761 .....8
filter, primary.....	P821575 .....3
filter, safety.....	P822858 .....3
latch.....	P538928
Vacuator Valve.....	P522958

G057513 FPG

cover.....	P533761 .....8
filter, primary.....	P821575 .....3
filter, safety.....	P822858 .....4
latch.....	P538928
Vacuator Valve.....	P522958

G057514 FPG

cover.....	P533761 .....8
filter, primary.....	P821575 .....3
filter, safety.....	P822858 .....4
latch.....	P538928
Vacuator Valve.....	P522958

Air Cleaner Part No. and Style Description Service Part No.

*G057516 FPG

Vacuator Valve.....	P522958
Safety Filter.....	P822858
Primary Filter.....	P831424
Latch.....	P538928
Inlet Hood-Optional.....	H001377
Cover.....	P533801

*G057517 FPG

Vacuator Valve.....	P522958
Safety Filter.....	P822858
Primary Filter.....	P821424
Latch.....	P538928
Inlet Hood-Optional.....	H001377
Cover.....	P533801

*G060003 SDG-PER

Gasket Kit.....	X002997
Filter Primary.....	P118342
Cover Latch Assembly.....	P017617
Cover Clip Spring.....	P017673
Clamp, Cup.....	P002691

G065008 FWG

Wing Nut.....	P101870
Filter Primary-UL Approved.....	P122514
Filter Primary-extended life.....	P182052
Filter Primary.....	P181052
Dust Cup-Vac Valve Style, Horz....	P103836
Cup.....	P102805
Clamp.....	P002940
Baffle, Rubber.....	P102510

G065012 FWG

Wing Nut.....	P101870
Filter Primary-UL Approved.....	P122514
Filter Primary-extended life.....	P182052
Filter Primary.....	P181052
Dust Cup-Vac Valve Style, Horz....	P103836
Cup.....	P102805
Clamp.....	P002940
Baffle, Rubber.....	P102510

*G065104 FHG-STYA

Wing Nut.....	P101870
Filter Safety.....	P119539
Filter Primary-High Vibration.....	P148586
Filter Primary-extended life.....	P182062
Filter Primary.....	P181062
Cup.....	P102805
Clamp.....	P002940
Baffle, Rubber.....	P102510

Air Cleaner Part No. and Style Description Service Part No.

*G065113 FHG-STYA

Wing Nut.....	P101870
Filter Safety.....	P119539
Filter Primary-High Vibration.....	P148586
Filter Primary-extended life.....	P182062
Filter Primary.....	P181062
Cup.....	P102805
Clamp.....	P002940
Baffle, Rubber.....	P102510

*G065212 FHG-STYA

Wing Nut.....	P101870
Vacuator Valve.....	P112803
Filter Safety.....	P119539
Filter Primary-High Vibration.....	P148586
Filter Primary-extended life.....	P182062
Filter Primary.....	P181062
Dust Cup-Vac Valve, Vert.....	P103839
Dust Cup-Vac Valve Style, Horz....	P103836
Clamp.....	P002940
Baffle, Rubber.....	P102510

G065256 FHG-STYA

Wing Nut.....	P101870
Vacuator Valve.....	P106593
Filter Safety.....	P119539
Filter Primary.....	P148586
Dust Cup-Vac Valve, Vert.....	P103839
Dust Cup-Vac Valve Style, Horz....	P103836
Clamp.....	P002940
Baffle, Rubber.....	P102510

*G065261 FHG-STYB

Wing Nut.....	P101870
Vacuator Valve.....	P106593
Filter Safety.....	P119539
Filter Primary.....	P148586
Cover.....	P114972

G065266 FWG

Wing Nut.....	P101870
Filter Primary.....	P148966
Dust Cup-Vac Valve Style, Horz....	P103836
Cup.....	P102805
Clamp.....	P002940
Baffle, Rubber.....	P102510

*G065359 FHG-STYB

Wing Nut.....	P101870
Vacuator Valve.....	P112803
Filter Safety.....	P119539
Filter Primary-High Vibration.....	P148586
Filter Primary-extended life.....	P182062
Filter Primary.....	P181062
Cover.....	P114972

*G065360 FHG-STYB

Wing Nut.....	P101870
Vacuator Valve.....	P112803
Filter Safety.....	P119539
Filter Primary-High Vibration.....	P148586
Filter Primary-extended life.....	P182062
Filter Primary.....	P181062

Air Cleaner Service Parts Listing

Part Numbers with * indicates old/cancelled model (only service parts are available).



AC SERVICE PARTS

Air Cleaner Part No. and Style Description Service Part No.

*G080490 FHG-STYB

Wing Nut.....	P101870
Vacuator Valve	P112803
Filter Safety.....	P119410
Filter Primary-High Vibration.....	P148973
Filter Primary-extended life.....	P182059
Filter Primary.....	P181059
Cover.....	P119711

*G080491 FHG-STYB

Wing Nut.....	P101870
Vacuator Valve	P112803
Filter Safety.....	P119410
Filter Primary-High Vibration.....	P148973
Filter Primary-extended life.....	P182059
Filter Primary.....	P181059
Cover.....	P119711

G080582 FRG Style A

clamp.....	P003951
cover	P600321
filter, primary.....	P601437 .....3
filter, safety.....	P601476 .....3
mounting band.....	P004307 .....2
Vacuator Valve	P158914

G080585 FRG Style A

cover	P600321
filter, primary.....	P601437 .....3
filter, safety (optional).....	P601476
mounting band.....	P004307 .....2
Vacuator Valve	P158914

G082525 FPG

cover	P534048 .....8
filter, primary.....	P828889 .....3
filter, safety.....	P829333 .....3
latch.....	P538928
Vacuator Valve	P158914

G082526 FPG

cover	P534048 .....8
filter, primary.....	P828889 .....3
filter, safety.....	P829333 .....3
latch.....	P538928
Vacuator Valve	P158914

G082527 FPG

cover	P534048 .....8
filter, primary.....	P828889 .....3
filter, safety	P829333 .....4
latch.....	P538928
Vacuator Valve	P158914

G082528 FPG

clamp.....	P102025
cover	P534048 .....8
filter, primary.....	P828889 .....3
filter, safety	P829333 .....4
latch.....	P538928
Vacuator Valve	P158914

Air Cleaner Part No. and Style Description Service Part No.

*G090022 FHG-STYA

Wing Nut.....	P101870
Filter Safety.....	P119778
Filter Primary-extended life.....	P182063
Filter Primary.....	P181063
Cover/Cup.....	P112667
Clamp	P102025
Baffle.....	P105050

*G090024 FHG-STYA

Wing Nut.....	P101870
Filter Safety.....	P119778
Filter Primary-extended life.....	P182063
Filter Primary.....	P181063
Cover/Cup.....	P112667
Clamp	P102025
Baffle.....	P105050

*G090182 FHG-STYB

Wing Nut.....	P101870
Filter Safety.....	P119778
Filter Primary-extended life.....	P182063
Filter Primary.....	P181063
Cover.....	P115466

*G090183 FHG-STYB

Wing Nut.....	P101870
Filter Safety.....	P119778
Filter Primary-extended life.....	P182063
Filter Primary.....	P181063
Cover.....	P115466

G090219 FPG

filter, primary.....	P780522
filter, safety.....	P780523
Vacuator Valve	H770012
cover	P780524

G090225 FPG

filter, primary.....	P780522
filter, safety.....	P780523
Vacuator Valve	H770012
cover	P780524

G090245 FRG Style A

clamp.....	P102025
cover	P600657
filter, primary.....	P601280 .....3
filter, safety.....	P601286 .....3
mounting band.....	P004073 .....2
Vacuator Valve	P158914

G090250 FRG Style A

cover	P600657
filter, primary.....	P601280 .....3
filter, safety (optional).....	P601286
mounting band.....	P004073 .....2
Vacuator Valve	P158914

Air Cleaner Part No. and Style Description Service Part No.

G092001 ECG Bolt Service Cover

filter, primary, no cover, treated....	P148044 .....1,3
mounting band.....	P004073 .....2
nuts, plastic.....	P119325
retaining ring.....	P129469

*G092004 ECG-KPII

Stud Repair Kit.....	X004464
Nuts, Plastic.....	P119325
Mounting Band.....	P004073
Cover Gasket.....	P120597
Filter Primary Treated.....	P148044

G092401 ECG Latch Service Cover

filter, primary, no cover	P150692 .....3
filter, primary, no cover, treated....	P148044 .....1
filter, primary, attached cover.....	P150693 .....6
spring latch replacement kit	X006201

*G092501 ECG-KPI

Latch Replacement Kit.....	X006201
Filter Primary-extended life.....	P150693
Filter Primary Treated.....	P148044
Filter Primary.....	P150692

G100003 FWG

Wing Bolt.....	P018464
Gasket, Body or Cup	P101401
Filter Primary-extended life.....	P182045
Filter Primary.....	P181045
Dust Cup-Vac Valve Style, Horz....	P103827
Cup.....	P103519
Clamp	P106071
Baffle, Metal	P103135

G100004 FWG

Wing Bolt.....	P018464
Gasket, Body or Cup	P101401
Filter Primary-extended life.....	P182045
Filter Primary.....	P181045
Dust Cup-Vac Valve Style, Horz....	P103827
Cup.....	P103519
Clamp	P106071
Baffle, Metal	P103135

*G100028 FHG-STYA

Nut.....	P111852
Gasket, Body or Cup	P101401
Filter Safety.....	P119375
Filter Primary-extended life.....	P182064
Filter Primary.....	P181064
Cup.....	P103519
Clamp	P106071
Baffle, Metal	P103135

For descriptions of footnotes, see page 123

Air Cleaner Service Parts Listing

Part Numbers with * indicates old/cancelled model (only service parts are available).



AC SERVICE PARTS

Air Cleaner Part No. and Style Description Service Part No.

G112404 ECG Latch Service Cover

cover P150862
 filter, primary, attached cover
 - ES & HE EAF5053
 filter, primary, attached cover P153551
 filter, primary, no cover, treated... P1545751,3
 gasket, cover P536493
 spring latch replacement kit X006201

G112417 ECG Latch Service Cover

cover P150862
 filter, primary, no cover P1506943,5
 filter, primary, no cover - ES & HE EAF5029
 filter, primary, attached cover P150695
 filter, primary, attached cover
 - ES & HE EAF5047
 gasket, cover P536493
 spring latch replacement kit X006201

G112501 ECG Latch Service Cover

filter, primary P1506945
 filter, primary, no cover - ES & HE EAF5029
 filter, primary, P1506953,6
 filter, primary, attached cover
 - ES & HE EAF5047
 filter, primary, treated P1480431
 gasket, cover P536493
 spring latch replacement kit X006201

G112504 ECG Latch Service Cover

filter, primary, attached cover
 - ES & HE EAF5053
 filter, primary, attached cover P1535516
 filter, primary, attached black
 cover P5377913,6
 filter, primary, no cover, treated... P1545751
 gasket, cover P536493
 spring latch replacement kit X006201

*G120012 FHG-STYA

Nut P111852
 Gasket, Body or Cup P017804
 Filter Safety P119374
 Filter Primary-extended life P182034
 Filter Primary P181034
 Cup P106589
 Clamp P100808
 Baffle, Metal P106329

*G120014 FHG-STYA

Nut P111852
 Gasket, Body or Cup P017804
 Filter Safety P119374
 Filter Primary-extended life P182034
 Filter Primary P181034
 Cup P106589
 Clamp P100808
 Baffle, Metal P106329

Air Cleaner Part No. and Style Description Service Part No.

*G120036 FHG-STYA

Vacuator Valve P103198
 Nut P111852
 Gasket, Body or Cup P017804
 Filter Safety P119374
 Filter Primary-extended life P182034
 Filter Primary P181034
 Dust Cup-VacValve, Vert P103828
 Dust Cup-Vac Valve Style, Horz... P109296
 Clamp P121067
 Baffle, Metal P106329

*G120037 FHG-STYA

Vacuator Valve P103198
 Nut P111852
 Gasket, Body or Cup P017804
 Filter Safety P119374
 Filter Primary-extended life P182034
 Filter Primary P181034
 Dust Cup-VacValve, Vert P103828
 Dust Cup-Vac Valve Style, Horz... P109296
 Clamp P121067
 Baffle, Metal P106329

G120059 FWG

Wing Bolt P018464
 Gasket, Body or Cup P017804
 Filter Primary-UL Approved P122525
 Filter Primary-extended life P182035
 Filter Primary P181035
 Dust Cup-Vac Valve Style, Horz... P109296
 Cup P106589
 Clamp P100808
 Baffle, Metal P106329

G120063 FWG

Wing Bolt P018464
 Gasket, Body or Cup P017804
 Filter Primary-UL Approved P122525
 Filter Primary-extended life P182035
 Filter Primary P181035
 Dust Cup-Vac Valve Style, Horz... P109296
 Cup P106589
 Clamp P100808
 Baffle, Metal P106329

*G120075 STG-PER

Wing Nut P109062
 Safety Signal-WingNut X004816
 Mounting Band H000349
 Inlet Shroud P102881
 Cover Gasket P017365
 Gasket, Body or Cup P017804
 Gasket Washer P105740
 Gasket Kit X003537
 Filter Safety P119371
 Filter Primary-extended life P182044
 Filter Primary P181044
 Dust Cup-Quick Release P107375

Air Cleaner Part No. and Style Description Service Part No.

*G120250 SBG-PER

Vacuator Valve P112803
 Thumb Screw P016984
 Inner Cup P101669
 Gasket, Inner Cover P100894
 Gasket, Filter P018033
 Cover Gasket P017365
 Gasket, Body or Cup P017804
 Gasket Washer P018462
 Gasket Kit X002994
 Filter Primary-extended life P182033
 Filter Primary P181033
 Dust Cup-VacValve, Vert P105015
 Dust Cup-Vac Valve Style, Horz... P103744
 Dust Cup-Quick Release P107375
 Cup P100807
 Cover Latch Assembly P017617
 Cover Clip Spring P017673
 Cover P017897
 Clamp P100808

*G120251 SBG-TUB

Thumb Screw P016984
 Inner Cup P101669
 Gasket, Inner Cover P100894
 Gasket, Filter P018033
 Cover Gasket P017365
 Gasket, Body or Cup P017804
 Gasket Washer P018462
 Filter Primary-extended life P182033
 Filter Primary P181033
 Cup P100807
 Cover Latch Assembly P017617
 Cover Clip Spring P017673
 Cover P017897
 Clamp P100808

G120332 STG-TUB

body, lower P110875
 dust cup, quick release P107375
 filter, primary - SM P181044
 filter, primary - ES & HE EAF5044
 filter, primary P1820443
 filter, safety P119371
 gasket, body or cup P017804
 gasket, cover P017365
 gasket washer P105740
 mounting band H0003492
 SafetySignal indicator X004816
 spring clip & pin X005555
 wing nut P109062

G120415 FRG Style A

baffle, metal P106329
 clamp P121067
 dust cup/cover P109296
 filter, primary P6017673
 filter, safety P6017743
 mounting band H0003492
 o-ring P017804
 Vacuator Valve P103198

For descriptions of footnotes, see page 123

Air Cleaner Part No. and Style Description Service Part No.
G120417 FRG Style A

baffle, metal	P106329
clamp.....	P121067
dust cup/cover.....	P109296
filter, primary	P601767 .....3
filter, safety (optional).....	P601774
mounting band.....	H000349 .....2
o-ring.....	P017804
Vacuator Valve	P103198

***G130043 FTG**

Wing Nut, Filter.....	P126054
Wing Nut, Cover.....	P126049
Vacuator Valve	P103198
Safety Signal-WingNut	X004814
Cover Gasket.....	P127377
Filter Safety.....	P138722
Filter Primary-extended life.....	P182082
Filter Primary.....	P181082
Cover.....	P127368
Clip.....	P154710

G130079 EPG

cover	P533916
fastener kit	X006452
filter, primary - SM	P533930 .....3
filter, primary - ES & HE.....	EAF5109
filter, safety.....	P533890 .....4
thumb screw.....	P527435
Vacuator Valve	P525956

G130089 EPG

cover	P533916
fastener kit	X006452
filter, primary - SM	P533930 .....3
filter, primary - ES & HE.....	EAF5109
filter, safety.....	P533890 .....3
thumb screw.....	P527435
Vacuator Valve	P525956

G130097 FRG Style B

cover	P538259 .....8
filter, primary.....	P537876 .....3
filter, safety.....	P532504 .....3
gasket, cover	P537699
latch.....	P776033
mounting band.....	P013722 .....2
Vacuator Valve	P776008

G130107 FRG Style B

cover	P538259 .....8
filter, primary.....	P532503 .....3
filter, safety.....	P532504 .....3
gasket, cover	P537699
latch.....	P776033
mounting band.....	P013722 .....2
Vacuator Valve	P776008

Air Cleaner Part No. and Style Description Service Part No.
G132000 ECG Bolt Service Cover

filter, primary, no cover	P142100 .....3
filter, primary, no cover - ES & HE..	EAF5027
gasket, cover	P120604
mounting band.....	P013722 .....2
nuts, plastic.....	P119325
retaining ring.....	P129469

***G140022 FHG-STYA**

Nut.....	P111852
Gasket, Body or Cup.....	P017335
Filter Safety.....	P119373
Filter Primary-extended life.....	P182046
Filter Primary.....	P181046
Cup/Baffle.....	P118784
Clamp.....	P100866

***G140023 FHG-STYA**

Nut.....	P111852
Gasket, Body or Cup.....	P017335
Filter Safety.....	P119373
Filter Primary-extended life.....	P182046
Filter Primary.....	P181046
Cup/Baffle.....	P118784
Clamp.....	P100866

***G140054 FHG-STYA**

Vacuator Valve	P103198
Nut.....	P111852
Gasket, Body or Cup.....	P017335
Filter Safety.....	P119373
Filter Primary-extended life.....	P182046
Filter Primary.....	P181046
Dust Cup-VacValve, Vert.....	P103829
Dust Cup-Vac Valve Style, Horz....	P109297
Clamp.....	P100866
Baffle, Metal.....	P106771

***G140055 FHG-STYA**

Vacuator Valve	P103198
Nut.....	P111852
Gasket, Body or Cup.....	P017335
Filter Safety.....	P119373
Filter Primary-extended life.....	P182046
Filter Primary.....	P181046
Dust Cup-VacValve, Vert.....	P103829
Dust Cup-Vac Valve Style, Horz....	P109297
Clamp.....	P100866
Baffle, Metal.....	P106771

Air Cleaner Part No. and Style Description Service Part No.
G140076 STG-PER

body, lower.....	P102256
clamp, cup.....	P100866
cover latch assembly	P017617
dust cup	P100860 .....3
filter, primary - SM	P181041
filter, primary - ES & HE.....	EAF5041
filter, primary.....	P182041 .....3
filter, safety.....	P119370
gasket kit	X003538 .....9
gasket washer	P105740
gasket, body or cup	P017335
gasket, cover	P016972
inlet shroud	P102870
mounting band.....	H000350 .....2
SafetySignal indicator.....	X004816
spring clip & pin	X005555
wing nut.....	P109062

G140083 FWG

Wing Bolt.....	P018464
Gasket, Body or Cup	P017335
Filter Primary-UL Approved.....	P122529
Filter Primary-extended life.....	P182000
Filter Primary.....	P181000
Cup.....	P106773
Clamp	P100866
Baffle, Metal	P106771

G140195 FVG

filter, primary - SM	P181043
filter, primary - ES & HE.....	EAF5043
filter, primary.....	P182043 .....3
filter, safety	P124860
gasket washer	P105740
mounting band.....	H000350 .....2
pin.....	P109107
retainer	P105738
SafetySignal indicator.....	X004816
Vacuator Valve	P103198
wing nut	P116175

***G140260 SBG-PER**

Vacuator Valve	P112803
Thumb Screw.....	P016984
Inner Cup.....	P101670
Gasket, Inner Cover.....	P100859
Gasket, Filter.....	P018029
Cover Gasket.....	P016972
Gasket, Body or Cup	P017335
Gasket Washer.....	P018462
Gasket Kit	X002993
Filter Primary-extended life.....	P182037
Filter Primary.....	P181037
Dust Cup-VacValve, Vert.....	P105016
Dust Cup-Vac Valve Style, Horz....	P103746
Dust Cup-Quick Release	P107376
Cup.....	P100860
Cover Latch Assembly.....	P017617
Cover Clip Spring.....	P017673
Clamp, Body.....	P100861
Clamp.....	P100866

Air Cleaner Service Parts Listing

Part Numbers with * indicates old/cancelled model (only service parts are available).



AC SERVICE PARTS

Air Cleaner Part No. and Style Description Service Part No.

*G140261 SBG-TUB

Thumb Screw.....	P016984
Inner Cup.....	P101670
Gasket, Inner Cover.....	P100859
Gasket, Filter.....	P018029
Cover Gasket.....	P016972
Gasket, Body or Cup.....	P017335
Gasket Washer.....	P018642
Filter Primary-extended life.....	P182037
Filter Primary.....	P181037
Cup.....	P100860
Cover Latch Assembly.....	P017617
Cover Clip Spring.....	P017673
Clamp, Body.....	P100861
Clamp.....	P100866
Body, Lower.....	P101032

*G140270 SBG-PER

Vacuator Valve.....	P112803
Thumb Screw.....	P016984
Inner Cup.....	P101670
Gasket, Inner Cover.....	P100859
Gasket, Filter.....	P018029
Cover Gasket.....	P016972
Gasket, Body or Cup.....	P017335
Gasket Washer.....	P018462
Gasket Kit.....	X002993
Filter Primary-extended life.....	P182032
Filter Primary.....	P181032
Dust Cup-VacValve, Vert.....	P105016
Dust Cup-Vac Valve Style, Horz....	P103746
Dust Cup-Quick Release.....	P107376
Cup.....	P100860
Cover Latch Assembly.....	P017617
Cover Clip Spring.....	P017673
Clamp, Body.....	P100861
Clamp.....	P100866
Body, Lower.....	P100934

G140445 STG-TUB

body, lower.....	P114100
cover latch assembly.....	P017617
dust cup.....	P100860.....3
filter, primary - SM.....	P181041
filter, primary - ES & HE.....	EAF5041
filter, primary.....	P182041.....3
filter, safety.....	P119370
gasket kit.....	X003538
gasket washer.....	P105740
gasket, body or cup.....	P017335
gasket, cover.....	P016972
mounting band.....	H000350.....2
SafetySignal indicator.....	X004816
spring clip & pin.....	X005555
wing nut.....	P109062

G140523 FRG Style A

baffle, metal.....	P106771
clamp.....	P100866
dust cup/cover.....	P109297
filter, primary.....	P532503.....3
filter, safety.....	P532504.....3
mounting band.....	H000350.....2
o-ring.....	P017335
Vacuator Valve.....	P103198

Air Cleaner Part No. and Style Description Service Part No.

