Superior Protection for Larger Engines
RadialSeal™ Sealing Technology Means Reliable Filtration and Quicker Service

The Donaldson two-stage FRG RadialSeal™ air cleaners provide improved reliability, better durability and reduced weight compared to axial seal style air cleaner designs. Choose from more than 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.

Try PowerPleat™ for 11” Style B and 13” Style B. See page 53.

Donaldson FRG Air Cleaners and Duramax hydraulics filters deliver superior filtration to pump-and-engine rigs used in the oil and gas industry.

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 1390 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
- Recommended Vacuator Valve orientation angle is ± 30°
- 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 RadialSeal™ filter inside the air cleaner is also quite different from Axial filters. Its one-piece, molded urethane endcaps encase the filter media and liners, thereby reducing the number of components and increasing sealing reliability.

The inside surface of the filter’s open end is the sealing surface, which eliminates the glued-on gasket found on the metal end cap of Axial filters. For added engine protection during filter service, consider a model with a safety filter.

High efficiency, extended service, Donaldson Blue® filters are available on some models (see service parts list on pages 134 and 135 for part numbers)

Accessories
Donaldson intake accessories for your FRG Air Cleaner can help overcome or prevent various problems. For instance:
- If the installed air cleaner will be exposed to rain, snow or debris, an inlet cap can prevent moisture ingestion.
- A filter service indicator measures the airflow restriction across the filter and indicates when to replace the filter (see Accessories section of this catalog).
- Mounting bands for FRGs must be ordered separately

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 continuously ensure maximum torque pressure.
- Dimensional information for mounting bands can be found in the accessories section.
When Selecting 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 lower restriction will provide longer filter service life. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, and pre-cleaners. See pages 257-258 for ducting restriction estimates.

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FRG Air Cleaner Performance Curves (Restriction & Dust Capacity)*

*Results generated using laboratory testing pursuant to ISO5011. Actual performance during use may vary depending on multiple factors, including specific product configuration, external conditions and application.
continued — FRG Air Cleaner Performance Curves (Restriction & Dust Capacity)
continued — FRG Air Cleaner Performance Curves (Restriction & Dust Capacity)

**G100297 - Style B**

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continued — FRG Air Cleaner Performance Curves (Restriction & Dust Capacity)

**FRG Air Cleaners**

**MEDIUM DUST AIR CLEANERS**

Engine Air Filtration

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FRG Air Cleaners

MEDIUM DUST AIR CLEANERS

Engine Air Filtration

FRG Air Cleaners

FRG Specification Illustrations

Style B — Latch Service Cover (Style A on next page)

FRG Specifications (Style B)

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STYLE B - LATCH SERVICE COVER

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**FRG Air Cleaners**

**FRG Specification Illustrations**

Style A — Bolt/Clamp Service Cover

---

**FRG Specifications (Style A)**

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FRG Air Cleaners

FRG Service Parts

**Style A — Bolt/Clamp Service Cover**

- Access Cover
- Body Clamp
- Primary Filter
- Safety Filter
- Cover Gasket
- Baffle
- Vacuum™ Valve

**Style B — Latch Service Cover**

- Latch
- Cover Gasket (some models)
- Primary Filter
- Safety Filter
- Access Cover (molded plastic)
- Vacuum™ Valve

**FRG Service Parts & Accessories**

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<tr>
<td>Vacuum™ Valve</td>
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**SERVICE PARTS NOTES:**
- 2 = Two required for proper installation
- 3 = Shipped with air cleaner initially
- 8 = Cover assembly includes latches but no Vacuum™ Valve
- Donaldson Blue® = High Efficiency, Extended Service
## FRG Air Cleaners

### G065541 FRG Style A
- Clamp: P002940
- Cover: P522133
- Elbow, 45°: P105544
- Elbow, 90°: P105532
- Elbow, 90° reducing: P123462
- Filter, primary: P549271
- Filter, safety: P549273
- Hose, P105608
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, plastic: H001379
- Mounting band: P007191
- Outlet band clamp: P148341
- Vacuator™ Valve: P158914

