RACOR®

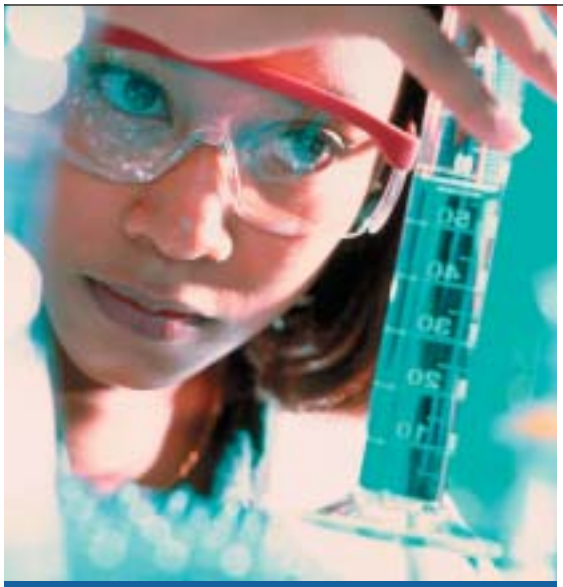
Air Filtration Systems

- *Mobile & Stationary Heavy-Duty Air Cleaners*
- *Combination Air Filters & Pre-Cleaners*
- *Pre-Cleaners & Separators*
- *Crankcase Ventilation Filtration Systems*
- *Marine Air Filter/Silencers*
- *Air Filter Elements*
- *Cabin Air Filters*

Parker

Fresh air. That's what Racor air filtration is all about. Because when engines breathe easier they perform better – with more power, more torque and with improved fuel economy. The Racor lineup includes heavy-duty air cleaners and pre-cleaners, crankcase ventilation, marine filter/silencers, cabin air filters and replacement filters. All are super high-efficiency, with engineered, application-specific media that improves performance as it extends service life. Whatever your application, there's a Racor Air Filtration System that will help you and your engine breathe easy.

FUEL



1969
It all began with a patented, exceptionally efficient fuel filter/water separator. Today, the Racor Turbine Series remains the preferred choice on land and sea.

1995
Alternative fuels are, in one way, just like diesel – they're susceptible to the problems that result from water and solid contamination. Racor responds with a complete line of pre-strainers and coalescers.

1983
Aquabloc® media debuts, and Racor Filter/Separators make another significant leap in filtration efficiency.

1997
High-flow hydrocarbon vessels are manufactured to ASME standards and filters meet API/IP and military qualifications.

1987
With see-thru bowls or UL-listed, USCG accepted metal bowls Racor's diesel and gasoline filter/separators introduced convenience, reliability and peace-of-mind in one easy spin.

1991
Racor makes a commitment to the environment with Lifeguard, a fuel/air separator that prevents fuel from escaping overboard from vent lines during refueling.

2002
The Racor Fuel Conditioning Module delivers consistent fuel pressure and volume to high-pressure fuel injection systems under various speeds, loads and environmental conditions.

OIL

1992

Revolutionary, permanent full-flow oil filtration systems put an end to messy filter changes and expensive disposal. These remote mounts can be combined with Racor bypass oil filters and oil analysis to significantly extend oil changes.

1995

The Racor spin-on oil solution is ingenious and offers a permanent cleanable system that puts an end to frequent and messy on-board filter changes.

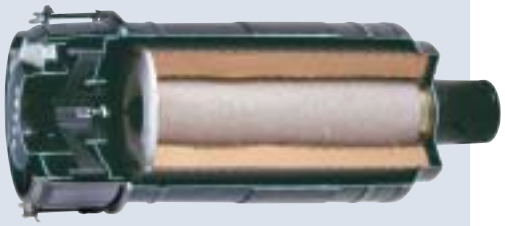
2001

The LFS300 Series converts a standard disposable spin-on can to a premium cartridge oil filter that's crushable, burnable and increases capacity and efficiency.

AIR

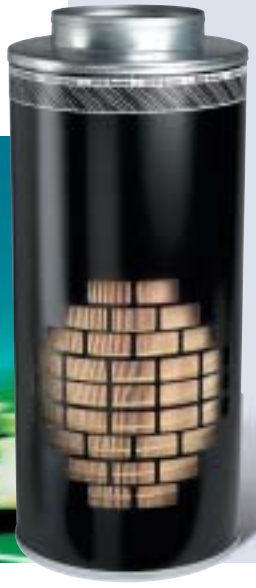
1994

Engines gasping for a breath of fresh air breathe easy with the introduction of heavy-duty air filters.



1995

Crankcase ventilation filter systems that keep oily blowby from coating turbochargers and precision components are introduced. While cleaning up engine compartments, Racor CCV systems meet new environmental regulations to control crankcase emissions.



1999

Racor debuts its own marine air intake filters to provide clean intake air and reduce turbo noise.

2002

High-performance lightweight air filters protect engines from damaging contamination. A large media area reduces air flow resistance and provides higher dirt-holding capacity.

COOLANT HYDRAULIC

1993
Racor pioneers the use of coolant heating to improve filtration and engine operation in winter.

1994
Racor engineers turn their attention to hydraulic systems and respond with innovative water-absorbing media that self-regulates its performance... swelling as it reaches capacity.

1995
Racor additives help protect coolant and fuel systems with ultra high-performance. These ultra-concentrated additives are Racor protection in a bottle.

1996
Medium-pressure hydraulic filters expand Racor's commitment to ultimate filtration for every engine, every system, every flow rate.

2001
Racor adds coolant pre-heaters and battery warming pads to offer engine users a means to keep engines warmed-up and ready for instant starting without unneccesary wear to components.

ECO Series Spin-On Disposable Air Cleaners

With its revolutionary spin-on design, the completely disposable ECO Series offers faster, safer, more trouble-free service than any other air cleaner today. Built for rugged use, it combines maximum engine protection with fuel-efficient performance and long service life.

The ECO Series provides two significant improvements in engine protection. When the filter loads with dirt and replacement is required, collected dust and debris stay safely contained inside the disposable housing, eliminating the chance of contaminating the air intake system during air filter service. Since the ECO Series uses no clean air gaskets, you never have to worry about gasket leakage. The outlet simply hooks up to the intake with a rubber connection and clamp, creating a leak-tight seal.

Air flow distribution and dust loading are uniform throughout the high-performance filter cone pack, resulting in increased capacity and lower pressure differential for improved horsepower and fuel economy. All ECO Series Spin-On Filters feature water-resistant media for improved performance and optimum life.

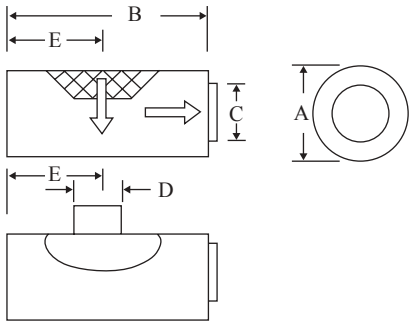
All ECO Series media is SAE-rated to 99.9% efficiency (SAE J726C).

And most importantly, during changeouts, there are no seals or gaskets to replace.

ECO II

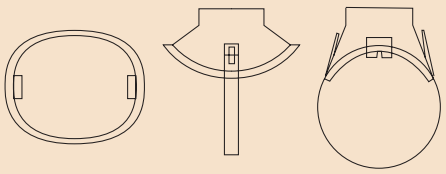
The ECO II was designed to provide lower replacement element cost on an under hood truck application due to the 2-piece design. The Inlet Adapter is a separate piece that stays on the truck and is purchased separately.

The ECO II used without the Inlet Adapter has become the standard in the Generator Set market. Air Flow is outside-in with water drain holes around the perimeter.



Part No.	Dimensions (In.) (Diameter) A	(Length) B	(Outlet) C	(Inlet) D	E	Air Flow (CFM) 4" w.g.	6" w.g.	8" w.g.	Weight lbs	kg
071338001	9.75	24	6	No Inlet Adapter	9.0	750	940	1100	12.5	5.7
				6		820	1040	1220	15.5	7.1
071338002	11	24	7	No Inlet Adapter	9.0	920	1180	1380	16.2	7.4
				7		1200	1460	1700	19.2	8.8
071338003	13.5	24	7	No Inlet Adapter	9.0	1120	1390	1600	19.0	8.6
				7		1370	1730	1950	22.0	10.0
071338004	13.5	18	7	No Inlet Adapter	9.0	1140	1440	1600	16.9	7.7
				7		1350	1700	1800	19.9	9.1
071338005	13.5	15	7	No Inlet Adapter	7.5	1140	1440	1600	14.0	6.3
				7		1350	1700	1800	17.0	7.7
071338006	13.5	24	7	No Inlet Adapter	9.0	1080	1370	1590	19.36	8.78
				7		1300	1710	1780	22.3	10.1
071338007	11	24	7	No Inlet Adapter	11.5	920	1190	1390	14.51	6.5
				7		1200	1460	1700	17.45	7.9
071338008	9.75	18	6	No Inlet Adapter	9	710	930	1070	9.13	4.14
				6		920	1030	1190	12.1	5.5
071338009	13.5	24	7	No Inlet Adapter		1210	1600	1910	9.00	5.5

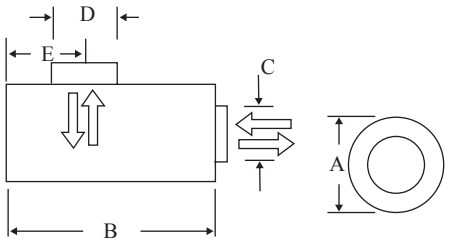
ECO II Inlet Transition



Inlet Adapter	Diameter (In.)	Outlet (In.)
073367000	9.75	6.00
071656001	11.00	6.00
071656002	11.00	7.00
072994000	13.50	7.00

ECOLITE

The original ECO Series product, the ECOLITE is still the only air filter in the industry that you can flow air in either direction. This allows a variety of installation options with the same part number replacement element. The ECOLITE can be mounted in any orientation or convenient location; under the hood or outside, direct or remote.

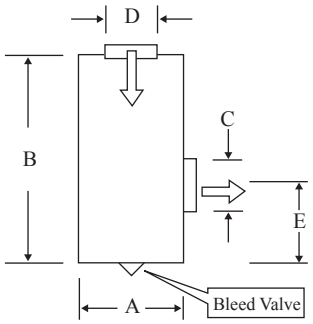


Part No.	Dimensions (In.) (Diameter) A	(Length) B	(Outlet) C	(Inlet) D	E	Air Flow (CFM) 4" w.g.	6" w.g.	8" w.g.	Weight lbs	kg
062891001	9.75	24	6	6	5.5	820	1020	1200	16.0	7.3
062891002	11	24	7	7	5.5	1100	1420	1650	19.0	8.6
062891003	13.5	24	7	7	5.5	1375	1730	1900	27.0	12.3
062891004	13.5	18	7	7	5.5	1070	1350	1590	16.3	7.4
062891005	13.5	24	7	7	12.0	1375	1730	1900	27.0	12.3
062891007	9.75	24	6	6	12.0	820	1020	1200	16.0	7.30
062891010	13.5	15	7	7	5.5	1025	1300	1540	15.27	6.93

- Tapered offset cone design assures uniform air distribution, minimizes air restriction and maximizes element service life.
- Positive barrier, pleated paper media is set in a superior quality adhesive for a permanent seal.
- The only air filter available with choice of flow directions in a single part number.
- Airflow may enter or exit end opening.

ECO-BC (Behind the Cab)

Designed for behind the cab installation on trucks, the ECO-BC must be mounted vertical with inside-out air flow. Also is used for under hood and engine compartment applications. The rubber drain valve in the bottom of the unit allows any ingested water or dirt to drain out.



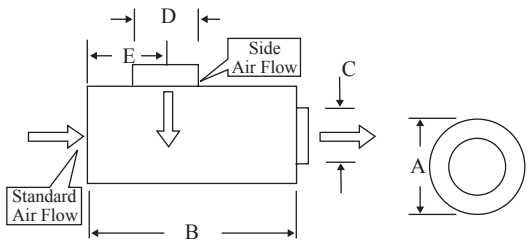
Part No.	Dimensions (In.) (Diameter) A	(Length) B	(Outlet) C	(Inlet) D	E	Air Flow (CFM) 4" w.g.	6" w.g.	8" w.g.	Weight lbs	kg
094973001	11	24	7	7	5.6	1120	1450	1600	19.0	8.6
094973002	13.5	24	7	7	5.6	1450	1620	1750	27.0	12.3
094973003	9.75	24	6	6	5.6	875	1100	1250	16.0	7.3
094973004	9.75	18	6	6	9.1	720	900	1060	10.42	4.73
094973005	13.5	15	7	7	9.6	980	1240	1470	15.43	7.00
094973006	11	18	6	7	5.6	810	1020	1200	12.64	5.73
094973007	11	18	7	7	5.6	1010	1270	1490	12.50	5.67

This Spin-On disposable air cleaner features a Slimline design for vertical installations requiring tight or limited space restrictions such as behind the truck cab.

