Convenient DuraLite[™] Disposables Rugged Air Cleaners for Small and/or High Pulsation Gas & Diesel Engines

Donaldson's DuraLite Air Cleaners are tough, non-metallic, lightweight, self-supporting, and completely disposable. They are also easy to install, durable, and reliable.

They are designed to function well under high and severe pulsation conditions found in many applications, especially two- and three-cylinder engines. Vibrationresistant media is potted into molded housings of rugged ABS plastic — so they don't fall apart as other designs might.

Applications

- Can be mounted vertically or horizontally
- Gas and diesel engines and hybrid vehicles in light to medium dust conditions
- Powered vehicles and equipment
- Mobile engines
 - Stepvans
 - Recreational vehicles
 - Lawn and garden tractors
- Stationary engines
 - Air compressors
 - Refrigeration units
 - Material handling equipment pumps
 - Gen sets

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- -Welding equipment
- Marine engines
- Propulsion units
- Gen sets
- Provides variety of airflow volumes to engine: from 42 to 2118 cfm
- Temperature tolerance: 180 °F/83 °C continuous 220 °F/105 °C intermittent



Donaldson recommends the use of a high torque hose clamp (up to 150 in-lbs) for DuraLite air cleaners. This

clamp eliminates the need for double clamping. Order one for each DuraLite air cleaner. See Accessories Section for more information.



DuraLite[™] Air Cleaners — sturdy, one-piece, and disposable — are designed to withstand the high pulsation of small engines such as the ones shown here. They are easy to maintain because there are no service parts. When the filter is full, simply throw it away.



Air Cleaner Features

- No serviceable parts. Air cleaner housing and filter are one unit.
- housing and filter are one unit.Designed to withstand severe intake
- pulsationEconomical replacement cost
- Self-supporting, sturdy
- Very reliable: only one critical seal
- Lightweight and compact in size
- Non-metallic (except B085008 which is galvanized steel), non-corrosive . . . ideal for marine applications
- Completely disposable . . . acceptable for normal trash pick-up (DuraLite should not be incinerated)

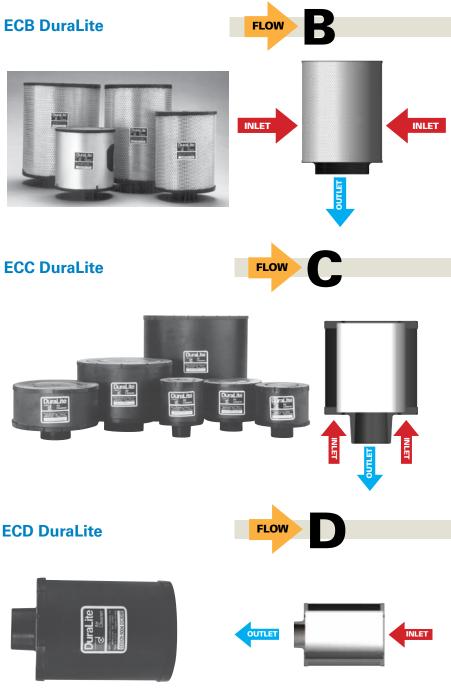
- Easily installed and maintained
- Minimal removal clearance needed only 1.5"
- Three airflow styles available to fit virtually any engine intake configuration
- Various media available for specific applications high pulsation and high humidity

DuraLite[™] Air Cleaners



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 271-272 for ducting restriction estimates.



Note: D065008 has inlet holes on both ends of filter

*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.

