

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.



The FKB's plastic housing and durable construction enables installation in all types of medium-dust environments with engine air flow from 2 - 10 m³/min.

high level of engine protection from harmful contaminants and increase engine performance and fuel efficiency.

FKB air cleaners effectively reduce contaminants flowing into the air intake system, provide a

The air cleaner models ship with both the main 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 2 to 10 m³/min.
- Installs horizontally. In case engine mount is required, contact Donaldson Representative.
- Sustained temperature tolerance: to 82°C. Do not install next to components that exceed the maximum temperature (82°C); like a turbocharger, muffler, exhaust pipe or other high temperature component



Filter changeout is a snap with minimal service clearance required

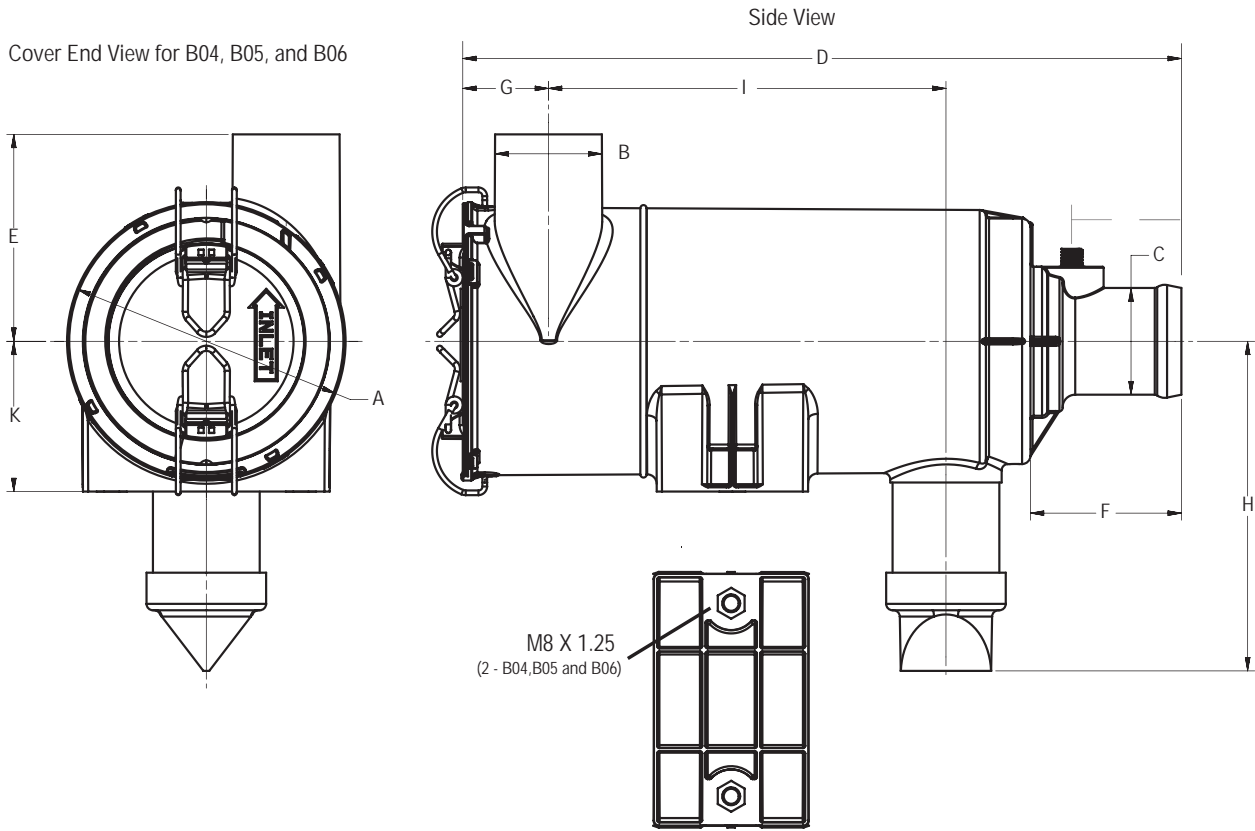
Air Cleaner Features

- 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:
 - main 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
- Mounting brackets built-in to air cleaner body eliminating need for mounting bands
- Indicator thread size = 1/8-27NPT (MALE)



Unique Twist & Lock Filter ensure proper positioning during filter service. Air cleaners assemblies include main and safety filters.

