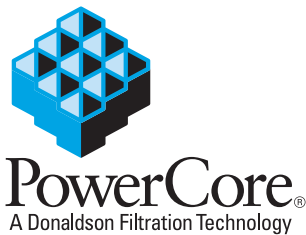
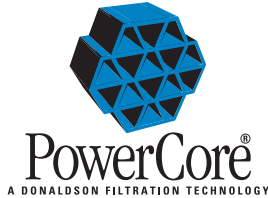




## Our Original PowerCore Brand is Changing!



### Section Index

|  |    |
|--|----|
| PSD.....   | 30 |
| Scavenge System Components .....                     | 38 |
| PowerCore Air Cleaners<br>for Cummins® Engines ..... | 43 |
| Ford 7.3L Retrofit Kit .....                         | 44 |

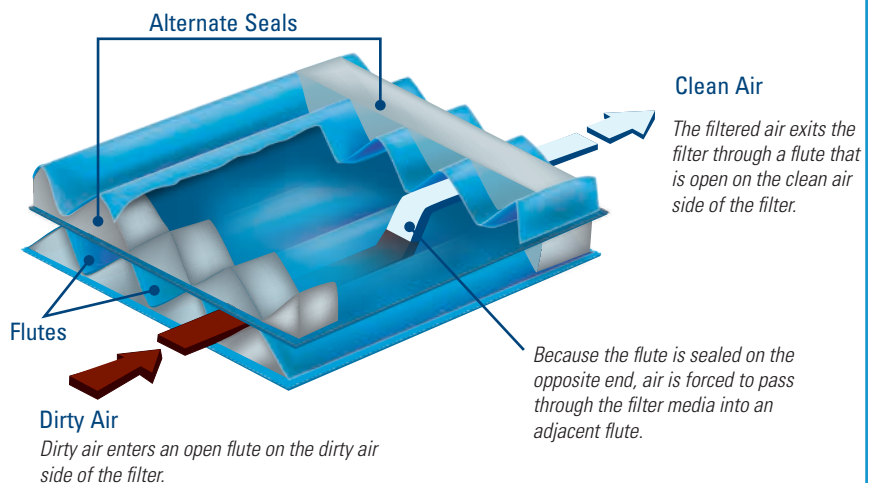
## Our PowerCore® air cleaners deliver . . .

- System design flexibility
- Metal-free, lightweight materials
- Rugged construction
- Straight-through airflow technology invented by Donaldson
- Advanced sealing technology
- 3x more efficient than the average Axial pleated filter
- RadialSeal™ advanced sealing technology
- Inertial particle separation technology

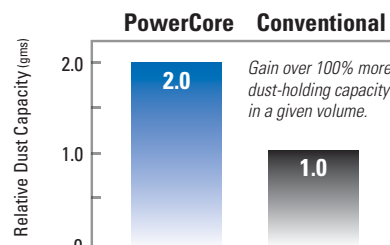
This new air cleaner family offers two-stage filtration in a single, compact unit that delivers superior filtration performance using our PowerCore Filtration Technology.

For greater filtration, our PSD air cleaners are adaptable to a scavenged air system.

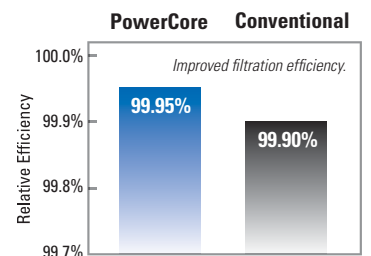
### PowerCore® Straight-Through Airflow Schematic



### Dust Holding Capacity



### Overall Efficiency



Cummins is a registered trademark of Cummins, Inc.



## Millions of PowerCore® Filters Installed on Original Equipment



**PowerCore**  
A Donaldson Filtration Technology

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

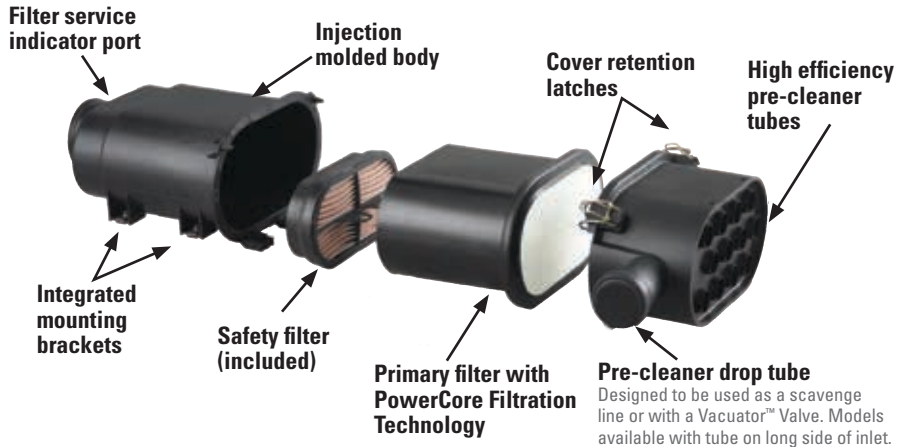
This non-metal air cleaner (except for cover clamps) is ideal for equipment operating in medium to heavy dust environments.

### Applications

- Off-road equipment operating in medium to heavy dust conditions with engine airflow ranges up to 1490 cfm
- Scavenged system components — exhaust ejectors and check valves — now available. See page 38 for more details.
- Obround housing shape allows for a narrow or wide mounting orientation.
- Models have either end or side filter service access
- Sustained temperature tolerance: -40 °F to 180 °F / -40 °C to 82 °C

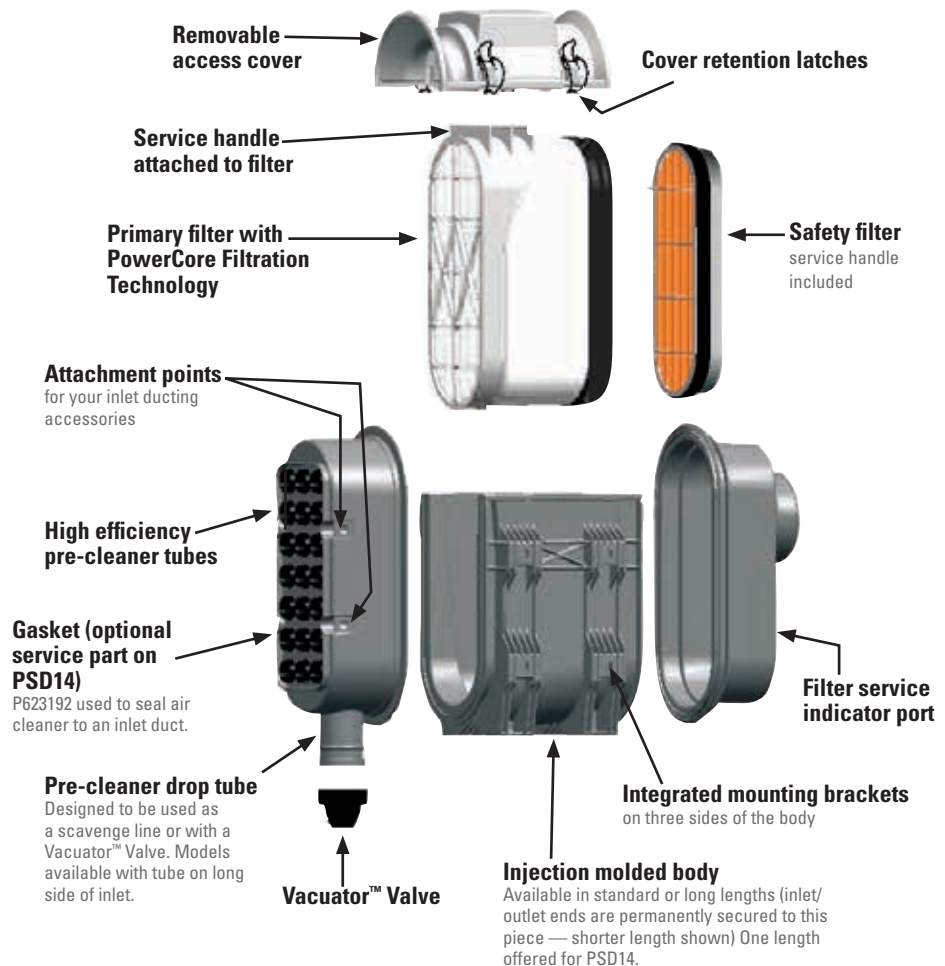
### Service Access on Inlet End — PSD08

*Exploded view of D080020*



### Service Access on Side — PSD08, PSD09, PSD10, PSD12 and PSD14

*Exploded view of D090073*



## Excellent Performance in Half the Space

### Features

- More compact at a given performance level than standard pleated filters
- Non-metal filters
- Improved engine protection: no media movement, expansion, contraction or bunching
- Improved contaminant encapsulation: dust and dirt stay contained in filter during service
- High efficiency integrated pre-cleaner improves filter life
- Improved handling and maintenance: lighter and smaller, changing filters is a snap
- Easily serviced; no tools required to remove or replace cover
- Can be used with scavenge line or Vacuator™ Valve
- Built in mounting brackets eliminate the need to purchase separate mounting bands



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



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 locations 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.

