

Primary Dry RadialSeal™ Air Cleaners which offer improved reliability and durability, reduced weight and costs and better serviceability.

The EPB-ERB2 Primary Dry RadialSeal™ Air Cleaners are used on light-duty applications like on-highway vehicles, stand-by generator sets and all other light-duty applications. They are also used on medium- and heavy-duty applications but than always combined with a Pre-Cleaner.

For more details on EPB-ERB2 Air Cleaners with Pre-Cleaners operating in Medium Dust conditions see page 60-63 and in Heavy Dust conditions see page 93-96 .



The EPB Air Cleaner is a one-stage full-plastic air cleaner

Built with
Donaldson
Technology.



The ERB2 Air Cleaner is a one-stage hybrid air cleaner. It is the Next Generation ERB Air Cleaner Product featuring Donaldson's Unique Design Concept. For more details on this UDC Feature, see page 7.

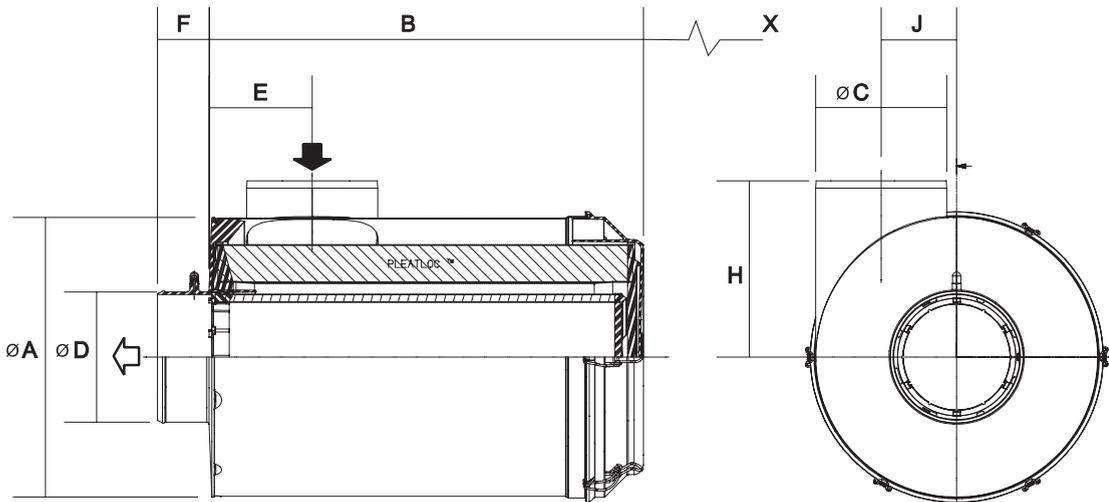
Applications EPB-ERB2

- Can be mounted vertically or horizontally
- Provides variety of airflow volumes to engine: from 2 to 65 m³/min.
- Temperature tolerance: to 83°C continuous / 105°C intermittent.

Features EPB-ERB2

- Cost effective / Compact and light
- Flexible installation / Conquers underhood space limitations
- Reliable, durable, high-tech and easy to service design
- Proven RadialSeal™ Technology
- Pre-cleaner can be added / Tapped for restriction indicator as standard
- Filter inside air cleaner is different from filters with metal end caps
- One-piece molded end caps encase the ends of media and filter liners
- Filter fits over the housing outlet tube, creating a reliable seal - with no hassle of separate sealing gaskets
- Indicator thread size = 1/8-27NPT (MALE)

EPB Specifications - Service Parts



Light Dust Conditions

Air Cleaner Model No.	Airflow m ³ /min.	Range Dimensions (mm)									
		A	B	C	D	E	F	H	J	X°	Z°
B070005*	2 - 5	182	334	76	76	45	27	115	145	340	45
B080067*	4 - 7	210	355	95	89	54	31,5	130	146	355	110

* Includes safety element
 X° Free space needed to remove main element Z° Free space needed to remove cover