FKB Specifications - Service Parts



Air Cleaner Model No.	Airflow m ³ /min.	Range Dimensions (mm)										
		A	B	C	D	E	F	G	H	I	J	K
B045008	2 - 3	133	51	51	342	99	72	41	157	189	52	72
B055006	3 - 4	152	64	64	404	99	73	49	157	244	52	77
B065045	4 - 6	180	76	76	408	120	73	53	188	241	52	90

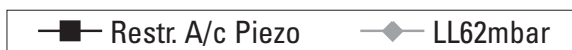
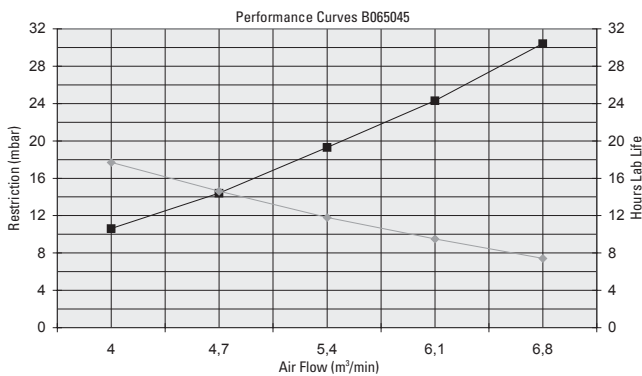
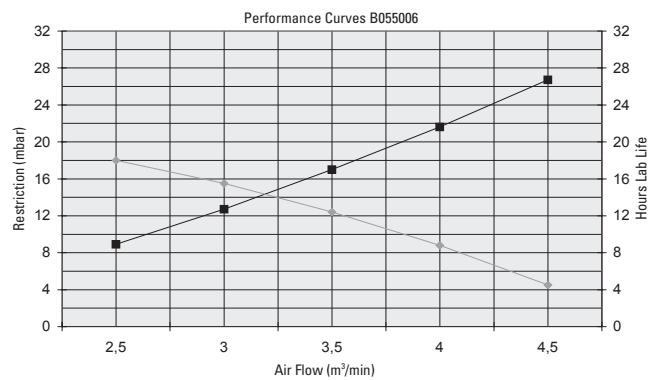
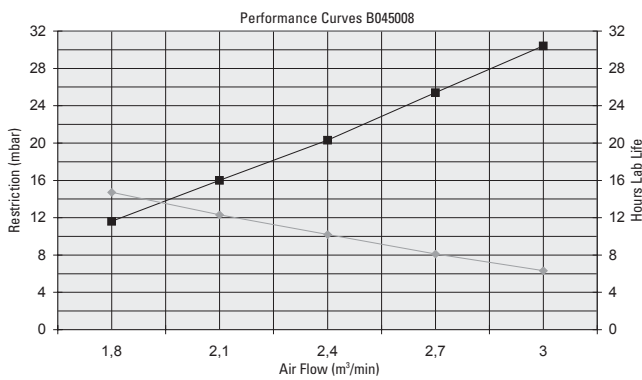
Service Parts

Air Cleaner Model No.	Main Element	Safety Element	Access Cover Assy	Vacuator™ Valve
B045008	P604457	P603729	P606497	P158914
B055006	P609218	P602427	P609219	P158914
B065045	P609221	P608599	P608592	P158914

When specifying an Air Cleaner...

