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 °C 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.

Built-in Mounting Brackets and Filter Indicator Port

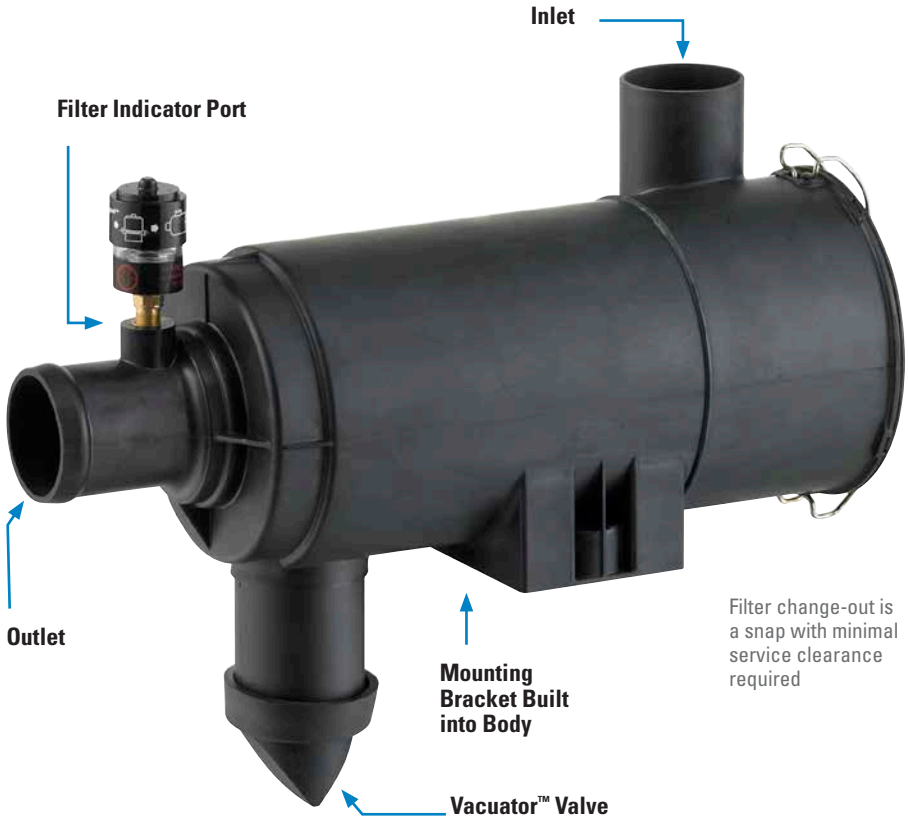
Easy to service with non-metal filters

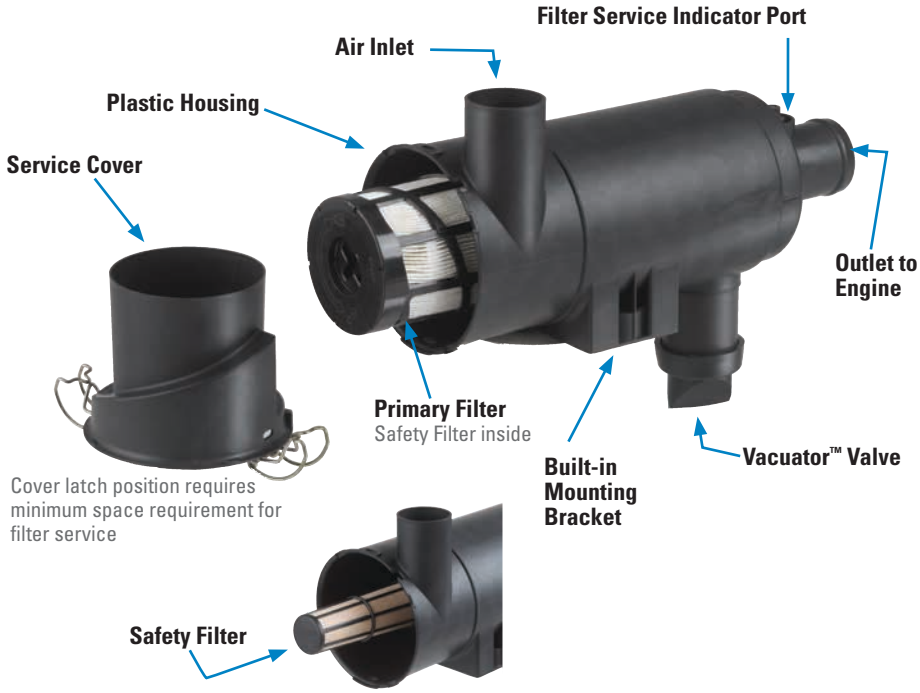
Applications

- 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 °F to 180 °F / -40 °C 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