G140526 FRG Style A

baffle, metal.....	P106771
clamp.....	P100866
dust cup/cover.....	P109297
filter, primary.....	P532503.....3
filter, safety (optional).....	P532504
mounting band.....	H000350.....2
o-ring.....	P017335
Vacuator Valve.....	P103198

G150048 EPG

cover.....	P523096
fastener kit.....	X006452
filter, primary - SM.....	P527682.....3
filter, primary - ES & HE.....	EAF5069
filter, safety.....	P527683.....4
thumb screw.....	P527435
Vacuator Valve.....	P525956

G150049 EPG

cover.....	P523096
fastener kit.....	X006452
filter, primary - SM.....	P527682.....3
filter, primary - ES & HE.....	EAF5069
filter, safety.....	P527683.....3
thumb screw.....	P527435
Vacuator Valve.....	P525956

*G150039 FTG

Wing Nut, Filter.....	P126054
Wing Nut, Cover.....	P126049
Vacuator Valve.....	P103198
Safety Signal-WingNut.....	X004814
Filter Safety.....	P127309
Filter Primary.....	P127308
Cover.....	P128293
Clip.....	P154710

G150092 FRG Style B

cover.....	P777920.....8
filter, primary.....	P777868.....3
filter, safety.....	P777869.....3
latch.....	P776033
mounting band.....	P016845.....2
Vacuator Valve.....	P776008

*G160035 SBG-TUB

Thumb Screw.....	P016984
Inner Cup.....	P101666
Gasket, Inner Cover.....	P100777
Gasket, Filter.....	P017368
Cover Gasket.....	P017367
Gasket, Body or Cup.....	P017336
Gasket Washer.....	P018642
Filter Primary-extended life.....	P182036
Filter Primary.....	P181036
Cup.....	P100794
Cover Latch Assembly.....	P017617
Cover Clip Spring.....	P017673
Cover.....	P017831
Clamp, Cup.....	P100789
Clamp, Body.....	P100780
Body, Lower.....	P115022

Air Cleaner Part No. and Style Description Service Part No.

G160048 FHG-STYA

Nut.....	P111852
Gasket, Body or Cup.....	P017336
Filter Safety.....	P119372
Filter Primary-extended life.....	P182002
Filter Primary.....	P181002
Clamp, Cup.....	P100789
Baffle, Metal.....	P106637

*G160049 FHG-STYA

Vacuator Valve.....	P103198
Nut.....	P111852
Gasket, Body or Cup.....	P017336
Filter Safety.....	P119372
Filter Primary-extended life.....	P182002
Filter Primary Treated.....	P122708
Filter Primary.....	P181002
Cover/Cup.....	P206952
Clamp, Cup.....	P100789
Baffle, Metal.....	P106637

*G160057 FHG-STYA

Nut.....	P111852
Gasket, Body or Cup.....	P017336
Filter Safety.....	P119372
Filter Primary-extended life.....	P182002
Filter Primary Treated.....	P122708
Filter Primary.....	P181002
Cup.....	P106639
Clamp, Cup.....	P100789
Baffle, Metal.....	P106637

G160077 STG-PER

body, lower.....	P115023
cover.....	P109153
clamp, body.....	P100780
clamp, cup.....	P100789
cover latch assembly.....	P017617
dust cup, quick release.....	P107377
dust cup.....	P100794.....3
dust cup, VacValve, horz.....	P103530
dust cup, VacValve, vert.....	P104973
filter, primary - SM.....	P181039
filter, primary - ES & HE.....	EAF5039
filter, primary.....	P182039.....3
filter, safety.....	P114931
gasket kit.....	X003539.....9
gasket washer.....	P105740
gasket, body or cup.....	P017336
gasket, cover.....	P017367
inlet shroud.....	P101759
mounting band.....	H000351.....2
SafetySignal indicator.....	X004816
spring clip & pin.....	X005555
wing nut.....	P109062

For descriptions of footnotes, see page 123

Air Cleaner Service Parts Listing

Part Numbers with * indicates old/cancelled model (only service parts are available).



AC SERVICE PARTS

Air Cleaner Part No. and Style Description Service Part No.

G161006 STG-PER

clamp, body.....	P100780
clamp, cup.....	P100789
dust cup.....	P100794 .....3
dust cup, quick release.....	P107377
dust cup, VacValve, horz.....	P103530
dust cup, VacValve, vert.....	P104973
filter, primary - SM.....	P181042
filter, primary - ES & HE.....	EAF5042
filter, primary.....	P182042 .....3
filter, safety.....	P128408
gasket kit.....	X003539 .....9
gasket washer.....	P105740
gasket, body or cup.....	P017336
gasket, cover.....	P017367
inlet shroud.....	P101759
mounting band.....	H000351 .....2
SafetySignal indicator.....	X004816
wing nut.....	P109062

G161020 STG-TUB

dust cup.....	P100794 .....3
dust cup, quick release.....	P107377
dust cup, VacValve, horz.....	P103530
dust cup, VacValve, vert.....	P104973
filter, primary - SM.....	P181042
filter, primary - ES & HE.....	EAF5042
filter, primary.....	P182042 .....3
filter, safety.....	P128408
gasket kit.....	X003539 .....9
gasket washer.....	P105740
gasket, body or cup.....	P017336
gasket, cover.....	P017367
mounting band.....	H000351 .....2
SafetySignal indicator.....	X004816
wing nut.....	P109062

G180031 FRG Style B

cover.....	P781084
filter, primary.....	P781098 .....3
filter, safety.....	P781102 .....3
mounting band.....	H770037 .....2
Vacuator Valve.....	P105220

G200008 SRG

body, lower.....	P117785
clamp.....	P100808
clip.....	P105738
dust cup, quick release.....	P107375
filter, primary - SM.....	P181038
filter, primary - ES & HE.....	EAF5038
filter, primary.....	P182038 .....3
filter, safety.....	P115070
gasket, body.....	P117791 .....2
gasket, body.....	P115098 .....2
gasket, body or cup.....	P017804
gasket, QR cup.....	P112789
gasket washer.....	P105740
rain shroud, front.....	P119876
rain shroud, right side.....	P119874
rain shroud, left side.....	P119875
SafetySignal indicator.....	X004816
Vacuator Valve.....	P103198
wing nut, filter.....	P116175

Air Cleaner Part No. and Style Description Service Part No.

G200013 SRG

body, lower.....	P117785
clamp.....	P100808
clip.....	P105738
dust cup, quick release.....	P107375
filter, primary - SM.....	P181040
filter, primary - ES & HE.....	EAF5040
filter, primary.....	P182040 .....3
filter, safety.....	P117781
gasket, body.....	P117791 .....2
gasket washer.....	P105740 .....2
gasket, body.....	P115098 .....2
gasket, body or cup.....	P017804
gasket, QR cup.....	P112789
rain shroud, front.....	P119876
rain shroud, right side.....	P119874
rain shroud, left side.....	P119875
SafetySignal indicator.....	X004816
Vacuator Valve.....	P103198
wing nut, filter.....	P116175

*G200016 SRG

Wing Nut, Filter.....	P116175
Vacuator Valve.....	P103198
Safety Signal-WingNut.....	X004816
Rain Shield, Right Side.....	P119875
Rain Shield, Left Side.....	P119874
Rain Shield, Front.....	P119876
Nut.....	P115063
Gasket, Body or Cup.....	P017804
Gasket, Body.....	P115098
Gasket Washer.....	P105740
Gasket Kit.....	X003725
Gasket.....	P117791
Filter Safety.....	P117781
Filter Primary-extended life.....	P182040
Filter Primary.....	P181040
Dust Cup-VacValve, Vert.....	P105015
Dust Cup-Quick Release.....	P107375
Clip.....	P105738
Clamp.....	P100808
Body, Upper.....	P117760

G200086, G200087 SSG

body gasket strips (two, short).....	P115098
body gasket strips (two, long).....	P117791
cover.....	P603716
cover chain.....	P017281
chain connector.....	P017283
dust cup.....	P158089
dust cup gasket.....	P017804
dust cup clamp.....	P100808
dust cup vacuator valve.....	P103198
filter, primary radial seal.....	P608306 .....3
filter, primary, ES & HE.....	EAF5152
filter, safety radial seal.....	P608305 .....3
lower body assembly.....	P117785
rain shroud, right side.....	P119874
rain shroud, front.....	P119876
rain shroud, left side.....	P119875

Air Cleaner Part No. and Style Description Service Part No.

G200088 (longer upper unit) SSG

body gasket strips (two, short).....	P603504
body gasket strips (two, long).....	P117791
cover.....	P603716
cover chain.....	P017281
chain connector.....	P017283
dust cup.....	P158089
dust cup gasket.....	P017804
dust cup clamp.....	P100808
dust cup vacuator valve.....	P103198
filter, primary radial seal.....	P609519 .....3
filter, primary, ES & HE.....	EAF5153
filter, safety radial seal.....	P609518 .....3
lower body assembly.....	P603505
rain shroud, right side.....	P610776
rain shroud, front.....	P119876
rain shroud, left side.....	P610777

G290000 SRG

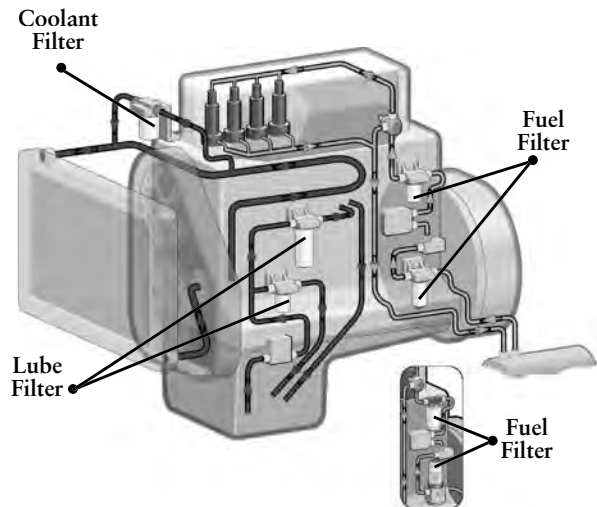
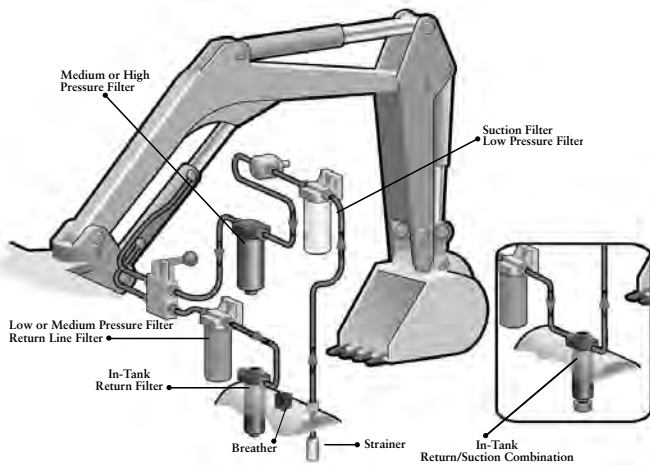
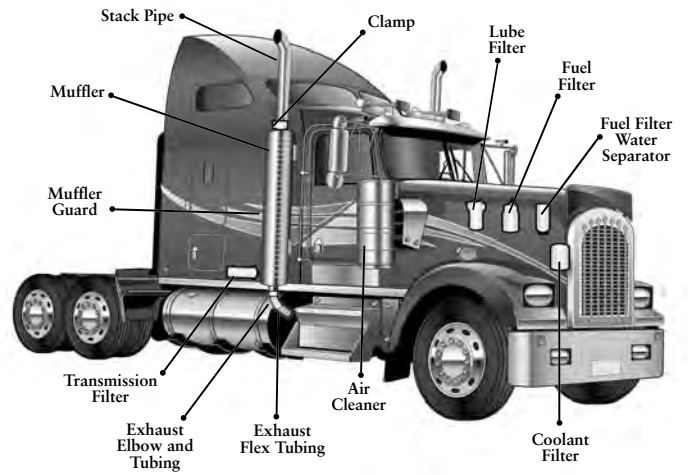
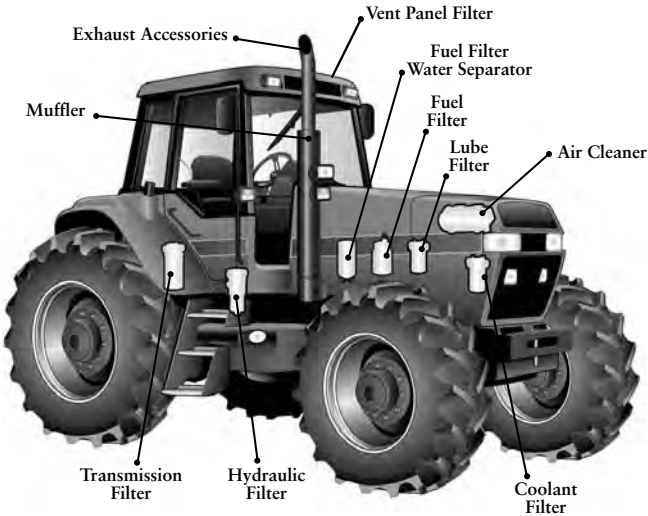
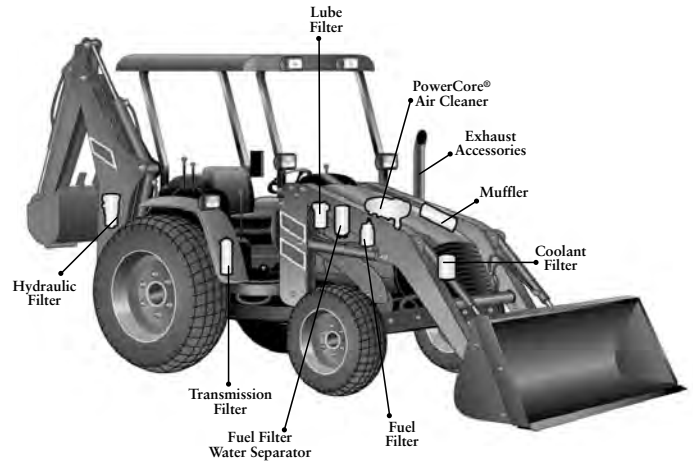
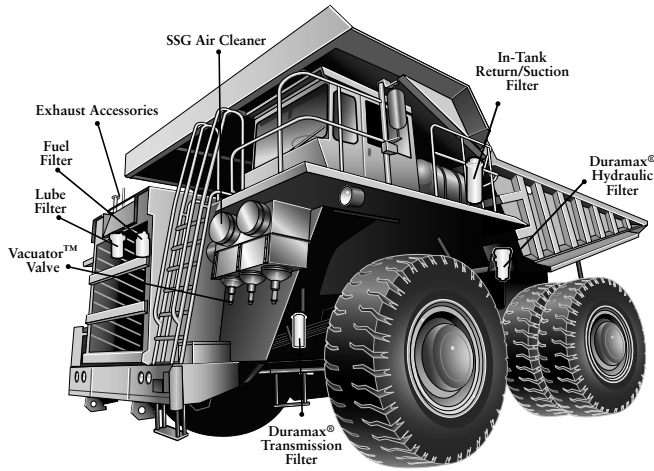
body, lower.....	P115110
clamp.....	P100808
clip.....	P105738
dust cup, quick release.....	P107375
filter, primary - SM.....	P181038
filter, primary - ES & HE.....	EAF5038
filter, primary.....	P182038 .....3
filter, safety.....	P115070
gasket washer.....	P105740
gasket, body.....	P115098 .....2
gasket, body.....	P115098 .....2
gasket, body or cup.....	P017804
gasket, QR cup.....	P112789
rain shroud, front.....	P119877
rain shroud, right side.....	P119874
rain shroud, left side.....	P119875
SafetySignal indicator.....	X004816
Vacuator Valve.....	P103198
wing nut, filter.....	P116175

*G290001 SRG

Wing Nut, Filter.....	P116175
Vacuator Valve.....	P103198
Safety Signal-WingNut.....	X004816
Rain Shield, Right Side.....	P119875
Rain Shield, Left Side.....	P119874
Rain Shield, Front.....	P119876
Gasket, Body or Cup.....	P017804
Gasket, Body.....	P115098
Gasket, Body.....	P115098
Gasket Washer.....	P105740
Gasket Kit.....	X003726
Filter Safety.....	P115070
Filter Primary-extended life.....	P182038
Filter Primary.....	P181038
Dust Cup-VacValve, Vert.....	P105015
Dust Cup-Quick Release.....	P107375
Clip.....	P105738
Clamp.....	P100808
Body, Upper.....	P115107

For descriptions of footnotes, see page 123

AC SERVICE PARTS



SHOPTALK... the simple facts for owners of diesel-powered equipment and vehicles

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Proper air cleaner servicing results in maximum engine protection against the ravages of dust. Proper servicing can also save you time and money by maximizing filter life and air cleaning efficiency. Specific air cleaner family service instructions can be found within the PowerCore® Air Cleaner, E Series, F Series or S Series sections.

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Intake System Service Check List

- Inspect intake for obstructions or damage. Look for dents or other obstructions which might interrupt air flow causing additional restriction.
- Inspect pre-cleaner to ensure it is in proper working order.
- Inspect all rubber connections, elbows or hoses for hardening or cracks to the material.
- Inspect all clamps/ hangers for wear and proper tightness to ensure no leakage
- Inspect indicators and indicator fitting filters to make sure they are in proper working order.
- Inspect the Vacuator™ Valves for cracks, paint, wear or if missing. Replace as necessary.
- Inspect new filters for dents or any damage.
- Inspect used primary and safety filters for signs of leakage.
- Inspect and replace any worn or damaged wing nuts, gaskets or washers/
- Inspect service covers and latches for wear and proper fit.
- Inspect inlet and outlet tubes for any damage or wear.

Don't Throw Away a Good Filter Just Because it Might Look "Dirty"



Although this air filter may look "dirty" – It can go plenty more miles. Installation of a restriction indicator can save you money and time.

Why Service By Restriction?

Proper air cleaner servicing will result in maximum engine protection against the ravages of dust. Proper servicing can also save you time and money by increasing filter life and dust cleaning efficiency.

By using proper filter restriction measurement tools you will use the full life of the filter at maximum efficiency. **DON'T BE FOOLED** by filter appearance: it should look dirty.



The only way to determine when a filter is plugged or plugging is to measure the restriction on the system with the engine working at max airflow.

Two of the most common air cleaner servicing problems are:

1. Over-servicing: the least efficient time in the life of the filter is when it is new. Filter elements increase in efficiency as dust builds up on the media.
2. Improper servicing: your engine is highly vulnerable to abrasive dust contaminants during the servicing process when the filter is removed from the housing. A leading cause of engine damage is due to careless servicing procedures.

Choose Restriction Measurement Tools that Best Fit Your Applications

Donaldson offers a variety of restriction measuring devices that help you get maximum filter utilization. All measure restriction in inches of water vacuum. All are resistant to vibration, breakage, weather, corrosion, dust and dirt to assure reliable filter restriction readings.



Continuous Reading devices show how much life is left in the filter:

- The Informer™
- Service Gauge for Instrument Panel

Go/No-Go restriction readings on heavy-duty vehicles:

- ServiSignal™
- Visual Restriction Indicator
- Electrical Indicator
- SafetySignal™ for safety filters

In-Field restriction readings on light and medium-duty vehicles:

- In-Field Service Gauge Kit

Ref: Shoptalk Card F115236 & Air Cleaner Catalog F110027

Worried About Water in Your Air Intake System?



Sometimes you can't help operating equipment in extreme moisture environments, but it's good to know a few things to help keep your air intake system running at top efficiency.

Typical Symptoms of Water Ingestion:

- High restriction indications
- Mud caked in the VacValve
- Wet, wavy air filter media
- System rust, corrosion and/or water damage
- Moisture-related environmental problems such as icing

Simple Tips to Keep Water Out of Your System:

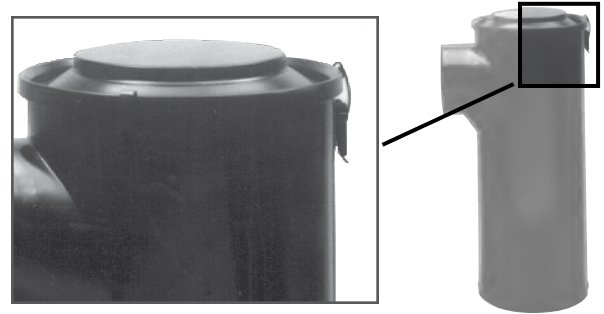
- Check and clear the VacValve daily
- Make sure the air cleaner cover and filter are installed properly
- Inspect air intake system for any leaks



Caution: A water-soaked air filter will occasionally lock-up a restriction indicator!

A restriction indicator's "lock-up" restriction level is generally marked on the indicator itself. To check an indicator, remove it, wipe the base clean, then apply a small amount of vacuum. If the indicator locks up, it is okay. If not, replace the indicator.

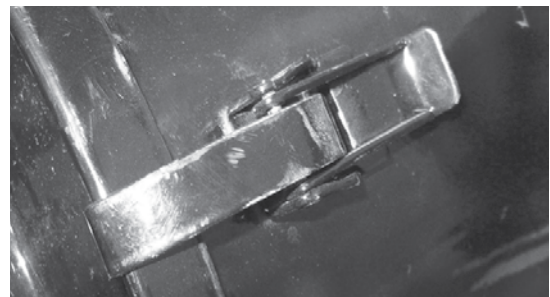
Keep Those ECG Konepac™ Air Cleaner Latches Inspected



ECG style air cleaners have three cover latches that need to perform correctly to ensure the element gasket is sealing properly. These latches should be checked for tightness and wear. To check for tightness, close all three latches, then open and close them one at a time. There should be good tension and should snap tightly when closed. If any latches seem loose or rattle, they should be replaced.



The spring clip and pin repair kit is X009291 and fits all ECG style air cleaners.



The most obvious place to check for wear is the spring latch tip (the part that hooks into the notch on the filter cover). The tip may become sharp and cut into the filter cover with extended wear. The tip may also wear to the point where it will not hook onto the filter cover at all. If any of these conditions are evident, the latch should be replaced.

Will Using Aftermarket Filters or Mufflers Void My Warranty?

Answer: Good News! No need to worry about voiding your warranty – you can use aftermarket products! You still need to follow your manufacturer’s recommend maintenance practices, but your warranty is protected under the Magnuson-Moss Warranty Act. Information on the Magnuson-Moss Warranty Act is available at www.ftc.gov/bcp/edu/pubs/business/adv/bus01.shtm.



In addition, Donaldson warrants its aftermarket products against failure due to defects in materials and workmanship for the period specified under Terms and Conditions for the particular product.

Do You Store or Warehouse Filters On-Site?

Whether it’s an empty trailer or building, it’s important to practice good storage and handling techniques when it comes to filters.

Before installing any filter on a piece of equipment make sure the filter is clean, unused and free of damage and is not more than six years old from the manufacturing date.

Filter Storage & Handling Tips

- Never store an air filter on a shelf without it being in a box or totally sealed from outside contaminant.
- When you see an open box of filters on the shelf, tape it shut - unless the filters inside the box are individually sealed.
- Handle filters with care to prevent filter damage; for example, don't throw filters into the back of a truck.
- If transporting filters from one job site to another, don't let them roll around on the floorboard or back of the truck that may cause damage.
- Metal storage shelves may cause condensation to form on filters if sitting directly on metal. Over time the filter may get rusty. Another good reason to store filters in boxes.
- If product box has layers of contaminant, take care that the contaminant doesn't get on the new filter as you remove it from the box.
- Practice "first-in, first-out" with your inventory. When possible, always use the oldest inventory first.
- Make sure any labels with product information and manufacturing dates are visible to personnel pulling from the shelves.
- The conditions under which the filters are stored can have a significant impact upon the shelf life of the filter; i.e., conditions of excessive temperatures or exposures to certain chemical environments can have an adverse effect on shelf life.