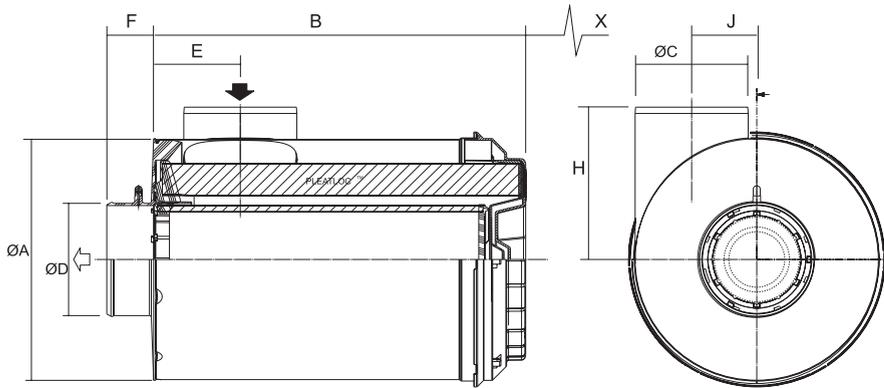
Service Parts

Air Cleaner Model No.	Main Element	Safety Element	Access Cover Assy*	Raincap	Mounting band**
B070005	P772579	P775300	P778758	H001379	P777731
B080067	P772580	P775302	P775305	H770010	P777732

* Spare Part only ** Only one mounting band needed per Air Cleaner

ERB2 Specifications - Service Parts

UNIQUE DESIGN CONCEPT



ERB2	ERB
Air Cleaners	Air Cleaners
B100126	B100120
B130057	B130010
B130058	B130013
B150058	B150025
B150059	B150028
B180016	B180011
B180017	B180012

Air Cleaner Model No.	Airflow m ³ /min.	Range Dimensions (mm)									
		A	B	C	D	E	F	H	J	X°	Z°
B100126*	8 - 14	259	430	114	102	143	52	205	0	400	75
B130057	18 - 30	330	530	178	152	180	58	215	0	360	95
B130058*	18 - 28	330	530	178	152	180	58	215	0	360	95
B150058*	18 - 32	381	590	178	178	136	70	241	102	540	93
B150059	18 - 32	381	590	178	178	136	70	241	102	540	93
B180016	32 - 65	457	650	254	203	282	85	328	0	600	130
B180017*	32 - 65	457	650	254	203	282	85	328	0	600	130

* Includes safety element X° Free space needed to remove main element Z° Free space needed to remove cover

Service Parts

ERB2 Air Cleaner	Main Element	Kit Number •	Access Cover Assy*	Raincap	Mounting band**
B100126	P785388	X770685	P784954	H770012	P004076
B130057	P785610	-	P783693	H770089	P013722
B130058	P785610	X770686	P783693	H770089	P013722
B150058	P785426	X770687	P784869	H770089	P016845
B150059	P785426	-	P784869	H770089	P016845
B180016	P785394	-	P785546	H770082	H770037
B180017	P785394	X770688	P785546	H770082	H770037

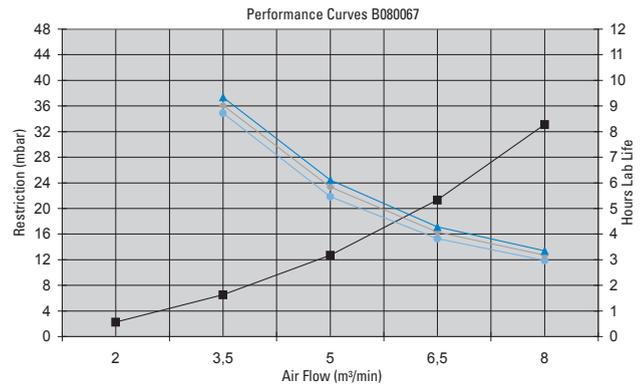
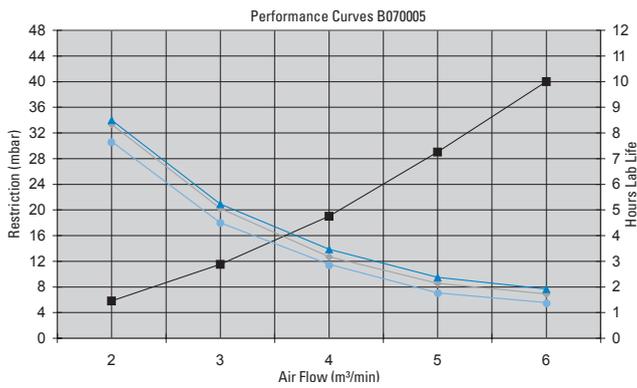
* Spare Part only ** Two mounting bands needed per Air Cleaner
 • Safety element can only be bought as a kit meaning together with the main element