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 on pages 35, 36 and 37.



The air cleaner is not to be mounted using U-clips on both sides adjacent to the access cover. Fixation Points use M8 fasteners. Maximum torque is 18 N•m.

The PSD14 air cleaner MUST be mounted with nine U-clips — four on the side opposite the access cover and all five U-Clips on ONE of the two sides.



D090120 — Horizontal



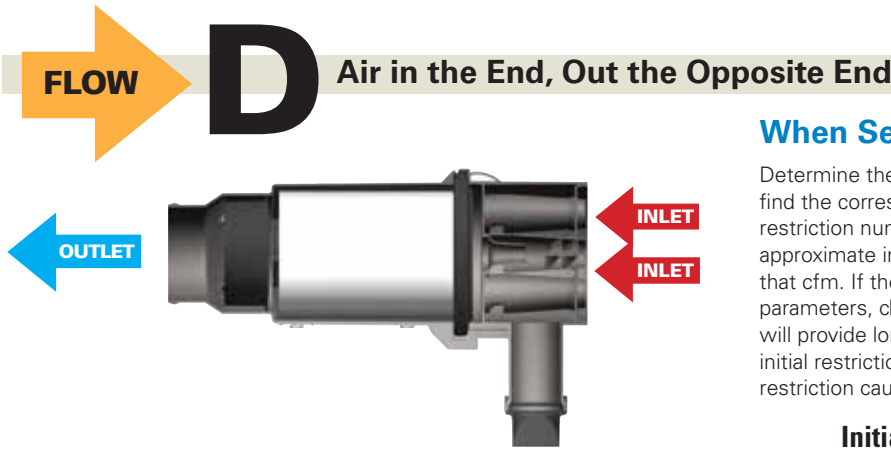
D090073 — Vertical



D100072 — Horizontal



D140078 — Vertical



### When Selecting an Air Cleaner . . .

Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table below. 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.

#### Initial Airflow Restriction (non-scavenged)

| CFM @ "H <sub>2</sub> O                   |      | Air Cleaner Model |         |
|---|------|-------------------|---------|
| 6"  | 8"   |                   |         |
| <b>MODELS WITH SERVICE ACCESS ON END</b>  |      |                   |         |
| 176                                       | 206  | 232               | D080020 |
| 176                                       | 206  | 232               | D080026 |
| <b>MODELS WITH SERVICE ACCESS ON SIDE</b> |      |                   |         |
| 180                                       | 216  | 245               | D080056 |
| 267                                       | 315  | 357               | D090055 |
| 284                                       | 329  | 370               | D090101 |
| 284                                       | 329  | 370               | D090121 |
| 293                                       | 345  | 391               | D090073 |
| 293                                       | 345  | 391               | D090120 |
| 500                                       | 580  | 652               | D100029 |
| 500                                       | 580  | 652               | D100030 |
| 500                                       | 580  | 652               | D100072 |
| 532                                       | 622  | 700               | D100031 |
| 532                                       | 622  | 700               | D100032 |
| 532                                       | 622  | 700               | D100068 |
| 700                                       | 810  | 915               | D120035 |
| 700                                       | 810  | 915               | D120036 |
| 700                                       | 810  | 915               | D120037 |
| 700                                       | 810  | 915               | D120038 |
| 1133                                      | 1323 | 1490              | D140078 |
| 1133                                      | 1323 | 1490              | D140079 |

### PSD Air Cleaners and Scavenge Air Systems

PSD air cleaners are designed to operate with or without aspiration, otherwise known as scavenging. PSD performance charts are provided for both non-scavenged and scavenged.

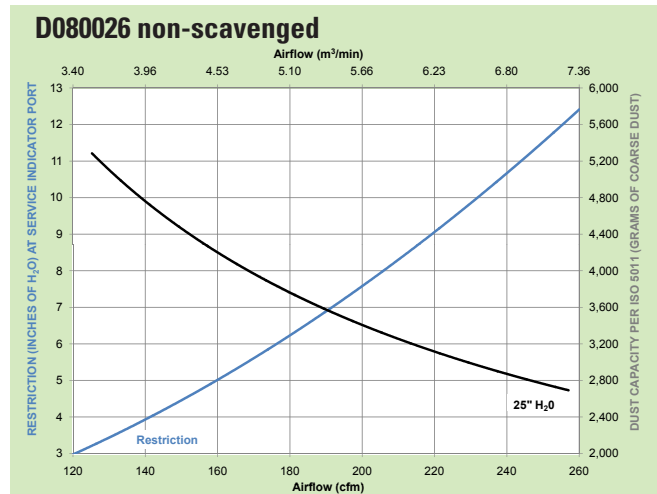
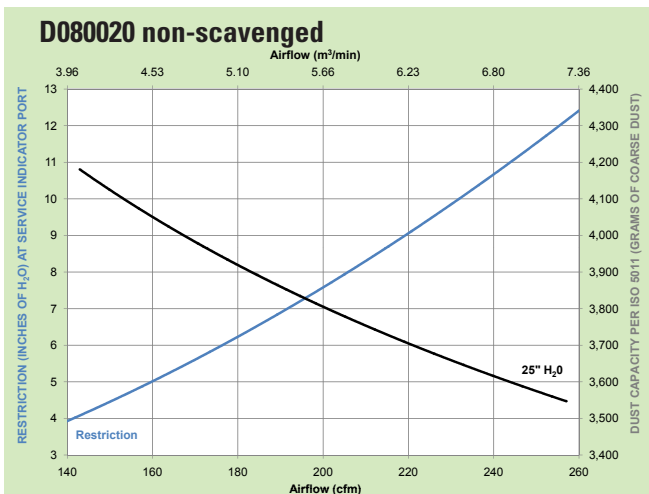
The advantages to scavenging are:

- Higher pre-cleaner efficiency (resulting in longer filter service life)
- Completely self-servicing (no regular maintenance needed on pre-cleaner)

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.