- Inside-out vertical applications only.
- Drain valve in base for water removal.

ECO-SE (Small Engine Applications)

The ECO-SE is designed for small engine applications. It also has two unique features. First, it has a urethane outlet tube which allows the filter to be mounted directly to a metal tube or turbo without an additional rubber connection. Second, the standard unit is a straight-through air filter, air goes in one end and out the other. Intake adapters are available if you would like to remotely locate the intake. The side inlet version offers additional mounting flexibility.



Part No.	Dimensions (In.) (Diameter) A	(Length) B	(Outlet) C	(Inlet) D	E	Air Flow (CFM) 4" w.g.	6" w.g.	8" w.g.	Weight lbs	kg
114500001	6.75	13.8	3	NA	NA	240	300	340	5.0	2.3
114500002	7.75	15.8	4	NA	NA	355	440	510	6.5	3.0
114500003	9.75	18.8	5	NA	NA	610	760	890	7.9	3.6
117122000	11	24	7	NA	NA	780	960	1180	12.9	5.9

ECO-SE Side Inlet

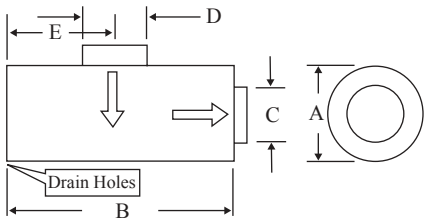
114880003	9.75	16.9	5	6	4.0	600	760	900	9.0	4.1
114880005	7.75	15.8	4	6	5.5	420	570	800	7.0	3.2

- For light and medium duty applications; smaller mobile and stationary engines up to 300 hp.
- Easy to service, compact, lightweight, high-efficiency design.
- Durable urethane outlet eliminates additional rubber connection.
- Straight-thru design improves pressure differential in smaller engine air intakes.
- Beaded cavity outlet.
- Drain holes for water removal.

ECO-LL (Long Life)

Part No.	Dimensions (In.) (Diameter) A	(Length) B	(Outlet) C	(Inlet) D	E	Air Flow (CFM) 4" w.g.	6" w.g.	8" w.g.	Weight lbs	kg
400820001	11	24	7	7	5.5	985	1240	1475	19.0	8.6
400820002					12.0	905	1140	1340	19.0	8.6
400820003					18.5	645	810	950	19.0	8.6
400820004	13.5	24	7	7	5.5	1295	1625	1910	21.5	9.8
400820005					12.0	1170	1475	1735	21.5	9.8
400820006					18.5	845	1060	1250	21.5	9.8
400820007	13.5	18	7	7	5.5	1115	1375	1590	17.0	7.7
400820008					12.5	1100	1340	1545	17.0	7.7
400820009	13.5	15	7	7	5.5	1055	1330	1560	15.1	7.0
400820010					9.5	1135	1435	1690	15.1	7.0
400820011	9.75	24	6	6	5.5	875	1100	1295	13.1	6.0
400820012					12.0	820	1035	1215	13.1	6.0
400820013					18.5	610	770	905	13.1	6.0
400820014	11	18	7	7	5.5	970	1220	1455	13.5	6.2
400820015					12.5	715	905	1075	13.5	6.2
400820016	15	24	8	8	5.5	Non-Standard Filter, Not Stocked				
400820017					12.0					
400820018					18.5					
400820019	11	13	7	7	7.5	710	920	1100	10.24	4.64
400820020	11	15	7	7	7.5	820	1040	1230	11.50	5.22
400820021	11	15	6	7	7.5	Non-Standard Filter, Not Stocked				
400820022	11	18	6	7	12.5	650	815	960	12.77	5.79
400820023	11	13	6	7	7.5	720	900	1060	10.23	4.64
400820024	13.5	24	8	10	6.5	Non-Standard Filter, Not Stocked				
400820025	15	24	8	10	6.5					

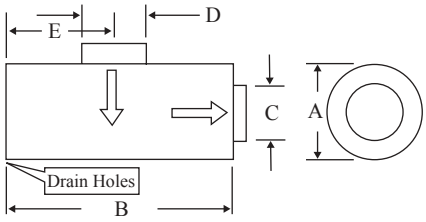
The ECO-LL is similar to the ECO-SM, but is for applications where the customer wants to get the longest life from his air filter. There are also more sizes available. It is also for outside-on air flow only and has drain holes around the perimeter.



- Spin-On disposable featured in a Long Life high-performance version.
- Use when extended maintenance intervals, or severe service, or when element life improvement is desired.
- Choice of inlet locations.
- More media surface area than scheduled maintenance style.
- Beaded outlet.
- Drain holes for water removal.

ECO-SM (Scheduled Maintenance)

The ECO-SM was designed to give additional mounting flexibility to the O.E.M. customer, while offering a greater value to the fleet that changes filter elements based on a scheduled maintenance program. Due to the various inlet tube locations, the ECO-SM is ideal for retrofit applications. It is for outside-in air flow only and has drain holes around the perimeter.



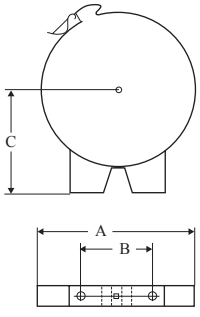
Part No.	Dimensions (In.) (Diameter) A	(Length) B	(Outlet) C	(Inlet) D	E	Air Flow (CFM) 4" w.g.	6" w.g.	8" w.g.	Weight lbs	kg
099842001	11	24	7	7	5.5	960	1210	1410	19.0	8.6
099842002					12.0	980	1220	1430	19.0	8.6
099842003					18.5	730	910	1070	19.0	8.6
099842004	13.5	24	7	7	5.5	1100	1380	1620	27.0	12.3
099842005					12.0	1130	1420	1670	27.0	12.3
099842006					18.5	1030	1280	1500	27.0	12.3
099842007	13.5	18	7	7	5.5	1120	1400	1630	24.0	10.9
099842008					12.5	1060	1320	1550	24.0	10.9
099842009	13.5	15	7	7	5.5	1070	1330	1550	22.5	10.0
099842010					9.5	1060	1320	1530	22.5	10.0

- Easy upgrade for existing air cleaners with separate elements.
- Fast and easy to service with no housing to clean or gaskets to service.
- Economical scheduled maintenance design.
- Choice of three inlet locations to match new or retrofit applications.
- Beaded outlet.
- Drain holes for water removal.

Mounting Clamps

Part No.	Dimensions (In.) A	B	C	ECO II	ECO-SE	ECO-SM	ECOLITE	ECO-BC	ECO-LL
071921001	9.80	4.50	5.50	✓	✓		✓	✓	✓
071921002	11.00	5.00	6.10	✓		✓	✓	✓	✓
071921003	13.50	6.00	7.40	✓		✓	✓	✓	✓
071921006	15.00	6.00	8.20						✓
099049001	6.85	3.50	5.12		✓				
099049002	7.85	3.50	5.62		✓				
099049003	9.77	4.50	6.60		✓				

Two required



ECO-CM Cowl Mount

For cowl-mount installation on conventional style truck cabs.

- U.S. flag logo embossed.
- Polished stainless steel cover.
- Air inlet/rain cap is standard.
- Right- and left-hand versions.
- No bolts or filter gaskets needed to seal housing.
- Fits most existing mounting hole configurations.
- Replaceable filter element includes inlet nozzle and water drain valve.

Cowl Mounts

Part No.	Description	Filter Diameter	Replacement Element
400460001	CM-102 KW Racor Logo RH*	13.5"	078897001
400460002	CM-102 KW Racor Logo LH*	13.5"	078897001
400462001	CM-104 PB Racor Logo RH	13.5"	078897001
400462002	CM-104 PB Racor Logo LH	13.5"	078897001
400458001	CM-101 PRE 1987 PB Racor Logo RH	13.5"	078897001
400458002	CM-101 PRE 1987 PB Racor Logo LH	13.5"	078897001
500155001	CM-106 PB Racor Logo RH	15"	400122000
500155002	CM-106 PB Racor Logo LH	15"	400122000
500156001	CM-107 KW Racor LogoRH	15"	400122000
500156002	CM-107 KW Racor Logo LH	15"	400122000

* For pre-1981 Kenworth use P/N 093759000 Adapter Bracket for each side.

Replacement Parts

Part No.	Description	Filter Diameter
400461001	CM-102 KW Racor Logo RH Stainless Cover	13.5"
400461002	CM-102 KW Racor Logo LH Stainless Cover	13.5"
400463001	CM-104 & CM-101 PB Racor Logo RH Stainless Cover	13.5"
400463002	CM-104 & CM-101 PB Racor Logo LH Stainless Cover	13.5"
400431000	Air Intake/Rain Cap	13.5"
078950000	Clamping Channel Replacement Kit	13.5" & 15"
500157001	CM-106 PB Racor Logo RH Stainless Cover	15"
500157002	CM-106 PB Racor Logo LH Stainless Cover	15"
500158001	CM-107 KW Racor Logo RH Stainless Cover	15"
500158002	CM-107 KW Racor Logo LH Stainless Cover	15"
400135000	Air Intake/Rain Cap	15"

Optional stainless steel face plate shown

Ember separator packs without mounting flange

Part No.	Width (In.)	Height (In.)	Depth (In.)	Area (Sq. In.)
123970001	20.00	8.00	1	160
123970002	8.62	7.94	1	69
123970003	20.00	5.50	1	110
123970004	9.00	20.75	1	187
123970005	12.00	9.50	1	114
123970006	10.75	9.25	1	99.4
123970007	20.75	11.25	1	233.4
123970008	15.00	4.00	1	60
123970009	7.75	7.75	1	60
123970010	5.88	20.60	1	121.3
123970011	8.00	9.00	1	72
123970012	5.50	16.25	1	89.4
123970013	25.00	3.50	1	87.5
123970014	3.50	12.00	1	42
123970015	15.50	8.00	1	124
123970016	8.75	23.00	1	201.3
123970017	12.75	5.34	1	68
123970018	9.50	5.34	1	50.8
123970019	7.00	16.00	1	112
123970020	6.80	11.88	1	81.8
123970021	17.10	11.35	1	194
123970022	16.25	5.50	1	89.4
123970023	5.50	10.00	1	55

UniPamic® Light & Medium Service Air Cleaners

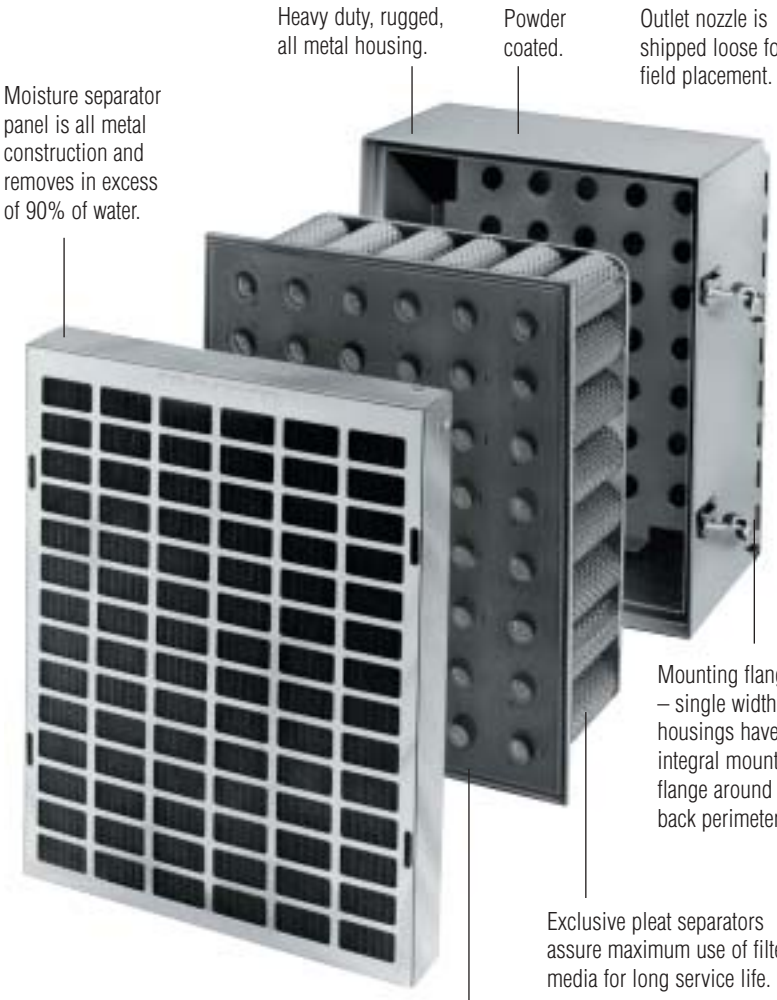
UniPamic Series Air Cleaners provide unmatched engine protection for a wide range of equipment, from on-highway trucks to compressors, stationary engines to marine engines.