Light Dust Conditions

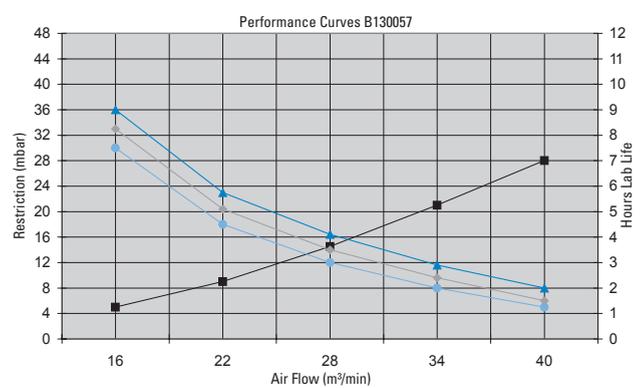
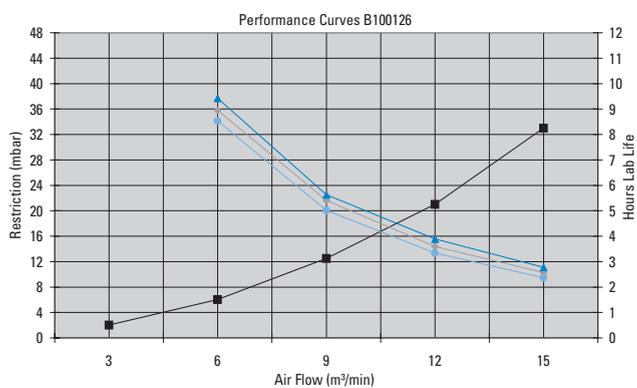
When specifying an Air Cleaner...

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.

EPB Performance Curves



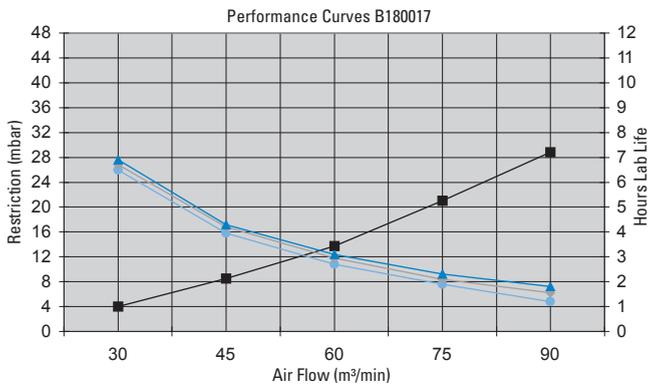
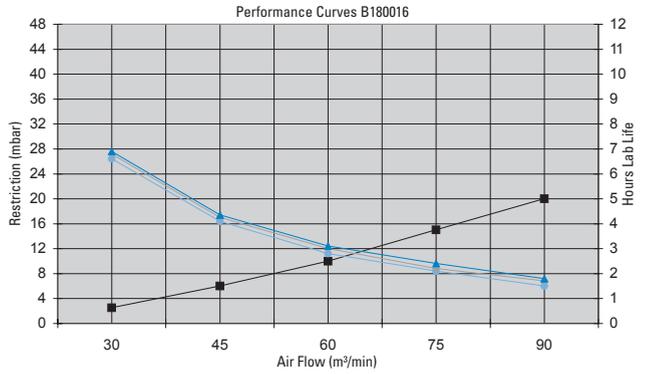
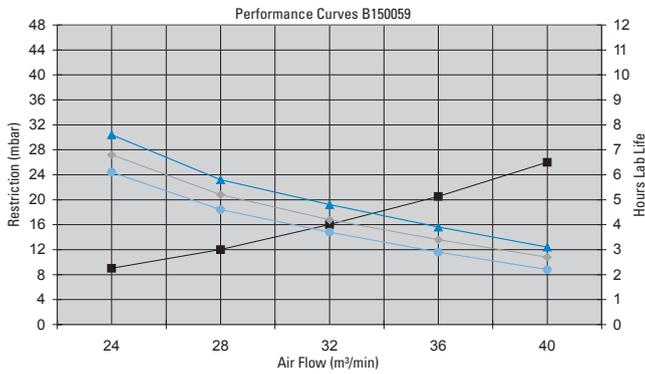
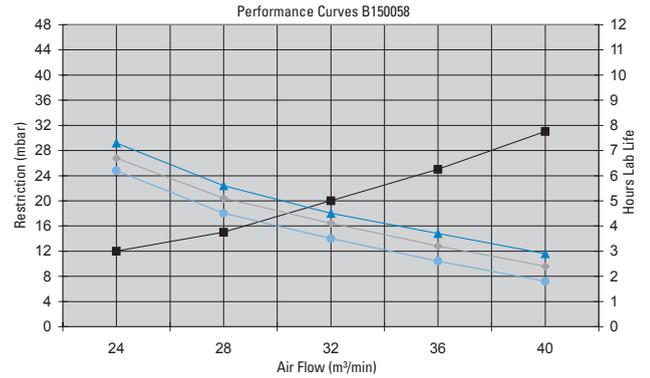
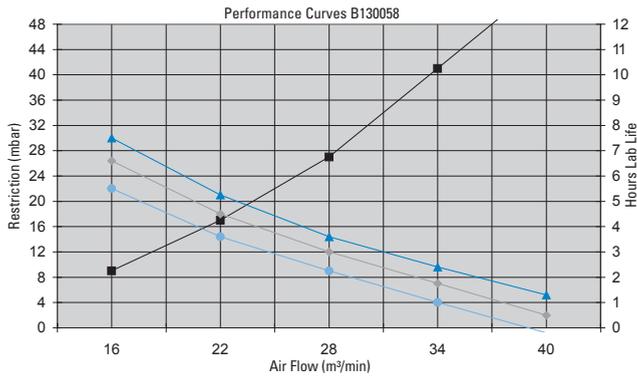
ERB2 Performance Curves