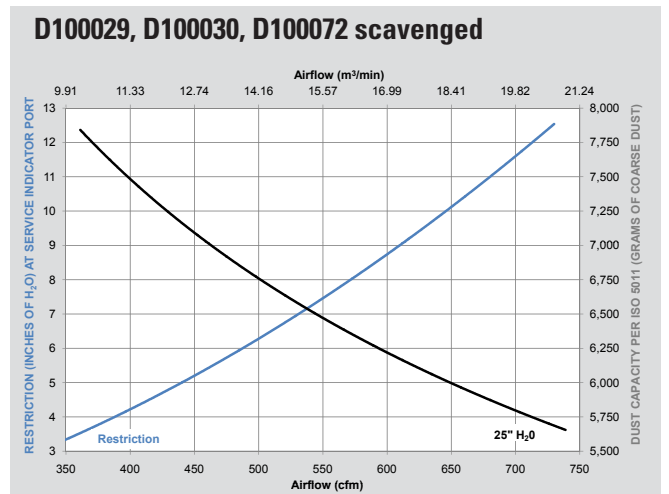
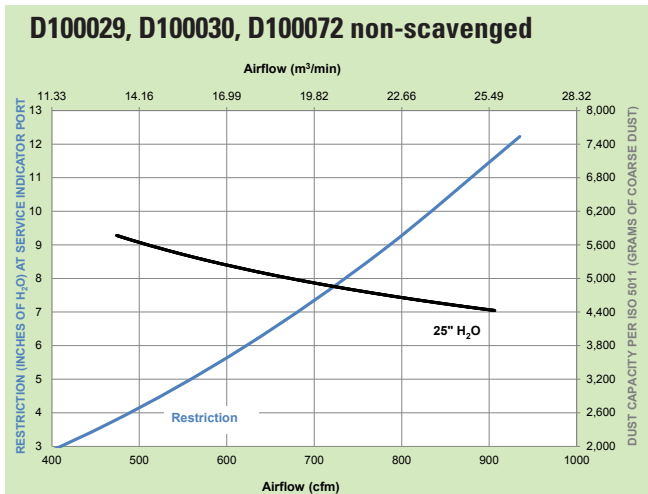
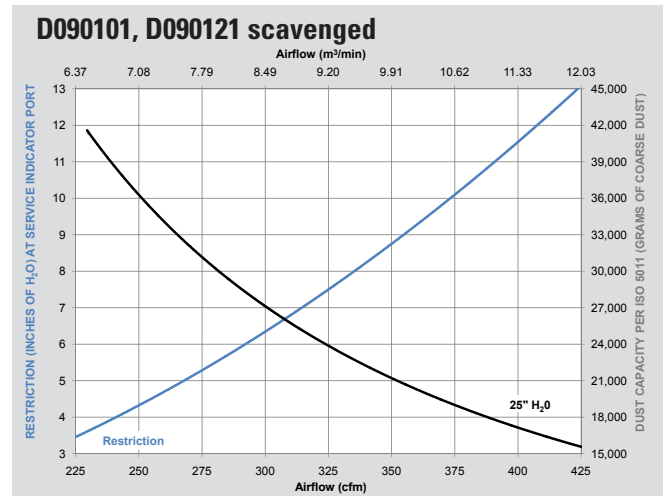
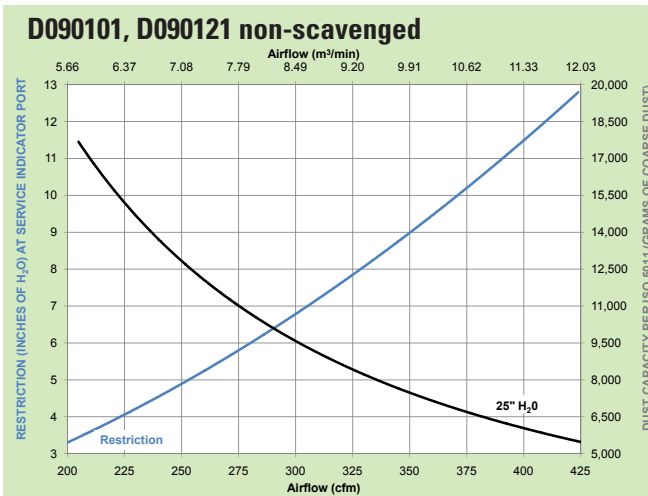
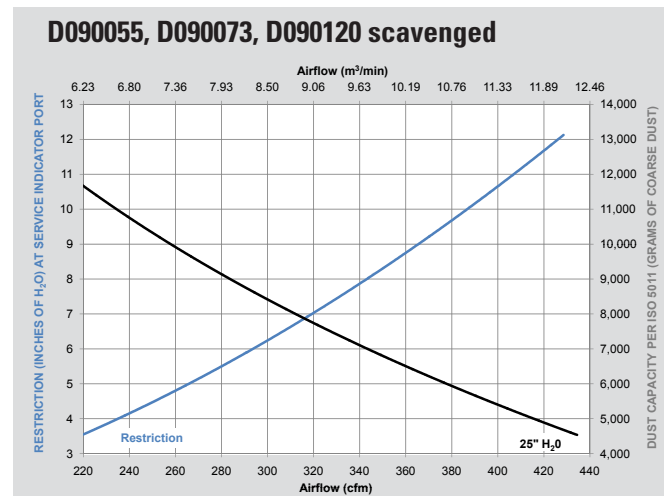
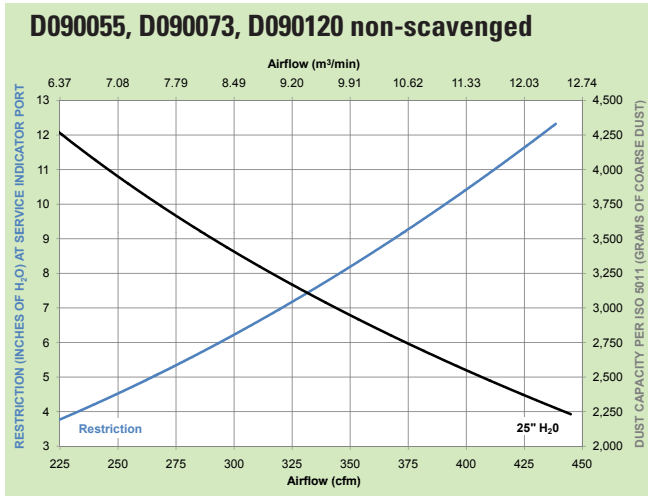
The PSD air cleaner and pre-cleaner will function adequately without scavenge — the result is less filter service life than with scavenging. However, it is recommended to use a scavenge system for horizontally mounted PSD12 and PSD14 applications.

### PSD Air Cleaner Performance Curves



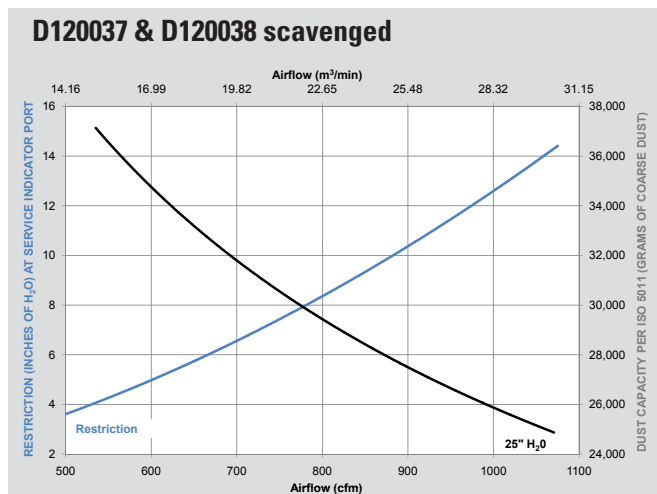
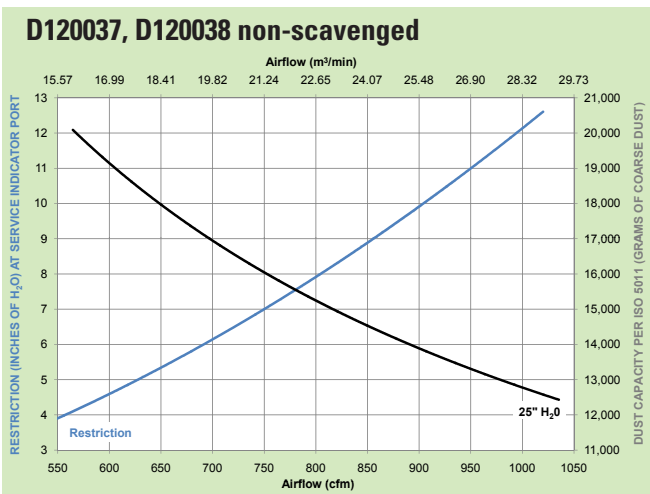
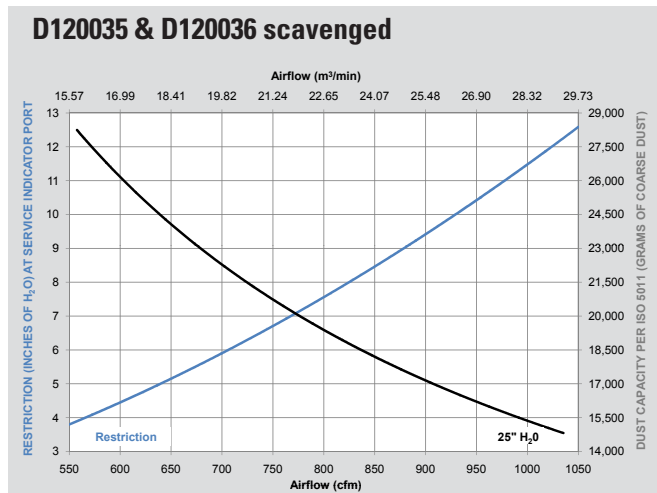
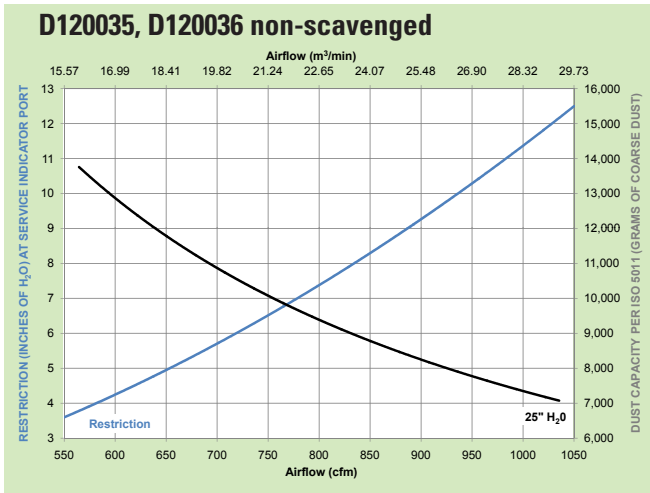
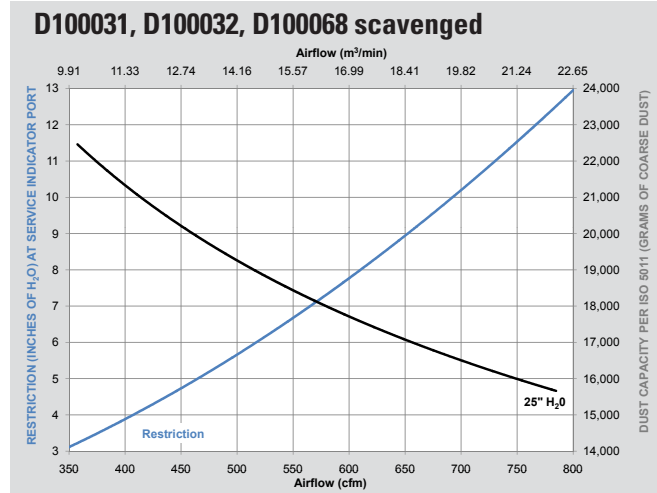
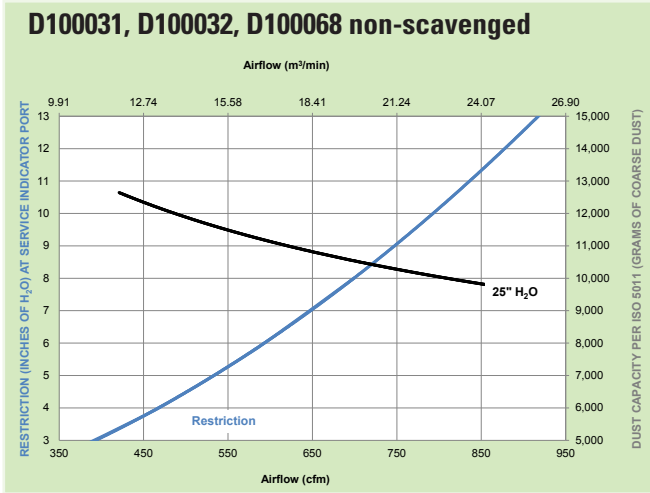