Greatest Protection – The Pamic filter element has an average efficiency rating of 99.9% (SAE J726). It begins at a high level and continues to increase throughout the life of the filter.

Extended Service Life – The unique construction of the Pamic element with its exclusive mechanical pleat separation, provides more usable filter area than any competitive air cleaner, thus offering longer element life. UniPamic models feature an efficient moisture separator panel which removes over 90% of the water that may enter the face of the air cleaner. AutoPamic® models can be upgraded to include a gravity-discharged dust pre-cleaner. RotoPamic® models are upgradeable to either a compressed air or exhaust-aspirated pre-cleaner. An optional, easy-to-use service indicator tells when to change the filter element assuring maximum usage and lowest operating filter costs.

Increased Horsepower, Reduced Fuel Consumption – With its low intake air restriction and its greater effective media area than other dry-type air cleaners, the Pamic Series offers improved fuel economy and lowers per hour operating costs.

Easy To Service – No special tools or techniques, dirt is held inside the pleated filter element tubes. The filter is replaced from the dirty side of the air cleaner, reducing the danger of engine contamination. Because it is an integral part of the filter element, there are no separate gaskets to replace.



Basic UniPamic/Single Stage

- Moisture Separator panel.
- Pamic Filter Element.
- Air Cleaner Housing with integral mounting flanges and fasteners. Outlet nozzle must be ordered separately on all but Slimline double vertical kits.

Basic Unipamic Kits

No. of Tubes			Part Numbers				Application		Dimensions			
Total	Wide	High	Kit Number*	Moisture Separator	Element Number	Recommended Outlet Nozzle O.D. (In.)	Flow Rate Range (CFM)	Hp Range	Approx. Ship Weight (lbs)	(Kg)	Width (In.)	Height (In.)
9	3	3	062701003	056519010	012233003	3.0	100 - 250	50 - 125	25	11	8.59	8.59
12	3	4	062701004	056519011	012233004	3.0	250 - 300	125 - 150	30	14	8.59	10.91
24	4	6	062701010	056519016	012233007	4.0	350 - 600	175 - 300	44	20	10.91	15.53
32	4	8	062701012	056519002	012233008	5.0	500 - 800	250 - 400	55	25	10.91	20.16
40	5	8	062701013	056519003	012233009	5.0	600 - 1,000	300 - 500	62	28	13.22	20.16
48	6	8	062701014	056519004	012233010	6.0	700 - 1,200	350 - 600	69	31	15.53	20.16
64	8	8	062701015	056519005	012233011	6.0	1,000 - 1,600	500 - 800	79	36	20.16	20.16
80†	8	10	059709000	056519003 x2	012233009 x2	5.5 x2	1,200 - 2,000	600 - 1,000	119	54	27.81	20.16
96†	8	12	059711000	056519004 x2	012233010 x2	6.0 x2	1,400 - 2,400	700 - 1,200	132	60	32.44	20.16
128†	8	16	059713000	065619005 x2	012233011 x2	6.0 x2	2,000 - 3,200	1,000 - 1,600	155	70	41.69	20.16

* Nozzle or outlet not included. Must be ordered separately.

† Double side-by-side housing. Two air outlet nozzles required. There are no integral flanges on double housing.

All Units are right-hand bleed. Left-hand bleed can be custom ordered.

Air Outlet Tubes & Nozzles

Diameter (In.)	Length (In.)	Style	Ordering Number	Approx Weight (lbs)
2.00	4.00	Straight Tubes 	015382200	1.0
2.25	4.00		015382204	1.0
2.50	4.00		015382208	1.0
2.63	4.00		015382210	1.0
3.00	4.00		015382300	1.0
3.50	4.00		015382308	1.0
4.00	4.00		015382400	1.5
4.50	4.00		015382408	1.5
5.00	4.00		015382500	1.5
5.50	4.00		015382508	2.0
6.00	4.00		015382600	2.0
7.00	4.00		015382700	2.0
3.00	1.50	Nozzles 	041199001	0.70
3.50	1.5		041199002	0.80
4.00	1.63		041199003	1.00
5.00	1.88		041199004	1.20
5.50	2.13		041199005	1.40
6.00	2.13		041199006	1.60
7.00	2.13		041199007	2.50

Replacement Elements

Total Tubes	Arrangement*	Ordering Number	Designation Number
2	1 x 2	012233001	P-2
4	2 x 2	012233002	P-4
6	2 x 3	012233012	P-6
9	3 X 3	012233003	P-9
12	3 X 4	012233004	P-12
12	2 X 6	012233014	P-12-26
16	4 X 4	012233005	P-16
16	2 X 8	012233018	P-16-28
18	3 X 6	012233017	P-18
20	4 X 5	012233006	P-20
24	4 X 6	012233007	P-24
24	3 X 8	012233019	P-24-38
30	5 X 6	012233015	P-30
32	4 X 8	012233008	P-32
36	6 X 6	012233020	P-36
40	5 X 8	012233009	P-40
48	6 X 8	012233010	P-48
64	8 X 8	012233011	P-64

* Pamic air filters will fit either vertical or horizontal housings.

* Four tube model is special order only.

† Indicates two moisture separator panels and two filter elements in a single housing.

* Airflow capacities beyond maximum recommendations will result in higher resistance and reduced filter life.

AutoPamic Air Cleaners

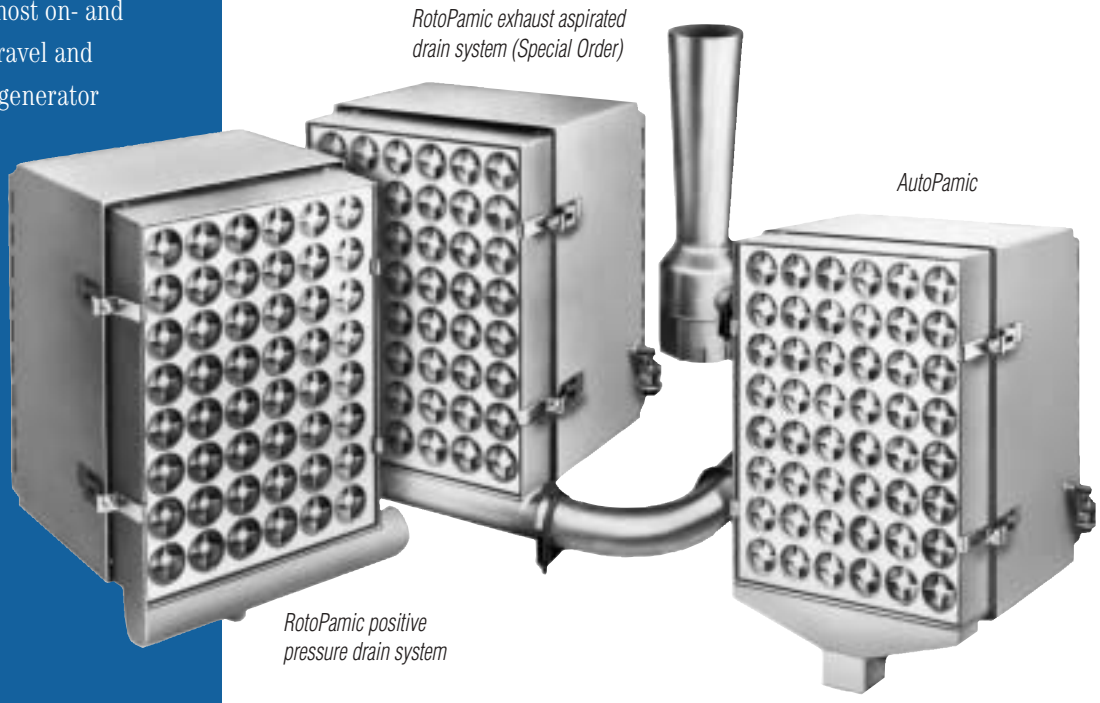
For Medium and Heavy Service

Medium service includes most on- and off-highway uses such as gravel and ready-mix trucks, outdoor generator sets, garbage trucks, fire trucks, air compressors and pumps.

This AutoPamic air cleaner model with a gravity discharge pre-cleaner is the easiest to install. It may be used on all types of engines.

Note: While total system efficiency is 99.9%, this pre-cleaner is 86% efficient (per SAE J726c).

Two Stage Medium to Extra Heavy Service Air Cleaners



AutoPamic & RotoPamic Sizing

The chart below shows the number of filter tubes needed to meet engine air flow requirements. Match the CFM of your engine to the type of service the air cleaner will experience. Recommended air cleaner size, for type of service shown, has been calculated for an optimum range of engine intake restriction, dirt-holding capacity and filter service life.

Basic AutoPamic Gravity Discharge Kits

No. of Tubes			Part Numbers			Application		Dimensions			
Total	High	Wide	Kit Number*	Element Number	Recommended Outlet Nozzle O.D. (In.)	Flow Rate Range (CFM)	Hp Range	Approx. Ship Weight (lbs)	(Kg)	Height (In.)	Width (In.)
9	3	3	062705001	012233003	3.0	150 - 200	75 - 100	32	15	8.59	8.59
12	3	4	062705002	012233004	3.0	175 - 250	80 - 125	37	17	8.59	10.91
24	4	6	062705008	012233007	4.0	350 - 450	175 - 225	62	28	10.91	15.53
32	4	8	062705010	012233008	5.0	450 - 650	225 - 325	71	32	10.91	20.16
40	5	8	062705011	012233009	5.0	600 - 800	300 - 400	84	38	13.22	20.16
48	6	8	062705012	012233010	6.0	700 - 950	350 - 475	93	42	15.53	20.16
64	8	8	062705013	012233011	6.0	950 - 1,280	475 - 640	111	50	20.16	20.16
80†	8	10	059714000	012233009 x2	5.5 x2	1,200 - 1,600	600 - 800	160	73	27.81	20.16
96†	8	12	059716000	012233010 x2	6.0 x2	1,400 - 1,900	700 - 950	175	80	32.44	20.16
128†	8	16	059718000	012233011 x2	6.0 x2	1,900 - 2,560	950 - 1,280	217	99	41.69	20.16

* Nozzle or outlet not included. Must be ordered separately.

† Double side-by-side housing. Two air outlet nozzles required. There are no integral flanges on double housing.

All Units are right-hand bleed. Left-hand bleed can be custom ordered.

RotoPamic Air Cleaners

Heavy service includes off-highway trucks, motor graders, crawler tractors, scrapers, cranes and shovels.

Extra-heavy service includes such equipment as large scrapers, rock drills, rough terrain cranes and shovels, rock drilling and quarrying compressors, and full-tracked low-speed tractors.

These pre-cleaners provide maximum service life of the disposable Pamic filter element.

Positive Pressure Bleed System

Positive pressure bleed systems can be used on all turbocharged engines and two-cycle Detroit Diesel turbocharged or naturally aspirated engines. They can also be used wherever a continuous source of compressed air (4 PSIG or greater) is available, such as the receiver tank on an air compressor.

Note: While total system efficiency is 99.9%, these pre-cleaners are 94% efficient (per SAE J726) for extended element life.

Basic two stage kits include:

Outlet nozzle must be ordered separately.

- AutoPamic Pre-Cleaner
- RotoPamic Pre-Cleaner
- Pamic Filter Element
- Air Cleaner Housing
- Service Indicator
- Gravity Discharge

Positive Pressure

- Pamic Filter Element
- Air Cleaner Housing
- Service Indicator

Positive Pressure Drain System Plumbing Kit

(To be ordered separately)

Application	Ordering Number	Components Included*
All engines (except Detroit Diesel 2-cycle) where connection is taken from side of turbocharger.	061999000	Check Valve for pre-cleaner dust pin. Turbocharger hose fitting. Hose clamps
For Detroit Diesel 2-cycle engines only, where connection is made to air box. Specify engine model & rpm.	See Racor Installation Bulletin	Air box fitting. Special air box cover (when required). Hose clamps.

* Order 3/4" (19.1mm) high-temperature silicone hose separately.
Note: For positive pressure plumbing kit for double housings, see your Racor representative.