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

Light Dust Conditions

ERB2 Performance Curves



Restr. A/c Piezo
 LL50mbar
 LL62mbar
 LL75mbar

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

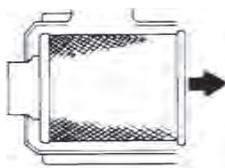
1 Remove the Filter

Unfasten or unlatch the service cover.

Because the filter fits tightly over the outlet tube to create the critical seal, 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.



Rotate the filter while pulling straight out.



If your air cleaner has a safety filter, replace it every third primary filter change. Remove the safety filter as you would the primary filter. Make sure you cover the air cleaner outlet tube to avoid any unfiltered contaminant dropping into the engine.

2 Clean Both Surfaces of the Outlet Tube and Check the Vacuator™ Valve

Use a clean cloth to wipe the filter sealing surface and the inside of the outlet tube. Contaminant on the sealing surface could hinder an effective seal and cause leakage. Make sure that all contaminant is removed before the new filter is inserted. Dirt accidentally transferred to the inside of the outlet tube will reach the engine and cause wear. Engine manufacturers say that it takes only a few grams of dirt to “dust” an engine! Be careful not to damage the sealing area on the tube.



Outer edge of the outlet tube

Wipe both sides of the outlet tube clean.



Inner edge of the outlet tube

If your air cleaner is equipped with a Vacuator Valve

Visually check and physically squeeze to make sure the valve is flexible and not inverted, damaged or plugged.



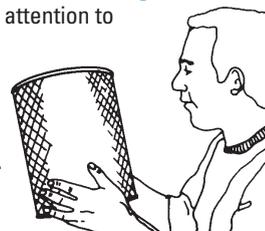
3 Inspect the Old Filter for Leak Clues

Visually inspect the old filter for any signs of leaks. A streak of dust on the clean side of the filter is a telltale sign. Remove any cause of leaks before installing new filter.



4 Inspect the New Filter for Damage

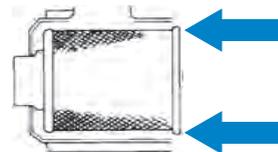
Inspect the new filter carefully, paying attention to the inside of the open end, which is the sealing area. NEVER install a damaged filter. A new Donaldson radial seal filter may have a dry lubricant on the seal to aid installation.



5 Insert the New Radial Seal Filter Properly

If you're servicing the safety filter, this should be seated into position before installing the primary filter.

Insert the new filter carefully. Seat the filter by hand, making certain it is completely into the air cleaner housing before securing the cover in place.



The critical sealing area will stretch slightly, adjust itself and distribute the sealing pressure evenly. To complete a tight seal, apply pressure by hand at the outer rim of the filter, not the flexible center. Avoid pushing on the center of the urethane end cap. No cover pressure is required to hold the seal. NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing, cover fasteners and will void the warranty.

If the service cover hits the filter before it is fully in place, remove the cover and push the filter (by hand) further into the air cleaner and try again. The cover should go on with no extra force.

Once the filter is in place, secure the service cover.

Caution

NEVER use the service cover to push the filter into place! Using the cover to push the filter in could cause damage to the housing, cover fasteners and will void the warranty.



6 Check Connectors for Tight Fit

Make sure that all mounting bands, clamps, bolts, and connections in the entire air cleaner system are tight. Check for holes in piping and repair if needed. Any leaks in your intake piping will send dust directly to the engine!