continued — PSD Air Cleaner Performance Curves

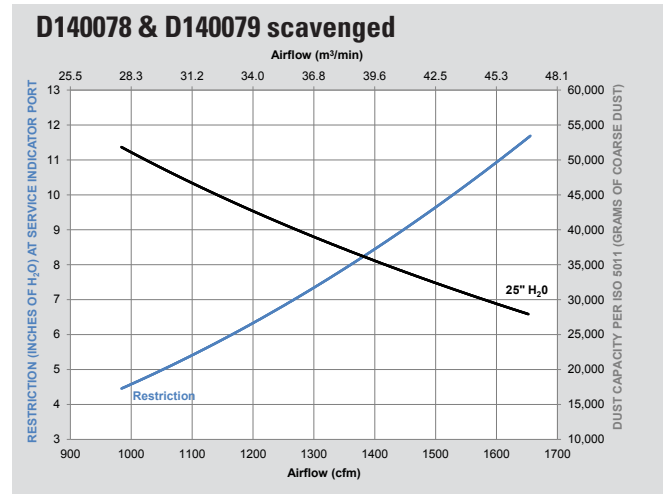
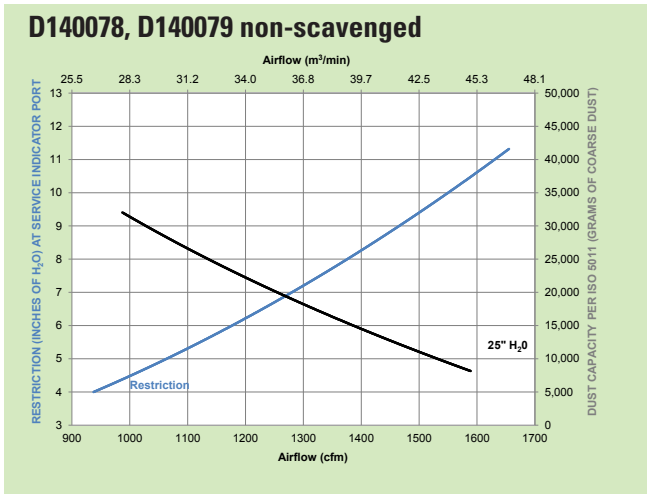