Ref: Shoptalk Card F115222

Terms & Definitions

Airflow Requirements

Air is critical to the operation of an engine. The amount of air required by the engine depends on the type of engine, if it has a turbocharger and the horsepower rating. The engine airflow requirement or specification is set by the engine manufacturer and should be given by the engine manufacturer.

Axial Seal

The axial seal sealing method requires a force between an air filter and air cleaner that provides enough compression on the gasket between the parts to create the seal.

CFM

CFM means cubic feet per minute. This is the unit of air flow measurement. An engine requires a flow of air for combustion.

Dust Capacity

Dust capacity is the amount of contaminant that will be collected on a filter before a specified restriction level (set by the engine manufacturer) is reached.

Dust Concentration

Dust concentration expresses the mass of dust in a specified volume of air. Typical ambient conditions are around 0.1 milligrams per cubic meter. Off-road conditions are around 100 milligrams per cubic meter.

Filter Media

Filter media is the material in the filter that removes the contaminant. Filter media is made from cellulose, synthetic and various combinations and blends of fibers combined with resins to keep the fibers together.

Overall Efficiency

Overall efficiency is the percentage of dust that the air cleaner with a filter removes from intake air. Donaldson air cleaners, with a Donaldson air filter, have a 99.99+% overall efficiency.

Primary Filter

The primary filter is the filter in the air cleaner that removes around 99.9+% of the air's dust. The air flows through the primary filter first.

Radial Seal

Radial Seal refers to filter sealing technology that uses the urethane end cap and the cleaner's outlet tube to create the seal. This has become the preferred method of sealing over older axial seal designs.

Restriction

Restriction represents the resistance to the flow of air through the air cleaner system. Typical units are inches of water ("H₂O) or kilopascal (kPa). Air cleaners with clean filters should have restrictions between 6-10"H₂O or 0,5 and 4 kPa

1 H₂O = 9,80665 Pa (Pascal)

1000 PA = 1 kPa (kilopascal)

100 Pa = 1mbar (millibar)

10 Pa = 1 daPa (decapascal)

Single-Stage Air Cleaner

A single-stage air cleaner is a dust removing system for intake air with a filter and no pre-cleaner.

Safety (Secondary) Filter

The safety (or secondary) filter is an optional filter that protects the engine during servicing of the primary filter and in case of a leak in the primary filter.

Two-Stage Air Cleaner

A two-stage air cleaner uses both a built-in pre-cleaner and a filter to remove dust from intake air.

What is Airflow Restriction: The resistance to the flow of air through the air cleaner system; typically measured in inches of H₂O or kPa.

What Exactly is Restriction?

Restriction across the air cleaner is the difference in static pressure between the atmosphere and the outlet side of the system being measured. *Analogy: trying to pull liquid through a straw that is kinked vs. one that is not. Obviously, the greater the kink, the harder it is to move liquid through.*

Air in an intake pipe acts much the same way. Any time the direction of the air is changed, there is a resulting pressure that increases the restriction of the system. While we can't totally avoid direction changes, they should be minimized.

Conversions:

1" H₂O = 0.0361 psi = 0.249 kPa
 1 cfm = 0.0283 M³/minute
 1" = 25.4 mm
 1 lb-ft = 1.35 N•m

Include Entire Airflow System When Calculating Initial Airflow Restriction

Any intake system design should incorporate the best protection at the lowest initial restriction possible. Because each intake component contributes to the total restriction of the system, it is recommended that the position of the air cleaner be as close to the engine as possible. It is also important to minimize the elbows, bends and long runs of ductwork.

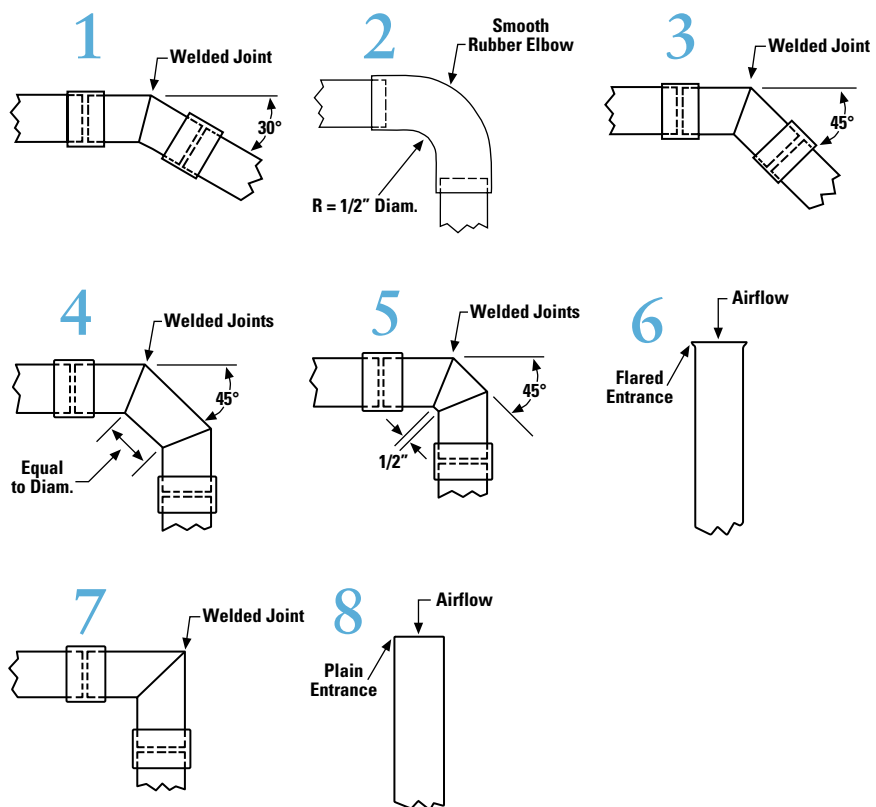
Changing the direction of the intake air movement causes restriction, which causes the engine to work harder. While this is something we like to avoid, the reality is that it cannot be avoided totally...but just how much is too much, and what can be done about it?

The Affect of Elbows & Entrance Diameters on Air Cleaner System Restriction

Generally, the smoother the direction change, such as radiused tubes versus mitered bends, the lower the restriction. A 30° bend (figure 1) adds the least amount of restriction, while the 90° bend (figure 7) adds significantly more.

Remember that even straight pipe causes restriction and pipe with a cut-off blunt end will add much more than one with a flared inlet end. The slight flare makes a major difference in air turbulence, and consequently, in restriction.

Not only bends, but length of pipe is also a factor. For further details on the amount of restriction added to the system by piping and bends, see the next page.



The Goal: Minimize the number of bends AND use bends that cause the least amount of restriction

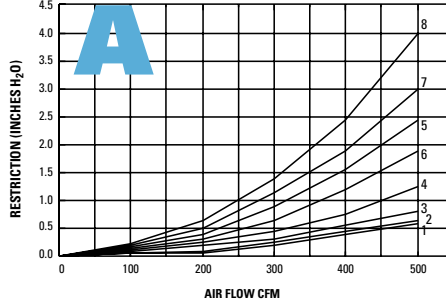
Graphs A, B, C, D and E show the amount of restriction of different piping diameters, with various types of bends (illustrations 1-8 as shown on opposite page), at various airflow levels. You will notice that the smoother the direction change, such as radiused tubes versus mitered bends, the lower the restriction. A 30° bend (shown in illustration 1) adds the least amount of restriction, while the 90° bend (shown in illustration 7) adds significantly more.

You may think it odd that straight pipe (shown in illustration 8) causes the highest amount of restriction! This is because of the blunt end. Compare the restriction curve to illustration 6, which shows a flared end. The slight flare makes a major difference in air turbulence, and consequently, in restriction.

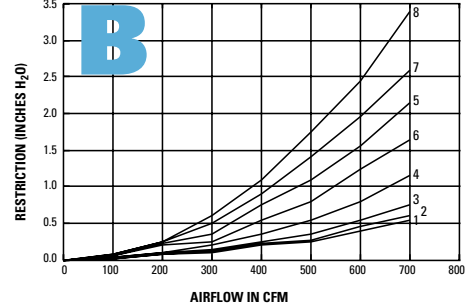
Length of pipe is also a factor, as shown in graph E. Find the line that represents your pipe diameter at the airflow level you're running to give you a restriction figure for each foot of pipe length; then multiply by the length (in feet) of your plumbing and you have the amount of restriction added by that length of pipe. (See example below graph E.)

These curves should allow you to do a quick calculation on the plumbing you are planning for your system. Add this figure to the restriction of your air cleaner (and pre-cleaner when used) to know if your system is too restrictive for the engine. Many engine manufacturers specify restriction limits for new, "clean" engine air intake systems.

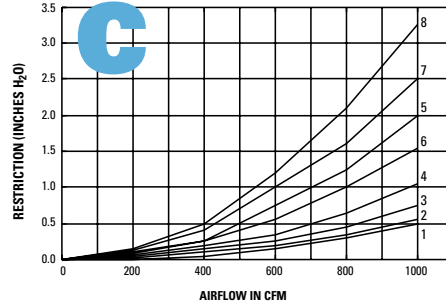
4" Diameter Piping



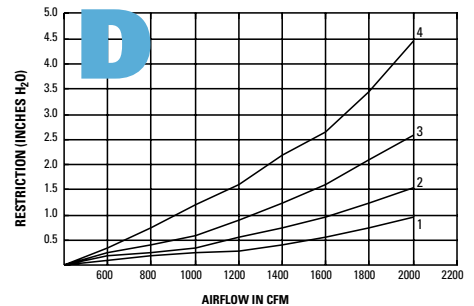
5" Diameter Piping



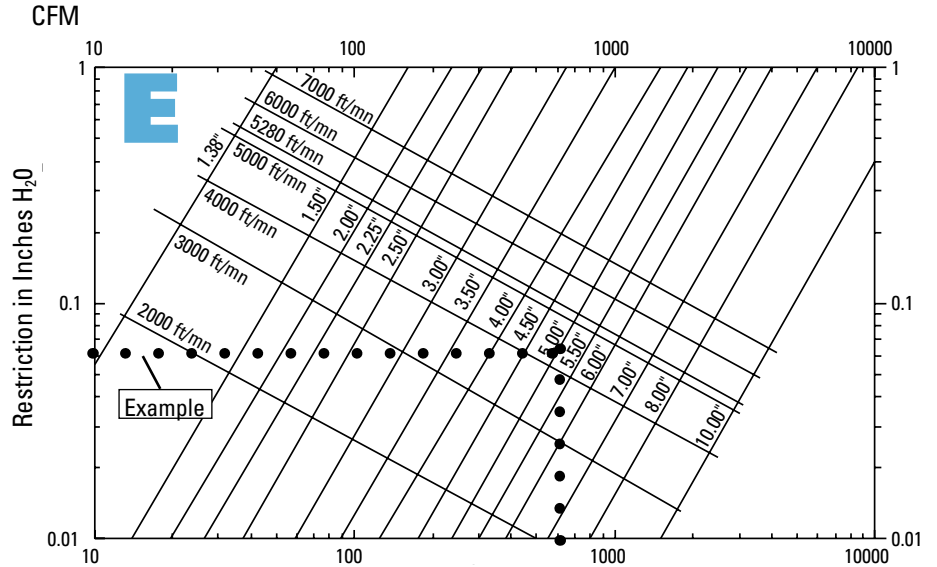
6" Diameter Piping



7" & 8" Diameter Piping



Straight Piping of Various Diameters



Example (Assuming a 600 cfm system with 5" piping)

1. At 600 cfm on horizontal axis, draw a line up to the 5" diameter line.
2. Draw a line from that intersection point over to the vertical axis to find the restriction point, in this case .06 H₂O.
3. Calculate: .06 x 10 feet of piping = .6" H₂O. This means that the 10 feet of 5" diameter piping add .6" H₂O of restriction to the engine air intake system.

General Air Cleaner Service Tips

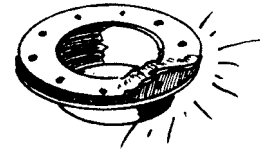
Don't remove filter for inspection.

Such a check will always do more harm than good. Ridges of dirt on the gasket sealing surface can drop on the clean filter side when the gasket is released. Stick with the regular maintenance schedule, or, if you service by restriction, believe the gauge or restriction indicator. Get a new indicator if you don't trust your current one.



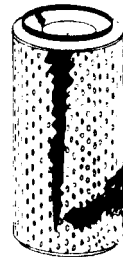
Don't ignore a worn or damaged gasket in the housing.

If your air cleaner has a cover gasket, replace it with a new one. Always check to be sure that no piece of the old gasket remains in the housing and that the gasket is not worn. If your filter model calls for a new gasket with each use, never reuse the old one.



Never rap a filter to clean it.

Rapping hard enough to knock off dust damages the filter and destroys your engine protection. Deeply embedded dirt is never released by tapping. It is always safer to keep operating until you can change to a new filter.



Don't use a damaged or bunched filter.

Never install a dented or punctured filter because it cannot protect properly against contamination. A dent can make a firm seal impossible or can indicate damaged media. A filter with bunched pleats saps engine power and fuel dollars.

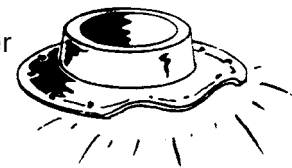
Never judge the filter's life by looking at it. Measure the airflow restriction.

A dirty-looking filter may still have plenty of life left, while carbon contamination may not be visible to the eye. You can't see the dirt that's embedded deep within the filter paper. Your best bet for lowest filter maintenance costs and best engine protection is to follow a restriction indicator. It's a smart, low-cost investment.



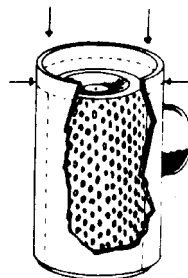
Replace missing or damaged parts.

Check to ensure that there is no damage to the air cleaner housing that could cause a leak. Replace any missing or damaged Vacuator Valves and air cleaner fasteners. Never attempt to repair a damaged filter.



Never leave an air cleaner open longer than necessary.

Your open air cleaner is a direct entry to the engine! Keep it protected during filter changes. Contaminants smaller than we can see will cause damage to a diesel engine. If the housing is not going to be reassembled immediately, cover the opening. The only way to be sure nothing got in, is to make sure nothing can get in!



Never substitute an incorrect filter model number.

Filters may look almost identical, but even a fraction of an inch difference in size can prevent a good seal or affect airflow. Selecting a filter by size may give you the wrong media and therefore affect service life and filter efficiency.

Filter Cleaning: Donaldson recommends servicing air filters by monitoring the airflow restriction levels in the intake system.

Some vehicle owners and maintenance supervisors, concerned with lowering their operating costs, will clean and reuse their heavy-duty air filters. Before you decide whether cleaning or washing of air filters is appropriate for your vehicle or fleet, please consider these factors:

- Heavy-duty air filtration manufacturers do not recommend any type of cleaning process be used on their products. Donaldson, like other heavy duty air filter manufacturers, does not warrant the air filter once it has been cleaned.
- Filter dirt holding capacity is reduced 20-40% with each cleaning.
- Rather than cleaning or reusing filters, consider upgrading to an extended service filter (i.e., Donaldson Endurance air filters) and service the filter by restriction.
- There is a risk of dirt reaching the clean side of the filter while cleaning, plus possible filter damage from high pressure water or compressed air, making cleaning or washing a gamble. Be sure to add the potential cost or risk of filter damage to the cost of cleaning when determining the value of a filter cleaning process.
- Damaged filters should not be cleaned or reused. If a filter is damaged in service, investigate the source of damage and make corrections to avoid future damage.
- Reusing a cleaned heavy duty filter increases the likelihood of improper air cleaner servicing because of the shortened service life. Each time the air intake system is serviced, it is exposed to the chance of contamination.
- Never attempt to clean a safety filter. Replace it after three primary filter services.



Want to Change Your Air Filter Less Often?

Switch to a Donaldson Endurance™ air filter for your on-road vehicle. It will go twice the distance – we guarantee it!



Donaldson® Endurance

Features & Benefits

- Increases engine protection, extends service intervals, and reduces operating costs
- Donaldson Endurance air filters use the same filtration technology as the M1 Abrams Tank - Ultra-Web® Nanofiber Filtration Technology
- Over 35 Donaldson Endurance air filter sizes are available for popular Donaldson air cleaners
- Calculate your savings over standard filters using our worksheet at www.donaldson.com/en/engine/support/datalibrary/000827.pdf

Look for the Blue Filters!
Ultra-Web® Nanofiber Filtration Technology
can be found in
**Donaldson Endurance™ Air Filters and
Donaldson PowerCore® Air Filters**

On-Road Air Filters Cross Reference

Donaldson Standard	Primary Application	Donaldson Endurance
P129396	Ford FA560, CAT 2N1990	EAF5024
P129472	Donaldson EBA09 A/C	EAF5025
P141228	Donaldson EBA13 A/C	EAF5026
P141317	Navistar	EAF5097
P142100	Donaldson EBA13 A/C	EAF5027
P150694	Donaldson ECG11 A/C	EAF5029
P150695	Donaldson ECG11 A/C	EAF5047
P151028	Fram CA2550	EAF5048
P153551	Donaldson ECG11 A/C	EAF5053
P155842	Donaldson ECG11 A/C	EAF5055
P181007	Donaldson EBA13 A/C	EAF5007
P181008	Donaldson EBA15 A/C	EAF5008
P181014	Donaldson EBA13 A/C	EAF5014
P181015	Donaldson EBB14 OR EBG14	EAF5015
P181016	Donaldson EBA13	EAF5016
P181027	Donaldson EBA11	EAF5194
P181028	Donaldson EBB12 OR EBG12 A/C	EAF5028
P181056	Donaldson EBB14 A/C	EAF5056
P181095	Donaldson EBB16 A/C	EAF5095
P181096	Donaldson EBB15 A/C	EAF5096
P181099	Donaldson EBB16 A/C	EAF5099
P181186	Vortex VF160R	EAF5102
P181187	Ford E3TZ9601C	EAF5187
P181188	IHC 588213C1	EAF5188
P181189	Ford E2HZ9601B	EAF5189
P522293	Donaldson EBA11 A/C	EAF5061
P522874	MCI Bus 9G-3-37	EAF5065
P526678	Freightliner	EAF5066
P527484	GM 15619013, Ford F3HZ9601A	EAF5067
P527682	Donaldson EPG15" A/C, Freightliner Navistar 3560734C1	EAF5069
P533235	Navistar 2005895C1	EAF5104
P533930	Kenworth T2000 through 10/1998	EAF5109
P534096	Freightliner FLB, Peterbilt 385	EAF5106
P534816	Kenworth, Peterbilt, DCI ERA13"	EAF5100
P534925	Kenworth, Peterbilt, DCI ERA15"	EAF5101
P540388	Volvo 8076195	EAF5098
P549644	Kenworth T2000 11/1998 on, Peterbilt 2100	EAF5107
P600676	Mack 57MD46M, 57MD48M, 81SF28	EAF5108
P771003	Mack, RVI	EAF5074

Off-Road Air Filters Cross Reference

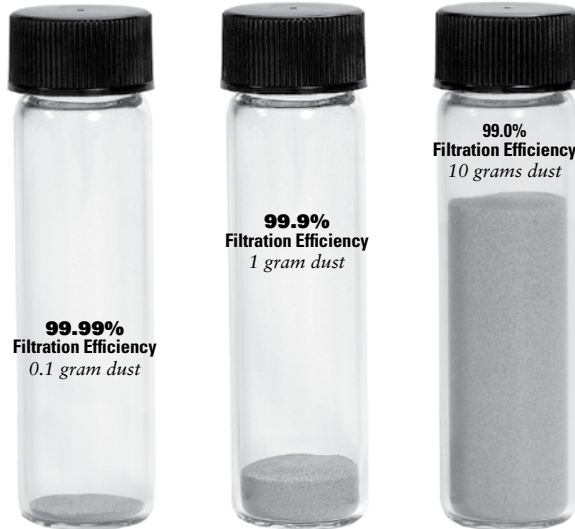
Donaldson Standard	Primary Application	Donaldson Endurance
P181000	Donaldson FWA14, FWG14 A/C	EAF5000
P181001	Donaldson FWA16, FWG16 A/C	EAF5001
P181002	Donaldson FHG16 A/C	EAF5002
P181034	Donaldson FHG12 A/C	EAF5034
P181035	Donaldson FWA12, FWG12 A/C	EAF5035
P181038	Donaldson SRG20, SRG29 A/C	EAF5038
P181039	Donaldson STG16 A/C	EAF5039
P181040	Donaldson SRG20, SRG29 A/C	EAF5040
P181041	Donaldson STG14 A/C	EAF5041
P181042	Donaldson STG16 A/C	EAF5042
P181043	Donaldson FVG14 A/C	EAF5043
P181044	Donaldson STG12 A/C	EAF5044
P181046	Donaldson FHG14 A/C	EAF5046
P181057	Donaldson FWD16 OR FVG16 A/C	EAF5057
P181049	Donaldson FVG16 A/C	EAF5049
P532966	Donaldson FRG11" A/C	EAF5105
P608306	Donaldson SSG A/C	EAF5152
P609519	Donaldson SSG A/C	EAF5153

Ref: Shoptalk Card F115202 & BrochureF111010

Take a Look at Air Filtration Efficiency and Dust Holding Capacity

Compare for yourself – see how much dust can pass through your air filter during 500 hours of operation.

<p>Donaldson Endurance Air Filters Ultra-Web® Filter Media</p>	<p>Donaldson Air Filters Standard Filter Media</p>	<p>Will-fit Air Filters Standard Filter Media</p>
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You Can See the Difference!

These dust vials show the actual amount of Arizona fine test dust that passes through the air filter media for every 1 kilogram of dust fed to the air filter, which is equivalent to 500 hours* of equipment operation.

Will-fit filters can allow up to 100 times more dirt to pass through the filter into the engine than Donaldson Endurance™ air filters with Ultra-Web® filter media.

* Estimate based upon typical medium dust operating conditions with 92% pre-cleaner efficiency. Actual results may vary.

Donaldson Ultra-Web® nanofiber filtration technology delivers cost saving benefits:

- Superior filtration
- Long filter life with submicron contaminant
- Highest efficiency
- Ideal for extended maintenance intervals
- Longer engine life

Don't leave engine protection to chance!

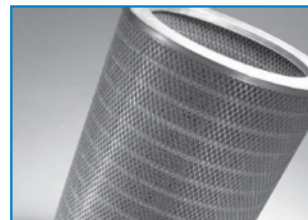
Use Donaldson Endurance™ air filters with the blue Ultra-Web® nanofiber media for maximum filtration efficiency and superior dust holding capacity.

All Nanofibers are Not Created Equal

Since Donaldson Torit first introduced Ultra-Web® nanofiber cartridge filters to industrial manufacturers 25 years ago, the technology has been continually advanced and perfected in the field to perform in all ambient conditions.