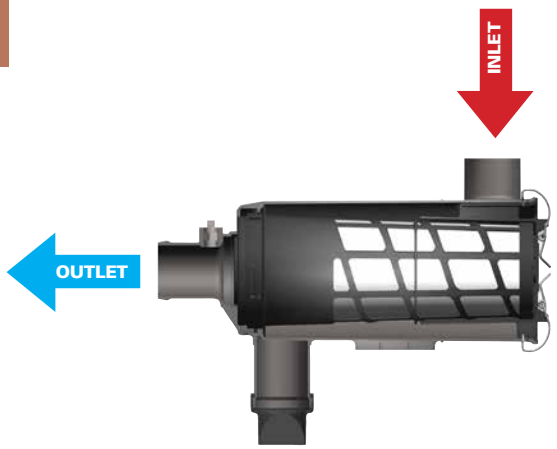
- Smaller in diameter compared to competitive brands with similar airflow
- Improved handling and maintenance — lighter and smaller, changing filters is a snap
- Product design includes:
  – primary filter
  – safety filter
  – filter service indicator port
- Improved filter disposal ease — no metal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





FKB Air Cleaners

FLOW **B** **Air in the Side, out the End** (standard flow filters)



When spec'ing an Air Cleaner . . .

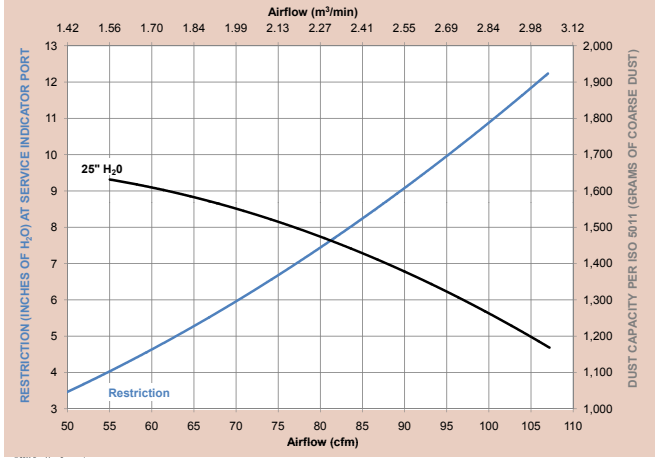
Determine the airflow requirements of your engine, then find the corresponding cfm airflow in the table at right. The restriction numbers (shown in inches of water) indicate the approximate initial restriction of each model air cleaner at that cfm. If there are two air cleaner models that fit your parameters, choosing the one with the 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, pre-cleaners, etc. See pages 257-258 for ducting restriction estimates.

Initial Airflow Restriction

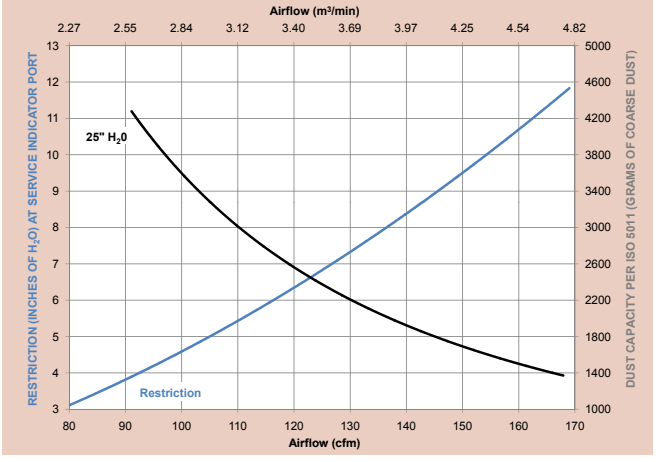
CFM@ H_2O 6"	8"	10"	Air Cleaner Model
70	84	95	B045008
116	137	154	B055006
155	185	207	B065045