Basic Rotopamic Positive Pressure Discharge Kits

No. of Tubes			Part Numbers			Application		Dimensions			
Total	High	Wide	Kit Number*	Element Number	Recommended Outlet Nozzle O.D. (In.)	Flow Rate Range (CFM)	Hp Range	Approx. Ship Weight (lbs)	(Kg)	Height (In.)	Width (In.)
24	4	6	062713003	012233007	4.0	200 - 400	100 - 200	59	27	10.91	15.53
32	4	8	062713007	012233008	5.0	400 - 550	200 - 275	70	32	10.91	20.16
40	5	8	062713009	012233009	5.0	550 - 675	275 - 325	82	37	13.22	20.16
48	6	8	062713011	012233010	6.0	670 - 800	325 - 400	92	42	15.53	20.16
64	8	8	062713013	012233011	6.0	800 - 1000	400 - 500	111	50	20.16	20.16
80†	8	10	067872000	012233009 x2	5.5 x2	1000 - 1300	500 - 650	148	67	27.81	20.16
96†	8	12	067874000	012233010 x2	6.0 x2	1300 - 1600	650 - 800	168	76	32.44	20.16
128†	8	16	067876000	012233011 x2	6.0 x2	1600 - 2200	800 - 1100	209	95	41.69	20.16

* Nozzle or outlet not included. Must be ordered separately.
† Double side-by-side housing. Two air outlet nozzles required. There are no integral flanges on double housing.
All Units are right-hand bleed. Left-hand bleed can be custom ordered.

Features

Easy to Install – Available in three sizes, for either horizontal or vertical mounting. The integral mounting flange meets the needs of most "bolt-on" applications. A wide selection of flexible fittings, clamps and couplings to connect the air cleaner to the engine intake is also available.

Maintenance is Simple – No special skills or tools are required to change the filter element. Servicing is quick and clean. The long, effective life of the DynaCell reduces maintenance… a special advantage in remote installations.

SuperClone Pre-Cleaner

For heavy and extra-heavy duty service, the SuperClone Pre-Cleaner is recommended. SuperClone removes most of the airborne dust prior to it reaching the DynaCell element, extending the systems useful service life.

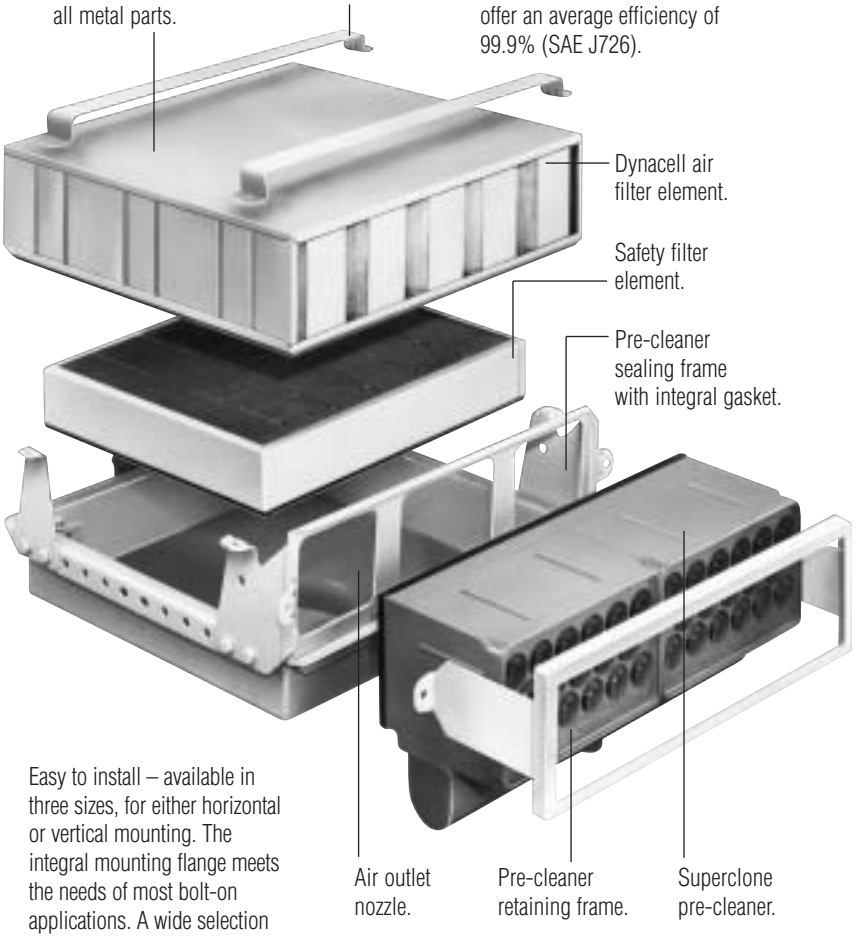
Three models are available:

- Gravity discharge for heavy service
- Exhaust aspirated
- Positive pressure aspirated

For applications requiring heavy service, exhaust aspirated or positive pressure aspirated versions are recommended.

Single Stage Air Cleaner

- Designed originally as a low-profile under-hood engine air cleaner for frontal air intake systems on highway trucks, the DynaCell is now used in a variety of applications where a low-profile and high-efficiency are required.
- **Applications Include** – Off-highway and logging trucks, agricultural tractors and motor graders, construction and mining equipment. Severe service applications include large scrapers, rock drills, cranes, shovels and low-speed track-type tractors.
- **Two- and Three-Stage** – In addition to the primary DynaCell element, and your choice of SuperClone Pre-Cleaners, a third-stage safety filter is also available. The pleated paper safety filter is housed in a deeper plenum pan than the two-stage model and provides the ultimate protection.



Easy to install – available in three sizes, for either horizontal or vertical mounting. The integral mounting flange meets the needs of most bolt-on applications. A wide selection of flexible fittings, clamps and couplings to connect the air cleaner to the engine intake is also available.

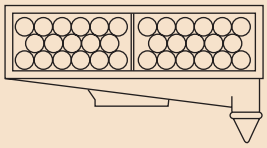
No special tools are required to change the filter element. Servicing is quick and clean.

Positive Pressure Drain Systems Plumbing Kit for Turbocharged 4-Cycle Engines

(Included with Positive Pressure SuperClones)

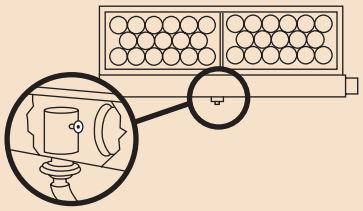
Application	Part No.	Parts included
All engines where connection is taken from pressure side of turbocharger.	61999000 for T-512 & T-519 62215000 for T-528	Plumbing fittings, clamps and check valve. 3/4" high-temp silicone hose is not included.

Basic Kit Number	Type	Orientation	Primary Element	Safety Element	Outlet Size (In.)	Max Flow (CFM)	Width (In.)	Height (In.)	Weight (Lbs.)
Standard Dynacell									
058447000	**T-512 Series**	Horizontal	**049261000**	-	5.00	600	11.69	8.10	19
060039000				**060236000**	5.00	550	11.69	9.48	53
058447000		Vertical		-	5.00	600	8.10	11.69	30
060039000				**060236000**	5.00	550	9.48	11.69	30
060144000	**T-519 Series**	Horizontal	**045800000**	-	6.00	1,100	19.19	8.64	30
060040000				**060237000**	6.00	1,050	19.19	11.04	30
060144000		Vertical		-	6.00	1,100	8.64	19.19	30
060040000				**060237000**	6.00	1,050	11.04	19.19	53
060146000	**T-528 Series**	Horizontal	**051800000**	-	7.00	1,600	28.69	8.64	30
060147000				**060238000**	7.00	1,550	28.69	11.04	30
060146000		Vertical		-	7.00	1,600	8.64	28.69	30
060147000				**060238000**	7.00	1,550	11.04	28.69	30
Gravity Discharge Dynacell									
066386002	**T-512 Series**	Horizontal	**049261000**	-	5.00	425	11.69	11.28	
066386003				**060236000**	5.00	425	11.69	11.28	30
066401002		Vertical		-	5.00	425	11.28	11.69	
066401003				**060236000**	5.00	425	11.28	11.69	
066386005	**T-519 Series**	Horizontal	**045800000**	-	6.00	850	19.19	11.17	30
066386006				**060237000**	6.00	850	19.19	11.17	30
066401005		Vertical		-	6.00	850	11.17	19.19	30
066401006				**060237000**	6.00	850	11.17	19.19	
066386008	**T-528 Series**	Horizontal	**051800000**	-	7.00	1,275	28.69	11.17	30
066386009				**060238000**	7.00	1,275	28.69	11.17	
066430008		Vertical		**060238000**	7.00	1,275	11.17	28.69	30
Positive Pressure Discharge Dynacell									
066417002	**T-512 Series**	Horizontal	**049261000**	-	5.00	640	11.69	8.10	
066417003				**060236000**	5.00	640	11.69	9.48	
066430002		Vertical		-	5.00	640	8.10	11.69	
066430003				**060236000**	5.00	640	9.48	11.69	
066417005	**T-519 Series**	Horizontal	**045800000**	-	6.00	980	19.19	8.64	
066417006				**060237000**	6.00	980	19.19	11.04	20
066430005		Vertical		-	6.00	980	8.64	19.19	30
066430006				**060237000**	6.00	980	11.04	19.19	
066417008	**T-528 Series**	Horizontal	**051800000**	-	7.00	1,470	28.69	8.64	25
066417009				**060238000**	7.00	1,470	28.69	11.04	
066430009		Vertical		**060238000**	7.00	1,470	11.04	28.69	



Heavy Service Gravity Discharge

The gravity discharge SuperClone is the easiest to install. No additional ducting or pressure lines are required. It removes up to 86% (SAE J726) of the intake air dust load.



Extra-Heavy Service Positive Pressure Aspirated

The positive pressure SuperClone is designed for the heaviest dirt concentrations. Aspirator uses compressed air from engine air intake manifold, air box, or air compressor receiver tank. Air pressures from 4-100 psig are suitable for aspirator. Removes up to 94% (SAE J726) of the dirt entering the air cleaner.

Applications

Racor Standard Air Filters are designed to be connected to the air intake of the gasoline or diesel engine.

Applications include:

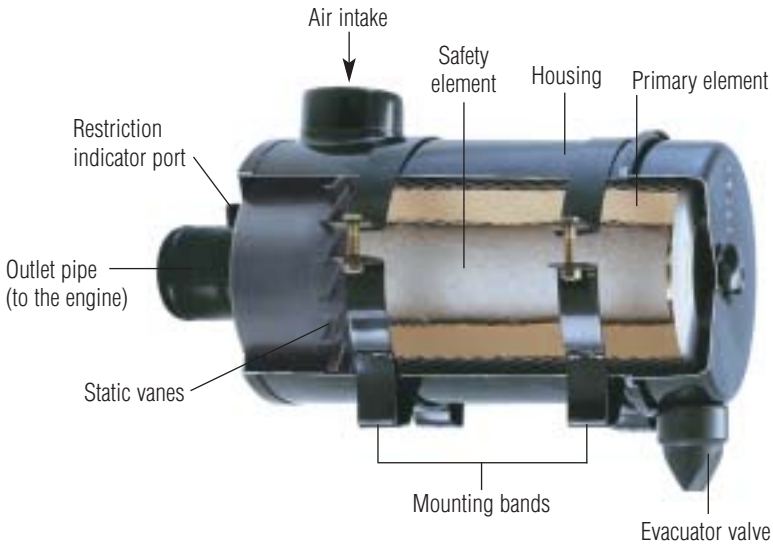
- Agricultural machinery.
- Earth-moving equipment.
- Stationary engines; generator sets.
- Trucks, buses & recreational vehicles.
- Material handling equipment.
- Snow removal equipment & street sweepers.

How they work

Air flows through static vanes (plastic or metal) which causes the air to spin. Centrifugal force separates the heaviest impurities (dust, dirt, insects and other debris) from the air stream. These contaminants are discharged automatically through an integral evacuator valve. Only purified air flows to the air filter elements (primary and safety stages of filtration).