ECB Initial Airflow Restriction*

4" CF	M @ "H ₂ 6"	20 8"	Air Cleaner Model
175	250	300	B085008
275	335	390	B085001
275	335	390	B085048
280	400	470	B085011
280	400	470	B085046
380	440	480	B105020
400	580	710	B105002
450	590	680	B105006
700	882	1024	B125011
800	1060	1250	B125005
830	1110	1295	B125003
970	1215	1412	B085056
1060	1305	1500	B120439
1550	1836	2118	B120376

ECC Initial Airflow Restriction*

42 55 64 C045001 55 70 82 C045002 64 82 94 C055003 70 90 106 C055002 95 111 140 C065001 108 137 162 C065002 112 145 170 C085001 115 147 190 C065015 115 150 175 C085003 120 150 175 C085003 130 165 188 C085002 135 170 195 C085043 150 180 215 C085003 170 205 245 C085004 170 205 245 C085041 325 400 480 C105003 352 400 480 C105003	4" CF	FM @ "H 6"	20 8"	Air Cleaner Model
64 82 94 C055003 70 90 106 C055002 95 111 140 C065001 108 137 162 C065002 95 111 140 C065002 112 145 170 C085001 115 147 190 C065015 115 150 175 C085003 120 150 175 C065003 130 165 188 C085006 135 170 195 C085003 150 180 215 C085003 170 205 245 C085004 170 205 245 C085041 325 400 480 C105003 352 400 480 C105028	42	55	64	C045001
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112 145 170 C085001 115 147 190 C065015 115 150 175 C085005 120 150 175 C065003 130 165 188 C085006 135 170 195 C085006 135 170 195 C085003 150 180 215 C085003 170 205 245 C085004 170 205 245 C085041 325 400 480 C105003 352 400 480 C105028	95	111	140	C065001
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115 150 175 C085005 120 150 175 C065003 130 165 188 C085002 135 170 195 C085003 135 170 195 C085043 150 180 215 C085003 170 205 245 C085004 170 205 245 C085041 325 400 480 C105003 352 400 480 C105028	112	145	170	C085001
120 150 175 C065003 130 165 188 C085002 135 170 195 C085006 135 170 195 C085003 135 170 195 C085003 150 180 215 C085003 170 205 245 C085004 170 205 245 C085041 325 400 480 C105003 352 400 480 C105028	115	147	190	C065015
130 165 188 C085002 135 170 195 C085006 135 170 195 C085003 150 180 215 C085003 170 205 245 C085004 170 205 245 C085004 170 205 245 C085004 170 205 245 C085004 325 400 480 C105003 352 400 480 C105028	115	150	175	C085005
135 170 195 C085006 135 170 195 C085003 150 180 215 C085003 170 205 245 C085004 170 205 245 C085004 170 205 245 C085004 170 205 245 C085004 325 400 480 C105003 352 400 480 C105028	120	150	175	C065003
135 170 195 C085043 150 180 215 C085003 170 205 245 C085004 170 205 245 C085041 325 400 480 C105003 352 400 480 C105028	130	165	188	C085002
150 180 215 C085003 170 205 245 C085004 170 205 245 C085041 325 400 480 C105003 352 400 480 C105028	135	170	195	C085006
170 205 245 C085004 170 205 245 C085004 170 205 245 C085004 325 400 480 C105003 352 400 480 C105028	135	170	195	C085043
170205245C085041325400480C105003352400480C105028	150	180	215	C085003
325 400 480 C105003 352 400 480 C105028	170	205	245	C085004
352 400 480 C105028	170	205	245	C085041
	325	400	480	C105003
400 500 620 C105004	352	400	480	C105028
	400	500	620	C105004
400 500 620 C105017	400	500	620	C105017
670 830 950 C125004	670	830	950	C125004
670 830 950 C125017	670	830	950	C125017

ECD Initial Airflow Restriction*

4" CF	:М @ "Н 6"	Air Cleaner Model	
44	56	65	D045003
50	64	75	D045004
78	97	115	D055004
102	127	152	D065003
125	155	185	D065008