Determine the Airflow Requirements of your engine, then find the corresponding m³/min. airflow in the charts below. The restriction numbers - shown in mbar at the left side of the chart - indicate the approximate initial restriction of each model air cleaner at that m³/min. When calculating total initial restriction of the entire air intake system, include the restriction caused by ducting, elbows, pre-cleaners, etc. The estimated lab life hours are indicated at the right side of the chart.

FKB Performance Curves



All performance curves are according ISO 5011 standards - Restriction measured at Piezo
 All tests are done with ISO Coarse at Dust Concentration of 1g/m³

Installation Recommendations

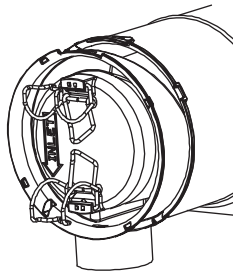
- Shut off your engine.
- Air cleaner orientation is horizontal, with the drop tube pointing down - within +/- 15°. For service clearance, allow the entire length of the filter for removal and 35mm for service cover latches.
- Mounting is M8 x 1,25 with a maximum torque of 20,34 Nm.
- Connections: Inlet/Outlet maximum torque 4,52 Nm Indicator port maximum torque 2 Nm.
- Inlet accessory note: The air cleaner housing can accommodate a lightweight inlet hood, but not a pre-cleaner or any other accessory. Use of an unapproved intake accessory will void your Donaldson warranty.

Service Instructions

1 Shut off your engine

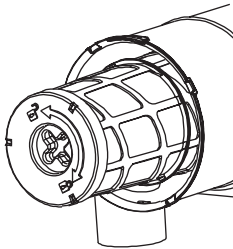
2 Remove service cover

Unlatch and remove the service cover. To remove the primary filter, press and rotate filter counterclockwise until filter is free.



3 Remove the filter

Gently pull the filter out of housing. Avoid dislodging contaminant from the filter or knocking it against the housing.

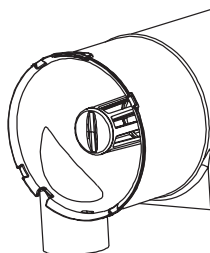


4 Clean the inside surface

With a soft rag, thoroughly clean the inside surface of the housing. Be careful not to introduce contaminant into the outlet tube.

5 Check the safety filter

Check safety filter for damage. If damaged, replace. Also check to insure that the safety filter is properly seated in the housing. It should fit snugly inside the outlet tube.



6 Inspect the new primary filter

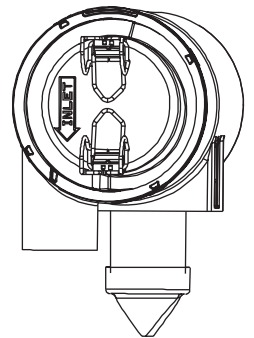
Inspect the new main filter carefully. Check for any voids, cuts, tears or indentations in the urethane-sealing surfaces.

7 Install the new filter

Install new filter by pressing and rotating the filter clockwise until fully engaged to stop.

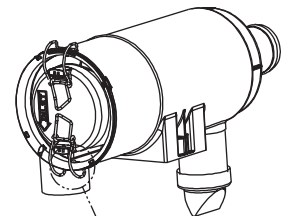
8 Replace the cover

Replace the service cover. The "INLET" arrow should line up with the air cleaner inlet. DO NOT force cover onto air cleaner. The cover should go on with no extra force. If cover is not flush to the body, the filter is not properly seated in the housing.



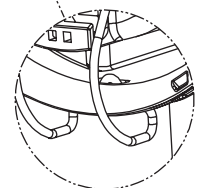
9 Refasten the latches

Refasten latches to secure cover. Make sure that latches penetrate the slots in both the body and the cover.



10 Inspect

Inspect and torque all clamps, bolts and connections in the entire air intake system. Check for holes in piping, and repair if needed. If Vacuator Valve is damaged replace.



11 Restart the engine