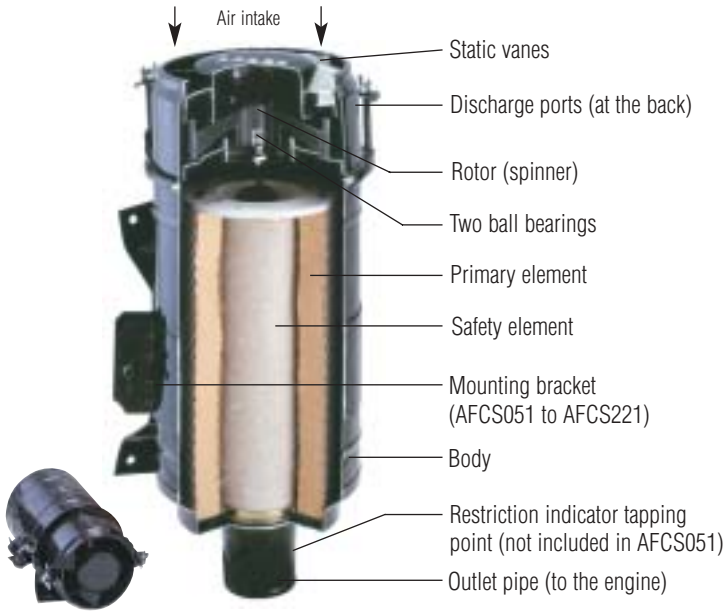
Heavy-Duty Standard Air Filters

For On-Highway, Off-Highway and Stationary Applications



MODEL	Airflow Range	Horsepower Range	Weight (With filter Elements)	Maximum Length	Maximum Diameter	Inlet Size	Outlet Size	Primary Element	Safety Element
AFSF4	53 to 159 CFM (1.5 to 4.5 m³/min)	30 to 80 HP (22 to 60 KW)	8.40 lbs (3.80 kg)	15.15" (385 mm)	6.50" (165 mm)	2.5" (63 mm)	2.5" (63 mm)	AR6060	AS6121
AFSF6	159 to 212 CFM (4.5 to 6.0 m³/min)	80 to 90 HP (60 to 67 KW)	10.79 lbs (4.90 kg)	16.73" (425 mm)	7.80" (198 mm)	3" (76 mm)	2.75" (70 mm)	AR6122	AS6123
AFSF8	212 to 282 CFM (6.0 to 8.0 m³/min)	90 to 120 HP (67 to 90 KW)	11.70 lbs (5.30 kg)	17.52" (445 mm)	8.50" (216 mm)	3" (76 mm)	3" (76 mm)	AR6144	AS6180
AFSF12	282 to 423 CFM (8.0 to 12.0 m³/min)	120 to 160 HP (90 to 120 KW)	16.50 lbs (7.50 kg)	18.82" (478 mm)	10.08" (256 mm)	4" (102 mm)	4" (102 mm)	AR6067	AS6159
AFSF15	423 to 529 CFM (12.0 to 15.0 m³/min)	160 to 180 HP (120 to 134 KW)	21.92 lbs (9.95 kg)	18.90" (480 mm)	11.06" (281 mm)	4" (102 mm)	4" (102 mm)	AR234401	AS6182
AFSF18	529 to 635 CFM (15.0 to 18.0 m³/min)	180 to 210 HP (134 to 157 KW)	27.55 lbs (12.50 kg)	21.57" (548 mm)	11.42" (290 mm)	4.5" (114 mm)	4" (102 mm)	AR6321	AS6320
AFSF20	635 to 706 CFM (18.0 to 20.0 m³/min)	210 to 250 HP (157 to 187 KW)	31.06 lbs (14.10 kg)	20.79" (528 mm)	12.52" (318 mm)	5.25" (133 mm)	5.25" (133 mm)	AR6277	AS6316
AFSF21	706 to 741 CFM (20.0 to 21.0 m³/min)	240 to 280 HP (179 to 209 KW)	33.90 lbs (15.40 kg)	23.94" (608 mm)	12.52" (318 mm)	5.25" (133 mm)	5.12" (130 mm)	AR246501	AS6220
AFSF310	741 to 988 CFM (20.0 to 21.0 m³/min)	280 to 320 HP (209 to 239 KW)	40.00 lbs (18.15 kg)	23.27" (591 mm)	15.43" (392 mm)	6" (152 mm)	6" (152 mm)	AR6154	AS6221
AFSF350	988 to 1235 CFM (28.0 to 35.0 m³/min)	320 to 380 HP (239 to 283 KW)	78.65 lbs (35.70 kg)	24.84" (631 mm)	17.40" (442 mm)	6" (152 mm)	6" (152 mm)	AR2201	AS2207
AFSF430	988 to 1517 CFM (28.0 to 43.0 m³/min)	320 to 450 HP (239 to 335 KW)	46.25 lbs (21.00 kg)	28.46" (723 mm)	18.11" (460 mm)	6" (152 mm)	6" (152 mm)	AR6324	AS6323

Heavy-Duty Combination Dynamic Pre-Cleaner / Filters



Applications

Racor Combination Dynamic Pre-Cleaner /Air Filters are specifically designed to be connected to the air intake of gasoline and diesel engines. The advantages of the systems include their compact size and ease of installation. The three-stage air filtration systems are designed with only one connection to the engine.

Applications include:

- Agricultural machinery.
- Earth moving, construction & mining equipment.
- Stationary engines, generator sets.
- Trucks, pick-ups, off-road vehicles.
- Material handling equipment.
- Snow removal equipment & street sweepers.

Features and Benefits

- Pre-Cleaners remove up to 90% of impurities from intake air before the air enters the filter elements.
- Extends engine air filter life.
- Reduces down time.
- Prolongs engine and turbocharger life.
- Saves on fuel costs.
- Safety element is standard in most models.

MODEL	Airflow Range	Horsepower Range	Weight (With filter Elements)	Maximum Length	Maximum Diameter	Outlet Size	Primary Element	Safety Element
AFCS021	18 to 71 CFM (0.5 to 2.0 m³/min)	10 to 50 HP (8 to 38 KW)	4.19 lbs (1.90 kg)	12.68" (322 mm)	6.18" (188 mm)	1.57" (157 mm)	AR021	–
AFCS031	35 to 124 CFM (1.0 to 3.5 m³/min)	30 to 70 HP (15 to 52 KW)	7.70 lbs (3.50 kg)	15.04" (382 mm)	6.61" (168 mm)	2.5" (63 mm)	AR322	–
AFCS051	53 to 124 CFM (1.5 to 3.5 m³/min)	30 to 70 HP (22 to 52 KW)	8.60 lbs (3.90 kg)	15.04" (382 mm)	7.40" (188 mm)	2.5" (63 mm)	AR6322	–
AFCS071	124 to 159 CFM (3.5 to 4.5 m³/min)	50 to 70 HP (37 to 52 KW)	10.35 lbs (4.70 kg)	18.90" (480 mm)	7.40" (188 mm)	2.5" (63 mm)	AR6060	AS6121
AFCS081	159 to 212 CFM (4.5 to 6.0 m³/min)	70 to 80 HP (52 to 60 KW)	12.70 lbs (5.75 kg)	20.47" (520 mm)	8.03" (204 mm)	2.75" (70 mm)	AR6122	AS6123
AFCS121	212 to 282 CFM (6.0 to 8.0 m3/min)	80 to 110 HP (60 to 82 KW)	16.50 lbs (7.50 kg)	22.20" (564 mm)	9.05" (230 mm)	3" (76 mm)	AR6144	AS6180
AFCS181	282 to 423 CFM (8.0 to 12.0 m3/min)	110 to 150 HP (82 to 112 KW)	20.30 lbs (9.20 kg)	24.25" (616 mm)	9.96" (253 mm)	4" (102 mm)	AR6067	AS6159
AFCS221	423 to 529 CFM (12.0 to 15.0 m3/min)	150 to 180 HP (112 to 135 KW)	24.20 lbs (11.00 kg)	25.47" (647 mm)	11.34" (288 mm)	4" (102 mm)	AR234401	AS6182
AFCS251	529 to 706 CFM (15.0 to 20.0 m³/min)	180 to 240 HP (134 to 179 KW)	30.00 lbs (13.60 kg)	27.87" (708 mm)	13.27" (337 mm)	5.25" (133 mm)	AR6277	AS6316
AFCS261	706 to 741 CFM (20.0 to 21.0 m³/min)	200 to 260 HP (149 to 194 KW)	31.90 lbs (14.50 kg)	30.71" (780 mm)	13.27" (337 mm)	5.12" (130 mm)	AR246501	AS6220
AFCS311	741 to 988 CFM (21.0 to 28.0 m³/min)	260 to 320 HP (194 to 239 KW)	36.80 lbs (16.70 kg)	30.90" (785 mm)	14.69" (373 mm)	6" (152 mm)	AR6154	AS6221
AFCS351	988 to 1235 CFM (28.0 to 35.0 m³/min)	320 to 380 HP (239 to 283 KW)	46.25 lbs (21.00 kg)	31.50" (800 mm)	16.53" (420 mm)	6" (152 mm)	AR2201	AS2207
AFCS431	1235 to 1517 CFM (35.0 to 43.0 m³/min)	380 to 450 HP (283 to 335 KW)	63.90 lbs (29.00 kg)	38.23" (971mm)	18.82" (478 mm)	6" (152 mm)	AR6324	AS6323

How they work

Racor Engine Air Pre-Cleaners are usually installed in place of the rain cap, dust bowl, or aspirated pre-cleaner (exhaust system). In some applications, they can be mounted directly to the air cleaner.

Air enters the system through a pre-screen that removes large debris. It then flows through static vanes causing the air to spin. As the air spins, centrifugal force separates dust, dirt, insects, rain and snow from the air stream. The swirling air drives a high velocity rotor that acts as a blower evacuating contaminants through special discharge ports at the bottom or in the side of the unit. Only purified air flows to the air filter elements.

Heavy-Duty Off-Highway and Industrial Air Pre-Cleaners

For Agriculture, Construction and Stationary Applications

Applications

Racor Engine Air Pre-Cleaners are designed to be mounted on or connected to the air filter intake of a gasoline or diesel engine air cleaner.

Their applications include all slow-moving and industrial equipment such as agricultural machinery; earth moving, construction and mining equipment; pumping plants; generator sets; material handling equipment; snow removal equipment and street sweepers.

Models AFAP414 to AFAP401

MODEL	Airflow Range	Horsepower Range	Weight	Maximum Height	Maximum Diameter	Outlet Size
AFAP083	53 to 124 CFM (1.5 to 3.5 m³/min)	30 to 60 HP (22 to 45 KW)	3.40 lbs (1.55 kg)	7.68" (195 mm)	7.40" (188 mm)	3-2.75-2.5" (76-70-63 mm)
AFAP414	124 to 247 CFM (3.5 to 7.0 m³/min)	60 to 120 HP (45 to 90 KW)	5.80 lbs (2.65 kg)	12.80" (325 mm)	8.70" (221 mm)	3.25-3-2.75-2.5" (82-76-70-63 mm)
AFAP415	124 to 247 CFM (3.5 to 7.0 m³/min)	60 to 120 HP (45 to 90 KW)	6.30 lbs (2.85 kg)	13.70" (348 mm)	8.70" (221 mm)	4-3.75-3.5-3.25" (102-95-89-82 mm)
AFAP818	247 to 388 CFM (7.0 to 11.0 m³/min)	120 to 160 HP (90 to 120 KW)	7.70 lbs (3.50 kg)	13.46" (342 mm)	10.67" (271 mm)	3.25-3-2.75-2.5" (82-76-70-63 mm)
AFAP819	247 to 388 CFM (7.0 to 11.0 m³/min)	120 to 160 HP (90 to 120 KW)	7.80 lbs (3.55 kg)	13.98" (355 mm)	10.67" (271 mm)	4-3.75-3.5-3.25" (102-95-89-82 mm)
AFAP820	247 to 388 CFM (7.0 to 11.0 m³/min)	120 to 160 HP (90 to 120 KW)	8.15 lbs (3.70 kg)	13.86" (352 mm)	10.67" (271 mm)	4.5-4.33-4-3.75" (114-110-102-95 mm)
AFAP919	388 to 530 CFM (11.0 to 15.0 m³/min)	160 to 220 HP (120 to 165 KW)	9.70 lbs (4.40 kg)	14.25" (362 mm)	12.44" (316 mm)	4.5-4.33-4-3.75" (114-110-102-95 mm)
AFAP920	388 to 530 CFM (11.0 to 15.0 m³/min)	160 to 220 HP (120 to 165 KW)	10.10 lbs (4.60 kg)	14.60" (371 mm)	12.44" (316 mm)	5.25-5-4.75-4.5" (133-127-121-114 mm)
AFAP183	530 to 776 CFM (15.0 to 22.0 m³/min)	220 to 300 HP (165 to 225 KW)	12.70 lbs (5.75 kg)	16.14" (410 mm)	13.86" (352 mm)	5.25-5-4.75-4.5" (133-127-121-114 mm)
AFAP184	530 to 776 CFM (15.0 to 22.0 m³/min)	220 to 300 HP (165 to 225 KW)	12.80 lbs (5.80 kg)	15.94" (405 mm)	13.86" (352 mm)	6-5.5-5.25-5" (152-140-133-127 mm)
AFAP400	776 to 1059 CFM (22.0 to 30.0 m³/min)	300 to 400 HP (225 to 300 KW)	16.50 lbs (7.50 kg)	18.50" (470 mm)	16.57" (421 mm)	6-5.50-5.25-5" (152-140-133-127 mm)
AFAP401	776 to 1059 CFM (22.0 to 30.0 m³/min)	300 to 400 HP (225 to 300 KW)	16.10 lbs (7.30 kg)	18.11" (460 mm)	16.57" (421 mm)	7-6.75-6.5-6.25" (178-171-165-159 mm)
AFAP500	1059 to 1411 CFM (30.0 to 40.0 m³/min)	400 to 550 HP (300 to 410 KW)	20.93 lbs (9.50 kg)	19.29" (490 mm)	19.49" (495 mm)	7" (178 mm)

Heavy-Duty On-Highway Pre-Cleaners

For Mobile Equipment Applications

Applications:

Racor Engine Air Pre-Cleaners are designed to be mounted on or connected to the air filter intake of a gasoline or diesel engine air cleaner.