ECB DuraLite[™] Specifications

Air Cleaner Models	Bo Diam (A in	ieter	Dian	Outlet Diameter (C) in mm		Length (D) in mm		let gth -) mr	Media Type	Weight Ibs kg	
B085001	8.50	216	3.00	76	11.00	279	1.38	35	А	4.2	1.9
B0850081	8.75	222	3.00	76	8.50	216	1.38	35	А	5.5	2.5
B085011	8.50	216	4.00	102	11.00	279	1.38	35	А	4.2	1.9
B085046	8.50	216	4.00	102	11.00	279	1.38	35	В	4.2	1.9
B085048	8.50	216	3.00	76	11.00	279	1.38	35	В	4.2	1.9
B085056	7.72	196	5.9	150	11.02	280	1.38	35	В	3.2	1.5
B105002	10.50	267	5.00	127	15.00	381	1.38	35	С	5.9	2.7
B105006	10.50	267	4.00	102	10.50	267	1.38	35	А	5.2	2.4
B105020	10.50	267	4.00	102	10.50	267	1.38	35	В	3.6	1.6
B120376	12.5	318	7.8	198	15.75	400	1.89	48	D	8.0	3.6
B125011	12.5	318	5.0	127	9.0	229	1.38	35	D	6.6	3.0
B120439	12.5	318	7.78	197	15.75	400	1.57	40	А	3.5	1.6
B125003	12.50	318	6.00	152	15.00	381	1.38	35	С	7.1	3.2
B125005	12.50	318	5.50	140	9.00	229	1.38	35	D	5.0	2.3

ECC DuraLite[™] Specifications

Air Cleaner			Outlet Diameter (C)		(D	Length (D)		Outlet Length (F)		Weight	
Models	in	mm	in	mm	in	mm	in	mr	n	lbs	kg
C045001	4.50	114	1.50	38	4.50	114	1.38	35	С	0.6	0.27
C045002	4.50	114	1.50	38	8.00	203	1.38	35	С	0.9	0.40
C055002	5.50	140	1.75	44	7.00	178	1.38	35	С	1.0	0.45
C055003	5.50	140	1.75	44	4.00	102	1.38	35	С	1.0	0.45
C065001	6.50	165	2.00	51	4.00	102	1.38	35	С	0.8	0.36
C065002	6.50	165	2.00	51	7.50	191	1.38	35	С	1.3	0.60
C065003	6.50	165	2.25	57	5.00	127	1.38	35	С	1.0	0.45
C065015	6.50	165	2.00	51	9.00	229	1.38	35	D	2.0	0.90
C085001	8.50	216	2.50	64	4.00	102	1.38	35	С	1.4	0.64
C085002	8.50	216	2.50	64	6.50	165	1.38	35	С	2.2	1.0
C085003	8.50	216	3.00	76	5.00	127	1.38	35	С	2.2	1.0
C085004	8.50	216	3.00	76	9.50	241	1.38	35	С	3.0	1.4
C085005	8.50	216	2.50	64	5.00	127	1.38	35	С	2.2	1.0
C085006	8.50	216	2.50	64	9.50	241	1.38	35	С	3.0	1.4
C085041 ²	8.50	216	3.00	76	9.50	241	1.38	35	С	3.0	1.4
C085043 ²	8.50	216	2.50	64	9.50	241	1.38	35	С	3.0	1.4
C105003	10.50	267	4.00	102	6.00	152	1.38	35	А	2.3	1.0
C105004	10.50	267	4.00	102	10.50	267	1.38	35	А	3.6	1.6
C105017 ²	10.50	267	4.00	102	10.50	267	1.38	35	А	3.6	1.6
C105028 ²	10.5	267	4.0	102	6.0	152	1.38	35	А	3.4	1.5
C125004	12.50	318	5.00	127	11.00	279	1.38	35	А	5.8	2.6
C125017 ³	12.50	318	5.00	127	11.00	279	1.38	35	А	5.8	2.6

