PowerPleat™ Air Cleaners

PowerPleat™ 11, 13 — Protection for Large Equipment
RadialSeal™ technology for quick and easy servicing

Applications
- PowerPleat 11 air cleaner provides up to 437 cfm airflow. The PowerPleat 13 air cleaner provides up to 597 cfm airflow.
- Temperature tolerance: -40 °F to 180 °F / -40 ºC to 83 ºC (Do not install next to turbocharger, muffler, exhaust pipes, or other high-temp components.)

Equipment Types
- Compressors and generator sets.
- Excavators, bulldozers, cranes and large construction.
- On- and off-highway vehicles.
- Marine and offshore equipment.

Air Cleaner Features
- 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.
- Easy to service. No tools needed. Usually done in 5 minutes or less.
- Clockwise and counterclockwise inlet orientation versions available.
- Easy-to-fasten latches secure cover.
- Service indicator port is included.
- Welded-on mounting bracket.
- A plastic inlet hood and stack (up to 18" / 457mm tall) may be added.

Filter Features
- Filters have RadialSeal™ Sealing Technology that creates a reliable, critical seal and makes servicing easy.
- One piece, molded urethane endcaps encase the filter media and liners.
- Metal-free primary filter element.
- Safety filter protects engine during in-field filter change outs.

Contact Donaldson for PowerPleat availability in your region.
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.

PowerPleat 11 – 13 Air Cleaner Performance Curves*

*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.
PowerPleat™ Air Cleaners

PowerPleat 11, 13 Specifications

Counterclockwise (CCW) inlet  Clockwise (CW) inlet

Clockwise and counterclockwise inlet orientations are determined by the airflow path inside the air cleaner when looking into the outlet, as illustrated above with the blue arrows showing airflow.

<table>
<thead>
<tr>
<th>Air Cleaner Models</th>
<th>Inlet Orientation</th>
<th>Inlet Dia. (A)</th>
<th>Outlet Dia. (B)</th>
<th>Body Dia. (C)</th>
<th>Housing Length (D)</th>
<th>Service Length (I)</th>
<th>Weight lbs kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>G110468 CCW</td>
<td>5.0&quot;</td>
<td>4.5&quot;</td>
<td>12.2&quot;</td>
<td>13.8&quot;</td>
<td>13.8&quot;</td>
<td>13.8&quot;</td>
<td>10.1 lb</td>
</tr>
<tr>
<td></td>
<td>127 mm</td>
<td>114 mm</td>
<td>310 mm</td>
<td>350 mm</td>
<td>350 mm</td>
<td>4.6 kg</td>
<td></td>
</tr>
<tr>
<td>G110469 CW</td>
<td>5.0&quot;</td>
<td>4.5&quot;</td>
<td>12.2&quot;</td>
<td>13.8&quot;</td>
<td>13.8&quot;</td>
<td>13.8&quot;</td>
<td>10.1 lb</td>
</tr>
<tr>
<td></td>
<td>127 mm</td>
<td>114 mm</td>
<td>310 mm</td>
<td>350 mm</td>
<td>350 mm</td>
<td>4.6 kg</td>
<td></td>
</tr>
<tr>
<td>G110474 CCW</td>
<td>5.0&quot;</td>
<td>4.5&quot;</td>
<td>12.2&quot;</td>
<td>19.3&quot;</td>
<td>19.3&quot;</td>
<td>19.3&quot;</td>
<td>12.6 lb</td>
</tr>
<tr>
<td></td>
<td>127 mm</td>
<td>114 mm</td>
<td>310 mm</td>
<td>490 mm</td>
<td>490 mm</td>
<td>5.7 kg</td>
<td></td>
</tr>
<tr>
<td>G110475 CW</td>
<td>5.0&quot;</td>
<td>4.5&quot;</td>
<td>12.2&quot;</td>
<td>19.3&quot;</td>
<td>19.3&quot;</td>
<td>19.3&quot;</td>
<td>12.6 lb</td>
</tr>
<tr>
<td></td>
<td>127 mm</td>
<td>114 mm</td>
<td>310 mm</td>
<td>490 mm</td>
<td>490 mm</td>
<td>5.7 kg</td>
<td></td>
</tr>
<tr>
<td>G130374 CCW</td>
<td>6.0&quot;</td>
<td>5.0&quot;</td>
<td>13.5&quot;</td>
<td>16.7&quot;</td>
<td>16.7&quot;</td>
<td>16.7&quot;</td>
<td>14.3 lb</td>
</tr>
<tr>
<td></td>
<td>152 mm</td>
<td>127 mm</td>
<td>342 mm</td>
<td>425 mm</td>
<td>425 mm</td>
<td>19.3&quot;</td>
<td>6.5 kg</td>
</tr>
<tr>
<td>G130375 CW</td>
<td>6.0&quot;</td>
<td>5.0&quot;</td>
<td>13.5&quot;</td>
<td>16.7&quot;</td>
<td>16.7&quot;</td>
<td>16.7&quot;</td>
<td>14.3 lb</td>
</tr>
<tr>
<td></td>
<td>152 mm</td>
<td>127 mm</td>
<td>342 mm</td>
<td>425 mm</td>
<td>425 mm</td>
<td>19.3&quot;</td>
<td>6.5 kg</td>
</tr>
<tr>
<td>G130373 CCW</td>
<td>6.0&quot;</td>
<td>5.0&quot;</td>
<td>13.5&quot;</td>
<td>20.9&quot;</td>
<td>20.9&quot;</td>
<td>20.9&quot;</td>
<td>17.6 lb</td>
</tr>
<tr>
<td></td>
<td>152 mm</td>
<td>127 mm</td>
<td>342 mm</td>
<td>530 mm</td>
<td>530 mm</td>
<td>23.6&quot;</td>
<td>8.0 kg</td>
</tr>
<tr>
<td>G130372 CW</td>
<td>6.0&quot;</td>
<td>5.0&quot;</td>
<td>13.5&quot;</td>
<td>20.9&quot;</td>
<td>20.9&quot;</td>
<td>20.9&quot;</td>
<td>17.6 lb</td>
</tr>
<tr>
<td></td>
<td>152 mm</td>
<td>127 mm</td>
<td>342 mm</td>
<td>530 mm</td>
<td>530 mm</td>
<td>23.6&quot;</td>
<td>8.0 kg</td>
</tr>
</tbody>
</table>
PowerPleat™ Air Cleaners