continued – PSD Air Cleaner Performance Curves

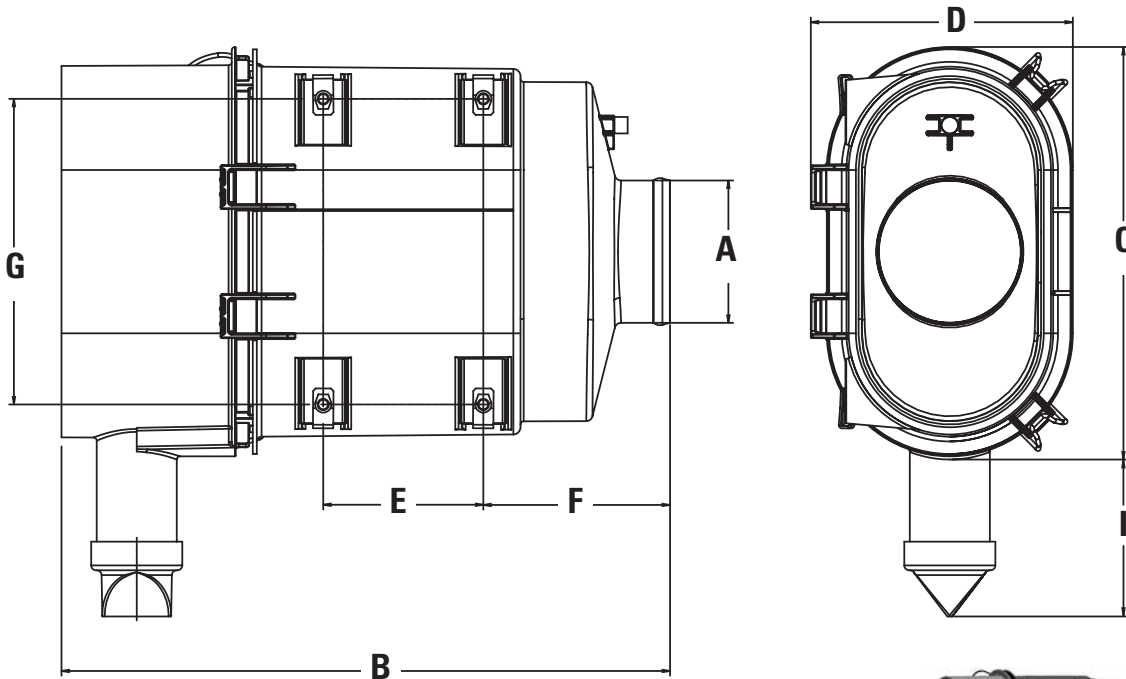


continued — PSD Air Cleaner Performance Curves



PSD Specification Illustrations

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



D080020 — Horizontal



D080026 — Vertical

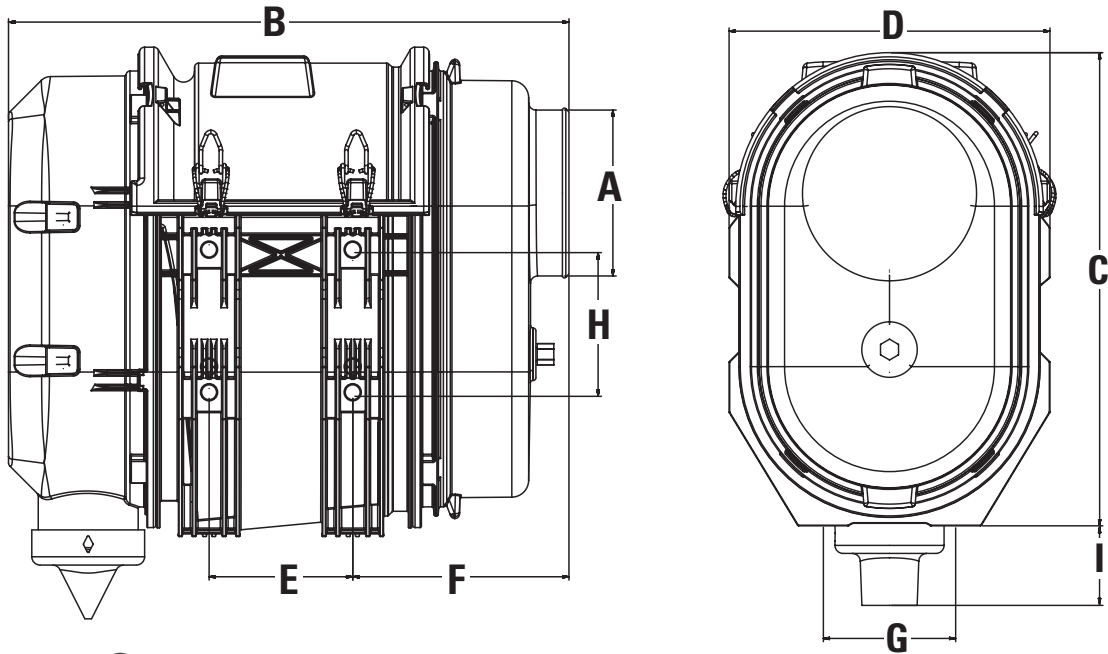
PSD Specifications (Letters are keyed to drawings)

Orientation: H=Horizontal; V=Vertical

| Part No. / Orientation                   | A  |      | B   |       | C   |       | D   |      | E   |      | F   |      | G   |      | I  |      | Weight |     |
|--|----|------|-----|-------|-----|-------|-----|------|-----|------|-----|------|-----|------|----|------|--------|-----|
|  | mm | in   | mm  | in    | mm  | in    | mm  | in   | mm  | in   | mm  | in   | mm  | in   | mm | in   | kg     | lbs |
| <b>MODELS WITH SERVICE ACCESS ON END</b> |    |      |     |       |     |       |     |      |     |      |     |      |     |      |    |      |        |     |
| 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 |



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



D080056 — Vertical



D090120 — Horizontal



D100029 — Vertical

## PSD Specifications (Letters are keyed to drawings)

Orientation: H=Horizontal; V=Vertical

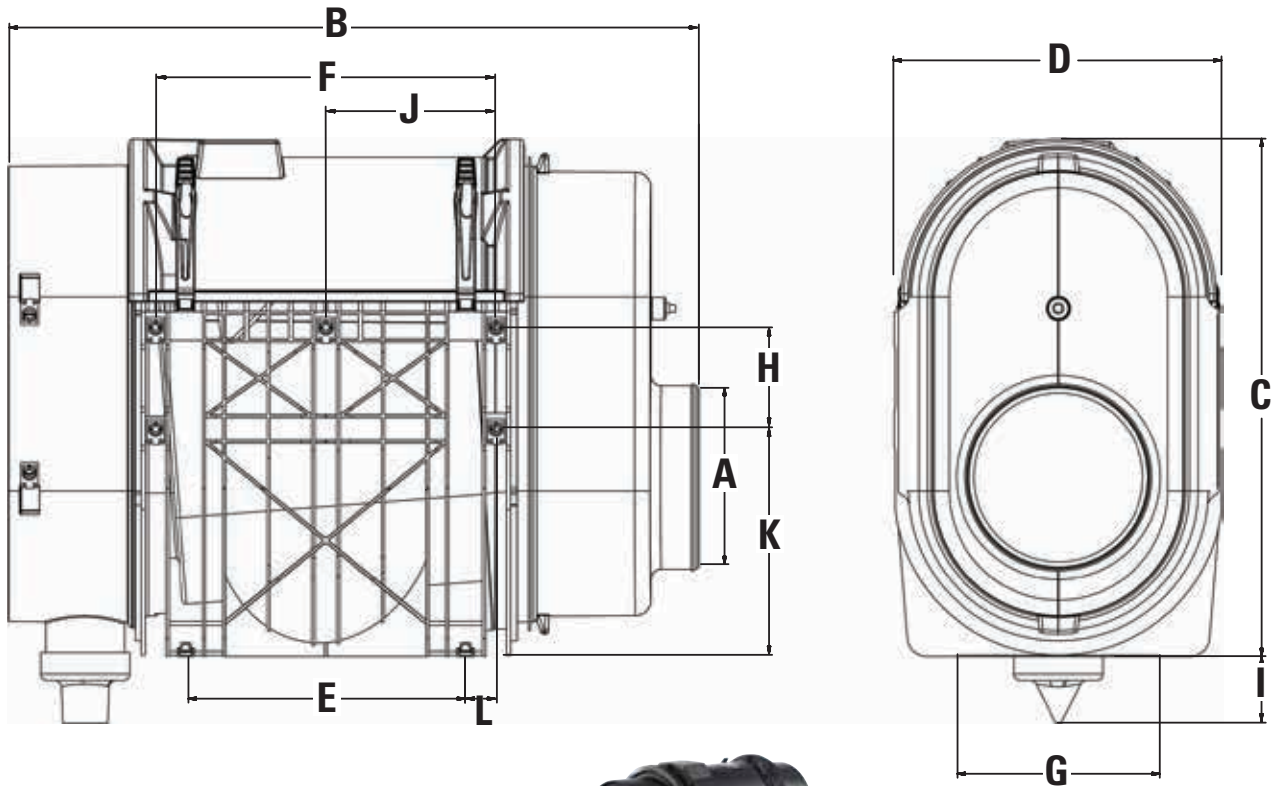
| Part No. / Orientation                    | A  |     | B    |     | C     |     | D     |     | E     |     | F     |     | G    |     | H    |     | I    |      | Weight |     |      |
|---|----|-----|------|-----|-------|-----|-------|-----|-------|-----|-------|-----|------|-----|------|-----|------|------|--------|-----|------|
|   | mm | in  | mm   | in  | mm    | in  | mm    | in  | mm    | in  | mm    | in  | mm   | in  | mm   | in  | mm   | in   | kg     | lbs |      |
| <b>MODELS WITH SERVICE ACCESS ON SIDE</b> |    |     |      |     |       |     |       |     |       |     |       |     |      |     |      |     |      |      |        |     |      |
| D080056                                   | V  | 89  | 3.50 | 370 | 14.55 | 247 | 9.70  | 180 | 7.09  | 69  | 2.72  | 142 | 5.60 | 118 | 4.65 | 75  | 2.95 | 51.9 | 2.04   | 2.2 | 4.9  |
| D090073                                   | V  | 102 | 4.00 | 433 | 17.05 | 362 | 14.25 | 180 | 7.09  | 110 | 4.33  | 174 | 6.85 | 100 | 3.94 | 130 | 5.12 | 72   | 2.85   | 3.7 | 8.1  |
| D090101                                   | V  | 102 | 4.00 | 533 | 20.98 | 363 | 14.29 | 180 | 7.09  | 180 | 7.09  | 183 | 7.21 | 100 | 3.94 | 130 | 5.12 | 70   | 2.75   | 4.3 | 9.5  |
| D090120                                   | H  | 102 | 4.00 | 433 | 17.05 | 360 | 14.17 | 180 | 7.09  | 110 | 4.33  | 174 | 6.85 | 110 | 4.32 | 130 | 5.12 | 60   | 2.36   | 3.7 | 8.1  |
| D090121                                   | H  | 102 | 4.00 | 533 | 20.98 | 363 | 14.29 | 180 | 7.09  | 180 | 7.09  | 183 | 7.21 | 110 | 4.32 | 130 | 5.12 | 60   | 2.36   | 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.

\*\* Access cover rotated 180° compared to view shown in the D100120 photo above.