### G065551 FRG Style A
- Clamp: P002940
- Cover: P522133
- Elbow, 45°: P105544
- Elbow, 90°: P105532
- Elbow, 90° reducing: P123462
- Filter, primary: P549271
- Filter, safety: P549277
- Hose, P105608
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, plastic: H001379
- Mounting band: P007191
- Outlet band clamp: P148341
- Vacuator™ Valve: P158914

### G080582 FRG Style A
- Clamp: P003951
- Cover: P600321
- Elbow, 45°: P109331
- Elbow, 90°: P114318
- Filter, primary-Donaldson Blue®: DBA5223
- Filter, primary: P601437
- Filter, safety: P601476
- Hose, P114319
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, plastic: H000466
- Mounting band: P004307
- Outlet band clamp: P148342
- Vacuator™ Valve: P158914

### G080855 FRG Style A
- Cover: P600321
- Elbow, 45°: P109331
- Elbow, 90°: P114318
- Filter, primary-Donaldson Blue®: DBA5223
- Filter, primary: P601437
- Filter, safety: P601476
- Hose: P114319
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, plastic: H000466
- Mounting band: P004307
- Outlet band clamp: P148342
- Vacuator™ Valve: P158914

### G090245 FRG Style A
- Clamp: P102025
- Cover: P600567
- Elbow, 45°: P105545
- Elbow, 90°: P105533
- Elbow, 90° reducing: P121482
- Filter, primary-Donaldson Blue®: DBA5224
- Filter, primary: P601280
- Filter, safety: P601286
- Hose, P105609
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, plastic: H000468
- Mounting band: P004073
- Outlet band clamp: P148343
- Vacuator™ Valve: P158914

### G090250 FRG Style A
- Cover: P600567
- Elbow, 45°: P105545
- Elbow, 90°: P105533
- Elbow, 90° reducing: P121482
- Filter, primary-Donaldson Blue®: DBA5224
- Filter, primary: P601280
- Filter, safety: P601286
- Hose, P105609
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, plastic: H000468
- Mounting band: P004073
- Outlet band clamp: P148343
- Vacuator™ Valve: P158914

### G100297 FRG Style B
- Cover: P538200
- Elbow, 45°: P105545
- Elbow, 90°: P105533
- Elbow, 90° reducing: P121482
- Filter, primary-Donaldson Blue®: DBA5228
- Filter, primary: P781039
- Filter, safety: P777638
- Gasket, cover: P537308
- Hose, P105609
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, plastic: H000466
- Latch: P777386
- Mounting band: P004079
- Outlet band clamp: P148343
- Vacuator™ Valve: P776008

### G101039 FRG Style A
- Baffle, metal: P602211
- Clamp: P106071
- Dust cup/cover: P103827
- Elbow, 45°: P109021
- Elbow, 90°: P107844
- Elbow, 90° reducing: P143985
- Filter, primary-Donaldson Blue®: DBA5222
- Filter, primary: P601790
- Filter, safety (optional): P777639
- Hose, P105610
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, metal: H000170
- Inlet hood, plastic: H000468
- Mounting band: P004076
- O-ring: P101401
- Outlet band clamp: P148345
- Vacuator™ Valve: P103198

### G101038 FRG Style A
- Baffle, metal: P602211
- Clamp: P106071
- Dust cup/cover: P103827
- Elbow, 45°: P109021
- Elbow, 90°: P107844
- Elbow, 90° reducing: P143985
- Filter, primary-Donaldson Blue®: DBA5222
- Filter, primary: P601790
- Filter, safety (optional): P777639
- Hose, P105610
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, metal: H000170
- Inlet hood, plastic: H000468
- Mounting band: P004076
- O-ring: P101401
- Outlet band clamp: P148345
- Vacuator™ Valve: P103198