In 1993 Ultra-Web nanofiber technology was introduced into engine air filters.

ULTRA-WEB® High Efficiency Nanofiber Filters Built to Last



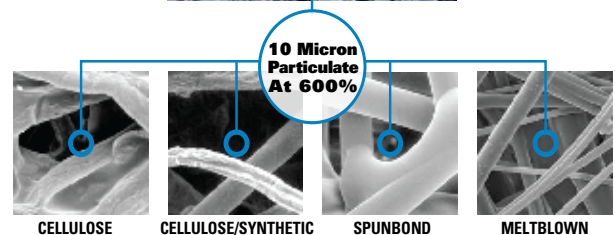
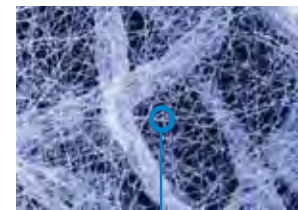
Ultra-Web nanofiber filtration technology strikes just the right balance between the strength of the fiber density of the web and the level of filtration. Ultra-Web

nanofibers produce a very fine, continuous fiber that form a permanent web-like net that traps dust on the surface of the filter media.

Longer Filter Life

Ultra-Web technology is proven and perfected to last at least two times longer than conventional filters. What's the secret? Ultra-Web technology keeps particulate on the surface of the media. Filtration scientists attribute surface loading of dust with lower operating pressure drop over a much longer period of time.

Ultra-Web Nanofiber Technology
www.ultrawebisalwaysbetter.com



Filter Efficiency: Donaldson air filters in Donaldson air cleaner housings have a 99.95+% minimum overall efficiency.

GENERAL INFORMATION

Occasionally questions arise about the micron ratings and test procedures on air cleaners and replacement air filters. Typically, air cleaners and air filters are not assigned a "micron rating". Micron rating is a term used in liquid filtration. Air filters are evaluated for life and efficiency using an industry-wide standard (ISO 5011). The following should clarify the questions surrounding this issue.

Filter life is measured in total grams fed or in hours of lab life and is determined by testing at a standard test dust concentration of 1 g/m³ (0.028 g/ft³) for single stage air cleaners or 2 g/m³ (0.056 g/ft³) for multistage units at either a constant or variable airflow. The end of the life testing is determined using the restriction method. When the predetermined restriction service point is reached, the test is stopped and the filter is weighed. The amount of test dust held by the filter is considered the capacity or life of the filter. The life of an air cleaner requires some additional consideration. Many air cleaners have inertial separators included in the housing. These inertial separators remove up to 98% of the dust that is fed during one of these tests. Therefore, the inertial separator efficiency must also be evaluated.

Filter efficiency is calculated by determining the increase in weight of an absolute filter (an absolute filter captures any dust that passes the test filter) located downstream of the test filter vs. the weight of the total dust fed.

Table 1 details the particle size distribution of the standard test dust used for life and efficiency evaluations (ref. ISO 12103-1).

Table 2 lists common contaminants found in field environments, as well as their particle size ranges. Although field conditions vary from one location to the next and from time to time, this test allows for a standard means of comparison and a laboratory method of evaluating air cleaner life and efficiency.

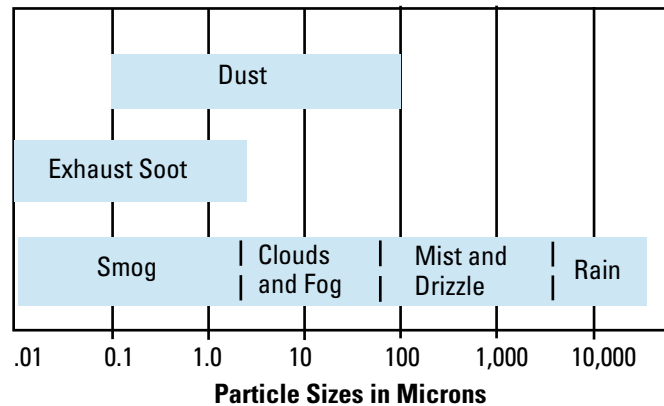
Table 1 - Particle Size Distribution by Weight %

Fine test dust is used for testing primary dry air cleaners, which are most often used in on-road and automotive applications, and coarse dust is used for multistage air cleaners that typically use inertial

Particle Size Range (in microns)	Weight %*	
	Fine (on-road)	Coarse (off-road)
0 - 5 μ	39 %	12 %
5 - 10 μ	18 %	12 %
10 - 20 μ	16 %	14 %
20 - 40 μ	18 %	23 %
40 - 80 μ	9 %	30 %
80 - 200 μ	0%	9 %

* Percentage of weight can vary by ±2-3 % in each particle range

Table 2 - Common Contaminants and Micron Sizes



Reference: FMC TSB 04-03

How Much Contaminant Can a Donaldson Air Filter Hold?

The amount of contaminant an air filter can hold before servicing depends on...

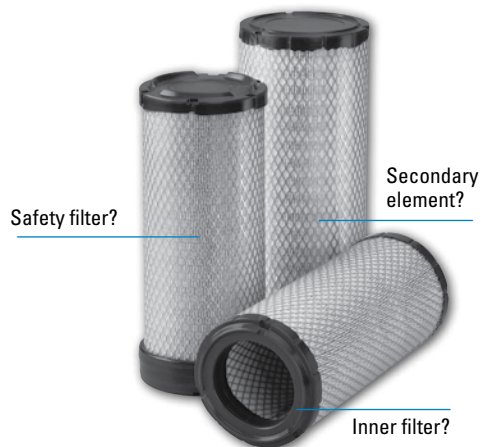
- air cleaner size and type
- engine size and airflow
- time of year
- filter media
- operating conditions
- type of equipment
- type / amount of contaminant

It's easy to see why Donaldson recommends that you service your air cleaner based on airflow restriction measurements. Weigh your air filter the next time you change it based on restriction readings, and compare how close we are to predicting filter contaminant holding capacity.

Typical Contaminant Holding Capacity and Life Range by Application

Application	Air Cleaner Type/Size	-----Contaminant Capacity-----	
		Air Cleaner	Filter
On Highway Truck	E Series / 13" (330 mm) dia.	8 lbs. / 3.6 kg	8 lbs. / 3.6 kg
Agricultural Equipment	F Series / 8" (203 mm) dia.	14.5 lbs. / 6.6 kg	2.5 lbs. / 1.1 kg
Construction Equipment	F Series / 16" (406 mm) dia.	55 lbs. / 25 kg	8 lbs. / 3.6 kg
	S Series / 16" (406 mm) dia.	148 lbs. / 67 kg	7.5 lbs. / 3.4 kg
Mining Haul Trucks	S Series / 29" (737 mm) dia.	770 lbs. / 349 kg	38 lbs. / 17.2 kg

What is the Purpose of a Safety Filter?



Safety filter...Secondary element...Inner filter...
Spare filter? These filters go by many names...

Compared to a primary filter, the safety filter is more open for lower restriction and is less efficient. A safety filter does not increase the overall operating efficiency of an air cleaner.

A safety filter is there to protect the engine against hidden damage to a primary filter – damage from cleaning, mis-installation, a “will-fit” that doesn’t quite fit, or the installation of the wrong size filter. A safety filter is never to be used as a “spare” filter.

At Donaldson we prefer to call it a “safety” filter

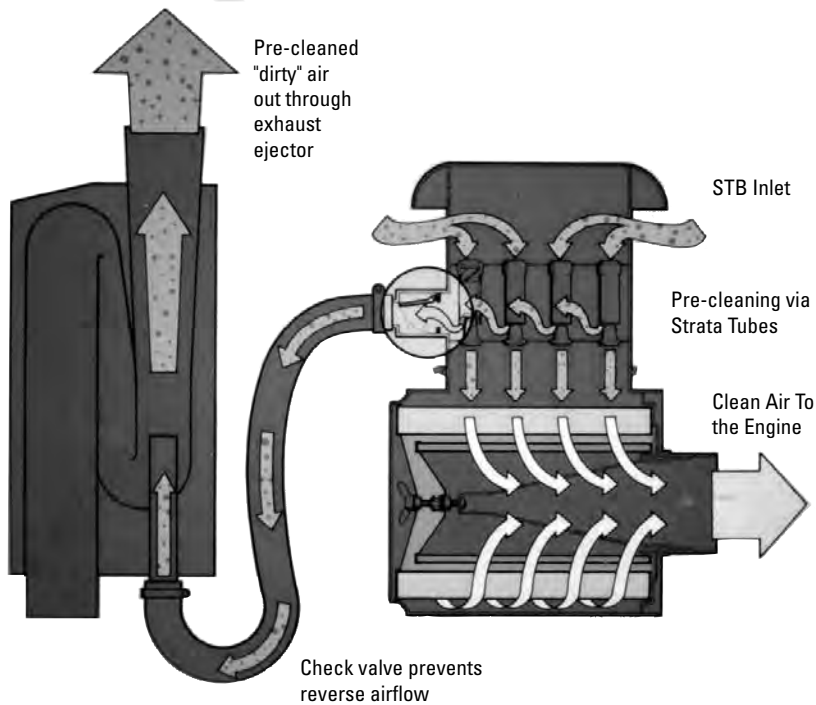
A safety filter backs up the primary (main) filter and protects the engine while the primary filter is out of the housing during service. The engine should never be run with only a safety filter in place.

The safety is NOT a spare filter! Its purpose is to protect the engine if something goes wrong with the primary (main) filter. Until then, it quietly does its job.



Installation Guidelines for STB Strata™ System

How the Strata™ System Works



STB Model	Scavenge Outlet OD	Hose Part No	Hose ID
B160071	2.0"	P171381	2.0"

Connecting Scavenge Hose to Pre-cleaner

A check valve is built into the Strata Pre-cleaner. Connect the scavenge hose directly to the outlet tube with a clamp. A Donaldson lined hose clamp is recommended (see Intake Accessories section).

Connecting Hose to Ejector

When connecting the scavenge hose to the exhaust ejector, leave 2" (52 mm) between the end of the hose and the body of the ejector.

Exhaust Ejector

Donaldson offers three ejectors styles that are compatible with Strata systems – see the Intake Accessories section for choices.

Positioning the Strata™ Pre-Cleaner

- It is usually best to have the pre-cleaner positioned above the hood of the vehicle so that cleaner air (above the dust cloud) can be drawn into the unit.
- The pre-cleaner section should be below the exhaust stack. Be careful NOT to mount the Strata™ pre-cleaning section in such a way that it draws in exhaust gases from the exhaust stack.

If the pre-cleaner cannot be positioned according to the above guidelines, consider adding an extension to put the intake point at a higher level.

- The extension should be added above the Strata tube section, below the inlet hood.
- Do NOT mount the Strata pre-cleaner on top of the extension as its weight would make the arrangement top heavy and unstable.

Scavenge Hose

Scavenge line between the air cleaner and the exhaust ejector should be kept as short and as straight as possible. The ideal scavenge hose length for a Strata system is under 5 feet and should never be longer than 10 feet.

Minimize bends and be sure that hose is supported properly. (Unsupported lengths of hose should not exceed 5 feet.) Bend radii of the hose should not be less than 15 inches. Minimize the number of 90° bends – preferably two or less.

Donaldson recommends three-ply silicone hose for the scavenge line. All Donaldson hose is supplied in 3-foot lengths (do not use flexible metal nor rigid tubing).

Do not add or create any additional back pressure downstream (ie: at the exhaust outlet) of the Strata pre-cleaner. Doing so may cause exhaust backflow to the pre-cleaner. (Examples of what NOT to do: mount a spark arrestor on top of the ejector, or operate with a stuck or frozen rain cap on the exhaust ejector.)

For ejector stacks and other system accessories, refer to Donaldson's Exhaust Catalog or contact your nearest Donaldson distribution outlet.

Note: Scavenge Hose, Exhaust Ejectors, Clamps Sold Separately

If the airflow information is not available from the engine manufacturer, the calculations on page 11 may be helpful as you validate and specify housings and components.



For assistance in calculating engine airflow, please contact Donaldson customer service.

Engine Air Consumption Guide



The data on engines in this section is to be used as a reference only. If specing a new air cleaner for an engine, Donaldson recommends that you acquire this information from the engine manufacturer. If you can not acquire the information from the engine manufacturer, we recommend that you calculate the airflow based on instructions shown on page 11.

For the most accurate engine airflow specifications, Donaldson recommends using the CFM intake airflow rate specified by the engine manufacturer.

Allis Chalmers	Mack
Case	Mercedes-Benz
Caterpillar	Mitsubishi
Continental Motors	MTU of North America
Cummins	Navistar
	Nissan
Detroit Diesel	
Deutz	Perkins
Ford	Renault
Hatz Diesel	Same
Hino	Teledyne
Isuzu	
Iveco	Volkswagon
	Volvo
John Deere	
	Waukesha
Kohler	White Eng
Kubota	
	Yanmar
Lister	
Lombardini	

Engine Model	RPM	HP	-- Exhaust --	
			Intake Temp. (°F)	Flow (CFM)
ALLIS CHALMERS				
10000.....	2200	145	265	
11000.....	2200	220	560	
16000.....	2100	250	420	
17000 MKII ...	2100	300	780	
2000.....	2100	59	97	
21000 MKII ...	2100	375	875	
213.....	3600	32	75	
2200.....	2100	55	97	
25000 MKII ...	2100	450	1050	
2800.....	2600	85	200	
2900.....	2600	135	340	
320.....	3600	53	114	
3400.....	2400	125	240	
3500.....	2400	175	380	
3700.....	2400	200	400	
426.....	3600	72	150	
433I.....	2400	100	247	
433T.....	2400	90	242	
6000.....	2200	104	218	
61000.....	2100	800	2300	
6138I.....	2100	450	1060	
6138LT.....	2100	325	790	
6138T.....	2100	375	875	
649I.....	2600	155	430	
649T.....	2600	135	390	
65000.....	2100	900	2400	
670I.....	2400	200	490	
670T.....	2400	175	460	
685I.....	2200	266	680	
685T.....	2200	220	555	
7000.....	2200	160	300	
D175.....	2200	52	85	
D262.....	2200	78	128	
D344.....	1800	88	143	

CASE					
301BD.....	2200	94	153	1000	414
336BD.....	2200	104	171	1000	462
336BDT.....	2200	126	267	850	648
451BD.....	2200	142	360	1000	973
451BDT.....	2200	181	380	900	957
504BD.....	2200	155	275	950	718
504BDT.....	2200	221	440	900	1108
504BDTI.....	2200	256	600	950	1567
A267D.....	2000	73	123	1000	333
A284.....	2000		136	1000	368
A377.....	1800		139	1000	376
A451D.....	2000	145	200	1000	541
G188.....	2000	49	82	1000	222
G188D.....	2250	62	138	1000	373

CATERPILLAR					
1160.....	2800	225	410	1050	1146
1673T.....	2200	250	600	950	1567
1674TA.....	2200	270	690	900	1738
1693TA.....	2100		1080	900	2720
3116.....	2600	200	618	856	1511
	2600	250	713	867	1755
	2450	275	685	929	1773
	2600	300	745	984	2006

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
3126B.....	2200	175	1239	660	2640
	2300	190	1355	716	3017
	2200	210	1327	741	3031
	2200	230	593	808	1471
	2200	250	635	821	1595
	2200	275	649	867	1683
	2200	300	660	916	1778
	2400	330	709	931	1937
3140.....	2800		410	1000	1109
3145.....	2800		410	1050	1146
3150.....	2800		410	1000	1109
3160.....	2800		410	1080	1169
3176.....	1800	275	692	676	1458
	1800	300	738	693	1579
	1800	350	802	760	1819
	1800	365	805	808	1900
3204NA.....	2400	66	193	980	515
3208ATAC.....	up to 300		950		
3208N.....	2200	165	325	1076	930
3208NA.....	2800	210	410	1000	1109
3208T.....	2800	250	646	900	1627
	2200	215	591	855	1443
3208T-DIATAAC					
	2600	275	752	854	1837
	2800	300	871	874	2162
3208T-DIT.....	2600	250	649	976	1740
3304B.....	up to 165		950		
3304NA.....	2200	102	206	1050	576
3304T.....	2200	165	264	900	665
3306.....	1900	300	745	1019	2059
3306B.....	1800	285	745	825	1781
	1800	300	777	843	1887
3306NA.....	2200	150	325	950	849
3306T.....	2200	250	600	900	1511
	up to 300		850		
3306TA.....	2200	270	624	950	1629
3406.....	1900	425	1109	880	2758
3406B.....	1800	300	930	655	1917
	1800	330	986	705	2125
	1800	350	1016	739	2255
	1800	400	1052	753	2364
	1800	425	1077	806	2532
	1900	460	1108	847	2694
3406E.....	1800	355	967	762	2301
	1800	375	1023	899	2717
	1800	435	1066	901	2872
	1800	455	1083	919	2925
	1800	475	1105	937	3017
	1800	500	1119	954	3098
	1800	575	1164	959	3236
	1800	600	1164	959	3236
3406T.....	2100	339	910	900	2292
3406TA.....	2100	375	1000	900	2519
3408T.....	2100	425	980	900	2468
3408TA.....	2100	475	1220	900	3073
3412T.....	2100	650	1719	870	4234
3412TA.....	2100	750	2426	900	6420
3508.....	1800	1000	2490	900	6271
3512.....	1800	1500	3695	900	9306
3516.....	1800	2000	4830	900	12164
3606.....	1000	2475	5850	850	14192
3608.....	1000	3330	7235	800	16882
3612.....	1000	4950	11700	800	27300
3616.....	1000	6655	14470	800	33763
5.4-6.....	2000	437	1041	950	2718
5.4-8.....	1900	614	1477	950	3857

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
5.4V12.....	1900	896	1936	900	4876
5.75-6.....	1330	317	780	950	2037
6.25-6.....	1375	440	1111	950	2901
C-10.....	1800	305	755	821	1888
	1800	335	766	918	2078
	1800	350	752	892	1997
	1800	370	766	918	2078
C-12.....	1800	335	805	876	2110
	1800	355	815	859	2121
	1800	380	826	898	2202
	1800	395	833	924	2265
	1800	410	836	937	2287
	1800	425	815	922	2220
	1800	430	826	948	2276
	1800	455	819	953	2269
C-15.....	1800	355	963	762	2294
	1800	375	1023	899	2714
	1800	435	1066	902	2830
	1800	455	1083	919	2925
	1800	475	1105	937	3017
	1800	500	1119	954	3098
C-16.....	1800	575	1154	941	3165
	1800	600	1164	959	3236
D330NA.....	2200	100	227	1050	635
D330T.....	2200	165	418	950	1091
D333NA.....	2200	150	349	1000	944
D333T.....	2200	250	613	900	1544
D334TA.....	2200	280	689	950	1799
D336TA.....	2200	350	895	950	2337
D342NA.....	1300	200	418	1050	1169
D342T.....	1300	300	887	950	2316
D343T.....	2000	315	786	950	2052
D343TA.....	2000	425	996	900	2508
D346TA.....	2000	565	1350	900	3400
D348TA.....	2000	850	2048	900	5158
D349TA.....	2000	1130	2827	900	7120
D353TA.....	1300	490	1091	900	2748
D379TA.....	1300	650	1501	900	3780
D398TA.....	1300	975	2323	900	5851
D399T.....	1300	1300	3009	900	7578

CONTINENTAL MOTORS					
E201.....	2400		104	1100	300
F124.....	2400		65	1100	188
F135.....	2000	40	58	1100	168
F140.....	2400		84	1100	243
F162.....	2400	60	84	1100	243
F186.....	2400		101	1100	292
F209.....	2400		109	1100	315
F226.....	2400		115	1100	332
F227.....	2400	78	116	1100	335
F244.....	2400		126	1100	364
F245.....	2400	88	127	1100	367
G134.....	2000		58	1100	168
G157.....	2000		68	1100	196
H227.....	2000		96	1100	277
H243.....	2000		104	1100	300
H260.....	2000		112	1100	324
J382.....	2000		160	1100	462
L478.....	2400	162	265	1100	766
M271.....	2400		141	1100	407
M290.....	2400		151	1100	436
M330.....	2400		172	1100	497
M363.....	2400	122	201	1100	581
N56.....	2200		27	1100	70
N62.....	2400		31	1100	90

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
CONTINENTAL MOTORS CONTINUED					
R513	2400		267	1100	771
R572	2400		298	1100	861
R602	2400	191	313	1100	904
S749	2200		358	1100	1034
S802	2200		392	1100	1132
S820	2400	250	455	1100	1314
T&B371	2400		193	1100	558
T&B427	2400	133	241	1100	696
U501	2400		260	1100	751
V603	2800		313	1100	904
Y112	2400	37	58	1100	168
Y69	2400		37	1100	107
Y91	2400	27	91	1100	263

CUMMINS					
Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
3B2.9	2500	56	115	1000	311
4B3.9	2500	76	150	1050	419
4BT	2500	105	289	890	750
4BT	2500	120	336	970	922
4BT3.9	2500	100	253	1000	684
4BT3.9-G1	1800	86	147	850	357
4BT3.9-G2	1800	102	157	850	381
4BTA3.9	2500	120	298	900	751
6B5.9	2500	116	226	1000	611
6BT	2500	190	590	780	1290
	2500	230	535	1031	1531
	2300	230	520	910	1380
6BT5.9	2500	152	381	900	960
6BT5.9-G1	1800	135	224	900	564
6BT5.9-G2	1800	166	285	900	718
6BTA5.9	2500	180	449	900	1131
6C8.3	2500		316	1000	854
6CT	2300	250	570	930	1740
	2200	300	742	1000	2140
	2000	275	590	985	1665
6CT8.3	2500		555	900	1398
6CTA8.3	2500	250	632	900	1592
C-160	2500	153	300	900	756
C-180	2500	173	350	900	881
C-190	2500	190	495	900	1247
FLEET 270	1600	270	710	900	1788
FLEET 300	1600	300	765	900	1927
	1600	300	710	900	1788
Formula 240	1800	240	630	900	1587
	1800	240	618	900	1556
Formula 270	1800	270	720	900	1813
Formula 300	1800	300	761	900	1917
	1800	300	745	900	1876
	1800	300	744	900	1874
Formula 315	1800	315	735	900	1851
Formula 350	1800	350	821	900	2068
	1800	350	800	900	2015
	1800	350	857	900	2158
Formula 400	1900	400	1060	900	2670
	1900	400	930	950	2428
	1900	400	986	900	2483
Formula 450	1900	450	1110	950	2898
Formula L10-240					
	1900	240	522	900	1315
	1900	240	580	900	1461
	1900	240	585	900	1473