PSD14 — Service Access on Side (Vertical Model Shown)



The PSD14 air cleaner MUST be mounted with nine U-clips — four on the side opposite the access cover and all five U-Clips on ONE of the two sides.



D140078 — Vertical

**PSD14 Specifications** (Letters are keyed to drawings)

Orientation: H=Horizontal; V=Vertical

| Part No. / Orientation                    | A<br>mm/in | B<br>mm/in | C<br>mm/in | D<br>mm/in | E<br>mm/in | F<br>mm/in | G<br>mm/in | H<br>mm/in | I<br>mm/in | J<br>mm/in | K<br>mm/in | L<br>mm/in | Weight<br>kg/lbs |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------------|
| <b>MODELS WITH SERVICE ACCESS ON SIDE</b> |            |            |            |            |            |            |            |            |            |            |            |            |                  |
| D140078 V                                 | 178/7.00   | 670/26.37  | 501/19.71  | 318/12.52  | 272/10.68  | 330/13.0   | 230/9.00   | 98/4.59    | 65/2.53    | 165/6.5    | 222/8.75   | 29/1.2     | 11.4/25.0        |
| D140079 H                                 | 178/7.00   | 670/26.37  | 501/19.71  | 318/12.52  | 272/10.68  | 330/13.0   | 230/9.00   | 98/4.59    | 66/2.60    | 165/6.5    | 222/8.75   | 29/1.2     | 11.4/25.0        |

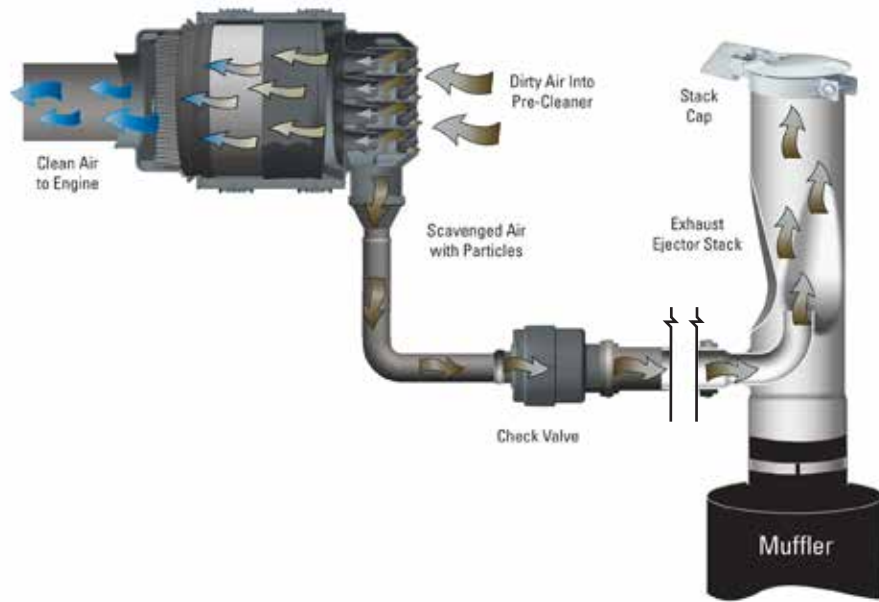


## Scavenge System Components

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 (see illustration on right). This flow pulls the separated contaminant from the pre-cleaner and inserts it into the exhaust stream.

Exhaust ejectors (below), adapters, and check valves (next page) complement the PSD air cleaner product offering.

### Illustration of Scavenge Connection with PSD10 Horizontal Model



## Exhaust Ejectors

All exhaust ejectors are constructed of heavy-gauge, aluminized steel and painted with high-temperature black paint. Select the appropriate ejector by the intake airflow or exhaust flow (CFM) of your engine. These same parts and more information on ejectors can be found in the accessories section of this product guide.

| Engine Intake CFM |      | Exhaust CFM @ 900 °F |      | Standard Ejectors  |       |             | Expanded I.D. Ejectors |       |             | Length |       | Scavenge Tube O.D. |    |
|-------------------|------|----------------------|------|--------------------|-------|-------------|------------------------|-------|-------------|--------|-------|--------------------|----|
| Low               | High | Low                  | High | Inlet Dia.* inches | mm    | Part Number | Inlet Dia.* inches     | mm    | Part Number | inches | mm    | inches             | mm |
| 220               | 365  | 554                  | 919  | 3.02               | 77.0  | H002612     | 3.16                   | 80.3  | H002762     | 12.00  | 304.8 | 1.25               | 32 |
| 315               | 450  | 793                  | 1133 | 4.02               | 102.0 | H002613     | 4.17                   | 105.9 | H002763     | 18.00  | 457.2 | 1.25               | 32 |
| 425               | 600  | 1070                 | 1511 | 4.02               | 102.0 | H002614     | 4.17                   | 105.9 | H002764     | 18.00  | 457.2 | 1.50               | 38 |
| 500               | 740  | 1259                 | 1864 | 5.03               | 127.8 | H002615     | 5.17                   | 131.0 | H002765     | 22.00  | 558.8 | 1.50               | 38 |
| 660               | 950  | 1662                 | 2393 | 5.03               | 127.8 | H002616     | 5.17                   | 131.0 | H002766     | 22.00  | 558.8 | 1.75               | 44 |
| 800               | 1150 | 2015                 | 2896 | 6.04               | 153.4 | H002617     | 6.19                   | 157.0 | H002767     | 24.00  | 609.6 | 2.00               | 51 |
| 950               | 1350 | 2393                 | 3400 | 6.04               | 153.4 | H002618     | 6.19                   | 157.0 | H002768     | 24.00  | 609.6 | 2.00               | 51 |
| 1100              | 1500 | 2770                 | 3778 | 6.04               | 153.4 | H002619     | 6.19                   | 157.0 | H002769     | 24.00  | 609.6 | 2.00               | 51 |

## Scavenge Adapters



Straight Adapter



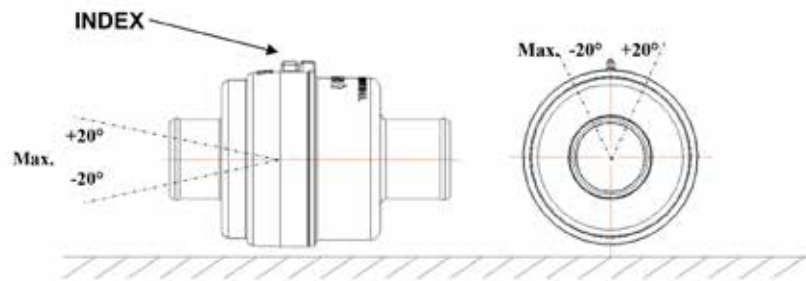
90° Adapter

| Part Number | Adapter Type          | Outlet Dia. |    | Diameter |    | Height |    |
|-------------|-----------------------|-------------|----|----------|----|--------|----|
|             |                       | inches      | mm | inches   | mm | inches | mm |
| P783746     | 3" TO 1.50" STRAIGHT  | 1.50        | 38 | 3.00     | 78 | 2.68   | 68 |
| P783747     | 3" TO 1.25" STRAIGHT  | 1.25        | 32 | 3.00     | 78 | 2.68   | 68 |
| P783748     | 3" TO 2.00" STRAIGHT  | 2.00        | 50 | 3.00     | 78 | 2.68   | 68 |
| P784019     | 3" TO 1.25" 90 DEGREE | 1.25        | 32 | 3.00     | 78 | 2.68   | 68 |
| P617276     | 3" TO 2.00" 90 DEGREE | 2.00        | 50 | 3.00     | 78 | 2.20   | 56 |

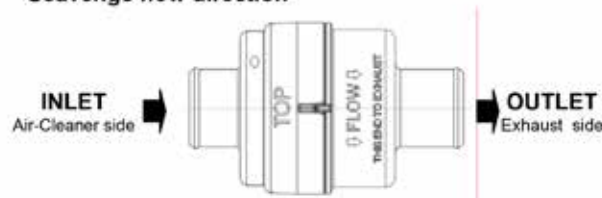
## Check Valve Operation and Orientation

- Prevents back flow of exhaust gas into pre-cleaner
- For proper installation, it is important that the index is installed upward and horizontal with no more than a 20° variation. See below.
- Install inline check valve as close as possible to the air cleaner
- Temperature resistance of 200 °C / 400 °F

| Part Number | Inlet Dia. |    | Outlet Dia. |    | Length |     | Body Dia. |    |
|-------------|------------|----|-------------|----|--------|-----|-----------|----|
|             | inches     | mm | inches      | mm | inches | mm  | inches    | mm |
| P786337     | 1.25       | 32 | 1.25        | 32 | 4.45   | 113 | 2.80      | 71 |
| P786340     | 1.50       | 38 | 1.50        | 38 | 4.45   | 113 | 2.80      | 71 |
| P786343     | 2.00       | 50 | 2.00        | 50 | 4.45   | 113 | 2.80      | 71 |



### Scavenge flow direction





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

## 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 scheduled service.



## 2 Check Vacuator™ Valve & Pre-Cleaner Tubes

Shut off the engine. Inspect the Vacuator™ Valve (or scavenge line) for damage. If damaged, replace. If plugged or full of contaminant, check the pre-cleaner tubes, which should be free of contaminant. If plugged or excess contaminant is visible, the pre-cleaner tubes will need to be cleaned.