Applications include:

- All fast-moving mobile equipment such as trucks, buses and recreational vehicles.

Features and Benefits

- Removes up to 80% of impurities from intake air before the air enters the filter elements.
- Compact, low-profile design.
- The bottom-intake air entry design eliminates the opportunity for water intrusion during high-speed and stationary operation.
- Easy to install. Three plastic outlet reduction sleeves are provided with each assembly.

MODEL	Airflow Range	Horsepower Range	Weight	Maximum Height	Maximum Diameter	Outlet Size
AFHP21	35 to 53 CFM (1.0 to 1.5 m³/min)	15 to 30 HP (11 to 22 KW)	1.30 lbs (0.6 kg)	4.00" (102 mm)	5.24" (133 mm)	2" (51 mm)
AFHP31	53 to 124 CFM (1.5 to 3.5 m³/min)	30 to 60 HP (22 to 45 KW)	2.40 lbs (1.10 kg)	6.06" (154 mm)	7.00" (178 mm)	3-2.75-2.5" (76-70-63 mm)
AFHP41	124 to 247 CFM (3.5 to 7.0 m³/min)	60 to 120 HP (45 to 90 KW)	3.40 lbs (1.55 kg)	7.00" (178 mm)	8.50" (216 mm)	3.25-3-2.75-2.5" (82-76-70-63 mm)
AFHP42	124 to 247 CFM (3.5 to 7.0 m³/min)	60 to 120 HP (45 to 90 KW)	3.50 lbs (1.60 kg)	7.00" (178 mm)	8.50" (216 mm)	4-3.75-3.5-3.25" (102-95-89-82mm)
AFHP81	247 to 388 CFM (7.0 to 11.0 m³/min)	120 to 160 HP (90 to 120 KW)	4.20 lbs (1.90 kg)	8.07" (205 mm)	9.58" (243 mm)	3.25-3-2.75-2.5" (82-76-70-63 mm)
AFHP82	247 to 388 CFM (7.0 to 11.0 m³/min)	120 to 160 HP (90 to 120 KW)	4.30 lbs (1.95 kg)	8.07" (205 mm)	9.58" (243 mm)	4-3.75-3.5-3.25" (102-95-89-82 mm)
AFHP83	247 to 388 CFM (7.0 to 11.0 m³/min)	120 to 160 HP (90 to 120 KW)	4.40 lbs (2.00 kg)	8.07" (205 mm)	9.58" (243 mm)	4.5-4.33-4-3.75" (114-110-102-95 mm)
AFHP91	388 to 530 CFM (11.0 to 15.0 m³/min)	160 to 220 HP (120 to 165 KW)	5.20 lbs (2.35 kg)	8.15" (207 mm)	11.02" (280 mm)	4.5-4.33-4-3.75" (114-110-102-95 mm)
AFHP92	388 to 530 CFM (11.0 to 15.0 m³/min)	220 to 300 HP (165 to 225 KW)	5.50 lbs (2.50 kg)	8.15" (207 mm)	11.02" (280 mm)	5.25-5-4.75-4.5" (133-127-121-114 mm)
AFHP111	530 to 776 CFM (15.0 to 22.0 m³/min)	220 to 300 HP (165 to 225 KW)	6.50 lbs (2.95 kg)	7.87" (200 mm)	12.20" (310 mm)	5.25-5-4.75-4.5" (133-127-121-114 mm)
AFHP112	530 to 776 CFM (15.0 to 22.0 m³/min)	220 to 300 HP (165 to 225 KW)	6.60 lbs (3.00 kg)	7.87" (200 mm)	12.20" (310 mm)	6-5.5-5.25-5" (152-140-133-127 mm)
AFHP211	776 to 1059 CFM (21.0 to 30.0 m³/min)	300 to 400 HP (225 to 300 KW)	8.40 lbs (3.80 kg)	9.13" (232 mm)	14.17" (360 mm)	6-5.5-5.25-5" (152-140-133-127 mm)
AFHP212	776 to 1059 CFM 21.0 to 30.0 m³/min)	300 to 400 HP (225 to 300 KW)	8.80 lbs (4.00 kg)	9.13" (232 mm)	14.17" (360 mm)	7-6.75-6.5-6.25" (178-171-165-159 mm)
AFHP411	1059 to 1411 CFM 30.0 to 40.0 m³/min)	400 to 550 HP (300 to 410 KW)	12.40 lbs (5.60 kg)	10.35" (263 mm)	17.30" (435 mm)	7-8" (178-203 mm)

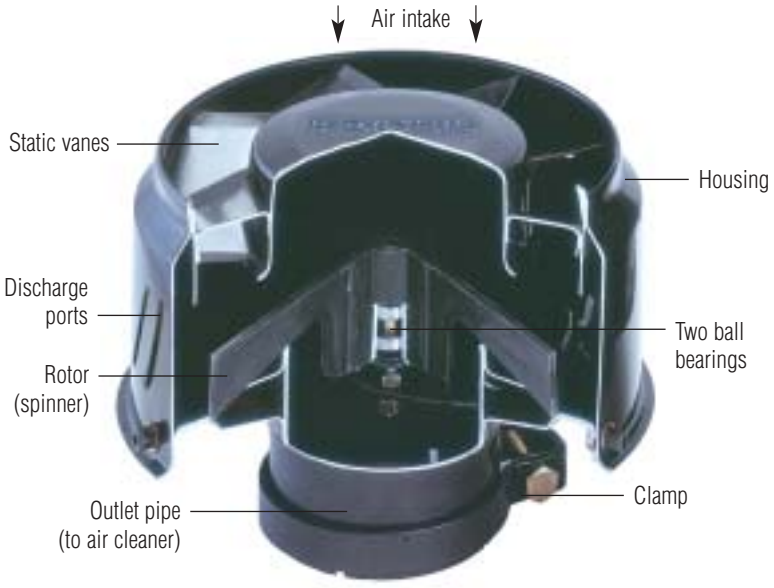
How they work

Racor Under-Hood Engine Air Pre-Cleaners can be remote-mounted or attached directly to the air cleaner eliminating the need for an external air intake.

- No exterior vehicle modification for intake air.
- High air flow, low differential design.

On-Highway and Off-Highway Air Pre-Cleaners

For Under-Hood Applications



MODEL	Airflow Range	Horsepower Range	Weight	Maximum Height	Maximum Diameter	Outlet Size
AFUP006	53 to 141 CFM (1.5 to 4.0 m³/min)	30 to 60 HP (22 to 45 KW)	1.75 lbs (0.80 kg)	5.12" (130 mm)	5.59" (142 mm)	2.5" (I.D.) (63 mm)
AFUP006E	53 to 141 CFM (1.5 to 4.0 m³/min)	30 to 60 HP (22 to 45 KW)	2.40 lbs (1.10 kg)	5.71" (145 mm)	5.59" (142 mm)	2.5" (O.D.) (63 mm)
AFUP007	141 to 176 CFM (4.0 to 5.0 m³/min)	60 to 70 HP (45 to 52 KW)	2.86 lbs (1.30 kg)	6.18" (157 mm)	7.09" (180 mm)	3-2.75-2.5" (I.D.) (76-70-63 mm)
AFUP007E	141 to 176 CFM (4.0 to 5.0 m³/min)	60 to 70 HP (45 to 52 KW)	3.08 lbs (1.40 kg)	6.61" (168 mm)	7.09" (180 mm)	3" (O.D.) (76 mm)
AFUP021	176 to 282 CFM (5.0 to 8.0 m³/min)	70 to 100 HP (52 to 75 KW)	3.52 lbs (1.60 kg)	5.83" (148 mm)	7.87" (200 mm)	3.25-3-2.75-2.5" (I.D.) (82-76-70-63 mm)
AFUP021E	176 to 282 CFM (5.0 to 8.0 m³/min)	70 to 100 HP (52 to 75 KW)	4.07 lbs (1.85 kg)	6.69" (170 mm)	7.87" (200 mm)	3.25" (O.D.) (82 mm)
AFUP041	282 to 423 CFM (8.0 to 12.0 m³/min)	100 to 140 HP (75 to 104 KW)	4.30 lbs (1.95 kg)	7.32" (186 mm)	8.98" (228 mm)	4-3.75-3.5-3.25"(I.D.) (102-95-89-82 mm)
AFUP041E	282 to 423 CFM (8.0 to 12.0 m³/min)	100 to 140 HP (75 to 104 KW)	4.85 lbs (2.20 kg)	7.36" (187 mm)	8.98" (228 mm)	4" (O.D.) (102 mm)
AFUP061	423 to 635 CFM (12.0 to 18.0 m³/min)	140 to 200 HP (104 to 150 KW)	4.95 lbs (2.25 kg)	7.44" (189 mm)	9.45" (240 mm)	5.25-5-4.75-4.5"(I.D.) (133-127-121-114 mm)
AFUP061E	423 to 635 CFM (12.0 to 18.0 m³/min)	140 to 200 HP (104 to 150 KW)	5.70 lbs (2.60 kg)	7.95" (202 mm)	9.45" (240 mm)	5.25" (O.D.) (133 mm)
AFUP091	635 to 741 CFM (18.0 to 21.0 m³/min)	200 to 300 HP (149 to 224 KW)	6.60 lbs (3.00 kg)	8.03" (204 mm)	11.02" (280 mm)	5.25-5-4.75-4.5"(I.D.) (133-127-121-114 mm)
AFUP091E	635 to 741 CFM (18.0 to 21.0 m³/min)	200 to 300 HP (149 to 224 KW)	7.71 lbs (3.50 kg)	8.98" (228 mm)	11.02" (280 mm)	5.25" (O.D.) (133 mm)
AFUP131	741 to 988 CFM (21.0 to 28.0 m³/min)	300 to 350 HP (224 to 261 KW)	7.25 lbs (3.30 kg)	10.08" (256 mm)	13.03" (331 mm)	6-5.5-5.25-5"-(I.D.) (152-140-133-127 mm)

Marine Air Filter/Silencers

- Reduces noise up to 10 dba
- Can integrate Racor CCV systems
- Corrosion resistant
- Cleanable air filter
- No tools needed for servicing
- Compact design

Air Filters/Silencers

Marine Air Filter Assembly

In order to determine the correct marine air filter application, you will need to know the marine air filter rating (AFR). You will need to provide the hose connection to turbo. Choose the correct marine air filter application per the following guideline:

Verify that the marine air filter dimensions will fit into your engine room.

4-cycle engines: AFR = HP x 2.0 2-cycle engines: AFR = HP x 2.5

Note: If AFR is close to maximum capacity of the marine air filter as listed below, use the next size larger.

Example: DDC 12V92TA DDEC (2-cycle – twin turbo):

826 hp x 2.5 = 1032.5 AFR per turbo = (2) AF M501012

1110 hp x 2.5 = 1387.5 AFR per turbo = (2) AF M601212

CAT 3196 (4-cycle – twin turbo):

660 hp x 2.0 = 1320.0 AFR = (1) AF M601212

In addition, note the dimensions of the marine air filter outlets and the Racor CCV connector barb outside diameter from the chart in the Marine Air Filter Kit installation Section to ensure the correct installation for your engine. However, the marine air filters typically correspond with the following CCV Models (see chart on right).

	AF M408512	AF M501012	AF M601212
Max. Air Flow*	800 cfm / 377.6 l/s	1200 cfm / 566.4 l/s	1600 cfm / 755.2 l/s
Outlet Diameter	4.00" / 101.6 mm	5.00" / 127.0 mm	6.00" / 152.4 mm
Filter Element	AF M8040	AF M8050	AF M8060
Length	12.50" / 317.5 mm	12.50" / 317.5 mm	12.50" / 317.5 mm
Depth	9.59" / 243.5 mm	11.14" / 282.8 mm	13.51" / 343.2 mm
Hose Barb size	1.00" / 25.4 mm	1.25" / 25.4 mm	1.25" / 31.75 mm
Weight	4.16 lbs / 1.89 kgs	5.03 lbs / 2.28 kgs	8.00 lbs / 3.63 kgs
CCV hose barb	1" OD	1 1/4" OD	1 1/4" OD
Operating Temperature	-40˚ F +240˚ F / -40˚C +116˚ C		

Values given are cubic feet per minute (cfm) and liters per second (l/s).