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
Formula L10-270					
	1900	270	556	900	1400
	1900	270	618	900	1556
	1900	270	606	900	1526
Formula L10-300					
	1900	300	609	900	1534
GNH-220-IP	1800	177	250	900	630
GNH-250-IP	1800	204	265	900	667
GV-12-525-IP	1800	408	580	900	1461
ISB	2500	185	578	698	1257
	2600	190	526	801	1250
	2500	205	508	831	1246
	2600	210	526	857	1313
	2500	225	510	892	1311
	2500	240	610	812	1456
	2500	245	610	812	1456
	2600	260	622	886	1592
	2500	275	620	956	1673
ISC	2400	225	708	706	1417
	2400	240	721	746	1485
	2400	260	743	765	1578
	2200	285	682	833	1531
	2200	300	688	860	1578
	2200	315	682	919	1686
	2200	330	693	927	1758
	2200	350	706	966	1841
ISL	2100	310	689	891	1682
	2100	330	708	933	1740
ISM	2100	280	777	670	1523
	1800	310	734	721	1528
	1800	330	773	742	1610
	2100	350	888	720	1778
	2100	370	918	737	1853
	2100	400	918	737	1853
	2100	425	855	969	2171
	2100	450	974	789	2030
	2100	500	940	965	2341
ISX	1800	400	1063	655	2036
	1800	450	1129	696	2218
	2000	475	1126	842	2504
	2000	500	1125	905	2633
	2000	600	1227	975	3202
KT-1150-C	2100	450	1130	900	2846
KT-2300-C	2100	900	2400	880	5956
KT-450	2100	450	1130	850	2741
KTA-1150-C	2100	600	1400	900	3526
	2100	525	1410	880	3499
KTA-2300-C	2100	1200	2900	900	7304
	2100	1050	2700	900	6800
KTA-3067-C	2100	1600	3760	900	9470
	2100	1350	3455	900	8701
KTA-525	2100	525	1425	850	3457
KTA-525-FORM					
	1900	525	1200	850	2911
KTA-600	2100	600	1400	850	3396
KTTA-19-C		650		900	
KTTA-38-C		1350		900	
KTTA-50-C		2000		900	
L10	1700	260	615	745	1300
	1700	280	640	760	1407
	1600	310	638	825	1470
	2100	270	670	900	1687
	2100	300	659	900	1660

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
M11	1600	280	615	817	1476
	1600	310	670	813	1390
	1600	350	760	822	1554
	1600	370	770	828	1641
	1600	400	840	832	1801
N-855-C	2100	220	460	850	1116
	2100	235	460	850	1116
N-927	1950	240	465	880	1154
	2100	260	495	880	1228
	2100	240	495	880	1228
N14	1800	330	1014	657	1997
	1800	400	1126	723	2354
	2100	350	1212	606	2254
	2100	370	1283	651	2474
	2100	460	1329	737	2737
	2100	500	1380	802	2984
	2100	525	1380	802	2984
	2100	410	1164	670	2614
	2100	435	1302	714	2639
	2100	550	1380	802	2984
	2100	525	1380	802	2984
NH-220	2100	212	470	900	1184
NH-230	2100	220	460	900	1159
NH-230S	1800	186	460	900	1159
NH-250-M	2100	240	460	950	1201
	1800	190	395	1050	1105
	1800	200	395	900	995
	2100	210	460	900	1159
NHC-250	2100	240	460	900	1159
	2300	240	710	900	1788
NHC-250-D	2100	240	460	900	1159
NHD-230	2100	220	495	900	1247
NHF-240	2300	230	505	900	1272
NHF-265	2300	255	505	900	1272
NHH-250	2100	240	460	900	1159
NHHTC-335	2100	335	850	850	2062
NHTF-295	2300	295	710	900	1788
NT-335-M	1800	235	625	950	1632
	1800	265	650	900	1637
	2100	285	775	950	2024
	2100	335	800	950	2089
NT-380-M	2300	380	950	950	2481
	2000	253	700	1000	1893
	2000	300	750	900	1889
	2300	320	900	980	2400
NT-855-C	2100	310	895	880	2221
	2100	280	860	850	2086
	2100	250	825	850	2001
	2100	335	920	900	2317
	2100	335	900	900	2267
	2100	280	820	900	2065
	2100	250	680	880	1687
	2100	310	835	900	2103
NTA-370	1950	335	810	850	1965
	2100	370	950	850	2305
NTA-400	2100	400	1000	850	2426
NTA-420	2300	420	1080	900	2720
NTA-855-C	2100	400	1000	880	2481
	2100	360	960	880	2382
	2100	360	980	900	2468
	2100	400	1050	900	2644
NTC-270-CT	2100	240	740	850	1795
	2100	225	760	900	1914
	2100	270	825	900	2078

Engine Model	RPM	HP	-- Exhaust --		
			Intake Temp. (°F)	Flow (CFM)	
CUMMINS CONTINUED					
NTC-290	2100	270	665	950	1736
	2100	290	685	900	1725
	1950	255	580	920	1482
NTC-300	2100	300	936	900	2357
NTC-335	2100	280	780	880	1936
	2100	300	805	880	1998
	2100	335	850	900	2141
NTC-350	2100	320	830	900	2090
	2100	350	885	900	2229
	2100	335	865	880	2146
	2100	320	845	880	2097
	1950	310	760	850	1844
NTC-400	2100	350	986	900	2483
	2100	350	930	900	2342
	2100	400	1165	950	3042
NTCC-300	2100	400	1030	900	2594
	2100	300	868	900	2186
NTCC-350	2100	350	1000	900	2519
NTCC-400	2100	400	1090	900	2745
NTF-295	2300	295	710	850	1722
NTF-365	2300	365	960	920	2453
P.TORQ 240	2100	240	618	900	1556
P.TORQ 270	2100	240	735	900	1851
	2100	270	840	900	2116
P.TORQ 315	2100	315	890	950	2324
P.TORQ L10-240	2100	240	645	900	1624
	2100	240	577	900	1453
	2100	240	647	900	1629
P.TORQ L10-270	2100	270	630	900	1587
	2000	500	1072	959	2638
Signature	2000	565	1117	986	2777
	2000	600	1164	1013	2936
SUPER 250	2100	240	495	900	1247
V-12-500-M	2100	480	840	900	2116
	1800	370	720	950	1880
	1800	400	720	900	1813
	2100	425	840	950	2193
	3000	145	277	900	698
V-378-C	3000	195	357	900	899
V-504-C	3300	202	425	950	1110
	2500	158	322	900	811
V-504-M	3300	197	386	900	972
	3300	216	470	880	1166
V-555	3000	215	430	850	1043
V-555-C	3300	202	470	900	1184
V-903	2600	307	610	900	1536
	2600	255	610	900	1536
	2600	269	610	900	1536
	2600	288	610	880	1514
	2600	295	610	880	1514
V-903-C	2600	265	610	850	1480
	2600	307	610	950	1593
V-903-M	2300	250	545	900	1373
	2500	302	585	900	1473
V-9035	2200	250	520	880	1290
V5-120-635-M	1800	435	1060	900	2670
	2100	540	1380	900	3476
V6-155	3300	149	318	950	830
V8-185-E	3300	178	425	950	1110
V8-210	3300	202	425	950	1110

Engine Model	RPM	HP	-- Exhaust --		
			Intake Temp. (°F)	Flow (CFM)	
V8-300	3000	288	580	970	1536
V8-300-M	3000	288	585	950	1528
	2600	220	505	900	1272
	2800	260	545	950	1423
VT-12-635-M	2100	635	1460	950	3812
	1800	490	1100	900	2770
VT-12-700-M	2100	700	1600	980	4267
	1800	480	1130	900	2846
	1800	545	1190	900	2997
VT-12-800-M	2100	595	1500	950	3917
	2100	800	1820	950	4752
	1800	550	1325	900	3337
VT-1710-C	1800	620	1400	900	3526
	2100	680	1700	950	4439
	2100	635	1700	900	4281
VT-555	3000	220	625	900	1574
VT-555-C	3000	230	585	850	1419
VT-903	2600	307	850	900	2141
		350	1050	900	2644
VT-903-C	2600	320	930	900	2342
	2600	350	920	900	2317
VT8-370-M	2600	320	905	900	2279
	3000	370	930	950	2428
VTA-1710-C	2600	270	760	900	1914
	2800	320	865	950	2259
	2100	700	1880	950	4909
VTR-28-C	2100	800	2100	980	5600
		900		900	
DETROIT DIESEL					
12V-149	1900	800	2800	850	6793
12V-149T	1900	1000	3600	850	8733
12V-149TI	1900	1200	4300	850	10431
12V-71	1800	350	1128	850	2736
	2300	471	1430	850	3469
	2100	456	1309	850	3176
12V-71T	2100	525	1800	850	4367
	1800		1650	850	4003
16V-149	1900	1060	3600	850	8733
16V-149T	1900	1325	4800	850	11644
16V-149TI	1900	1600	5500	850	13343
16V-71	2100	608	1748	850	4241
	1800	466	1506	850	3653
16V-71T	1800		2240	850	5434
16V-92	2100	700	2300	850	5580
	1800	600	1960	850	4755
16V-92T	2100	720	2300	850	5580
	1800		2600	850	6307
2-53	1800		130	850	315
	1200		91	850	221
2-71	200		142	850	344
	200	65	223	850	541
3-53/2-VAL	1800	48	200	850	485
	1200		131	850	318
3-53T	2200	75	242	850	587
	1800	59	202	850	490
	2200		253	850	614
3-71	2800	98	319	850	774
	2500	125	500	850	1213
3-71	2500	125	500	850	1213
	1800	82	319	850	774
3-71	2100	109	375	850	910
	1200		207	850	502

Engine Model	RPM	HP	-- Exhaust --		
			Intake Temp. (°F)	Flow (CFM)	
4-35T	2500	170	596	850	1446
4-53/2-VAL	2200	103	340	850	825
	1000		282	850	684
	2200		356	850	864
	2800	136	450	850	1092
	2500	170	596	850	1446
4-53T	1200		275	850	667
	2300	159	550	850	1334
	1800	117	425	850	1031
6-71	2100	152	500	850	1213
	2300	236	825	850	2001
	1800	175	637	850	1545
6-71T	2100	228	750	850	1819
	1200		413	850	1002
6-71T	2100	275	1045	850	2535
6-71TT	1950	230	930	850	2256
6-V-71	2300	236	715	850	1735
	1800	175	564	850	1368
6V-53	2100	228	655	850	1589
	2200		534	850	1295
6V-53T	2800	210	675	850	1638
	2600		627	850	1521
6V-53T	2500	230	855	850	2074
6V-92	1800	225	730	850	1771
	2100	270	860	850	2086
6V-92T	1800		1000	850	2426
	2100	322	1200	850	2911
6V-92TA	2100	335	1225	850	2972
6V-92TT	1950		1030	850	2499
6V-92TTA	1950	270	1050	850	2547
8.2LN	3000	165	376	850	912
8.2LT	3000	205	553	850	1342
8V-53	2200		693	850	1681
	2500		786	850	1907
8V-71	1800	233	753	850	1827
	2300	314	954	850	2314
	2100	304	874	850	2120
8V-71T	2100	350	1200	850	2911
	1800		1100	850	2669
8V-71TA	2100	370	1240	850	3008
8V-71TT	1950		1240	850	3008
8V-71TTA	1950	305	1055	850	2559
8V-92	1800	300	980	850	2377
	2100	360	1150	850	2790
8V-92T	2100	430	1600	850	3881
	1800		1300	850	3154
8V-92TA	2100	435	1434	850	3479
8V-92TT	1950		1300	850	3154
8V-92TTA	1950	365	1250	850	3032
Series 40E (7.6 LTA)					
Series 40E (7.6 LTA)	2300	175	675	670	1450
	2600	190	705	710	1575
	2600	210	740	765	1730
	2600	230	700	885	1810
	2400	195	715	720	1610
Series 40E (8.7 LTA)	2400	250	700	885	1810
	2200	250	685	850	1725
	2200	275	705	955	1890
	2200	300	710	965	1930
	2200	320	715	985	1995

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
DETROIT DIESEL CONTINUED					
Series 50 (8.5 Ltr)					
2100	250	760	625	1575	
2100	275	790	680	1720	
2100	300	820	715	1845	
2100	320	815	730	1861	
2100	350	815	850	2055	
Series 60 (12.7 Ltr)					
2100	330	1050	610	2157	
2100	350	1090	645	2310	
2100	370	1010	725	2300	
2100	400	1050	780	2500	
2100	430	1080	820	2652	
2100	470	1170	825	2877	
2100	500	1170	825	2877	
Series 60 (14 Ltr)					
2100	550	1231	986	3402	
2100	575	1271	867	3221	

DEUTZ					
BF12L 714	2300	390	695	850	1686
BF6L 913	2800	175	396	850	961
F10L 413	2650	310	595	850	1443
F10L 714	2300	275	577	850	1400
F12L 413	2650	370	714	850	1732
F12L 714	2300	330	695	850	1686
F1L 208	3600	9	70	850	170
F1L 210	3000	16	96	850	233
F1L 411D	3000	16	98	850	238
F2L 411D	3000	32	133	850	323
F2L 411W	3000	30	133	850	323
F2L 912	2500	36	150	850	364
F2L 912W	2500	34	150	850	364
F3L 912	2800	60	176	850	427
F3L 912W	2500	50	158	850	383
F4L 912	2800	80	202	850	490
F4L 912W	2500	67	180	850	437
F5L 912	2800	100	210	850	509
F5L 912W	2500	84	187	850	454
F6L 413	2650	185	357	850	866
F6L 714	2300	165	347	850	842
F6L 912	2800	120	252	850	611
F6L 912W	2500	101	224	850	543
F8L 413	2650	250	476	850	1155
F8L 714	2300	220	463	850	1123

FORD					
00	2400	59	101	900	254
172DF	2400	59	101	900	254
175DF	2500	52	108	900	272
183D	2200	52	99	900	249
192DF	2400	65	113	900	285
201DF	2250	66	111	900	280
220	2400	69	130	900	327
233D	2100	68	120	900	302
242D	2230	76	133	900	335
242DF	2500	79	149	900	375
254DF	2500	80	157	900	395
256DF	2500	89	157	900	395
3320DF	2500	111	203	900	511
362DF	2500	121	223	900	562
363DFT	2400	150	214	900	539
380DF	2500	120	233	900	587
401DF	2500	132	246	900	620
401DFT	2500	167	246	900	620

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
67GF	3600	32	60	900	151
98GF	3600	45	87	900	219
X	2250	60	122	900	307
Y	2250	96	183	900	461

HATZ DIESEL					
2L30	3000	30	68	1100	196
2L40	3000	37	82	1100	237
2M40	3000	40	85	1100	246
3L30	3000	45	101	1100	292
3L40	3000	55	123	1100	355
3M40	3000	60	130	1100	376
4L30	3000	60	135	1100	390
4L40	3000	74	164	1100	474
4M40	3000	80	170	1100	491
E573	3000	3	14	1100	40
E673	3000	5	16	1100	46
E75	3000	7	18	1100	52
E780	3000	10	25	1100	72
E786	3000	14	30	1100	87
E79	3000	8	20	1100	58
E88	2600	10	28	1100	81
E89	2600	12	30	1100	87
E950	3000	17	36	1100	104
Z788	3000	23	55	1100	159

HINO					
Z790	3000	30	61	1100	176
DK10	2000	132	325	900	819
DK10T	1800	160	425	900	1070
DM100	2400	62	165	900	416
EB300	2000	132	315	900	793
EC100	2600	76	208	900	524
EF550	2200	230	572	900	1441
EF750	2200	245	589	900	1483
EF750T	2200	272	850	900	2141
EH100	2600	93	244	900	615
EH500	2800	114	277	900	698
EH700	2800	118	290	900	730
EK100	2200	196	467	900	1176
EL100	2600	132	327	900	824
EL100T	2400	145	440	900	1108
EM100	2400	148	362	900	912
ER100	2200	160	407	900	1025
EV700	2200	298	700	900	1763

ISUZU					
QD100	3200	87	185	900	466
QD130	2800	115	230	900	579
QD145	3200	129	280	900	705
QD145T	2500	139	305	900	768
QD200	2200	194	410	900	1033
QD200T	2000	218	515	900	1297
QD27	2800	26	50	900	126
QD40	2800	40	80	900	201
QD60	3800	55	140	900	353
QD85	3000	68	162	900	408
QD90	2800	75	150	900	378
QT15	3600	14	55	900	139
QT23	3600	22	75	900	189
QT35	3000	32	96	900	242

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
IVECO					
803 i 3L-NA	2500	51	120	1100	347
804 i 4L-NA	2500	68	155	1100	448
805 i 5L-NA	2500	84	174	1100	214
806 i 6L-NA	2500	102	235	1100	679
806 i tc 6L-TC	2500	131	340	900	856
8210 i 6L-NA	2000	205	440	1100	1271
8280 i V8-NA	2200	287	600	1100	1733
8281 SRi V8-TCA	2200	424	900	900	2267
8281 Si V8-TC	2000	331	790	900	1990
8361 Si 7L-TC	2400	157	450	900	1133
8361 i 6L-NA	2500	139	322	1100	930

JOHN DEERE					
3164D	2500	52	100	900	252
3179D	2500	58	100	900	252
3179T	2500	79	178	900	448
4219D	2500	70	135	900	340
4239A	2500	117	277	900	698
4239D	2500	80	148	900	373
4239T	2500	109	258	900	650
4276D	2500	82	160	900	403
4276T	2200	98	266	900	670
6076A	2200	240	568	900	1431
6076H	2200	250	647	900	1629
6076T	2200	190	505	900	1272
6329D	2500	104	200	900	504
6359A	2500	176	470	900	1184
6359D	2500	121	228	900	574
6359T	2500	163	370	900	932
6414D	2200	118	228	900	574
6414T	2200	146	360	900	907
6466A	2100	233	579	900	1458
6466D	2200	138	258	900	650
6466T	2200	185	484	900	1219
6619A	2100	301	680	900	1713
8955A	2100	456	1130	900	2846
8955T	2100	356	978	900	2463

KOHLER					
K161	3600	7	14	1150	42
K181	3600	8	16	1150	48
K241	3600	10	20	1150	60
K301	3600	12	24	1150	72
K321	3600	14	26	1150	78
K341	3600	16	30	1150	89
K582	3600	23	48	1150	143
K91	3600	4	7	1150	21
KT17	3600	17	35	1150	104
KT19	3600	19	39	1150	116

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
KUBOTA					
D1402-B	2800	31	62	900	156
D3200-B	2400	66	123	900	310
D600-B	3600	16	35	900	88
D850-BW	3000	20	41	900	103
DH850-B	3600	23	49	900	123
S2800-B	2600	58	116	900	292
V1100-B	3000	26	55	900	139
V1702-B	2800	40	77	900	194
V1902-B	2800	42	83	900	209
V4300-B	2400	88	164	900	413
VH1100-B	3600	31	66	900	166
Z400-B	3600	11	23	900	58
Z600-BW	3200	14	29	900	73
ZB400-B	3200	10	21	900	53
ZB600C-1-B	3200	14	29	900	73
ZH600-B	3600	16	33	900	83

LISTER					
HL3	2500		125	900	315
HL4	2500		167	900	421
HL6	2500		250	900	630
HLT6	2100		300	900	756
HR2	2200		73	900	184
HR3	2200		110	900	277
HRW2	2200	31	74	900	186
HRW3	2200	47	110	900	277
HRW4	2200	62	146	900	368
HRW6	2200	93	220	900	554
HRWS6	2000	102	200	900	504
LT1	3600	8	24	900	60
LV1	3600	9	28	900	71
LV2	3600	18	55	900	139
ST1	3000	10	31	900	78
TL2	3000	27	74	900	186
TL3	3000	40	111	900	280
TS2	3000	22	61	900	154
TS3	3000	33	91	900	229

LOMBARDINI					
10LD 400-2	3000	16	34	1000	92
10LD 400-2/B1					
	3600	18	41	1000	111
11LD 535-3	3000	33	74	1000	200
11LD 625-3	3000	38	84	1000	227
3LD 450	3000	10	20	1000	54
3LD 510	3000	11	22	1000	59
3LD 510/L	2200	8	17	1000	46
4LD 640	3000	14	28	1000	76
4LD 640/L	2200	10	22	1000	59
4LD 705	2600	15	27	1000	73
4LD 820	2600	18	32	1000	87
4LD 820/L	2200	14	27	1000	73
5LD 675-2	3000	29	58	1000	157
5LD 675-3	3000	44	87	1000	235
5LD 825-2	2600	34	63	1000	170
5LD 825-2/L	2200	27	53	1000	143
5LD 825-3	2600	52	94	1000	254
5LD 825-3/L	2200	40	80	1000	216
5LD 825-4	2600	67	125	1000	338
5LD 825-4/L	2200	54	106	1000	287
5LD 930-3	2600	54	105	1000	284
5LD 930-4	2600	72	140	1000	379
6LD 260	3600	5	15	1000	41

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
6LD 260/C	1800	5	14	1000	38
6LD 325	3600	7	17	1000	46
6LD 325/C	1800	7	17	1000	46
6LD 360	3600	8	19	1000	51
6LD 360 V	3600	8	19	1000	51
6LD 400	3600	8	21	1000	57
7LD 665	3000	15	29	1000	78
7LD 665/F	3000	15	29	1000	78
7LD 740/L	3000	16	32	1000	87
8LD 600-2	3000	26	52	1000	141
8LD 665-2	3000	29	58	1000	157
8LD 665-2/L	2200	22	44	1000	119
8LD 740-2	2600	29	52	1000	141
9LD 561-2	3000	26	48	1000	130
9LD 561-2/L	2200	18	37	1000	100

MACK					
E6	NA	350	NA	750	1950
E7	NA	300	NA	728	1561
	NA	350	NA	742	1679
	NA	400	NA	791	1934
	NA	427	NA	795	2136
	NA	460	NA	814	2315
	NA	310/330	NA	728	1550
	NA	330/355	NA	735	1653
	NA	355/380	NA	736	1767
E9	NA	500	NA	740	3050
EN291	2800		178	900	448
EN331	2800		206	900	519
EN402	2800		246	900	620
EN438	2600		247	900	622
EN540	2400		280	900	705
EN707C	2100		306	900	771
END465	2600		325	900	819
END475	2400		280	900	705
END5673C	2100	250	600	900	1511
END5864	2300	270	850	900	2141
END673E	2100	180	400	900	1007
END707	2100	200	410	900	1033
END864BC	2450		540	900	1360
ENDT475	2400		460	900	1159
ENDT673	2100	225	600	900	1511
ENDT675	2100	237	625	900	1574
ENDT676			800	900	2015
ENDT864A	2300		860	900	2166
ENDT865	2600	325	960	900	2418
ENDT866	2400	275	1050	900	2644
ENDTF673	2300		665	900	1675
ENDTF673C	2200		625	900	1574

MERCEDES-BENZ					
OM314	2800	85	170	900	428
OM346	2800		427	900	1075
OM352	2800	130	260	900	655
OM352A	2800	168	336	900	846
OM355	2000	200	327	900	824
OM360	2500	190	308	900	776
OM401	2500	195	340	900	856
OM402	2500	260	340	900	856
OM403	2500	325	463	900	1166
OM404	2500	430	738	900	1859
OM407	2200	240	480	900	1209
OM407A	2200	280	560	900	1410
OM407h	2200	240	480	900	1209
OM407hA	2200	280	560	900	1410

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
OM421	2300	216	432	900	1088
OM422	2300	280	560	900	1410
OM422A	2300	330	660	900	1662
OM422LA	2300	375	750	900	1889
OM423	2300	355	710	900	1788
OM423LA	2100	470	940	900	2367
OM424	2300	420	840	900	2116
OM424A	2300	530	1060	900	2670
OM424LA	2300	615	1230	900	3098
OM616	3600	67	134	900	337
OM617	3600	82	164	900	413
OM636	3500	40	95	900	239