ECD DuraLite[™] Specifications

Air Cleaner Models	Bo Diam (A in	neter	Out Diam (C in	neter	Len((D in		Out Len (F in	gth	Media Type n	We Ibs	ight kg
D045003	4.50	114	1.50	38	4.50	114	1.38	35	С	0.6	0.27
D045004	4.50	114	1.50	38	6.00	152	1.38	35	С	0.8	0.36
D055004	5.50	140	1.75	44	7.00	178	1.38	35	С	1.0	0.45
D065003	6.50	165	2.00	51	4.00	102	1.38	35	С	0.8	0.36
D0650084	6.50	165	2.00	51	9.00	229	1.38	35	D	1.5	0.68

Specification Illustrations

Specifications Notes:

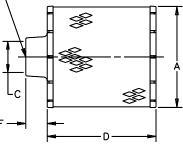
- 1 Body is galvanized steel with 4" (254mm) dia. inlet on side
- 2 Screen inlet deters rodent infestation 3 - Has an outer liner on the media pack
- 4 Has inlet holes at both ends of filter

Media Types:

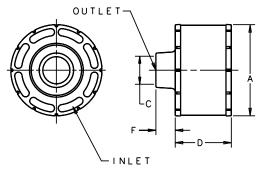
- A = Standard cellulose media B = Treated to withstand higher humidity; most often used in marine applications. Designed for higher airflow/low dust applications ... should NOT be used for normal engine operating environments.
- C = Reinforced to withstand higher pulsation applications
- D = Designed for higher airflow/low dust applications . . . should NOT be used for normal engine operating environments

ECB DuraLite



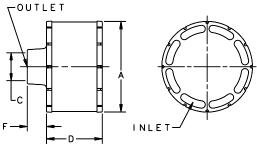


ECC DuraLite



Note: C125017 has an outer liner on the media pack

ECD DuraLite



Note: D065008 has inlet holes at both ends of filter

DuraLite[™] Air Cleaners

Direct Mount

ENGINE INTAKE

Remote Mount



Installation Instructions

Installation

DuraLite air cleaners can be mounted in two ways:

- 1. Direct Mount: mounted directly on the intake manifold.
- 2. Remote Mount: mounted away from engine and connected to engine with inlet piping.

Installation Tips

- Engage outlet neck of the DuraLite over intake piping for a full 11/2" to insure a secure, lasting seal.
- Tighten clamp around outlet neck to 60 in•lb minimum. A Donaldson high torque hose clamp is recommended.
- On remote mount style, avoid crushing the body with body clamps. A snug fit is best, and body clamps are not always required.
- · Keep away from engine manifold and other very hot components (DuraLite is rated at 180 °F / 83 °C maximum sustained temperature).
- Keep away from battery acids, brake fluid, and other caustic fluids.



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.

Servicing Intervals

Choose either of two types:

- Scheduled (Miles or Hours). DuraLite service intervals can be integrated into any existing maintenance program.
- Filter Service Indicator. This method offers the most accurate filter maintenance program, delivering maximum filter life, less machine downtime, and reduced maintenance costs.
- · Washing, cleaning or servicing the filter in any way voids the warranty.

Disposal

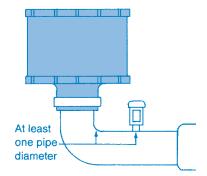
Follow your local disposal quidelines for disposal.

Service Indicator Location

For proper restriction readings, a restriction fitting tap must be located between the engine intake and DuraLite outlet neck. The tap should be located in a straight section of the intake pipe at least one pipe diameter away from the manifold or any bends, elbows or reducers.

Servicing Tips

• Do NOT judge the filter on the basis of visual inspection! If it's doing its job, it



should look dirty. DuraLite filter life is longer than you may think. Change the filter only when restriction readings indicate to do so.



During filter change out, do NOT leave the inlet ducting exposed any longer than necessary (a few minutes) during service.

Never wash or clean the unit for reuse.

torque clamp to 60 in•lb (minimum)

SNUG FIT

torque clamp to 60 in • lb (minimum)