### G110206 FRG Style B
- Cover: P538452
- Elbow, 45°: P114316
- Elbow, 90°: P113733
- Filter, primary-Donaldson Blue®: DBA5105
- Filter, primary: P532986
- Filter, safety: P532971
- Gasket, cover: P526676
- Hose, P114317
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, metal: H000165
- Inlet hood, plastic: H000469
- Latch: P536439
- Mounting band: P004079
- Outlet band clamp: P148345
- Vacuator™ Valve: P158914

### G110214 FRG Style B
- Cover: P538452
- Elbow, 45°: P114316
- Elbow, 90°: P113733
- Filter, primary-Donaldson Blue®: DBA5230
- Filter, primary: P536457
- Filter, safety: P536492
- Gasket, cover: P526676
- Hose, P114317
- Informer™ indicator 25° H₂O: X002277
- Inlet hood, metal: H000170
- Inlet hood, plastic: H000468
- Latch: P536439
- Mounting band: P004079
- Outlet band clamp: P148345
- Vacuator™ Valve: P158914
## FRG Air Cleaners

### MEDIUM DUST AIR CLEANERS

#### G120415 FRG Style A
- Baffle, metal ........................................ P106329
- Clamp ................................................ P121067
- Dust cup/cover ...................................... P109296
- Elbow, 45° .......................................... P109021
- Elbow, 90° .......................................... P107844
- Elbow, 90° reducing .............................. P143895
- Filter, primary-Donaldson Blue® .... DBA5221
- Filter, primary ...................................... P537699
- Mounting band ..................................... H000349
- O-ring ................................................ P017335
- Outlet band clamp .................................. P148345
- Vacuator™ Valve .................................... P103198

#### G130097 FRG Style B
- Cover ................................................. P538259
- Clamp ................................................ P109021
- Dust cup/cover ...................................... P109021
- Elbow, 45° .......................................... P107844
- Elbow, 90° .......................................... P109021
- Filter, primary-Donaldson Blue® .... DBA5221
- Filter, primary ...................................... P537699
- Inlet hood, metal .................................... H000349
- O-ring ................................................ P017335
- Outlet band clamp .................................. P148345
- Vacuator™ Valve .................................... P103198

#### G140523 FRG Style A
- Baffle, metal ........................................ P106771
- Clamp ................................................ P100866
- Dust cup/cover ...................................... P109297
- Elbow, 45° .......................................... P105547
- Elbow, 90° .......................................... P105535
- Filter, primary-Donaldson Blue® .... DBA5221
- Filter, primary ...................................... P537699
- Inlet hood, metal .................................... H000349
- O-ring ................................................ P017335
- Outlet band clamp .................................. P148345
- Vacuator™ Valve .................................... P103198

#### G140526 FRG Style A
- Baffle, metal ........................................ P143895
- Clamp ................................................ P109297
- Dust cup/cover ...................................... P109297
- Elbow, 45° .......................................... P105547
- Elbow, 90° .......................................... P105535
- Filter, primary-Donaldson Blue® .... DBA5221
- Filter, primary ...................................... P537699
- Inlet hood, metal .................................... H000349
- O-ring ................................................ P017335
- Outlet band clamp .................................. P148345
- Vacuator™ Valve .................................... P103198

#### G150092 FRG Style B
- Cover ................................................. P777920
- Elbow, 45° .......................................... P105547
- Elbow, 90° .......................................... P105535
- Filter, primary-Donaldson Blue® .... DBA5116
- Filter, primary ...................................... P777869
- Inlet hood, metal .................................... H000349
- O-ring ................................................ P017335
- Outlet band clamp .................................. P148345
- Vacuator™ Valve .................................... P776008

#### G160679 FRG Style A
- Baffle, metal ........................................ P106637
- Clamp ................................................ P100866
- Dust cup/cover ...................................... P106952
- Elbow, 45° .......................................... P105548
- Elbow, 90° .......................................... P105536
- Filter, primary-Donaldson Blue® .... DBA5229
- Filter, primary ...................................... P537699
- Inlet hood, metal .................................... H000349
- O-ring ................................................ P017335
- Outlet band clamp .................................. P148345
- Vacuator™ Valve .................................... P103198