MITSUBISHI					
S12A-PT	1800	660	1620	900	4080
S12A-PTA	1800	850	2080	900	5239
S12A-PTK	1800	900	2190	900	5516
S12N-PT	1800	1000	2440	900	6145
S12N-PTA	1800	1130	2750	900	6926
S12N-PTK	1800	1230	3000	900	7556
S12U-PTA	1200	3100	7910	900	19921
S12U-PTK	1200	3300	8400	900	21156
S16N-PT	1800	1320	3210	900	8084
S16N-PTA	1800	1500	3670	900	9243
S16N-PTK	1800	1620	3960	900	9973
S6A-PT	1800	330	810	900	2040
S6A-PTA	1800	425	1020	900	2569
S6A-PTK	1800	450	1100	900	2770
S6B-PT	1800	260	640	900	1612
S6B-PTA	1800	320	780	900	1964
S6B-PTK	1800	360	880	900	2216
S6N-PT	1800	500	1240	900	3123
S6N-PTA	1800	565	1380	900	3476
S6N-PTK	1800	615	1480	900	3727
S6U-PTA	1200	1550	3960	900	9973
S6U-PTK	1200	1650	4200	900	10578
S8N-PT	1800	660	1620	900	4080
S8N-PTA	1800	750	1840	900	4634
S8N-PTK	1800	810	1980	900	4987

MTU OF NORTH AMERICA					
12V-396-TB-83					
	1845	1560	3919		3338
12V-396-TB-93					
	1845	1200	4534		3862
12V-396-TC-82					
	1745	1300	2902		2472
8V-396-TB-83					
	1845	1050	2436		2075
8V-396-TB-93					
	1845	1800	2944		2508
8V-396-TC-82					
	1745	870	1864		1588

NAVISTAR					
4-196	3800	86	162	1150	483
6.9 L	3000	170	330	1000	892
7.3 LT (T444)	2600	190	605	753	1359
7.3 L	3000	175	349	1000	944
9.0 L (DV550)	2800	185	410	1050	1146
C-200	2500	74	109	1150	325
C-221	2600	90	124	1150	370
C-263	2800	109	160	1150	477
C-301	2800	118	183	1150	546
C-345	3000	160	224	1150	668

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
NAVISTAR CONTINUED					
C-392	3000	180	255	1150	760
C-549	3200	232	381	1150	1136
C135B	2400	46	70	1150	209
C153	2400	53	80	1150	239
C175	2500	63	95	1150	283
D155	2500	48	95	900	239
D179	2400	59	99	900	249
D188	2400	62	104	900	262
D206	2500	56	119	900	300
D236	2400	65	131	900	330
D239	2500	80	138	900	348
D268	2500	85	165	900	416
D282	2400	95	156	900	393
D310	2300	101	165	900	416
D312	3000	117	216	900	544
D360	3000	136	250	900	630
D370	2200	105	188	900	473
D407	2600	127	245	900	617
D414	3000	157	287	900	723
D466	3000	165	323	900	813
D550B	3000	200	382	900	962
D554	2300	150	294	900	740
D691	1600	150	256	900	645
DT239	2500	110	225	900	567
DT358	2400	130	340	900	856
DT360	2700	190	588	850	1426
DT361	2600	146	341	900	859
DT402	2400	165	380	900	957
DT407	2500	160	368	900	927
DT414	3000	220	449	900	1131
DT420	2600	225	403	900	1015
DT466	2400	195	664	737	1520
DT466	2400	210	650	765	1530
DT466	2400	230	677	855	1710
DT466	2400	250	650	845	1640
DT466	2400	275	650	984	1820
DT573	2600	300	539	900	1357
DT573B	2600	260	525	900	1322
DT817	2100	385	975	900	2456
DT817B	2100	320	975	900	2456
DT817C	2200	420	975	900	2456
DVT800	2600	310	752	900	1894
MV-404	3600	188	315	1150	939
MV-446	3600	235	348	1150	1038
UC60	2500	17	33	1150	98
UR-450	2400	158	234	1150	698
UV-401	2800	165	243	1150	725
V-304	4400	180	298	1150	888
V-345	3800	172	284	1150	847
V-345	3800	168	284	1150	847
V-392	3600	236	306	1150	912
V-537	3200	208	372	1150	1109
VS-478	3400	224	352	1150	1049
VS-549	3200	243	381	1150	1136

NISSAN

A-12	4800	58	74	900	186
A-15	4800	78	95	900	239
ED-33	3200	83	168	900	423
FD-33T	3200	105	235	900	592
FD-6	2700	131	243	900	612
FD-6T	2700	148	340	900	856
H-20	3100	55	82	900	207
H-30	2600	66	102	900	257

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
J-15	2800	32	55	900	139
LD-20	2600	38	80	900	201
LD-28	2600	53	115	900	290
ND-6	2400	130	260	900	655
P-40	2300	80	120	900	302
PD-6	2200	173	360	900	907
PD-6T	2200	227	505	900	1272
PE-6	2200	200	408	900	1028
PE-6T	2200	250	570	900	1436
RD10	2400	330	682	900	1718
RD10T	2400	415	1000	900	2519
RD10TA	2300	485	1200	900	3022
RD8	2400	265	545	900	1373
RD8T	2400	320	763	900	1922
SD-16	3200	36	85	900	214
SD-22	3200	51	110	900	277
SD-25	3200	60	126	900	317
SD-33	3200	79	165	900	416
SD-33T	3200	92	230	900	579

PERKINS

3.1522	2500	44	95	900	239
4-107	4000	57	99	900	249
4-108	4000	60	100	900	252
4-154	3600	80	128	900	322
4-203	2600	63	122	900	307
4-236	2800	80	153	900	385
4-248	2500	85	144	900	363
4-270	2000	62	125	900	315
4-300	2200	90	152	900	383
4-302	2300	76	161	900	405
4-318	2000	75	147	900	370
4-99	4000	55	92	900	232
4.108	4000	49	102	900	257
4.165	3600	70	135	900	340
4.2032	2250	58	117	900	295
4.236	2800	82	157	900	395
4.248	2500	84	152	900	383
4.318	2000	75	140	900	353
6-305	2600	89	184	900	463
6-354	2800	120	230	900	579
6-372	2500	121	215	900	541
6.247	3600	101	205	900	516
6.3544	2800	238	370	900	599
6.3724	2500	227	340	900	572
D3-152	2500	52	88	900	222
D3.152	2500	49	3	900	8
D4.203	2500	3	3	900	8
T6-354	2400	150	307	900	773
T6-354-3	2500	140	320	900	806
T6.3544	2600	370	370	900	932
TV8.640	2600	685	685	900	1725
V8-510	2800	185	331	900	834
V8-540	2500	166	312	900	786
V8-605	2500	200	350	900	881
V8.540	2600	370	370	900	932
V8.640	2600	411	411	900	1035

RENAULT

18TS/GTS	5750	92	230	1150	686
20 TL/GTL	5500	98	200	1150	596
20 TX	5500	112	230	1150	686
20 TX	5000	112	230	1150	686
4 GTL	4000	33	70	1150	209
4L/TL	4250	20	40	1150	119

Engine Model	RPM	HP	Intake CFM	-- Exhaust --	
				Temp. (°F)	Flow (CFM)
9 TD/GTD	4800			900	
FUEGO TURBO D					
	4250	85	211	900	531
TRAFIC	4750	46	90	1150	268
TRAFIC	5000	46	90	1150	268
TRAFIC PROP					
	4000	56	140	900	353

SAME

1052 LP	2500	39	83		71
1053 P	2500	64	124		106
1054 P	2500	85	165		141
1054 PT	2300	90	152		129
1055 P	2500	105	206		175
1056 P	2500	126	248		211
1056 PS	2300	148	228		194
1056 PT	2300	160	228		194
916.3A	3000	61	131		112
916.4A	3000	81	175		149

TELEDYNE

ACN	3600	6	13		11
AENL	3600	9	20		17
AGND	3200	12	26		22
BKN	3600	7	16		14
EY18-3W	3600	5	10		9
EY21W	3800	17	33		28
EY25W	3600	6	15		13
EY27W	3600	8	16		14
EY44W	3600	10	22		19
NH4D	2800	30	75		64
R08	5000	27	60		51
R11	4200	34	73		62
R14	4200	48	105		89
R17	5000	83	180		153
R22	5500	101	220		187
RD16	4800	54	135		115
RD21	4200	62	155		132
S-12D	3600	12	31		26
S-14D	3600	14	30		26
S-8D	3600	8	18		15
TJD	3600	18	48		41
TM13	3000	33	70		60
TM13	3000	22	45		38
TM20	3000	52	100		85
TM20	3000	44	90		77
TM27	3000	69	125		106
TM27	3000	59	120		102
TMD13	3000	29	72		61
TMD20	3000	44	110		94
TMD27	3000	121	300		256
TRA-12D	3600	12	25		21
V-465D	3000	66	133		113
V460D	3000		65		55
VE4	2400		48		41
VF4	2400		56		48
VG4D	2400	37	75		64
VH4	2800		61		52
VH4D	2800	30	65		55
VR4D	2200	37	122		104
W2-1230	3600	25	55		47
W2-1235	3600	30	68		58
W2-880	3600	20	44		37
W4-1770	3000	35	72		61
WD1-340	3000	7	18		15

Engine Model	RPM	HP	-- Exhaust --	
			Intake Temp. (°F)	Flow (CFM)

TELEDYNE CONTINUED

WD1-350.....	3000	8	20	17
WD1-430.....	3000	10	24	20
WD1-450.....	3400	10	26	22
WD1-660.....	3000	15	38	32
WD1-670.....	3000	16	40	34
WD1-750.....	3000	17	43	37
WD2-1000.....	3000	21	52	44
WD2-860.....	3000	19	48	41
WI-145.....	4000	4	8	7
WI-145V.....	3600	4	8	7
WI-185.....	3600	5	10	9
WI-185V.....	3600	5	10	9
WI-340.....	3600	9	20	17
WI-390.....	3600	11	22	19
WI-588.....	3600	16	34	29

VOLKSWAGON

026.2.....	2200	70	140	1150	417
068.5.....	4000	48	90	900	227
068.A.....	4000	60	120	900	302
075.1.....	4000	75	145	900	365
126A.....	2000	45	90	1150	268

VOLVO

D45BPP.....	2300	75	195	900	491
TD100G.....	2000	223	460	900	1159
TD100GPP.....	2000	223	460	900	1159
TD120HP.....	2000	286	575	900	1448
TD121G.....	2000	284	575	900	1448
TD45B.....	2200	90	235	900	592
TD61A.....	2500	154	330	900	831
TD61AP.....	2500	165	350	900	881
TD61AW.....	2500	162	350	900	881
TD71A.....	2200	189	360	900	907
TD71AP.....	2200	192	360	900	907
TD71AW.....	2400	190	360	900	907
TID100KPP.....	2000	249	515	900	1297
TID121KP.....	2000	343	695	900	1750
TID121LP.....	1800	401	800	900	2015
TID71A.....	2200	216	380	900	957
TID71AP.....	2200	209	400	900	1007

Engine Model	RPM	HP	-- Exhaust --	
			Intake Temp. (°F)	Flow (CFM)

WAUKESHA

190DLC.....	2800	84	128	109
197DLC.....	2800	91	208	177
197DLCS.....	2800	131	320	273
D317D.....	2400	118	285	243
D317DS.....	2400	142	340	290
F1197D.....	1800	258	620	528
F1197DS.....	1800	400	960	818
F1197DSI.....	2400	462	1100	937
F1905DS.....	1200	397	860	733
F1905DSI.....	2200	514	1015	865
F2896D.....	1200	415	804	685
F2896DS.....	1200	695	1032	879
F2896DSI.....	1200	877	1305	1112
F475D.....	2400	182	440	375
F475DS.....	2400	216	520	443
F674D.....	2200	226	540	460
F674DS.....	2200	229	550	469
H1077D.....	2400	346	630	537
H1077DS.....	2400	522	1080	920
H1077DSI.....	2400	557	1190	1014
H866DS.....	2300	384	920	784
L1616D.....	2400	520	940	801
L1616DS.....	2400	785	1680	1431
L1616DSI.....	2400	836	1850	1576
L5100D.....	1200	830	1420	1210
L5100DS.....	1200	1232	2170	1849
L5100DSI.....	1200	1375	2560	2181
L5790D.....	1200	905	1710	1457
L5790DS.....	1200	1235	2600	2215
L5790DSI.....	1200	1754	3080	2624
LRDCS.....	1200	695	1032	879
NKDC.....	1200	297	566	482
NKDCS.....	1200	390	860	733
P2154D.....	2200	592	1420	1210
P2154DS.....	2200	1017	2450	2087
P2154DSI.....	2200	1077	2600	2215
VLRD.....	1200	905	1710	1457
VLRDS.....	1200	1235	2600	2215
VRD232.....	2200	68	160	136
VRD283.....	2200	76	180	153
VRD310.....	2400	106	255	217
WAKD.....	1800	258	530	451
WAKDS.....	1800	400	810	690

Engine Model	RPM	HP	-- Exhaust --	
			Intake Temp. (°F)	Flow (CFM)

WHITE ENG

D-2000.....	2600	70	120	102
D-2300.....	2400	137	117	117
D-2300T.....	2400	211	180	180
D-3000.....	2800	110	193	164
D-3000T.....	2600	130	280	239
D-3300T.....	1800	175	149	149
D-3400.....	2400	210	179	179
D-3400T.....	2400	333	284	284
D-4800.....	2400	260	221	221
D-4800T.....	2400	400	341	341
D-4800TA.....	2400	400	341	341
D-4800TAH.....	1800	431	367	367
G-1600.....	2400	102	87	87
G-2000.....	2800	84	102	102
G-2300.....	2400	130	111	111
G-3000.....	2800	130	181	154
G-3400.....	2400	210	179	179

YANMAR

12LAAL-DT.....	1800	1060	2772	900	6981
3T95LE.....	2800	51	114	900	287
4HAL.....	1800	110	260	900	655
4T95LE.....	2800	68	150	900	378
4T95LTE.....	2800	85	208	900	524
6HAL.....	1800	165	390	900	982
6HAL-DT.....	1800	330	837	900	2108
6HAL-HT.....	1800	264	692	900	1743
6HAL-T.....	1800	209	512	900	1289
6LAAL-DT.....	1800	530	1370	900	3450
6T95LE.....	2800	102	233	900	587
6T95LTE.....	2800	128	314	900	791
8LAAL-DT.....	1800	705	1800	900	4533

All air cleaner housings and intake accessories featured in this catalog are listed in this section by part number in alpha/numeric order. If you have a part number (for instance, H000466), but don't know what it is, this section will tell you a brief product description and the page number where the item can be found in this catalog.

If an air cleaner model takes you to the air cleaner service parts section, the air cleaner is but the page will display what service parts are still available for the old model. There are over 100 air cleaner models listed in this section that are no longer that reference the service parts section

Some air cleaner series are represented by the first two letters of the series name. For instance, ST includes all STB and STG air cleaners; EB includes all EBA and EBB air cleaners; and so on.

Abbreviations

A/C = Air Cleaner Assembly
HORZ = Horizontal
ID = Inner Diameter
OD = Outer Diameter
PER = Peripheral Inlet
RS = Rain Shield
TUB or TUBE = Tubular Inlet
VERT = Vertical

Part No.	Page No.	Product Description	Part No.	Page No.	Product Description	Part No.	Page No.	Product Description
A042511	124	Air Cleaner, FGA	B085056	27-28	Air Cleaner, ECB DuraLite	D090021	18-19	Air Cleaner, PSD, PowerCore®
A052526	124	Air Cleaner, FWA	B100001	126	Air Cleaner, FWB	D090022	18-19	Air Cleaner, PSD, PowerCore®
A052527	124	Air Cleaner, FWA	B100002	126	Air Cleaner, FWB	D090055	18-19	Air Cleaner, PSD, PowerCore®
A060022	124	Air Cleaner, FGA	B100028	126	Air Cleaner, STB	D100029	18-19	Air Cleaner, PSD, PowerCore®
A065007	124	Air Cleaner, FWA	B100127	55-56	Air Cleaner, XRB	D100030	18-19	Air Cleaner, PSD, PowerCore®
A065015	124	Air Cleaner, FWA	B105002	27-28	Air Cleaner, ECB DuraLite	D100031	18-19	Air Cleaner, PSD, PowerCore®
A080022	124	Air Cleaner, FWA	B105006	27-28	Air Cleaner, ECB DuraLite	D100032	18-19	Air Cleaner, PSD, PowerCore®
A080031	124	Air Cleaner, FWA	B105020	27-28	Air Cleaner, ECB DuraLite	D100068	18-19	Air Cleaner, PSD, PowerCore®
A092018	124	Air Cleaner, EBA-KPI	B120105	126	Air Cleaner, EBB-STYB	D100072	18-19	Air Cleaner, PSD, PowerCore®
A092019	124	Air Cleaner, EBA-KPII	B120129	126	Air Cleaner, STB	D120035	18-19	Air Cleaner, PSD, PowerCore®
A092037	40-41	Air Cleaner, EBA Konepac	B120271	46	Air Cleaner, EBB	D120036	18-19	Air Cleaner, PSD, PowerCore®
A100013	124	Air Cleaner, FGA	B120376	27-28	Air Cleaner, ECB DuraLite	D120037	18-19	Air Cleaner, PSD, PowerCore®
A100017	124	Air Cleaner, FWA	B120439	27-28	Air Cleaner, ECB DuraLite	D120038	18-19	Air Cleaner, PSD, PowerCore®
A100019	124	Air Cleaner, FWA	B120470	55-56	Air Cleaner XRB	EAF5015	46	Filter, primary - ES & HE
A110007	124	Air Cleaner, EBA-CYL	B125003	27-28	Air Cleaner, ECB DuraLite	EAF5024	41	Filter, primary - ES & HE
A110052	38-39	Air Cleaner, ERA Radial Seal	B125005	27-28	Air Cleaner, ECB DuraLite	EAF5025	41	Filter, primary - ES & HE
A112018	40-41	Air Cleaner, EBA Konepac	B125011	27-28	Air Cleaner, ECB DuraLite	EAF5026	41	Filter, primary - ES & HE
A112078	40-41	Air Cleaner, EBA Konepac	B140019	126	Air Cleaner, STB	EAF5027	45	Filter, primary, no cover - ES & HE
A120003	124	Air Cleaner, FWA	B140044	46	Air Cleaner, EBB	EAF5028	46	Filter, primary - ES & HE
A120036	124	Air Cleaner, FWA	B140149	126	Air Cleaner, EBB-STYB	EAF5029	45	Filter primary, no cover - ES & HE
A127200	124	Air Cleaner, FGA	B140150	126	Air Cleaner, EBB-STYB	EAF5038	87-88	Filter, primary - ES & HE
A130045	125	Air Cleaner, EBA-CYL	B160049	46	Air Cleaner, EBB	EAF5039	86-88	Filter, primary - ES & HE
A130060	125	Air Cleaner, EBA-CYL	B160071	95-96	Air Cleaner, STB	EAF5040	87-88	Filter, primary - ES & HE
A130087	125	Air Cleaner, EBA-CYL	C045001	27-28	Air Cleaner, ECC DuraLite	EAF5041	87	Filter, primary - ES & HE
A130115	38-39	Air Cleaner, ERA Radial Seal	C045002	27-28	Air Cleaner, ECC DuraLite	EAF5042	86-88	Filter, primary - ES & HE
A132001	40-41	Air Cleaner, EBA Konepac	C055002	27-28	Air Cleaner, ECC DuraLite	EAF5043	74	Filter, primary - ES & HE
A132004	125	Air Cleaner, EBA-KPI	C055003	27-28	Air Cleaner, ECC DuraLite	EAF5044	88	Filter, primary - ES & HE
A132020	125	Air Cleaner, EBA-KPII	C065001	27-28	Air Cleaner, ECC DuraLite	EAF5047	45	Filter, primary, attached cover - ES & HE
A140002	125	Air Cleaner, FWA	C065002	27-28	Air Cleaner, ECC DuraLite	EAF5049	74	Filter, primary - ES & HE
A140003	125	Air Cleaner, FWA	C065003	27-28	Air Cleaner, ECC DuraLite	EAF5053	45	Filter, primary, attached cover - ES & HE
A140033	125	Air Cleaner, FWA	C065015	27-28	Air Cleaner, ECC DuraLite	EAF5067	35	Filter, primary - ES & HE
A140036	125	Air Cleaner, FWA	C085001	27-28	Air Cleaner, ECC DuraLite	EAF5069	35	Filter, primary - ES & HE
A144800	125	Air Cleaner, FGA	C085002	27-28	Air Cleaner, ECC DuraLite	EAF5099	46	Filter, primary - ES & HE
A144900	125	Air Cleaner, FGA	C085003	27-28	Air Cleaner, ECC DuraLite	EAF5105	71	Filter, primary - ES & HE
A145200	125	Air Cleaner, FGA	C085004	27-28	Air Cleaner, ECC DuraLite	EAF5109	35	Filter, primary - ES & HE
A150039	125-126	Air Cleaner, EBA-CYL	C085005	27-28	Air Cleaner, ECC DuraLite	EAF5148	39	Filter, primary - ES & HE
A150128	125-126	Air Cleaner, EBA-CYL	C085006	27-28	Air Cleaner, ECC DuraLite	EAF5149	39	Filter, primary - ES & HE
A150138	38-39	Air Cleaner, ERA Radial Seal	C085041	27-28	Air Cleaner, ECC DuraLite	EAF5151	39	Filter, primary - ES & HE
A150141	38-39	Air Cleaner, ERA Radial Seal	C085043	27-28	Air Cleaner, ECC DuraLite	EAF5152	80-82	Filter, primary - ES & HE
A150174	125-126	Air Cleaner, EBA-CYL	C105003	27-28	Air Cleaner, ECC DuraLite	EAF5153	80-82	Filter, primary - ES & HE
A160001	126	Air Cleaner, FWA	C105004	27-28	Air Cleaner, ECC DuraLite	G042503	127	Air Cleaner, FWG
A160013	126	Air Cleaner, FWA	C105017	27-28	Air Cleaner, ECC DuraLite	G042529	127	Air Cleaner, FWG
A160173	126	Air Cleaner, EBA-CYL	C105028	27-28	Air Cleaner, ECC DuraLite	G042544	62-64	Air Cleaner, FPG Radial Seal
A161500	126	Air Cleaner, FGA	C125004	27-28	Air Cleaner, ECC DuraLite	G042545	62-64	Air Cleaner, FPG Radial Seal
A161600	126	Air Cleaner, FGA	D045003	27-28	Air Cleaner, ECD DuraLite	G042547	127	Air Cleaner, FPG
B045008	50-51	Air Cleaner, FKB	D045004	27-28	Air Cleaner, ECD DuraLite	G042549	127	Air Cleaner, FPG
B055006	50-51	Air Cleaner, FKB	D055004	27-28	Air Cleaner, ECD DuraLite	G052510	127-128	Air Cleaner, FWG
B065045	50-51	Air Cleaner, FKB	D065003	27-28	Air Cleaner, ECD DuraLite	G052512	127-128	Air Cleaner, FWG
B080080	55-56	Air Cleaner, XRB	D065008	27-28	Air Cleaner, ECD DuraLite	G052558	127-128	Air Cleaner, FHG-STYA
B085001	27-28	Air Cleaner, ECB DuraLite	D080020	18-19	Air Cleaner, PSD, PowerCore®	G052559	127-128	Air Cleaner, FHG-STYA
B085008	27-28	Air Cleaner, ECB DuraLite	D080026	18-19	Air Cleaner, PSD, PowerCore®	G052560	127-128	Air Cleaner, FHG-STYA
B085011	27-28	Air Cleaner, ECB DuraLite	D080056	18-19	Air Cleaner, PSD, PowerCore®	G052561	127-128	Air Cleaner, FHG-STYA
B085046	27-28	Air Cleaner, ECB DuraLite	D090019	18-19	Air Cleaner, PSD, PowerCore®			
B085048	27-28	Air Cleaner, ECB DuraLite	D090020	18-19	Air Cleaner, PSD, PowerCore®			