The engine crankcase breather is connected to the inlet of the Racor CCV assembly. The CCV outlet is connected to the engine's combustion air inlet via an air intake connector where filtered blow-by gas is recycled through the combustion process. Oil collected in the CCV sump is returned to the crankcase through a hose and a drain check valve.

The Racor marine air filter/silencer removes contaminants introduced into the air from both outside and inside the vessel. Sand, salt, carpet fibers and other contaminants are trapped in the oil-impregnated filter media. Turbo noise is reduced by the unique design of the air filter/silencer housing. An integral hose connection on the housing routes the clean blow-by from the CCV back into the engine.

Marine Air Filter	CCV Model
AF M408512	CCV4500
AF M501012	CCV6000
AF M601212	CCV8000

Marine Air Filter/Silencer (AF) System

Caterpillar 3196 marine engine with Racor CCV/AF System

Cummins QSM11 marine engine with CCV cutaway

Caterpillar 3196 marine engine with Racor CCV/AF System

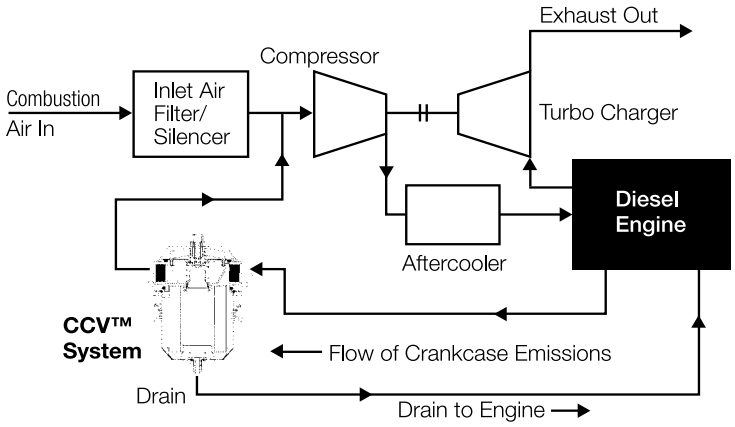
- In closed environments like generator sets and marine engine rooms, damage to surrounding equipment such as radiators and electronic control panels can cause hazardous conditions, down time and expensive maintenance.
- Oil mist will coat and contaminate the aftercooler and other engine components. This coating reduces engine cooling capacity, causes a degradation of engine performance and reliability over time, and shortens the useful service life of the engine components.
- The engine intake inhales contaminated gasses, clogging air filter systems and damaging turbocharger components. It is imperative that oil mist be removed from the crankcase emissions prior to introduction into the engine air intake in closed breather systems.

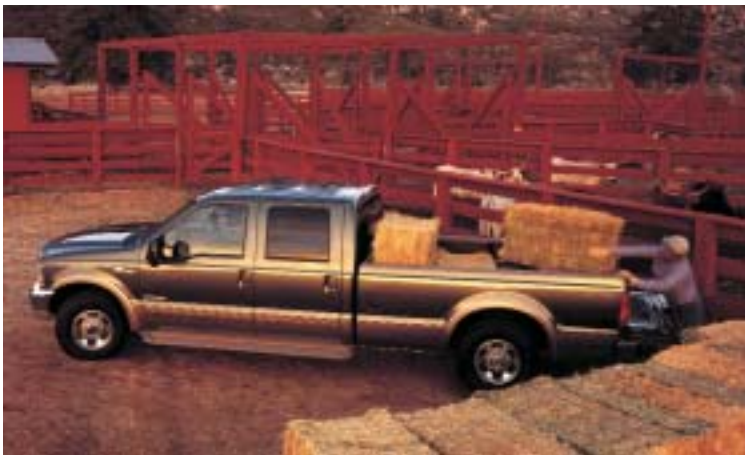
The problem – open and unfiltered engine crankcase breathers

Environmental concerns and legislation to control crankcase emissions have increased significantly. To further reduce the total emissions of engines, it is becoming necessary to close the crankcase breather system, routing these gases into the air intake system.

Crankcase blow-by is produced when combustion gases under high pressure are blown passed the piston rings into the crankcase. As these blow-by gases pass though the crankcase, they become contaminated with oil mist. Racor's crankcase ventilation system removes these contaminations. The exhaust can then be allowed to be vented in the atmosphere.

For applications requiring more stringent emissions requirements, a closed crankcase filter is recommended. In this application, the exhaust from the crankcase filter is routed to the inlet side of the turbo. A regulator in the crankcase filter controls the vacuum in the crankcase to ensure proper operation.



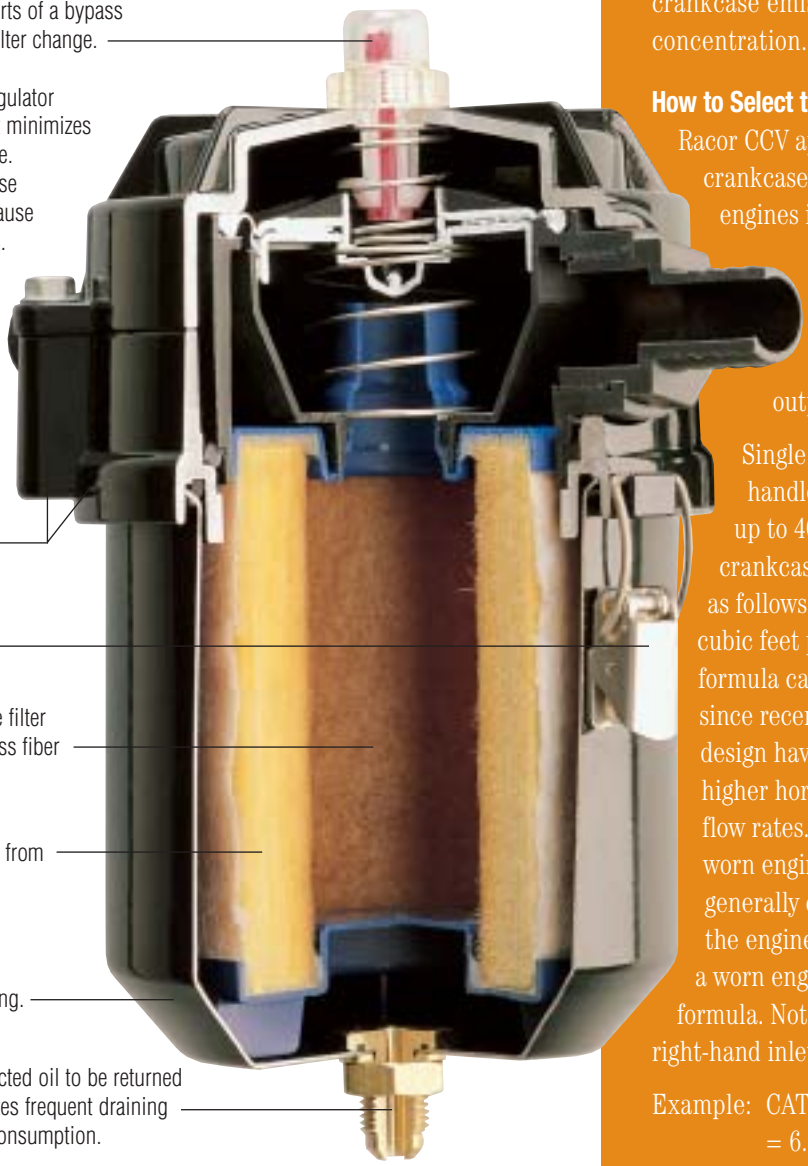


New CCV3550-FRD-02 closed crankcase ventilation systems for 7.3L Ford.

Racor CCV Systems

In a robust, compact package, the patented Racor CCV closed crankcase ventilation filter systems provide superior oil coalescence and crankcase pressure control under the most severe conditions.

The only routine maintenance required for the Racor Crankcase Ventilation Filter System is filter replacement. Typical service life of the high-performance filter in diesel applications is 750 hours. Some variations in service life occur depending on load profile, engine wear condition, flow and aerosol mass concentration of crankcase emissions, and soot concentration.



How to Select the Racor CCV Assembly:

Racor CCV application is determined by crankcase flow in CFM. CFM on new engines is low but as the engine wears on, the CFM increases. Select the correct Racor CCV model by dividing the engine horsepower output by 40.

Single CCV units are designed to handle various crankcase flow rates up to 40 CFM. Traditionally, the crankcase flow rate can be calculated as follows: Rated horsepower ÷ 40 = cubic feet per minute (CFM). This formula can only be used as a guide since recent improvements in piston design have produced engines with higher horsepower and lower blow-by flow rates. The blow-by flow rate of a worn engine, at time of overhaul, is generally double the flow rate when the engine is new. The flow rate of a worn engine is factored into the formula. Note: Specify left- or right-hand inlet when ordering.

Example: CAT 3116-260HP / 40
= 6.5 CFM, select CCV4500

CAT 3406-525HP / 40
= 13.13 CFM, select CCV6000

Closed System Crankcase Filtration

	CCV1500	CCV3500	CCV4500	CCV6000	CCV8000
Height	5.1" / 130 mm	7.0" / 178 mm	9.25" / 235.0 mm	12.00" / 304.8 mm	13.88" / 352.6 mm
Maximum Opening Width (incl. clamps & bracket)	8.2" / 208 mm	7.0" / 178 mm	7.50" / 190.5 mm	11.25" / 286.8 mm	13.25" / 336.6 mm
Depth	5.6" / 142 mm	6.3" / 160 mm	5.60" / 142.2 mm	7.30" / 185.4 mm	9.30" / 236.2 mm
Weight	1.5 lbs / .68 kg	2.3 lbs / 1.0 kg	3.26 lbs / 1.48 kg	5.01 lbs / 2.28 kg	8.72 lbs / 3.96 kg
Filter Removal Clearance	6.0" / 152 mm	4.6" / 117 mm	2.25" / 57.2 mm	4.00" / 101.6 mm	5.00" / 127.0 mm
Replacement Element/Media Density/Low	CCV 55365-04	N/A	N/A	N/A	N/A
Replacement Element/Media Density/Medium	N/A	CCV 55304-06	CCV 55248-06	CCV 55274-06	CCV 55222-06
Replacement Element/Media Density/High	N/A	CCV 55304-08	CCV 55248-08	CCV 55274-08	CCV 55222-08
Housing Material	Glass-filled nylon and black powder epoxy-coated steel bracket.	Glass-filled nylon components.	Die cast head, glass-filled nylon and black powder epoxy-coated steel bowl.	Die cast head, glass-filled nylon and black powder epoxy-coated steel bowl.	Die cast head, glass-filled nylon and black powder epoxy-coated steel bowl.
Inlet & Outlet Thread Size	3/4" hose	3/4" hose	1 3/16" - 12 STOR	1 5/8" - 12 STOR	1 7/8" - 12 STOR
Max. Cubic Feet per Minute	1 cfm / 30 lpm	3.0 cfm / 84 lpm	10 cfm / 283 lpm	20 cfm / 566 lpm	40 cfm / 1132 lpm
Crankcase Pressure Regulator	Vacuum limiting valve	Integral	Integral	Integral	Integral
Bypass/Change Indicator	N/A	Integral	Integral or Remote	Integral or Remote	Integral or Remote
Engine Block Check Valve Return Fitting	N/A	1/4" NPT	1/4" NPT	1/4" NPT	3/8" NPT
Swivel Fitting (Qty.)	N/A	# 6 JIC (2pcs.)	# 6 JIC (2pcs.)	# 6 JIC (2pcs.)	# 8 JIC (2pcs.)
Oil drain hose I.D.	N/A	.375"	.375"	.375"	.5"

Additional details are available in technical manual #55021.

* Units can be manifolded to handle higher flow rates.

Open System Crankcase Filtration

Crankvent CV820 and CV1000 Systems trap diesel engine crankcase blow-by gases and recycle engine oil through a high-performance, open-cell foam filter. They help to decrease costs for maintaining air filters and keeping engine rooms clean. These units are typically used as an "open" system for non-turbocharged engines.