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

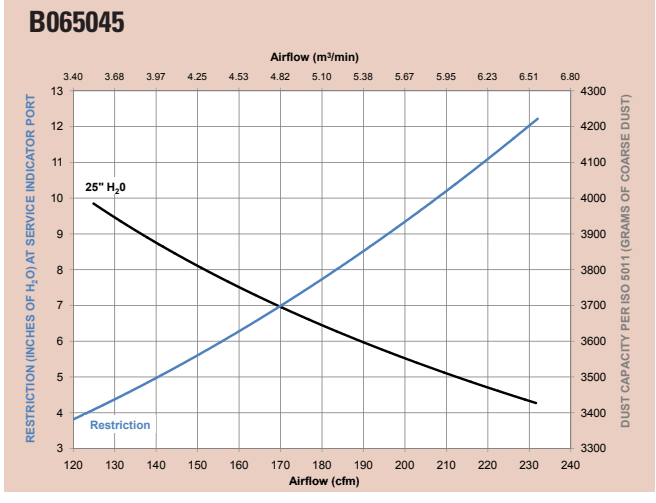
B045008



B055006

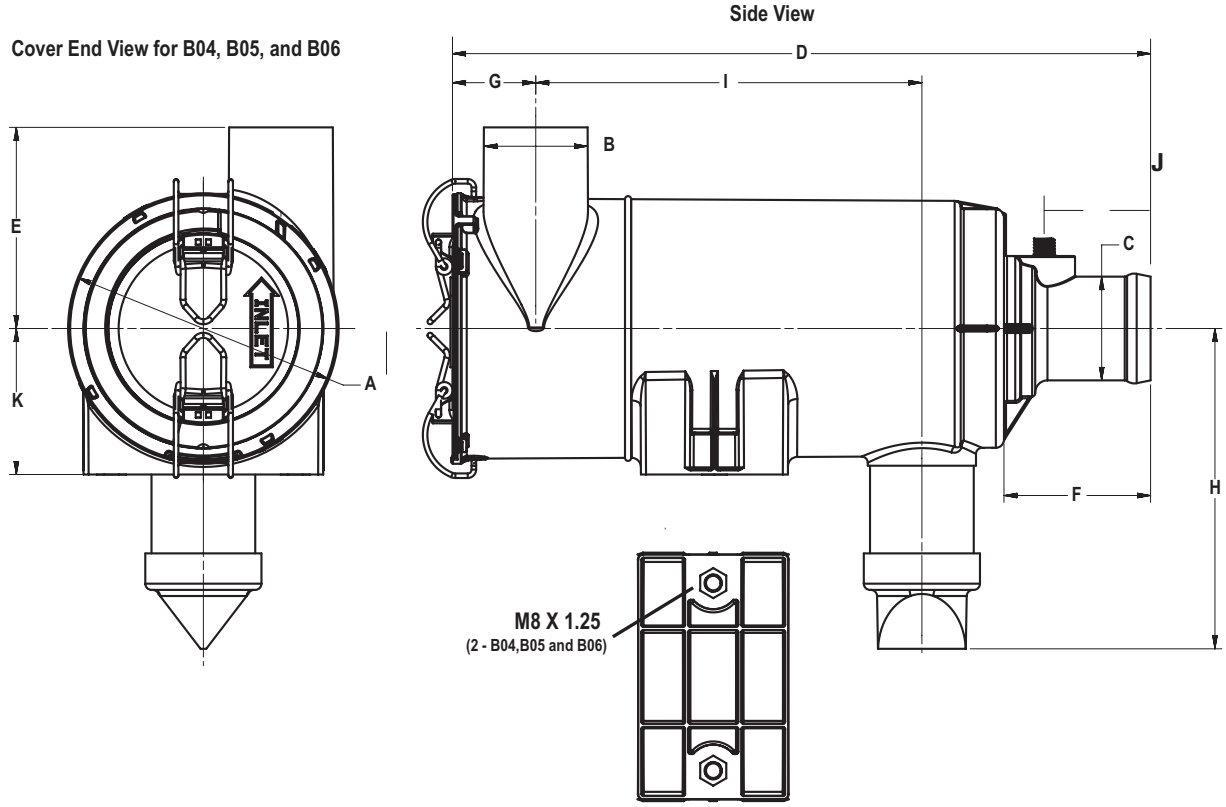


B065045



*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.

