



Filtration

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***Engine Air Filtration***

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**Selection Information**

**General**

Racor Long Life Air Filters feature a multi-stage, depth media treated with a specially formulated compound. Long Life filters are **not** cleanable and can still:

- Hold up to 8 times more contaminants than conventional paper filters.
- Provide a minimum of twice the service life of conventional paper filters.
- Increase fuel economy due to lower initial restriction.
- Prevent corrosion by repelling water.

**Twice-the-life Guarantee**

Parker Hannifin Corporation, Racor Division guarantees that each new Long Life Air Filter Element will provide a minimum of Twice-The-Life service compared to a conventional pleated paper-type air filter element, if it is installed properly and serviced according to the manufacturer’s recommended procedures.

If any Long Life Air Filter element fails to provide at least Twice-The-Life service of the conventional pleated paper-type air filter element that the user has been using, Racor will replace the air filter, **free of charge**. (See Accessories section for details).

**When to Change the Long Life Filter**

The only reliable way to tell when the filter is 'used up' is to measure the restriction. An inexpensive restriction gauge, provides a reliable restriction reading at all times.

A word about exhaust smoking. There should be little, if any, significant smoke, black or white coming from the exhaust pipe of a properly warmed engine. A lot of white smoke means that there is excess, unburned fuel being pushed through the system. Black smoke indicates incomplete combustion, typically from a restricted air intake. Check for air cleaner and related component blockages.

**Superior Performance**

The condensed report below presents results conducted in accordance with the SAE J726 JUN 87 Air Cleaner Test Code. The results provide airflow pressure drop, efficiency and dust holding capacity using a Long Life, N0387 air filter element installed in a P15-0862 housing. Clean element pressure drop and restriction, initial, incremental and cumulative efficiency, and dust holding capacity were measured. The efficiency/dust holding capacity test was conducted at 1100 SCFM (25°C, 100 kPa) using AC FINE Test Dust at a concentration of 0.25 g/m<sup>3</sup> air (0.007 g/ft<sup>3</sup> air).

The test was conducted by Southwest Research Institute, an independent scientific laboratory. All of the data below except for the far right column is an excerpt from the Southwest Research Institute test results.

Dust Holding Capacity (grams)	Pressure Drop, (in. H <sub>2</sub> O)	0.5 Micron % Efficient	5 Micron % Efficient	10 Micron % Efficient	≥ 15 Micron % Efficient	Average % Efficient	Average % Efficient
<b>8</b>	<b>5.2</b>	<b>99.82</b>	<b>93.50</b>	<b>99.87</b>	<b>100</b>	<b>97.36</b>	<b>99.20</b>
111	5.8	99.55	97.98	99.87	100	99.15	99.73
<b>228</b>	<b>6.6</b>	<b>99.66</b>	<b>98.67</b>	<b>99.66</b>	<b>99.98</b>	<b>99.36</b>	<b>99.77</b>
413	8.3	99.94	99.98	99.94	99.98	99.97	99.97
<b>530</b>	<b>9.9</b>	<b>99.99</b>	<b>99.92</b>	<b>99.96</b>	<b>100</b>	<b>99.96</b>	<b>99.98</b>
614	12.3	99.40	99.95	99.96	100	99.97	99.99
<b>756</b>	<b>18.5</b>	<b>99.90</b>	<b>99.90</b>	<b>99.96</b>	<b>99.96</b>	<b>99.94</b>	<b>99.95</b>
805	23.8	99.98	99.92	99.66	100	99.87	99.98
Dust Type		Fine	Fine	Fine	Fine	Fine	Coarse

AC FINE Test Dust was used in the actual test because it represents the most rigorous conditions. The far right column is extrapolated data weighted for AC COARSE Test Dust which is more representative of 'over-the-road' conditions.

**SELECTION**

Refer to the Index page for your equipment classification and applicable cross reference table.

For additional information, call your Racor dealer or call Racor customer service at (209) 521-7860 or (800) 344-3286, 6:00 AM to 5:00 PM, Pacific Time, or e-mail us from our website [www.parker.com/racor](http://www.parker.com/racor).

## Cross Reference Chart for Popular On-Highway Air Filter Elements

Long Life O/I	Long Life I/O	Baldwin	Donaldson	Fleetguard	Fram	Wix
AFN0391	AFN0491	PA2501	P12-9396	AF954M	CA3517	42610
AFN0581	AFN0681	PA2631	P14-2100	AF1817M	CA6326	46860
	AFT2555	PA2571	P15-1097	AF1875M	CA3691	42459
AFN0387		PA2705	P15-3551	AF1968M	CA3990	46883
	AFT2079	PA2312	P18-1007	AF853	CA1581	42618
AFN1792	AFN2581	PA2317	P18-1008	AF852	CA598	42961
	AFN2595	PA2357	P18-1009	AF865	CA596	42661
AFN1738		PA1980FN	P18-1013	AF478K	CAK558	42943
AFN1752		PA2525	P18-1015	AF982	CA1599	42491
	AFN2095	PA2493	P18-1016	AF1616	CA2539	42941
AFN1517		PA2596	P18-1030	AF1815	CA2576	46280
AFN1766		PA2333	P18-1099	AF872	CA592	42960
AFN1788		PA2394	P18-1185	AF871	CA1505	42698
	AFN2729	PA2729	P52-1598	AF4664	CA6926	46844
	AFN1366	PA2521	P18-1028	AF979	CA1596	42243
AFN0191		PA2500	P12-9472	AF1837	CA3518	42611
AFN1545		PA2661	P18-1096	AF1943M	CA3863	46596
	AFN2530	PA2439	P18-1004	AF911	CA1550	42636
	AFN2520	PA2438	P18-1005	AF910	CA1551	42635