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G052617	127-128	Air Cleaner, FHG-STYA	G090245	68-69	Air Cleaner, FRG Radial Seal			Peripheral
G052685	68-69	Air Cleaner, FRG Radial Seal	G090250	68-69	Air Cleaner, FRG Radial Seal	G140083	133-134	Air Cleaner, FWG
G052686	68-69	Air Cleaner, FRG Radial Seal	G092001	44-45	Air Cleaner, ECG Konepac	G140195	74	Air Cleaner, FVG Cycloflow
G057511	62-64	Air Cleaner, FPG Radial Seal	G092004	130	Air Cleaner, ECG-KPII	G140260	133-134	Air Cleaner, SBG-PER
G057512	62-64	Air Cleaner, FPG Radial Seal	G092401	44-45	Air Cleaner, ECG Konepac	G140261	133-134	Air Cleaner, SBG-TUB
G057513	62-64	Air Cleaner, FPG Radial Seal	G092501	130	Air Cleaner, ECG-KPI	G140270	133-134	Air Cleaner, SBG-PER
G057514	62-64	Air Cleaner, FPG Radial Seal	G100003	130-131	Air Cleaner, FWG	G140523	68-69	Air Cleaner, FRG Radial Seal
G057516	127-128	Air Cleaner, FPG	G100004	130-131	Air Cleaner, FWG	G140526	68-69	Air Cleaner, FRG Radial Seal
G057517	127-128	Air Cleaner, FPG	G100028	130-131	Air Cleaner, FHG-STYA	G150039	134	Air Cleaner, FTG
G060003	128-129	Air Cleaner, SDG-PER	G100029	130-131	Air Cleaner, FHG-STYA	G150048	34-35	Air Cleaner, EPG 15" Radial Seal
G065008	128-129	Air Cleaner, FWG	G100035	130-131	Air Cleaner, FHG-STYA	G150049	34-35	Air Cleaner, EPG 15" Radial Seal
G065012	128-129	Air Cleaner, FWG	G100036	130-131	Air Cleaner, FHG-STYA	G150092	68-69	Air Cleaner, FRG Radial Seal
G065104	128-129	Air Cleaner, FHG-STYA	G100160	130-131	Air Cleaner, SBG-PER	G160035	134-135	Air Cleaner, SBG-TUB
G065113	128-129	Air Cleaner, FHG-STYA	G100161	130-131	Air Cleaner, SBG-TUB	G160048	134-135	Air Cleaner, FHG-STYA
G065212	128-129	Air Cleaner, FHG-STYA	G100297	68-69	Air Cleaner, FRG Radial Seal	G160049	134-135	Air Cleaner, FHG-STYA
G065256	128-129	Air Cleaner, FHG-STYA	G100317	62-64	Air Cleaner, FPG Radial Seal	G160057	134-135	Air Cleaner, FHG-STYA
G065261	128-129	Air Cleaner, FHG-STYB	G100319	62-64	Air Cleaner, FPG Radial Seal	G160077	86-88	Air Cleaner, STG Donaclone Peripheral
G065266	128-129	Air Cleaner, FWG	G100395	68-69	Air Cleaner, FRG Radial Seal			
G065359	128-129	Air Cleaner, FHG-STYB	G100398	68-69	Air Cleaner, FRG Radial Seal	G160078	134-135	Air Cleaner, FHG-STYA
G065360	128-129	Air Cleaner, FHG-STYB	G110103	131	Air Cleaner, FTG	G160104	134-135	Air Cleaner, FWG
G065411	62-64	Air Cleaner, FPG Radial Seal	G110119	34-35	Air Cleaner, EPG 11" Radial Seal	G160107	134-135	Air Cleaner, FWG
G065424	62-64	Air Cleaner, FPG Radial Seal	G110120	34-35	Air Cleaner, EPG 11" Radial Seal	G160158	134-135	Air Cleaner, STG-TUB
G065426	128-129	Air Cleaner, FPG	G110206	68-69	Air Cleaner, FRG Radial Seal	G160254	134-135	Air Cleaner, FHG-STYA
G065427	128-129	Air Cleaner, FPG	G110214	68-69	Air Cleaner, FRG Radial Seal	G160331	134-135	Air Cleaner, SBG-TUB
G065432	62-64	Air Cleaner, FPG Radial Seal	G112000	131	Air Cleaner, ECG-KPII	G160340	134-135	Air Cleaner, SBG-PER
G065433	62-64	Air Cleaner, FPG Radial Seal	G112001	44-45	Air Cleaner, ECG Konepac	G160359	134-135	Air Cleaner, SBG-PER
G065541	68-69	Air Cleaner, FRG Radial Seal	G112401	131	Air Cleaner, ECG-KPI	G160376	74	Air Cleaner, FVG Cycloflow
G065551	68-69	Air Cleaner, FRG Radial Seal	G112404	44-45	Air Cleaner, ECG Konepac	G160443	134-135	Air Cleaner, STG-PER
G070017	62-64	Air Cleaner, FPG Radial Seal	G112417	44-45	Air Cleaner, ECG Konepac	G160445	86-88	Air Cleaner, STG Donaclone Tubular
G070018	62-64	Air Cleaner, FPG Radial Seal	G112501	44-45	Air Cleaner, ECG Konepac	G160587	74	Air Cleaner, FVG Cycloflow
G070019	62-64	Air Cleaner, FPG Radial Seal	G112504	44-45	Air Cleaner, ECG Konepac	G160679	68-69	Air Cleaner, FRG Radial Seal
G070020	62-64	Air Cleaner, FPG Radial Seal	G120012	132	Air Cleaner, FHG-STYA	G161006	86-88	Air Cleaner, STG Donaclone Peripheral
G080009	129-130	Air Cleaner, SBG-PER	G120014	132	Air Cleaner, FHG-STYA			
G080010	129-130	Air Cleaner, SBG-TUB	G120036	132	Air Cleaner, FHG-STYA	G161020	86-88	Air Cleaner, STG Donaclone Tubular
G080023	129-130	Air Cleaner, FWG	G120037	132	Air Cleaner, FHG-STYA	G180031	68-69	Air Cleaner, FRG Radial Seal
G080026	129-130	Air Cleaner, FWG	G120059	132	Air Cleaner, FWG	G200008	92-93	Air Cleaner, SRG Donaclone, Vertical
G080147	129-130	Air Cleaner, FHG-STYB	G120063	132	Air Cleaner, FWG	G200013	92-93	Air Cleaner, SRG Donaclone, Vertical
G080195	129-130	Air Cleaner, FHG-STYA	G120075	132	Air Cleaner, STG-PER	G200016	136	Air Cleaner, SRG
G080200	129-130	Air Cleaner, FHG-STYA	G120250	132	Air Cleaner, SBG-PER	G200086	80-82	Air Cleaner, SSG Donaclone, Radial Seal
G080372	129-130	Air Cleaner, FHG-STYB	G120251	132	Air Cleaner, SBG-TUB			
G080490	129-130	Air Cleaner, FHG-STYB	G120332	86-88	Air Cleaner, STG Donaclone Tubular	G200087	80-82	Air Cleaner, SSG Donaclone, Radial Seal
G080491	129-130	Air Cleaner, FHG-STYB	G120415	68-69	Air Cleaner, FRG Radial Seal	G200088	80-82	Air Cleaner, SSG Donaclone, Radial Seal
G080582	68-69	Air Cleaner, FRG Radial Seal	G120417	68-69	Air Cleaner, FRG Radial Seal			
G080585	68-69	Air Cleaner, FRG Radial Seal	G130043	133	Air Cleaner, FTG	G290000	92-93	Air Cleaner, SRG Donaclone, Vertical
G082525	62-64	Air Cleaner, FPG Radial Seal	G130079	34-35	Air Cleaner, EPG 13" Radial Seal	G290001	136-137	Air Cleaner, SRG
G082526	62-64	Air Cleaner, FPG Radial Seal	G130089	34-35	Air Cleaner, EPG 13" Radial Seal	G290010	136-137	Air Cleaner, SRG
G082527	62-64	Air Cleaner, FPG Radial Seal	G130097	68-69	Air Cleaner, FRG Radial Seal	G290012	92-93	Air Cleaner, SRG Donaclone, Vertical
G082528	62-64	Air Cleaner, FPG Radial Seal	G130107	68-69	Air Cleaner, FRG Radial Seal	G290023	92-93	Air Cleaner, SRG Donaclone, Vertical
G090022	130	Air Cleaner, FHG-STYA	G132000	44-45	Air Cleaner, ECG Konepac	G290052	80-82	Air Cleaner, SSG Donaclone, Radial Seal
G090024	130	Air Cleaner, FHG-STYA	G140022	133-134	Air Cleaner, FHG-STYA			
G090182	130	Air Cleaner, FHG-STYB	G140023	133-134	Air Cleaner, FHG-STYA	G290053	80-82	Air Cleaner, SSG Donaclone, Radial Seal
G090183	130	Air Cleaner, FHG-STYB	G140054	133-134	Air Cleaner, FHG-STYA			
G090219	62-64	Air Cleaner, FPG Radial Seal	G140055	133-134	Air Cleaner, FHG-STYA	G290055	80-82	Air Cleaner, SSG Donaclone, Radial Seal
G090225	62-64	Air Cleaner, FPG Radial Seal	G140076	86-88	Air Cleaner, STG Donaclone	G290057	80-82	Air Cleaner, SSG Donaclone, Radial

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		Seal
H000165	99	Inlet Hood, metal
H000170	99	Inlet Hood, metal
H000275	99	Inlet Hood, metal
H000276	99	Inlet Hood, metal
H000339	99	Inlet Hood, metal
H000349	103	Mounting Band
H000350	103	Mounting Band
H000351	103	Mounting Band
H000466	99	Inlet Hood, plastic
H000467	99	Inlet Hood, plastic
H000468	99	Inlet Hood, plastic
H000469	99	Inlet Hood, plastic
H000470	99	Inlet Hood, plastic
H000471	99	Inlet Hood, plastic
H000472	99	Inlet Hood, plastic
H000473	99	Inlet Hood, plastic
H000483	119	Air Stack Extension
H000484	119	Air Stack Extension
H000604	99	Inlet Hood, plastic
H000605	99	Inlet Hood, ST 12" Tube A/C
H000606	99	Inlet Hood, plastic
H000607	99	Inlet Hood, plastic
H000672	96	Pre-Cleaner Hood Assembly-STB
H000722	117	Ejector Check Valve
H000820	102	Pre-Cleaner, Full View
H000821	102	Pre-Cleaner, Full View
H000823	102	Pre-Cleaner, Full View
H000858	102	Pre-Cleaner, Full View
H000875	122	In-Line, Horizontal Separator
H000878	122	In-Line, Vertical Separator
H000886	122	In-Line, Vertical Separator
H001009	96	Pre-Cleaner Body Assembly-STB
H001023	117	Ejector Check Valve
H001032	117	Exhaust Ejector, Standard
H001033	117	Exhaust Ejector, Standard
H001034	117	Exhaust Ejector, Standard
H001035	117	Exhaust Ejector, Standard
H001039	117	Exhaust Ejector, Standard
H001053	99	Inlet Hood, plastic
H001063	99	Inlet Hood, plastic
H001200	120	Air Ram, Low Profile
H001212	118	Donaspin P/C & Exhaust Ejector, 3" ID
H001215	118	Donaspin P/C & Exhaust Ejector, 4.50" ID
H001220	122	In-Line Separator, Vertical, 8"
H001249	102	Pre-Cleaner, Full View
H001250	102	Pre-Cleaner, Full View
H001251	102	Pre-Cleaner, Full View
H001278	117	Exhaust Ejector, Compact
H001279	117	Exhaust Ejector, Compact
H001280	117	Exhaust Ejector, Compact
H001284	117	Exhaust Ejector, Compact
H001308	118	Donaspin P/C & Exhaust Ejector, 5"

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		ID
H001375	118	DonaSpin P/C & Exhaust Ejector, 6" ID
H001377	98	Inlet Hood, plastic, 2" OD
H001378	98	Inlet Hood, plastic, 3" OD
H001379	98	Inlet Hood, plastic, 3.5" OD
H001474	122	In-Line Separator, Horizontal, 4"
H001654	120	Air Ram, Louvered
H001660	120	Air Ram, Louvered
H001661	120	Air Ram, Louvered
H001742	99	Inlet Hood, Bright SSSL, 7" OD
H001756	99	Inlet Hood, Bright SSSL Low Profile, 6" ID
H001773	99	Inlet Hood, EB A132020 A/C
H001823	102	Pre-Cleaner, Full View
H001906	122	In-Line Separator, Horizontal
H001946	99	Inlet Hood, Bright Stainless, 8" OD
H001947	99	Inlet Hood, Bright Stainless, 7" OD
H001948	99	Inlet Hood, Bright Stainless, 6" OD
H002023	61	Mounting Band
H002040	102	Pre-Cleaner, Full View
H002042	102	Pre-Cleaner, Full View
H002043	102	Pre-Cleaner, Full View
H002044	102	Pre-Cleaner, Full View
H002045	102	Pre-Cleaner, Full View
H002068	98	Inlet Hood, plastic, 1.75"
H002070	61	Mounting Band, metal
H002129	116	Exhaust Ejector, Expanded
H002132	116	Exhaust Ejector, Expanded
H002223	102	Pre-Cleaner, Full View
H002224	102	Pre-Cleaner, Full View
H002394	101	Pre-Cleaner, TopSpin
H002425	101	Pre-Cleaner, TopSpin
H002426	101	Pre-Cleaner, TopSpin
H002427	101	Pre-Cleaner, TopSpin
H002431	101	Pre-Cleaner, TopSpin
H002432	101	Pre-Cleaner, TopSpin
H002433	101	Pre-Cleaner, TopSpin
H002434	101	Pre-Cleaner, TopSpin
H002435	101	Pre-Cleaner, TopSpin
H002436	101	Pre-Cleaner, TopSpin
H002437	101	Pre-Cleaner, TopSpin
H002438	101	Pre-Cleaner, TopSpin
H002439	101	Pre-Cleaner, TopSpin
H008441	61	Mounting Band, 8mm Threaded Holes
H008442	61	Mounting Band, metal
H008443	61	Mounting Band, metal
H008444	61	Mounting Band, metal
H770037	103	Mounting Band, metal
H770068	103	Mounting Band, metal
H770082	99	Inlet Hood
P002348	103	Mounting Band, 5.25" ID A/C
P002351	103	Mounting Band, 6" ID A/C
P002904	71	Clamp Assembly, FW, FH, FR 05" A/C

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P002940	71	Clamp Assembly, FRG
P003245	103	Mounting Band, 7.75" ID A/C
P003951	69	Clamp Assembly, FW, FH, FR, SB 08 AC
P004073	103	Mounting Band, metal
P004076	103	Mounting Band, 10.19" ID A/C
P004079	103	Mounting Band, metal
P004307	103	Mounting Band, 8" ID A/C
P004906	103	Mounting Band, 7" ID A/C
P007189	103	Mounting Band, 4" ID A/C
P007191	103	Mounting Band, 6.5" ID A/C, ST 10" PC
P013722	103	Mounting Band, metal
P016330	102	Bowl Assembly, PB 3", 3.75", 4" & 4.5" OD, P/C
P016548	102	Cover Assembly, PB 3", 3.75", 4", 4.5" OD, P/C
P016845	103	Mounting Band
P016972	87	Gasket Kit for Cover OF ST 14" A/C
P017281	80-82	Cover chain
P017283	80-82	Chain connector
P017335	69	Gasket Body/Cup FW, FH, FR, SB, ST 14" A/C
P017336	69	Gasket Body/Cup for FW, FH, FR, SB, ST 16" A/C
P017365	87	Cover Gasket SB, ST 12" A/C
P017367	87	Cover Gasket SB, ST 16" A/C
P017617	87	Latch, Over Center
P017804	69	Gasket Body/Cup FW, FH, FR, SB, SR, SS, ST 12" A/C
P020115	102	Bowl Assembly, PB 1.38"-2" OD, P/C
P020116	102	Cover Assembly, PB P/C, 1.38"-2" OD
P020227	102	Bowl Assembly, PB 2"-3" OD, P/C
P020344	102	Bowl Assembly, PB 4", 4.5", 5.0" OD, P/C
P020345	102	Cover Assembly, PB P/C 4", 4.5", 5.0" OD
P020648	102	Cover Assembly, PB P/C, 2"-3" OD
P100089	107	Restriction Tap for Safety Filter Fitting
P100780	87	Body Clamp Assembly
P100789	69	Clamp Assembly, FH, FW, FR, SB A/C
P100794	87	Dust Cup for STG Air Cleaners
P100808	80-82	Clamp Assembly, FH, FW, SB, SR, SS A/C
P100860	87	Dust Cup, STG
P100866	69	Clamp Assembly, FRG, STG
P101290	109	Rubber Hump Reducer, 3.5"/3" ID
P101291	109	Rubber Hump Reducer, 4"/3" ID
P101292	109	Rubber Hump Reducer, 4"/3.5" ID
P101293	109	Rubber Hump Reducer, 5"/4" ID
P101294	109	Rubber Hump Reducer, 6"/5.5" ID
P101401	71	Gasket Body/Cup, FW, FH, FR, SB 10" A/C
P101759	87	Inlet Shroud, ST 16" Peripheral A/C
P101891	109	Rubber Hump Reducer, 5.5"/4" ID

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P102025	71	Clamp Assembly, FRG
P102820	109	Rubber Hump Reducer 3" ID/2.5" ID
P102870	87	Inlet Shroud, ST 14" Peripheral A/C
P103198	113	Vacuator Valve 30 Durometer, 3" Dia.
P103516	109	Rubber Hump Reducer, 5.5"/5" ID
P103530	86-88	Dust Cup, Horz w/VacValve, SB/ST 16" RS/Tube A/C
P103827	71	Dust Cup Assembly, FH, FR 10" A/C
P104087	110	Rubber Reducer, 2"/1.5" ID
P104088	110	Rubber Reducer, 2.25"/2" ID
P104089	110	Rubber Reducer, 2.5"/2" ID
P104090	110	Rubber Reducer, 2.5"/2.25" ID
P104691	102	Cover Assembly, PB P/C 6"-7" OD
P104973	87	Dust Cup w/Vac Valve, STG
P105220	113	Vacuator Valve, 60 Durometer
P105529	108	Rubber 90° Elbow, 2" ID
P105530	108	Rubber 90° Elbow, 2.25" ID
P105531	108	Rubber 90° Elbow, 2.5" ID
P105532	108	Rubber 90° Elbow, 3" ID
P105533	108	Rubber 90° Elbow, 4" ID
P105534	108	Rubber 90° Elbow, 5.5" ID
P105535	108	Rubber 90° Elbow, 6" ID
P105536	108	Rubber 90° Elbow, 7" ID
P105541	109	Rubber 45° Elbow, 2" ID
P105542	109	Rubber 45° Elbow, 2.25" ID
P105543	109	Rubber 45° Elbow, 2.5" ID
P105544	109	Rubber 45° Elbow, 3" ID
P105545	109	Rubber 45° Elbow, 4" ID
P105546	109	Rubber 45° Elbow, 5.5" ID
P105547	109	Rubber 45° Elbow, 6" ID
P105548	109	Rubber 45° Elbow, 7" ID
P105608	110	Rubber Straight Hump, 3" ID
P105609	110	Rubber Straight Hump, 4" ID
P105610	110	Rubber Straight Hump, 5" ID
P105611	110	Rubber Straight Hump, 5.5" ID
P105612	110	Rubber Straight Hump, 6" ID
P105613	110	Rubber Straight Hump, 7" ID
P105622	107	Remote Mnt, 90° Elb Rest Tap. Fitting
P105738	66	Retaining Clip, SR, FV & FT A/C
P105740	66	Gasket Washer, SR, FV & ST A/C
P106071	71	Clamp Assembly, FW, FH, FW, FR 10" A/C
P106329	71	Air Cleaner Baffle Assembly, FRG
P106593	113	Vacuator Valve 60 Durometer
P106637	71	Air Cleaner Baffle Assembly
P106771	71	Air Cleaner Baffle Assembly
P106952	71	Dust Cup/Cover
P107375	82	Quick Release Dust Cup, SB, SR, ST A/C
P107377	86-88	Quick Release Dust Cup, SB, ST 16" A/C
P107844	108	Rubber 90° Elbow, 5" ID
P109021	109	Rubber 45° Elbow, 5" ID
P109062	87	Wing Nut
P109107	74	Pin

Part No.	Page No.	Product Description
P109153	86-88	Cover Assembly, ST 16" A/C
P109296	71	Vacuator Dust Cup
P109297	71	Vacuator Dust Cup
P109331	109	Rubber 45° Elbow, 3.5" ID
P110875	87	Air Cleaner Body Assembly
P111414	110	Rubber Straight Hump, 10" ID
P112605	108	Rubber 90° Elbow, 8" ID
P112606	109	Rubber 45° Elbow, 8" ID
P112607	109	Rubber Hump Reducer, 10"/8" ID
P112608	110	Rubber Straight Hump, 8" ID
P112609	109	Rubber Hump Reducer, 8"/7" ID
P112610	109	Rubber Hump Reducer, 7"/6" ID
P112611	109	Rubber Hump Reducer, 6"/5" ID
P112789	87-88	Gasket, Quick Release Dust Cup
P112803	113	Vacuator Valve 40 Durometer
P113733	108	Rubber 90° Elbow, 4.5" ID
P114313	109	Rubber 45° Elbow, 10" ID
P114314	108	Rubber 90° Elbow, 10" ID
P114315	109	Rubber Hump Reducer, 8"/6" ID
P114316	109	Rubber 45° Elbow, 4.5" ID
P114318	108	Rubber 90° Elbow, 3.5" ID
P114931	86-88	Filter, safety
P115023	87	Lower Body Assembly, ST, SB 16" RS A/C
P115070	87-88	Filter, safety
P115096	80-82	Gasket, Body for SSG, SRG AC
P115098	80-82	Gasket, Body for SSG, SRG AC
P115110	80-82	SRG, SSG AC lower body assembly
P115200	112	Clamp, Hose-type Lined
P115201	112	Clamp, Hose-type Lined
P115202	112	Clamp, Hose-type Lined
P115203	112	Clamp, Hose-type Lined
P115204	112	Clamp, Hose-Type Lined High Torque
P115205	112	Clamp, Hose-Type Lined High Torque
P115206	112	Clamp, Hose-Type Lined High Torque
P115207	112	Clamp, Hose-Type Lined High Torque
P115208	112	Clamp, Hose-Type Lined High Torque
P115209	112	Clamp, Hose-Type Lined High Torque
P116175	74	Wing Nut for FV A/C
P116446	74	Filter, safety
P117724	108	Rubber 90° Elbow Reducer, 5.5"/6" ID
P117781	87-88	Filter, safety
P117785	80-82	Lower Body Assembly, SSG, SRG A/C
P117791	80-82	Gasket, SR, SSG A/C
P118552	80-82	SSG AC lower body assembly
P119325	39	Nut, Plastic for E Series A/C
P119370	87	Filter, safety
P119371	87	Filter, safety
P119463	39	Bolt
P119874	82	Intake/Rain Shield for SS, SR 29" A/C
P119875	82	Intake/Rain Shield for SS, SR 29" A/C
P119876	80-82	Rain shroud, front
P119877	82	Intake/Rain Shield for SS, SR 29" A/C