FKB Specification Illustrations

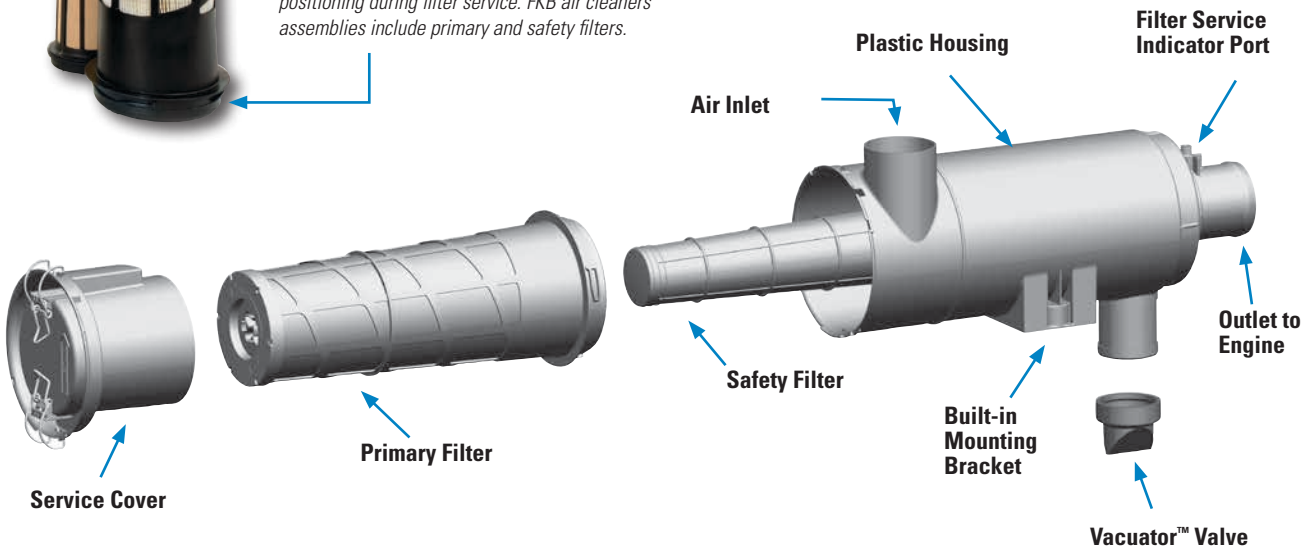


FKB Specifications

Air Cleaner Models	Body Dia. (A)	Inlet Dia. (B)	Outlet Dia. (C)	Housing Length (D)	Inlet Height (E)	Outlet Length (F)	Inlet Loca-tion (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

FKB Air Cleaners

Unique twist and lock filters ensure proper positioning during filter service. FKB air cleaners assemblies include primary and safety filters.



FKB Service Parts & Accessories

B045008 FKB

Cover	P606497
Filter, primary	P604457 3
Filter, safety	P603729 3
Vacuator™ Valve	P158914
Elbow, 45°	P105541
Elbow, 90°	P105529
Informer™ indicator 25" H_2O	X002277
Inlet hood, plastic	H001377
Outlet band clamp	P148337

B055006 FKB

Cover	P609219
Filter, primary	P609218 3
Filter, safety	P602427 3
Vacuator™ Valve	P158914
Elbow, 45°	P105543
Elbow, 90°	P105531
Informer™ indicator 25" H_2O	X002277
Inlet hood, plastic	H001378
Outlet band clamp	P148339

B065045 FKB

Cover	P608592
Elbow, 45°	P105544
Elbow, 90°	P105532
Elbow, 90° reducing	P123462
Filter, primary	P609221 3
Filter, safety	P608599 3
Hump hose	P105608
Informer™ indicator 25" H_2O	X002277
Inlet hood, plastic	H001379
Outlet band clamp	P148341
Vacuator™ Valve	P158914

NOTES:
3 = Shipped with air cleaner initially

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•lb.
- Connections: Inlet/Outlet maximum torque 40 in•lb. Indicator port maximum torque 1.5 ft•lb.
- Inlet accessory note: The air cleaner housing can accommodate a plastic inlet hood or plastic TopSpin™ pre-cleaner, but not a metal pre-cleaner or accessory.