PowerPleat 11, 13 Service Parts & Accessories

PowerPleat 11

Cover Assembly

Safety Filter
fits inside primary filter

Primary Filter

Vacuator™ Valve

G110468 & G110469 PowerPleat 11S

Cover ................................................. P626994 ... 8
Elbow, 45° ......................................... P109021
Elbow, 90° ......................................... P107844
Filter, primary ................................... P626996 ... 3
Filter, safety ...................................... P626104 ... 3
Informer™ indicator 25° H₂O ...................... X002277
Inlet hood, plastic ................................ H000468
Inlet hood, metal ................................ H000170
O-ring seal ........................................ P625983
Outlet band clamp .............................. P148344
Vacuator™ Valve ................................ P776008

PowerPleat 13

Cover Assembly

Safety Filter
fits inside primary filter

Primary Filter

Vacuator™ Valve

G130374 & G130375 PowerPleat 13S

Cover ................................................. P627756 ... 8
Elbow, 45° ......................................... P109021
Elbow, 90° ......................................... P107844
Filter, primary ................................... P628866 ... 3
Filter, safety ...................................... P628862 ... 3
Informer™ indicator 25° H₂O ...................... X002277
Inlet hood, plastic ................................ H000469
Inlet hood, metal ................................ H000165
Outlet Hump Hose .............................. P148345
Outlet band clamp .............................. P148344
O-ring seal ........................................ P627758
Vacuator™ Valve ................................ P776008

PowerPleat 11L

G110474 & G110475 PowerPleat 11L

Cover ................................................. P626994 ... 8
Elbow, 45° ......................................... P109021
Elbow, 90° ......................................... P107844
Filter, primary ................................... P628855 ... 3
Filter, safety ...................................... P628802 ... 3
Informer™ indicator 25° H₂O ...................... X002277
Inlet hood, plastic ................................ H000468
Inlet hood, metal ................................ H000170
O-ring seal ........................................ P629863
Outlet Hump Hose .............................. P105610
Outlet band clamp .............................. P148344
Vacuator™ Valve ................................ P776008

PowerPleat 13L

G130373 & G130372 PowerPleat 13L

Cover ................................................. P627756 ... 8
Elbow, 45° ......................................... P109021
Elbow, 90° ......................................... P107844
Filter, primary ................................... P627763 ... 3
Filter, safety ...................................... P628203 ... 3
Informer™ indicator 25° H₂O ...................... X002277
Inlet hood, plastic ................................ H000469
Inlet hood, metal ................................ H000165
Outlet Hump Hose .............................. P148345
Outlet band clamp .............................. P148344
O-ring seal ........................................ P627758
Vacuator™ Valve ................................ P776008

NOTES:
3 = Shipped with air cleaner initially
8 = Cover assembly includes latches but no Vacuator™ Valve

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**PowerPleat™ Air Cleaners**

**Service Instructions**

**PowerPleat 11, 13** servicing information is provided as a best practice guide. It is not intended to replace or supersede the service instructions supplied by your engine or vehicle manufacturer.

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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. Unlatch the service cover.

   Visually inspect and check Vacuator™ Valve, and replace if needed.

   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 slightly to break the seal while rotating. Pull straight out to avoid knocking the filter against the safety filter support frame.

   Once the primary filter has been removed, clean the primary filter seal surface with a damp cloth.

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, unless it has become excessively contaminated. 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.

   Never leave air cleaner sitting without a safety filter.

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Note: The PowerPleat 13 is shown above. The PowerPleat 11 has a different style of safety. See image on page 63.
4 Inspect the Old Filter
Inspect the old primary filter for any signs of leaks. A streak of dust on the inside of the filter is a telltale sign of a possible leak.

If you suspect a possible leak, verify the safety element is in good condition as it may need to be changed as well. Also make sure to follow Step 8 to ensure all connections are tight so that dirty outside air cannot bypass the air cleaner.

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 seal area as the new Donaldson filter may have a 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.
7 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.

8 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.