Part No.	Page No.	Product Description
P120279	71	Cover
P120604	45	Gasket, Cover
P121067	71	Clamp Assembly, FH, FR 12" A/C
P121482	108	Rubber 90° Elbow Reducer, 4"/5" ID
P122067	107	Restriction Tap Filter Fitting
P123462	108	Rubber 90° Elbow Reducer, 3"/3.5" ID
P124860	74	Filter, safety
P124866	74	Filter, safety
P124867	74	Filter, primary
P126530	109	Rubber Hump Reducer, 7"/5.5" ID
P128408	87	Filter, safety
P128990	108	Rubber 90° Elbow Reducer, 5.5"/7" ID
P129396	41	Filter, primary, treated
P129469	39	Retaining Ring
P129472	41	Filter, primary, treated
P129660	109	Rubber Hump Reducer, 8"/5.5" ID
P133338	109	Rubber 45° Elbow Reducer, 5.5"/6" ID
P133339	109	Rubber 45° Elbow Reducer, 6"/7" ID
P134534	107	Water Manometer Kit
P136494	109	Rubber Hump Reducer, 7"/5" ID
P140822	41	Filter, primary
P141228	41	Filter, primary
P142100	45	Filter, primary, no cover
P143422	112	Clamp, Lined Hose-Type
P143895	108	Rubber 90° Elbow Reducer, 5"/6" ID
P148043	45	Filter, primary, treated
P148044	45	Filter, primary, no cover, treated
P148337	112	Clamp, T-bolt, 2" ID
P148338	112	Clamp, T-bolt, 2.25" ID
P148339	112	Clamp, T-bolt, 2.5" ID
P148340	112	Clamp, T-bolt, 2.75" ID
P148341	112	Clamp, T-bolt, 3" ID
P148342	112	Clamp, T-bolt, 3.5" ID
P148343	112	Clamp, T-bolt, 4" ID
P148344	112	Clamp, T-bolt, 4.5" ID
P148345	112	Clamp, T-bolt, 5" ID
P148346	112	Clamp, T-bolt, 5.5" ID
P148347	112	Clamp, T-bolt, 6" ID
P148348	112	Clamp, T-bolt, 7" ID
P148349	112	Clamp, T-bolt, 8" ID
P148350	112	Clamp, T-bolt, 10" ID
P149099	113	Vacuator Valve, 1" EBA, EBB A/C
P150692	45	Filter, primary, no cover
P150693	45	Filter, primary, attached cover
P150694	45	Filter primary
P150695	45	Filter primary
P150862	45	Access Cover, ECG Konepac 11" A/C
P151097	45	Filter, primary
P153551	45	Filter primary, attached cover
P154575	45	Filter primary, no cover, treated
P154927	30-31	Air Cleaner, ECO®-II
P155211	39	Gasket, Cover

Part No.	Page No.	Product Description
P155264	39	Gasket, Cover
P158089	80-82	SSG AC, dust cup
P158324	102	Bowl Assembly, PB 7" OD, P/C
P158914	113	Vacuator Valve
P159820	108	Rubber 90° Elbow Reducer, 7"/5" ID
P181015	46	Filter, primary - SM
P181028	46	Filter, primary - SM
P181038	87-88	Filter, primary - SM
P181039	96	Filter, primary - SM
P181040	87-88	Filter, primary - SM
P181041	87	Filter, primary - SM
P181042	87	Filter, primary - SM
P181043	74	Filter, primary - SM
P181044	87	Filter, primary - SM
P181049	74	Filter, primary - SM
P181099	46	Filter, primary - SM
P182015	46	Filter, primary
P182028	46	Filter, primary
P182038	87-88	Filter, primary
P182039	96	Filter, primary - ES
P182040	87-88	Filter, primary
P182041	87	Filter, primary
P182042	87	Filter, primary
P182043	74	Filter, primary
P182044	87	Filter, primary
P182049	74	Filter, primary
P182099	46	Filter, primary
P206849	119	Aluminum Intake Tubing
P206850	119	Aluminum Intake Tubing
P206851	119	Aluminum Intake Tubing
P207367	119	Aluminum Intake Tubing
P207368	119	Aluminum Intake Tubing
P207369	119	Aluminum Intake Tubing
P224684	119	Aluminum Intake Tubing
P224691	119	Aluminum Intake Tubing
P521639	107	Restriction Tap Sleeve, 5"
P521641	107	Restriction Tap Sleeve, 6"
P522133	71	Cover, FRG
P522439	103	Mounting Band Bright, 13" ID
P522958	113	Vacuator Valve, 2"
P523096	35	Cover, EPG
P524552	103	Mounting Band, Bright Stainless, EB 15" AC
P524837	30-31	Air Cleaner, ECO®-II
P524838	30-31	Air Cleaner, ECO®-II
P525956	113	Vacuator Valve, 1"
P526676	71	Cover Gasket, FRG
P527435	35	Thumb Screw
P527484	35	Filter, primary - SM
P527586	30-31	Air Cleaner, ECO®-CM
P527680	35	Filter, safety
P527682	35	Filter, primary - SM
P527683	35	Filter, safety
P528722	30-31	Air Cleaner, ECO®-II

Part No.	Page No.	Product Description
P529151	35	Cover, EPG
P532503	71	Filter, primary
P532504	71	Filter, safety
P532919	112	Clamp, Lined Hose-Type
P532920	112	Clamp, Lined Hose-Type
P532921	112	Clamp, Lined Hose-Type
P532922	112	Clamp, Lined Hose-Type
P532923	112	Clamp, Lined Hose-Type
P532924	112	Clamp, Lined Hose-Type
P532925	112	Clamp, Constant Torque Hose-Type
P532926	112	Clamp, Constant Torque Hose-Type
P532927	112	Clamp, Constant Torque Hose-Type
P532928	112	Clamp, Constant Torque Hose-Type
P532929	112	Clamp, Constant Torque Hose-Type
P532943	111	Silicone 4-ply Bellows
P532944	111	Silicone 4-ply Bellows
P532945	111	Silicone 4-ply Bellows
P532948	111	Silicone Charged Air Connector
P532949	111	Silicone Charged Air Connector
P532950	111	Silicone Charged Air Connector
P532951	111	Silicone Charged Air Connector
P532952	111	Silicone Charged Air Connector
P532953	111	Silicone Charged Air Connector
P532954	111	Silicone Charged Air Connector
P532956	111	Silicone Charged Air Connector
P532957	111	Silicone Charged Air Connector
P532958	111	Silicone Charged Air Connector
P532959	111	Silicone Charged Air Connector
P532960	111	Silicone Hump Hose Connector
P532961	111	Silicone Hump Hose Connector
P532962	111	Silicone Hump Hose Connector
P532966	71	Filter, primary
P533685	35	Cover Assembly, EPG
P533761	35	Cover Assembly, EPG
P533781	71	Filter, safety
P533890	35	Filter, safety
P533916	35	Service Cover, EPG
P533930	35	Filter, primary
P534048	64	Cover Assembly, FPG
P535396	64	Filter, safety
P535559	39	Gasket, Cover
P535571	111	Silicone 4-ply Bellows
P535572	111	Silicone 4-ply Bellows
P535573	111	Silicone 4-ply Bellows
P536163	108	Rubber 90° Elbow Reducer, 3"/4" ID
P536202	64	Cover Assembly
P536439	71	Latch
P536457	71	Filter, primary
P536492	71	Filter, safety
P536493	35	Gasket, Cover
P537308	71	Cover Gasket
P537447	30-31	Air Cleaner, ECOLITE®
P537448	30-31	Air Cleaner, ECOLITE®
P537449	30-31	Air Cleaner, ECOLITE®

Part No.	Page No.	Product Description
P537450	30-31	Air Cleaner, ECO®-CM
P537451	30-31	Air Cleaner, ECO®
P537452	30-31	Air Cleaner, ECO®
P537453	30-31	Air Cleaner, ECO®
P537454	30-31	Air Cleaner, ECO®
P537455	30-31	Air Cleaner, ECO®-SM
P537456	30-31	Air Cleaner, ECO®-SM
P537468	108	Rubber 90° Elbow Reducer, 5"/6" ID
P537699	71	Gasket Cover
P537791	45	Filter primary attached black cover
P537876	71	Filter, primary
P537877	71	Filter, safety
P538200	71	Cover Assembly
P538259	71	Cover Assembly
P538452	71	Service Cover
P538928	64	Cover Latch
P539422	64	Cover Assembly
P542475	39	Cover
P544238	39	Cover
P544243	39	Filter, primary
P544301	39	Filter, primary
P544741	39	Filter, primary
P544744	39	Cover
P544827	39	Cover
P544950	39	Filter, primary
P547694	110	Elbow, 90 Deg, Reducer, Rubber, Cobra Adapter
P549271	71	Filter, primary
P549277	71	Filter, safety
P549523	71	Filter, primary
P549530	71	Filter, safety
P600043	71	Filter, primary
P600047	71	Filter, safety
P600321	71	Cover
P600325	110	Elbow, 90 Deg, Reducer, Rubber, Cobra Adapter
P600326	110	Elbow, 90 Deg, Reducer, Rubber, Cobra Adapter
P600327	110	Elbow, 90 Deg, Reducer, Rubber, Cobra Adapter
P600328	110	Elbow, 90 Deg, Reducer, Rubber, Cobra Adapter
P600657	71	Cover
P600975	35	Filter, safety
P601280	71	Filter, primary
P601286	71	Filter, safety
P601437	71	Filter, primary
P601476	71	Filter, safety
P601560	35	Filter, safety
P601767	71	Filter, primary
P601774	71	Filter, safety
P601790	71	Filter, primary
P602211	71	Baffle Assembly
P602427	51	Filter, safety
P603504	80-82	Body gasket strips (two, short)

Part No.	Page No.	Product Description
P603505	80-82	Lower body assembly
P603716	80-82	Cover
P603729	51	Filter, safety
P604457	51	Filter, primary
P605731	51	Cover
P606121	35	Filter, safety
P606122	23	Ford PowerCore Air Filter
P606497	51	Cover
P607373	30-31	Air Cleaner, ECO®
P607557	35	Filter, safety
P608116	56	Filter, primary (metal liner)
P608117	56	Cover
P608171	35	Cover
P608180	35	Cover
P608305	80-82	Filter, safety radial seal
P608306	80-82	Filter, primary radial seal
P608391	56	Filter, safety
P608533	35	Filter, primary
P608592	51	Cover
P608599	51	Filter, safety
P608665	35	Filter, primary
P608666	35	Filter, primary
P608667	35	Filter, primary
P608675	35	Filter, primary
P608676	35	Filter, primary
P608677	35	Filter Primary
P609218	51	Filter Primary
P609219	51	Cover
P609221	51	Filter Primary
P609508	80-82	Lower body assembly
P609518	80-82	Filter, safety radial seal
P609519	80-82	filter, primary radial seal
P609550	35	Cover
P609552	35	Cover
P609942	56	Cover
P610776	80-82	Rain shroud, right side
P610777	80-82	Rain shroud, left side
P611189	51	Filter, safety
P611190	56	Filter, primary (metal liner)
P611539	56	Filter, primary (metal liner)
P611540	56	Filter, safety
P613679	30-31	Air Cleaner, ECO®
P776008	113	Vacuator Valve
P776033	35	Latch
P777151	61	Mounting Band, plastic, FPG 04
P777366	19	Latch
P777639	71	Filter, safety
P777730	61	Mounting Band, plastic
P777731	61	Mounting Band, plastic
P777732	61	Mounting Band, polymer
P777868	71	Filter, primary
P777869	71	Filter, safety
P777920	71	Cover
P778810	61	Mounting Band, polymer

Part No.	Page No.	Product Description
P780522	64	Filter, primary
P780523	64	Filter, safety
P780532	61	Mounting Band, FPG Twist off cover
P780594	61	Mounting Band, FPG Twist off cover
P781039	71	Filter, primary
P781098	71	Filter, primary
P781102	71	Filter, safety
P783185	71	Cover
P784279	35	Cover
P784298	35	Cover
P784517	35	U-clip (4 clips)
P821575	64	Filter, primary
P822686	64	Filter, primary
P822768	64	Filter, primary
P822769	64	Filter, safety
P822858	64	Filter, safety
P827653	64	Filter, primary
P828889	64	Filter, primary
P829332	64	Filter, safety
P829333	64	Filter, safety
S000011	119	Breather, 1/4" NPT
S000067	119	Breather, 1.50" ID
S000072	119	Breather, 1/2" NPT
S000080	119	Breather, 3/4" NPT
S000099	119	Breather, 2" NPT
S000183	119	Breather, 1" NPT
X001744	119	Air Stack Extension
X001746	119	Air Stack Extension
X001747	119	Air Stack Extension
X001966	98	Inlet Hood, metal, 2.5" OD
X001988	98	Inlet Hood, metal, 3.75" OD
X002014	98	Inlet Hood, metal, 3" OD
X002015	98	Inlet Hood, metal, 4" OD
X002017	98	Inlet Hood, metal, 1.75" OD
X002018	98	Inlet Hood, metal, 2" OD
X002019	98	Inlet Hood, metal, 2.25" OD
X002101	105	Restriction Gauge Kit, Informer, 30" Limit
X002102	105	Restriction Gauge Kit, Informer, 25" Limit
X002103	105	Restriction Gauge Kit, Informer, 20" Limit
X002215	106	Restriction Indicator, 15" Limit
X002220	106	Restriction Indicator, 20" Limit
X002225	106	Restriction Indicator, 25" Limit
X002230	106	Restriction Indicator, 30" Limit
X002250	105	Restriction Indicator, ServiSignal, 15" Limit
X002251	105	Restriction Indicator, ServiSignal, 20" Limit
X002252	105	Restriction Indicator, ServiSignal, 25" Limit
X002254	105	Restriction Indicator, ServiSignal, 30" Limit
X002275	105	Restriction Gauge, Informer, 30" Limit

Part No.	Page No.	Product Description
X002277	105	Restriction Gauge, Informer, 25" Limit
X002278	105	Restriction Gauge, Informer, 20" Limit
X002315	106	Restriction Indicator Kit, 15" Limit
X002320	106	Restriction Indicator Kit, 20" Limit
X002325	106	Restriction Indicator Kit, 25" Limit
X002330	106	Restriction Indicator Kit, 30" Limit
X002350	105	Restriction Indicator Kit, SERVISIGNAL, 15" Limit
X002351	105	Restriction Indicator, ServiSignal, 20" Limit
X002352	105	Restriction Indicator, ServiSignal, 25" Limit
X002354	105	Restriction Indicator, ServiSignal, 30" Limit
X002700	107	Restriction Gauge Kit, 60" H2O
X002730	107	Restriction Gauge Kit, 30" H2O
X003538	87	Gasket Kit, ST 14" Tube/Peripheral
X003539	87	Gasket Kit, ST 16" Tube/Peripheral
X003691	121	Moisture Eliminator, Vertical, 7" Dia.
X003903	107	Restriction In-Field Service Gauge Kit
X004814	106	Indicator, Safety Signal, 7/16"-20" UNF
X004815	106	Indicator, Safety Signal, 7/16"-20" UNF
X004816	106	Indicator, Safety Signal, 1/2"-13 UNF
X005555	87	Latch Repair Kit
X005822	121	In-Line Moisture Skimmer, 6" Dia.
X005900	121	In-Line Moisture Skimmer, 7" Dia.
X005901	121	In-Line Moisture Skimmer, 7" Dia.
X006201	35	Latch Repair Kit
X006452	35	Fastener Kit
X006561	114	Drop Down Tube Extension Kit
X006562	114	Drop Down Tube Extension
X007275	105	Mini-Informer Kit, 20" H2O
X007276	105	Mini-Informer Kit, 25" H2O
X007277	105	Mini-Informer Kit, 30" H2O
X007335	105	Mini-Informer, Restriction Indicator, 25" H2O
X007953	23	Ford PowerCore Air Induction Retrofit Kit
X009230	90	SRG/SSG Conversion Kit
X009231	90	SRG/SSG Conversion Kit
X009291	45	Latch Replacement Kit
X009701	90	SRG/SSG Conversion Kit
X009702	90	SRG/SSG Conversion Kit
X770037	106	Restriction Electrical Indicator, 15" Limit
X770050	106	Restriction Electrical Indicator, 20" Limit
X770062	106	Restriction Electrical Indicator, 25" Limit
X770075	106	Restriction Electrical Indicator, 20" Limit

The information below is the air and intake portion of our Engine Aftermarket Filtration & Exhaust Warranty Document: F110064 (February 2006)

Donaldson warrants its Aftermarket products against failure due to defects in materials and workmanship for the period specified under Terms and Conditions for the particular product. Donaldson's obligation under this warranty covers replacing the failed product, including transportation charges, only. If the Donaldson product failure is the sole and direct cause of damage to the equipment on which the product was properly installed, Donaldson will reimburse reasonable costs to restore the equipment to the condition it was in immediately before the failure. This warranty does not cover failure due to misapplication, misuse, abuse, neglect, rust through and corrosion (mufflers), improper service practices or non-Donaldson approved modifications. Engine and equipment manufacturers warranties remain in effect when Donaldson products are used.

Donaldson must be notified in writing of any claims covered by this warranty within one year of the date of failure. Donaldson, at its discretion, will either physically visit the site where the alleged failure has been found; or, request that all parts, Donaldson and other relevant parts, be shipped prepaid to its General Office, in care of the Product Lab or as otherwise specified.

Terms & Conditions

Warranty coverage begins on the date and mileage the product is purchased by the user and expires when the specified number of years or miles has passed, whichever occurs first.

The length of warranty for replacement products provided under warranty coverage is the balance of the warranty period remaining on the product being replaced.

Warranty Length by Product Type

Filtration Products

Warranty from Date of Delivery to User

Air & Liquid Filters
Air Cleaner Housings & Accessories

Until first cleaned or serviced in any manner
1 Year

Donaldson Engine Aftermarket Warranty for the Americas can also be found on www.donaldson-filters.com. Search for document no F110064



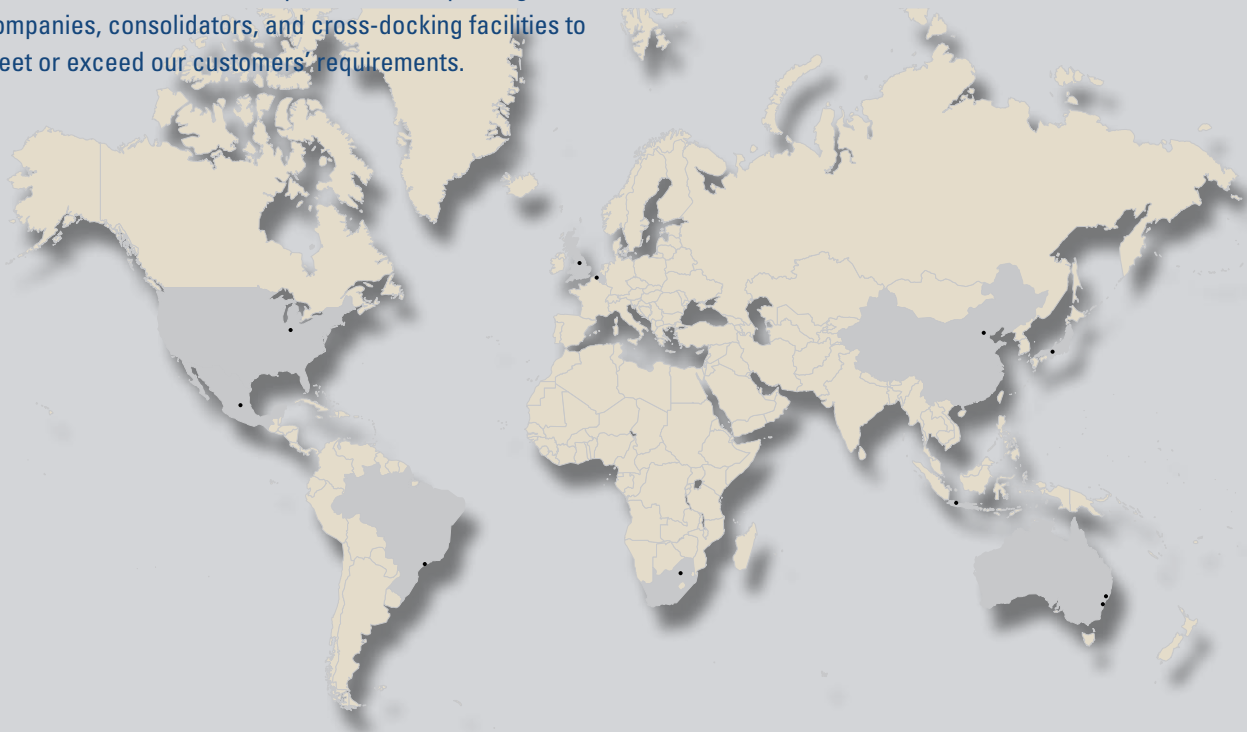


Global Presence with Local Touch

Donaldson has established a global distribution network to serve our customers locally as well as worldwide. We operate as a global company with a network for primary distribution locations that support a mature hub of regional distribution centers and warehouses.

Donaldson distribution centers are strategically located to quickly and accurately deliver filtration and exhaust products wherever replacement products are needed. We work with a network of transportation, third part logistics companies, consolidators, and cross-docking facilities to meet or exceed our customers' requirements.

All regions of the world benefit from our global umbrella of distribution centers. We focus our efforts on local support and the capabilities of our staff. We continue to make significant investments in facilities, systems, supply chain relationships and staffing to offer the best order fulfillment options available.



Donaldson Company, Inc.
PO Box 1299
Minneapolis, MN
55440-1299

North America 800-374-1374
Mexico +52-449-910-6150
Latin Am. & Caribbean +52-449-910-6150
Brazil +55-11-2119-1604
Europe +32-16-38-3811
South Africa +27-11-997-6000

South East Asia 65-6311-7373
Greater China 852-2405-8388
Japan 81-42-540-4112
Australia 61-02-4350-2033
India +91-124-2290060

www.donaldson-filters.com
www.donaldson.com

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