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

Measure the restriction of the air cleaner with a Donaldson filter service indicator, service gauge, or a water manometer. 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 Clean out the Vacuator™ Valve

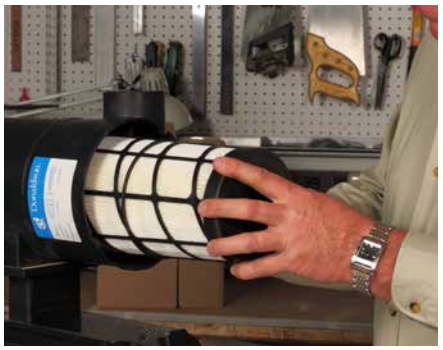
Remove the Vacuator Valve and clean out any dust found in the drop tube. Reinstall Vacuator Valve or replace it if is worn or damaged.

3 Remove the Primary Filter

Unlatch and remove the service cover on the FKB air cleaner.

To remove the primary filter, press and rotate the filter counter-clockwise until free. Then extract the primary filter by slowly pulling it out of the housing.

Note: Avoid dislodging contaminant from the filter as it is removed from the air cleaner housing.



Continued on next page

FKB Air Cleaners
Service Instructions

Donaldson FILTRATION SOLUTIONS

4 Remove the Safety Filter or Liner

Next remove the safety filter (replace at every third primary filter change) or support liner by pulling it straight out. This allows necessary access to properly clean the primary filter's seal surface.

Inspect the seal surface and housing for any damage. Replace the complete air cleaner if damage is present.

It is not necessary to replace the support liner unless it is damaged. If you are reusing the safety filter keep it clean while servicing the housing to avoid contamination.

Note: If a safety filter or liner is not present, check to see if it has attached itself to the inside of the primary filter during removal.

To properly service this small diameter air cleaner, you will need to remove the safety filter or liner upon each filter service.

5 Clean the Inside Surface

Block the outlet tube of the air cleaner using a small dampened towel prior to cleaning the seal and locking surfaces to avoid contaminating the induction system.

With a clean damp cloth, thoroughly clean the inside surface of the housing, seal and lock surfaces.

Note: Failure to clean the inside surface may cause contaminants to be introduced to the outlet tube or onto the seal area of the primary filter during reinstallation resulting in a leak for dirty air.

6 Inspect the New Filters

Inspect the new primary and safety filters for any damage, voids, cuts, tears, or indentations in the media or urethane sealing surfaces.

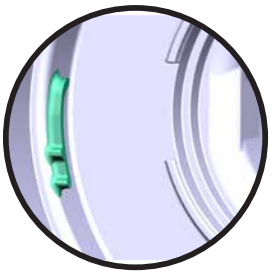
7 Install the Safety Filter

Remove the dampened towel from the outlet tube that was used to protect the induction system during servicing. Install the safety filter or support liner by pressing it firmly in place until seated. When properly fitted, it should fit snugly inside the outlet tube.

8 Install the Primary Filter

Install the new primary filter by pressing and rotating the filter clockwise until fully fitted against the stop.

Note: If you perform filter maintenance service on a schedule vs. using service indicators, you may want to write the service date on the filter end cap.



Close-up of Filter Stop

9 Fasten the Service Cover

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

Do not force the cover onto the air cleaner. It should go on easily with no extra force.

Re-fasten the latches which secure the cover. Make sure that latches penetrate the slots in both the body and the cover.

Note: If the cover does not fit flush to the body, the primary filter is not properly seated in the housing. Recheck the primary and safety filter installation following the proper installation procedure so they become fully seated.

10 Reset the Filter Indicator and Inspect the Air Cleaner System

If your system has a restriction indicator, reset the device.

Inspect and torque all clamps, bolts and connections in the entire air intake system. Check for holes in piping, and repair if needed.