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

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.

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

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

Filter Features
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).

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

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<th>Airflow CFM @</th>
<th>Air Cleaner Model</th>
<th>Weight</th>
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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.

Airflow Pattern “G”

Air in the side, out the end

FRG Specification Illustrations

Style A - Bolt/Clamp Service Cover
## FRG Specifications

<table>
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<tr>
<th>Air Cleaner Models</th>
<th>Body Diameter (A) in</th>
<th>Inlet Diameter (B) in</th>
<th>Outlet Diameter (C) in</th>
<th>Housing Length (D) in</th>
<th>Inlet Location (E) in</th>
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</table>
FRG Air Cleaner

FRG Service Parts

Style A - Bolt/Clamp Service Cover

Access Cover
Body Clamp
Primary Filter
Cover Gasket
Baffle
Vacuator™ Valve
Safety Filter
Air Cleaner Housing
metal body & cover

Style B - Latch Service Cover

Access Cover
Latch
Cover Gasket
some models
Primary Filter
Cover Gasket
molded plastic
Vacuator™ Valve
Safety Filter
Air Cleaner Housing
metal body & polymer endcap

SERVICEnotes:
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
# FRG Service Parts

## G052685 Style A
- clamp: P002904
- cover: P120279
- filter, primary: P00043 \( \ldots \) 3
- filter, safety: P00047 \( \ldots \) 3
- mounting band: P002348 \( \ldots \) 2
- Vacuum Valve: P158914

## G052686 Style A
- clamp: P002904
- cover: P120279
- filter, primary: P00043 \( \ldots \) 3
- filter, safety: P00047 \( \ldots \) 3
- mounting band: P002348 \( \ldots \) 2
- Vacuum Valve: P158914

## G065541 Style A
- clamp: P002940
- cover: P522133
- filter, primary: P549271 \( \ldots \) 3
- filter, safety: P549277 \( \ldots \) 3
- mounting band: P007191 \( \ldots \) 2
- Vacuum Valve: P158914

## G065551 Style A
- clamp: P002940
- cover: P522133
- filter, primary: P549271 \( \ldots \) 3
- filter, safety: P549277 \( \ldots \) 3
- mounting band: P007191 \( \ldots \) 2
- Vacuum Valve: P158914

## G080582 Style A
- clamp: P003951
- cover: P600321
- filter, primary: P601437 \( \ldots \) 3
- filter, safety: P601476 \( \ldots \) 3
- mounting band: P004307 \( \ldots \) 2
- Vacuum Valve: P158914

## G080585 Style A
- clamp: P003951
- cover: P600321
- filter, primary: P601437 \( \ldots \) 3
- filter, safety: P601476 \( \ldots \) 3
- mounting band: P004307 \( \ldots \) 2
- Vacuum Valve: P158914

## G090245 Style A
- clamp: P102025
- cover: P600657
- filter, primary: P601280 \( \ldots \) 3
- filter, safety: P601286 \( \ldots \) 3
- mounting band: P004073 \( \ldots \) 2
- Vacuum Valve: P158914

## G090250 Style A
- clamp: P102025
- cover: P600657
- filter, primary: P601280 \( \ldots \) 3
- filter, safety: P601286 \( \ldots \) 3
- mounting band: P004073 \( \ldots \) 2
- Vacuum Valve: P158914

## G100297 Style B
- dust cup/cover: P538200 \( \ldots \) 8
- filter, primary: P781039 \( \ldots \) 3
- filter, safety: P777639 \( \ldots \) 3
- gasket, cover: P537308
- latch: P777366
- mounting band: P004076 \( \ldots \) 2
- Vacuum Valve: P776008

## G100395 Style A
- baffle, metal: P602211
- clamp: P106071
- dust cup/cover: P103827
- filter, primary: P601790 \( \ldots \) 3
- filter, safety: P777639 \( \ldots \) 3
- o-ring: P101401
- mounting band: P004076 \( \ldots \) 2
- Vacuum Valve: P103198

## G100398 Style A
- baffle, metal: P602211
- clamp: P106071
- dust cup/cover: P103827
- filter, primary: P601790 \( \ldots \) 3
- filter, safety: P777639 \( \ldots \) 3
- o-ring: P101401
- Vacuum Valve: P103198

## G110206 Style B
- cover: P538452 \( \ldots \) 8
- filter, primary: P536457 \( \ldots \) 3
- filter, safety: P536492 \( \ldots \) 3
- gasket, cover: P526676
- latch: P536439
- mounting band: P004079 \( \ldots \) 2
- Vacuum Valve: P158914

## G110214 Style B
- cover: P538452 \( \ldots \) 8
- filter, primary: P536457 \( \ldots \) 3
- filter, safety: P536492 \( \ldots \) 3
- gasket, cover: P526676
- latch: P536439
- mounting band: P004079 \( \ldots \) 2
- Vacuum Valve: P158914

## G120415 Style A
- baffle, metal: P106329
- clamp: P121067
- dust cup/cover: P108926
- filter, primary: P601797 \( \ldots \) 3
- filter, safety: P601774 \( \ldots \) 3
- o-ring: P017804
- mounting band: P0103198

## G120447 Style A
- baffle, metal: P106329
- clamp: P121067
- dust cup/cover: P109296
- filter, primary: P601797 \( \ldots \) 3
- filter, safety: P601774 \( \ldots \) 3
- o-ring: P017804
- mounting band: P0103198

## G130097 Style B
- cover: P538259 \( \ldots \) 8
- filter, primary: P537876 \( \ldots \) 3
- filter, safety: P537877 \( \ldots \) 3
- gasket, cover: P537699
- latch: P776003
- mounting band: P013722 \( \ldots \) 2
- Vacuum Valve: P776008

## G130107 Style B
- cover: P538259 \( \ldots \) 8
- filter, primary: P532503 \( \ldots \) 3
- filter, safety: P532504 \( \ldots \) 3
- gasket, cover: P537699
- latch: P776003
- mounting band: P013722 \( \ldots \) 2
- Vacuum Valve: P776008

## G140523 Style A
- baffle, metal: P106771
- clamp: P108926
- dust cup/cover: P109297
- filter, primary: P532503 \( \ldots \) 3
- filter, safety: P532504 \( \ldots \) 3
- mounting band: H000350 \( \ldots \) 2
- o-ring: P017335
- Vacuum Valve: P103198

## G140526 Style A
- baffle, metal: P106771
- clamp: P108926
- dust cup/cover: P109297
- filter, primary: P532503 \( \ldots \) 3
- filter, safety: P532504 \( \ldots \) 3
- o-ring: P017335
- Vacuum Valve: P103198

## G150092 Style B
- cover: P777820 \( \ldots \) 8
- filter, primary: P777868 \( \ldots \) 3
- filter, safety: P777869 \( \ldots \) 3
- latch: P776003
- mounting band: P016845 \( \ldots \) 2
- Vacuum Valve: P776008

## G160679 Style A
- baffle, metal: P106637
- clamp: P100079
- dust cup/cover: P106932
- filter, primary: P549523 \( \ldots \) 3
- filter, safety: P549530 \( \ldots \) 3
- mounting band: H000351 \( \ldots \) 2
- o-ring: P017338
- Vacuum Valve: P103198

## G180031 Style B
- cover: P783185
- filter, primary: P781039 \( \ldots \) 3
- filter, safety: P781102 \( \ldots \) 3
- mounting band: H770037 \( \ldots \) 2
- Vacuum Valve: P105220

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Engine Air Cleaners, Accessories & Service Parts • 71