To clean the pre-cleaner tubes, remove the housing service cover and Vacuator Valve and leave the filter installed (to avoid dust from entering the air induction outlet). Use a low-volume of compressed air to gently blow out the separator tubes. The compressed air can be pushed through both sides of the tubes AND from the drop tube where the Vacuator Valve attaches.

If compressed air is not available or the use of compressed air was not effective due to dried contaminant within the housing, remove the air cleaner from the machine, cover the air intake pipe to prevent contaminant. Remove the primary and secondary filters and Vacuator Valve. Use a low pressure water (e.g., garden hose) to clean the tubes and inside of housing. Direct the flow of water through the separator tubes from both ends and repeat as needed to clean out the housing. Spray out the Vacuator Valve port, alternating between it and the separator tubes. Make sure that all internal housing surfaces are dry prior to reinstalling the filters, Vacuator Valve, and unit on the machine.



*NEVER use a pressure sprayer to clean out the air cleaner housing while it is installed on the machine. Avoid using excessive pressure when spraying out the separator tubes as damage can occur.*

## 3 Remove the Primary Filter

For end service pull the filter out of the housing.

For side service push down on the service handle to tilt the filter to a 5° angle. This will loosen the seal. Then, pull up on the service handle to remove the filter from the housing.



## 4 Visually Inspect the Safety Filter

Remove any excess dirt and wipe out the housing with a damp cloth before servicing the safety filter. Visually inspect the safety filter but do not remove it unless it is damaged or due for change-out. Verify that the safety filter is properly seated in the housing. The safety filter should be replaced every three primary filter changes.



*The safety filter should be replaced every three primary filter changes.*

## 5 Remove Safety Filter if Indicated or if Excessively Contaminated

To remove the safety filter, use the plastic handle on the face of the safety filter. Pull the filter toward the center of the housing and remove it. Ensure that the outlet tube sealing area is clean and undamaged. If the safety filter is removed and the new filter is not to be installed immediately, be sure to cover the seal tube with a cloth so that dirt is not admitted. After removing the safety filter, wipe the air cleaner housing interior and seal surfaces with a clean, damp cloth.





## 6 Inspect the New Filters

Visually check for cuts, tears or indentations on the sealing surfaces and the media pack before installation. If any damage is visible, do not install.



## 7 Replace the Safety Filter

If replacing the safety filter, use the plastic handle. Slide the filter at an angle into the outlet side and push it in place until the filter seats firmly and evenly within the housing.

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



## 8 Insert the Primary Filter

For end service access models, slide the primary 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 makes contact with the end of the housing. Rotate the filter toward the outlet section to complete the seal.



## 9 Replace the Service Cover

For end service access models with hinge tabs, insert the hinge tabs into the housing, tilt the service cover into place and secure latches. For end service models without hinge tabs, put the service cover into place and secure the latches. For side-service access models, place the service cover in position and fasten the metal or rubber (PSD14) latches. If the cover doesn't seat, remove and re-check the filter position and access cover orientation.



## 10 Inspect the Entire Air Cleaner System

Make sure that inlet and outlet connections are in good condition. Torque to and do not exceed 40 in·lb. Replace rubber connectors if necessary and reset the service indicator.





**Service Parts & Accessories**

| D080020, D080026                              | PSD          |
|---|--------------|
| Cover (D080020).....                          | P602985 ...3 |
| Cover (D080026).....                          | P601735 ...3 |
| Elbow, 45°.....                               | P109331      |
| Elbow, 90°.....                               | P114318      |
| Filter, primary.....                          | P608533 ...3 |
| Filter, safety.....                           | P600975 ...3 |
| Hump hose.....                                | P114319      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P776033 ...3 |
| Outlet band clamp.....                        | P148342      |
| Vacuator™ Valve.....                          | P158914 ...3 |

| D080056                                       | PSD          |
|---|--------------|
| Cover.....                                    | P615530 ...3 |
| Elbow, 45°.....                               | P109331      |
| Elbow, 90°.....                               | P114318      |
| Filter, primary.....                          | P617631 ...3 |
| Filter, safety.....                           | P615493 ...3 |
| Hump hose.....                                | P114319      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P776033 ...3 |
| Outlet band clamp.....                        | P148342      |
| U-clip (4 clips).....                         | P784517 ...3 |
| Vacuator™ Valve.....                          | P617632 ...3 |

| D090055, D090073                              | PSD          |
|---|--------------|
| Cover.....                                    | P785651 ...3 |
| Elbow, 45°.....                               | P105545      |
| Elbow, 90°.....                               | P105533      |
| Elbow, 90° reducing.....                      | P121482      |
| Filter, primary.....                          | P608665 ...3 |
| Filter, safety.....                           | P606121 ...3 |
| Hump hose.....                                | P105609      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P777366 ...3 |
| Outlet band clamp.....                        | P148343      |
| U-clip (4 clips).....                         | P784517 ...3 |
| Vacuator™ Valve.....                          | P112803 ...3 |

| D090101                                       | PSD          |
|---|--------------|
| Cover.....                                    | P786989 ...3 |
| Elbow, 45°.....                               | P105545      |
| Elbow, 90°.....                               | P105533      |
| Elbow, 90° reducing.....                      | P121482      |
| Filter, primary.....                          | P608675 ...3 |
| Filter, safety.....                           | P606121 ...3 |
| Hump hose.....                                | P105609      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P777366 ...3 |
| Outlet band clamp.....                        | P148343      |
| U-clip (4 clips).....                         | P784517 ...3 |
| Vacuator™ Valve.....                          | P112803 ...3 |

| D090120                                       | PSD          |
|---|--------------|
| Cover.....                                    | P785651 ...3 |
| Elbow, 45°.....                               | P105545      |
| Elbow, 90°.....                               | P105533      |
| Elbow, 90° reducing.....                      | P121482      |
| Filter, primary.....                          | P608665 ...3 |
| Filter, safety.....                           | P606121 ...3 |
| Hump hose.....                                | P105609      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P777366 ...3 |
| Outlet band clamp.....                        | P148343      |
| U-clip (4 clips).....                         | P784517 ...3 |
| Vacuator™ Valve.....                          | P112803 ...3 |

| D090121                                       | PSD          |
|---|--------------|
| Cover.....                                    | P786989 ...3 |
| Elbow, 45°.....                               | P105545      |
| Elbow, 90°.....                               | P105533      |
| Elbow, 90° reducing.....                      | P121482      |
| Filter, primary.....                          | P608675 ...3 |
| Filter, safety.....                           | P606121 ...3 |
| Hump hose.....                                | P105609      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P777366 ...3 |
| Outlet band clamp.....                        | P148343      |
| U-clip (4 clips).....                         | P784517 ...3 |
| Vacuator™ Valve.....                          | P112803 ...3 |

| D100029, D100030, D100072                     | PSD          |
|---|--------------|
| Cover.....                                    | P784279 ...3 |
| Cover, with watertight seal.....              | P619481      |
| Elbow, 45°.....                               | P109021      |
| Elbow, 90°.....                               | P107844      |
| Elbow, 90° reducing.....                      | P143895      |
| Filter, primary.....                          | P608666 ...3 |
| Filter, safety.....                           | P601560 ...3 |
| Hump hose.....                                | P105610      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P777366 ...3 |
| Outlet band clamp.....                        | P148345      |
| U-clip (4 clips).....                         | P784517 ...3 |
| Vacuator™ Valve.....                          | P112803 ...3 |