#### G180031 FRG Style B
- Cover ................................................. P781102
- Elbow, 45° .......................................... P112609
- Elbow, 90° .......................................... P112605
- Filter, primary-Donaldson Blue® .... DBA5158
- Filter, primary ...................................... P781098
- Filter, safety ........................................ P781097
- Inlet hood, metal .................................... H000349
- O-ring ................................................ P017335
- Outlet band clamp .................................. P148345
- Vacuum Valve ...................................... P103198

#### SERVICE PARTS NOTES:
- 2 = Two required for proper installation
- 3 = Shipped with air cleaner initially
- 7 = Included with each replacement filter
- 8 = Cover assembly includes latches, but no Vacuum Valve.

Donaldson Blue® = High Efficiency, Extended Service
This servicing information is provided as a best practices guide. It is not intended to replace or supersede the service instructions supplied by your engine or vehicle manufacturer.

1. **Check the Restriction**
   Replace the filter only when the restriction level has reached the maximum recommended by the engine or equipment manufacturer or on a regular service schedule.

2. **Remove the Primary Filter and check the Vacuator™ Valve**
   Shut off the engine. Unfasten or unlatch the service cover.

   Because of its RadialSeal™, the filter fits tightly over the outlet tube and 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 is equipped with a Vacuator™ Valve, visually check and physically squeeze it.

3. **Visually Check the Safety Filter and Clean Both Surfaces of the Outlet Tube**
   If your air cleaner has a safety filter, visually check the safety filter in place for signs of damage. Do not remove the safety filter unless it is damaged or due for replacement. Also verify that the safety filter is properly seated in the housing.

   The safety filter should be replaced every three primary filter changes. Use a clean damp cloth to wipe both the filter sealing surface and the inside of the outlet tube. Ensure that the outlet tube sealing area is undamaged.

   Contaminant on the sealing surface could hinder an effective seal and cause leakage. If the safety filter is to be replaced, avoid leaving the outlet tube exposed to the air.

   If there is to be a delay in installing the new safety filter, cover the air cleaner outlet tube to avoid admitting any dust.
4 Inspect the Old Filter
Inspect the old filter for any signs of leaks. A streak of dust on the clean side of the filter is a telltale sign. Eliminate any source of air leaks before installing the new primary filter.

5 Inspect the New Filter
Inspect the new filter for any damage that may have occurred through mishandling. NEVER install a damaged filter. Visually check the inside of the open end, which is the sealing area.

Do not wipe the filter RadialSeal™ area as the new Donaldson RadialSeal filter may have a dry lubricant on the seal to aid installation.

6 Insert the New Filter
First, if you’re servicing the safety filter at this change-out, seat it properly into position before installing the primary filter. Insert new filters carefully. Seat the primary filter by hand, making certain it is inserted completely into the air cleaner housing. To complete a tight seal, apply pressure by hand at the outer rim of the filter, not the flexible center.

No cover pressure is required to hold the seal in place and one should NEVER use the service cover to apply pressure. This could damage the housing and fasteners and void the warranty. If the service cover presses against the filter before the cover is fully in place, remove the cover. With cover off, push the filter farther into the air cleaner by hand and then the cover will go on with no extra force. Once the filter is in place, secure the service cover.
Check Inlet Hoods and Pre-Cleaners
Check any intake hoods and pre-cleaner devices during maintenance routines.

A missing inlet hood will significantly shorten filter life. If your unit had a hood or pre-cleaner originally, make sure you replace it. Check openings and tubes on pre-cleaners to make sure they are not plugged. Replace any units that are damaged. Damaged or dented units will not operate properly.

Check Connectors for Tight Fit
Make sure service indicators are reset and in proper working order.

Check that all mounting bands, clamps, bolts, and connections in the entire air cleaner system are tight.

Check for holes in piping, and repair or replace as needed.

Any leaks in the intake piping will admit dust directly to the engine.