O/I = Outside In flow

I/O = Inside Out flow

## Cross Reference Chart for Popular Transit use Air Filter Elements

Long Life O/I	Long Life I/O	AC	Air Refiner	Baldwin	Donaldson	Fleetgrd
AFT9029		PC185 A1035C	ARM2301	PA2474	P15-1951	AF1798
AFT1766		A1081C	ARM11-8047	PA2333	P18-1099	AF872
	AFS2595 AFT2595	A579C	ARM11-6880	PA2357	P18-1009	AF865
AFT1379	AFT2079	A726C A590C	ARM11-7797	PA2312	P18-1007	AF853
AFT1780	AFT2780	A774C	ARM12-4490	PA2515	P15-3973	AF995M
	AFT2555	A850C	ARM13-3754	PA2571	P15-1098	AF4782
	AFT2760		ARM15-3972	PA3573	P15-3972	AF4784
AFT1850			ARM52-2874	PA2839	P77-1582	AF1812
AFT1778			ARM11-8039	PA2394	P18-1185	AF871

O/I = Outside In flow

I/O = Inside Out flow

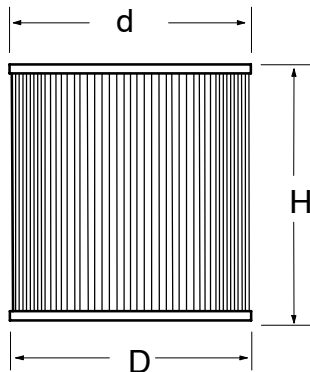
## Replacement Filters for Marine Air Filter/Silencer Will-Fit Elements

Racor now offers replacement filters for AirSep type marine applications. These filters are direct replacements for the intake air filter portion of competitive air filters/silencers. Also available is the replacement element for the Vacuum Limiter Air Separator.

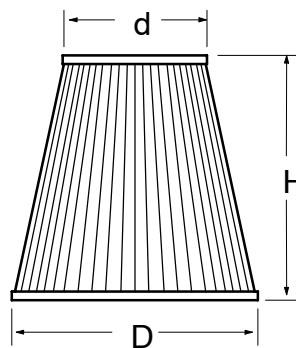
The filter media for all replacement filters is an oil-impregnated cotton gauze and is sandwiched between pleated, epoxy-coated aluminum wire-mesh with molded polyurethane sealing surfaces. **This product is cleanable and must be oiled before re-using.**

Walker Part Number	Racor Part Number	Dimensions (in inches) (D x H x d)
CD169	N/A	16 x 16 x 16
CD170	AF M8145	10 x 8 x 10
CD173	N/A	7.5 x 5 x 7.5
CD174	AF M8121	7.5 x 6 x 7.5
CD175	AF M8122	7.5 x 7 x 7.5
CD176	N/A	7.5 x 8 x 7.5
CD177	AF M8124	7.5 x 9 x 7.5
CD178	AF M8126	7.5 x 10 x 7.5
CD180	AF M8010	3" Air Separator Element
CD181	AF M8146	10 x 10 x 10
CD182	AF M8143	10 x 12 x 10
CD183	AF M8153	12 x 12 x 12
CD184	AF M8037	9 x 14 x 6.875
CD185	N/A	10 x 14
CD186	AF M8152	12 x 7 x 12
CD187	AF M8155	12 x 8 x 12
CD189	N/A	12 x 14 x 12
CD190	AF M8026	7.5 x 10 x 5.125
CD194	AF M8021	7.5 x 6 x 5.125
CD195	AF M8025	7.5 x 8 x 5.125
CD196	AF M8034	9 x 9
CD197	AF M8033	9 x 12
CD200	AF M8134	9 x 9 x 9
CD201	AF M8133	9 x 12 x 9
CD202	AF M8141	10 x 6 x 10
CD203	AF M8151	12 x 6 x 12
CD204	AF M8156	12 x 10 x 12
Detroit Diesel PN.		
23508033	AF M8033	12" Filter
23508034	AF M8034	9" Filter

AF M81xx Series



AF M80xx Series



## DDC Marine Intake Silencer Foam Wrap

Part Number	Quantity
AF M8001	6 per package

Foam cover improves filtration and further reduces noise on Detroit Diesel style intake silencers

## Air Service Restriction Indicator

### When should you change your Long Life filter?

Long Life filters do a great job of stopping dirt, soot and water before they can contaminant your engines. Such a great job that a filter that has been in use for awhile will look very dirty like it is already clogged. But that just means it is doing its job. Remember that every filter change is an opportunity to contaminant your engine, so unnecessary changes should be avoided. The only way to tell when the filter is 'used up' is to measure the restriction. Your shop has equipment for precise measurement during service stops. An inexpensive restriction gauge, will give your drivers a restriction reading your shop can verify when they get back in.

Part Number	Scale/Description	Case Qty.
AF H8500	20 in.H <sub>2</sub> O	1
AF H8501	25 in.H <sub>2</sub> O	1
AF H8502	30 in.H <sub>2</sub> O	1
AF H8510	20 in.H <sub>2</sub> O, Dash Mount	1
AF H8511	25 in.H <sub>2</sub> O, Dash Mount	1
AF H8512	30 in.H <sub>2</sub> O, Dash Mount	1
AF H8520	20 in.H <sub>2</sub> O, Electric	1
AF H8521	25 in.H <sub>2</sub> O, Electric	1
AF H8522	30 in.H <sub>2</sub> O, Electric	1
AF H8530	20 in.H <sub>2</sub> O, Remote Mount	1
AF H8531	25 in.H <sub>2</sub> O, Remote Mount	1
AF H8532	30 in.H <sub>2</sub> O, Remote Mount	1