| D100031, D100032, D100068                     | PSD          |
|---|--------------|
| Cover.....                                    | P784298 ...3 |
| Cover, with watertight seal.....              | P619482      |
| Elbow, 45°.....                               | P105547      |
| Elbow, 90°.....                               | P105535      |
| Filter, primary.....                          | P608676 ...3 |
| Filter, safety.....                           | P601560 ...3 |
| Hump hose.....                                | P105612      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P777366 ...3 |
| Outlet band clamp.....                        | P148347      |
| U-clip (4 clips).....                         | P784517 ...3 |
| Vacuator™ Valve.....                          | P112803 ...3 |

| D120035, D120036                              | PSD          |
|---|--------------|
| Cover.....                                    | P608171 ...3 |
| Elbow, 45°.....                               | P105547      |
| Elbow, 90°.....                               | P105535      |
| Filter, primary.....                          | P608667 ...3 |
| Filter, safety.....                           | P607557 ...3 |
| Hump hose.....                                | P105612      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P777366 ...3 |
| Outlet band clamp.....                        | P148347      |
| U-clip (4 clips).....                         | P784517 ...3 |
| Vacuator™ Valve.....                          | P112803 ...3 |

| D120037, D120038                              | PSD          |
|---|--------------|
| Cover.....                                    | P608180 ...3 |
| Elbow, 45°.....                               | P105547      |
| Elbow, 90°.....                               | P105535      |
| Filter, primary.....                          | P608677 ...3 |
| Filter, safety.....                           | P607557 ...3 |
| Hump hose.....                                | P105612      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P777366 ...3 |
| Outlet band clamp.....                        | P148347      |
| U-clip (4 clips).....                         | P784517 ...3 |
| Vacuator™ Valve.....                          | P112803 ...3 |

| D140078, D140079                              | PSD          |
|---|--------------|
| Cover, with watertight seal.....              | P623026 ...3 |
| Elbow, 45°.....                               | P105548      |
| Elbow, 90°.....                               | P105536      |
| Elbow, 90° reducing.....                      | P215307      |
| Filter, primary.....                          | P621983 ...3 |
| Filter, safety.....                           | P621984 ...3 |
| Hump hose.....                                | P105613      |
| Informer™ indicator 25" H <sub>2</sub> O..... | X002277      |
| Latch.....                                    | P622945 ...3 |
| Outlet band clamp.....                        | P148348      |
| U-clip (9 clips).....                         | P622745 ...3 |
| Vacuator™ Valve.....                          | P112803 ...3 |
| Gasket.....                                   | P623192      |

**NOTES:**  
3 = Shipped with air cleaner initially



# Air Filtration

for Tier IV Engines



**PowerCore®**  
A Donaldson Filtration Technology

Quality  
you expect

Performance  
you need

Support  
you won't find  
anywhere else

**Donaldson  
Delivers**

**PSD AIR CLEANERS FOR CUMMINS ENGINE APPLICATIONS**

| Engine Model | Horsepower Range |  | Engine Size (L) | (CID) | Speed (RPM) | Est. Nom. Airflow CFM | Donaldson Air Cleaner |
|--------------|------------------|--|-----------------|-------|-------------|-----------------------|-----------------------|
|--------------|------------------|--|-----------------|-------|-------------|-----------------------|-----------------------|

**Agriculture, Construction/Industrial Equipment**

|      |    |    |     |     |      |     |       |
|------|----|----|-----|-----|------|-----|-------|
| B3.3 | 74 | 85 | 3.3 | 201 | 2600 | 242 | PSD08 |
| B3.3 | 60 | 65 | 3.3 | 201 | 2600 | 136 | PSD08 |

**Agriculture, Construction/Industrial Equipment, Oil and Gas**

|         |     |     |      |     |      |      |       |
|---------|-----|-----|------|-----|------|------|-------|
| QSB3.3  | 75  | 110 | 3.3  | 201 | 2200 | 237  | PSD08 |
| QSB4.5  | 110 | 160 | 4.5  | 275 | 2200 | 323  | PSD09 |
| QSB6.7  | 140 | 300 | 6.7  | 409 | 2200 | 481  | PSD10 |
| QSL9    | 240 | 400 | 9    | 549 | 2200 | 647  | PSD10 |
| QSX11.9 | 300 | 500 | 11.9 | 726 | 2200 | 855  | PSD12 |
| QSX15   | 400 | 600 | 15   | 915 | 2200 | 1078 | PSD14 |
| QSX     | 375 | 665 | 15   | 915 | 2000 | 980  | PSD14 |
| QSM     | 290 | 400 | 10.8 | 659 | 2000 | 705  | PSD12 |
| QSL     | 250 | 365 | 8.9  | 543 | 2000 | 581  | PSD10 |
| QSC     | 205 | 305 | 8.3  | 506 | 2100 | 569  | PSD10 |

**Construction/Industrial Equipment, Oil and Gas, Mining**

|       |     |     |    |      |      |      |       |
|-------|-----|-----|----|------|------|------|-------|
| QSK19 | 506 | 700 | 19 | 1159 | 2000 | 1241 | PSD14 |
|-------|-----|-----|----|------|------|------|-------|

**Heavy-duty Truck, RV, Emergency Vehicle**

|         |     |     |      |     |      |      |       |
|---------|-----|-----|------|-----|------|------|-------|
| ISX11.9 | 370 | 500 | 11.9 | 726 | 2100 | 816  | PSD12 |
| ISX15   | 455 | 600 | 15   | 915 | 2100 | 1029 | PSD14 |

**Medium-duty Truck, Bus, Emergency Vehicle**

|        |     |     |     |     |      |     |       |
|--------|-----|-----|-----|-----|------|-----|-------|
| ISB6.7 | 260 | 360 | 6.7 | 409 | 2600 | 569 | PSD10 |
| ISC8.3 | 270 | 380 | 8.3 | 506 | 2200 | 596 | PSD10 |
| ISL9   | 345 | 450 | 9   | 549 | 2200 | 647 | PSD10 |

**On-highway, European, Euro II**

|                   |     |     |      |     |      |     |       |
|-------------------|-----|-----|------|-----|------|-----|-------|
| ISMe              | 345 | 440 | 10.8 | 659 | 1900 | 670 | PSD10 |
| ISLe              | 350 |     | 8.9  | 543 | 2100 | 610 | PSD10 |
| ISBe — 6 Cylinder | 275 | 285 | 6.7  | 409 | 2500 | 547 | PSD10 |

**On-highway, European, Euro III**

|                   |     |     |      |     |      |     |       |
|-------------------|-----|-----|------|-----|------|-----|-------|
| ISMe              | 335 | 420 | 10.8 | 659 | 1900 | 670 | PSD10 |
| ISLe              | 209 | 260 | 8.9  | 543 | 2100 | 610 | PSD10 |
| ISBe - 4 Cylinder | 138 | 185 | 4.5  | 275 | 2500 | 367 | PSD09 |
| ISBe - 6 Cylinder | 285 | 275 | 6.7  | 409 | 2500 | 547 | PSD10 |

**On-highway, European, Euro IV**

|                   |     |     |      |     |      |     |       |
|-------------------|-----|-----|------|-----|------|-----|-------|
| ISMe              | 350 | 445 | 10.8 | 659 | 1900 | 670 | PSD10 |
| ISLe              | 280 | 400 | 8.9  | 543 | 2100 | 610 | PSD10 |
| ISBe - 4 Cylinder | 140 | 207 | 4.5  | 275 | 2500 | 367 | PSD09 |
| ISBe - 6 Cylinder | 205 | 300 | 6.7  | 409 | 2500 | 547 | PSD10 |

**On-highway, European, Euro V**

|      |     |     |      |     |      |     |       |
|------|-----|-----|------|-----|------|-----|-------|
| ISMe | 350 | 445 | 10.8 | 659 | 1900 | 670 | PSD10 |
| ISLe | 280 | 400 | 8.9  | 543 | 2100 | 610 | PSD10 |



## Severe Duty Air Induction System Retrofit Kit 1999\* – 2003 Ford F250-550 or Excursion with 7.3L Power Stroke® Diesel Engine

### Application

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

### 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 Axial 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, filter, 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<br>P550784 | F4TZ-6731-A<br>E3TZ-6731-A | FL-1995<br>FL-784, FL-784FP |

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

\* Built after January 1, 1999