Model No.	CV820	CV1000[2]
Diameter	6.00" / 152 mm	8.14" / 207 mm
Height	7.55" / 192 mm	8.48" / 215 mm
Weight	2.0 lbs. / 0.9 kg	3.0 lbs. / 1.4 kg
Filter Removal Clearance	4.00" / 102 mm	4.00" / 102 mm
Housing Material	Anodized aluminum All 18-8 stainless hardware	Anodized aluminum All 18-8 stainless hardware
Inlet Size	1" Female NPT	1-1/4" Female NPT
Outlet Size	1" Female NPT	1-1/4" Female NPT
Horsepower Range	Up to 350 HP (75–260 KW)[1]	350–600 HP (260–450 KW)[1]
Max. Cubic Feet per Minute	10 cfm / 283 lpm	15 cfm / 425 lpm
Service Kit	CV820 SK	CV1000 SK

For use on naturally aspirated engine.
(1) Use of two or more filters per engine allows higher flow.
(2) The Crankvent CV1000 must be used in two-cycle engines with air box drain applications.
Additional details are available in technical manual #7503 or please consult Racor.

Select a Fitting/Hose Kit:

Fitting/Hose Kits come with both fittings and enough hose for the inlet and outlet sides of the Racor CCV assembly. Racor CCV filter units require straight thread o-ring x hose barb fittings available only at Racor. In order to determine the correct application, you need to know the quantity and the outside diameter of engine breather(s) hose connection. Fitting/Hose Kits are available in various sizes and configurations. Consult factory or www.parker.com/racor.

Optional Tap Sleeves

CCV30100, CCV40100, CCV50125, CCV50125

Hump Hose Fittings

These are designed to be used with existing air cleaner to turbo rubber adapters.

Part Number	Hose
CCV55113	1"
CCV55114	1 1/4"
CCV55115	1 1/2"

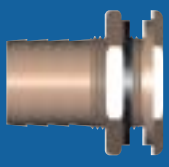


FIG. 3

Air Filter Replacements

Racor offers 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 polyurethane sealed surfaces. This product is cleanable and must be oiled before re-using.

Air Filter Cleaning Kit

To be used for washing and re-oiling Racor cleanable air filters.

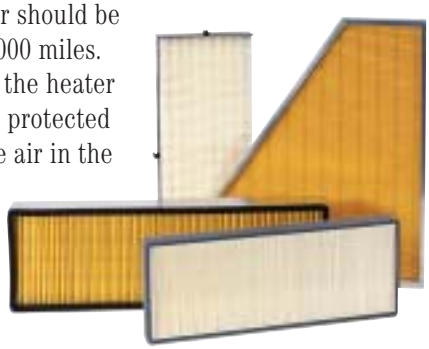
Part Number: AFM82006

Competitive Part Number	Racor Part Number	Dimensions (In) (DxHxD)
CD170	AF M8145	10 x 8 x 10
CD173	AF M8120	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	AF M8123	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 M9037	9 x 14 x 6.875
CD185	AF M8047	10 x 14 x 7
CD186	AF M8152	12 x 7 x 12
CD187	AF M8155	12 x 10 x 12
CD189	AF M8157	12 x 14 x 12
CD190	AF M9026	7.5 x 10 x 5.125
CD194	AF M8021	7.5 x 6 x 5.125
CD195	AF M9025	7.5 x 8 x 5.125
CD196	AF M9034	9 x 9 x 7
CD197	AF M8033	9 x 12 x 6.88
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 8 x 12

Year	Engine Type	Racor Part Number	Comment
		Chevrolet	
1995-1996	6.5L V8 DSL	AFT-FP-2062-1	Turbo
1995	6.5L V8 DSL	AFT-RD-1690	Non Turbo
1994	6.5L V8 DSL	AFT-FP-2062-1	Turbo
1994	6.5L V8 DSL	AFT-RD-1690	Non Turbo
1993	6.5L V8 DSL	AFT-FP-2062-1	Turbo
1993	6.2L V8 DSL	AFT-RD-1690	All
1992	6.5L V8 DSL	AFT-FP-2062-1	Turbo
1978-1992	6.2L V8 DSL	AFT-RD-1690	All
		Dodge	
2002	5.9L L6 DSL	AFT-FP-2056	Ram, Turbo
2001	5.9L L6 DSL	AFT-FP-2056	Ram 1500, 2500, 3500, Turbo
2000	5.9L L6 DSL	AFT-FP-2056	Ram, Turbo
1996-1999	5.9L L6 DSL	AFT-FP-2056	Turbo
1994-1995	5.9L L6 DSL	AFT-FP-2056	All
1989-1993	5.9L L6 DSL	AFT-RD-1023	Turbo
		Ford	
1996-1998	7.3L V8 DSL	AFT-RD-1946	Turbo
1995	7.3L V8 DSL	AFT-RD-1946	All
1994	7.3L V8 DSL	AFT-RD-1460	Non Turbo
1994	7.3L V8 DSL	AFT-RD-1946	DI Turbo S/D only
1993	7.3L V8 DSL	AFT-RD-1460	Non Turbo
1983-1992	7.3L V8 DSL	AFT-RD-1460	All

Cabin Air Filters

Presently, 40% of all vehicles in use have a cabin air filter installed. These filters are used to remove dust, pollen, mold spores, engine exhaust and other gases from the cabin air. The filter should be changed out every 15,000 miles. By servicing the filter, the heater and evaporator will be protected from corrosion and the air in the cabin compartment will be more healthy for the occupants.



Ford Applications	
AFC2001	Standard Cabin Air Filter
AFC2000	Cabin Air Filter + Odor Removal

GM/Chevy Applications	
AFC1001	Standard Cabin Air Filter
AFC1000	Cabin Air Filter + Odor Removal

Low-Resistance Flexible Air Inlet Fitting and Clamps

Rubber elbows, adapters and clamps provide positive sealing, minimal airflow restriction and easy servicing.

Flexible air inlet fittings are made of high-quality EPDM rubber, and provide minimum airflow restriction between the air cleaner and engine air inlet. Their flexibility simplifies both installation and service. Stainless steel adjustable clamps assure a positive seal and ease of service.

Air Inlet Clamps

Filter Service Indicator

"Filter Minder" Service Indicator is a precision Airflow Restriction Gauge designed to take the guesswork out of air cleaner element replacement. Its operation is simple and virtually foolproof.

As dirt captured by the filter cartridge gradually builds up, the system pressure drop increases and is indicated by the Filter Minder on an easy-to-read scale.

The indicator locks up at the point of maximum restriction so readings can be taken with or without the engine running. When the desired change-out point is reached, the filter cartridge is easily reset by simply pushing the button at the bottom of the unit.

This indicator works equally well on both gasoline and diesel equipment.

The Service Indicator lets you know exactly when to replace filter elements. It reduces unnecessary labor and element costs by avoiding premature replacement. it permits you to maximize air filter element life.

Economical – Saving one filter element change-out can more that cover the cost of the Service Indicator. It's a small price for a potentially large gain year after year.

Standard Filter Monitor Part Numbers

Part Number	Range (In. water vac.)	Description
400033015[A]	8-15	Direct Mount
400033020[A]	8-20	Direct Mount
400033025[A]	8-25	Direct Mount
014440001[A]	8-25	Direct Mount w/ 90° fitting
072604000[B]	4-25	Remote Mount
076248001[A]	8-25	Dash Mount

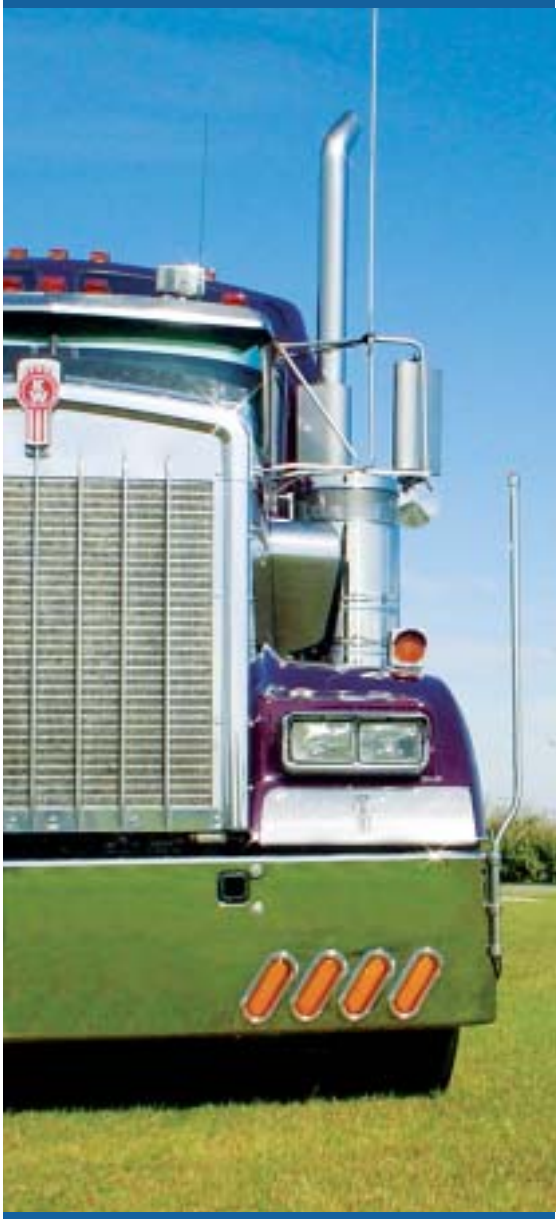
[A] Unit standard with a 1/8"-27 NPT straight fitting.
[B] Unit standard with a 90° coupling and 10' hose.

Filter Monitor/Single Latching Position

Part Number	Range (In. water vac.)
500198020	20
500198025	25

Accessories

Part Number	Description
400034000	90° fitting (Adapts to straight fitting)



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Filtration Technology Textbook

Parker's 250-page illustrated textbook covers the broadest range of filtration information ever assembled under one cover. The text is designed for anyone interested in industrial filtration, including engineers, educators, managers, distributors, salespeople and students.

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Our Company has the largest distribution network in its field, with over 6,000 distributors serving more than 300,000 customers worldwide.

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To be a leading worldwide manufacturer of components and systems for the builders and users of durable goods. More specifically, we will design, market and manufacture products controlling motion, flow and pressure. We will achieve profitable growth through premier customer service.

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Filtration Group Technical Sales & Services Locations

Filtration and Separation Division
100 Ames Pond Drive
Tewksbury, MA 01876-0962
Phone: (978) 858-0505
Fax: (978) 858-0198

260 Neck Road
Haverhill, MA 01835-0723
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500 Glaspie Street
Oxford, MI 48371
Phone: (248) 628-6400
Fax: (248) 628-1850

611-M Hammonds Ferry Road
Linthicum, MD 21090
Phone: (410) 636-7200
Fax: (410) 636-7206

Hydraulic Filter Division
16810 Fulton County Road #2
Metamora, OH 43540
Phone: (419) 644-4311
Fax: (419) 644-6205

1273 N. Church Road
Moorestown, NJ 08057
Phone: (856) 866-9002
Fax: (856) 866-9112

Racor Division
3400 Finch Road
P.O. Box 3208
Modesto, CA 95353
Phone: (800) 344-3286
Phone: (209) 521-7860
Fax: (209) 529-3278

302 Parker Drive
Beaufort, SC 29902

805 North West Street, PO Box 6030
Holly Springs, MS 38635

Process Filtration Division
6640 Intech Blvd.
Indianapolis, IN 46278
Phone: (317) 275-8300
Fax: (317) 275-8410

State Road 66
Tell City, IN 47856
Phone: (812) 547-2371
Fax: (812) 547-2380

Filter Division Europe
Churwell Vale
Shaw Cross Business Park
Dewsbury, England WF12 7RD
Phone: (44) 1924 487000
Fax: (44) 1924 487060

Fin-31700
Urjala As., Finland
Phone: (358) 3 54 100
Fax: (358) 3 54 10100

Teollisuustie 2
89400 Hyrynsalmi
Finland
Phone: (358) 8 6532500
Fax: (358) 8 6532520

Oude Kerkstreet 4
P.O. Box 258
4870 AG Etten-Leur
The Netherlands
Phone: (31) 76 508 53 04
Fax: (31) 76 508 53 12

FIltration Group Headquarters
6035 Parkland Blvd.
Cleveland, OH 44124-4141
Phone: (216) 896-3000
Fax: (216) 896-4021
http://www.parker.com/filtration

Parker Hannifin Ind. e Com.
Ltda, Filter Division
05276-977 - Sao Paulo
– SP, **Brazil**
Phone: +55 (11) 3917 1407
Fax: +55 (11) 3917 7898

Parker Hannifin Korea Limited
902 Dae Heung Bldg.
648-23 Yeoksam-dong
Kangnam-ku, Seoul,
Korea 135-080
Phone: 82 2 561 0414
Fax: 82 2 556 8187

Parker Worldwide Sales Offices

Contact Parker's worldwide service and distribution network by calling:

Argentina • +54 (3227) 44 4129
Australia • +61 (2) 634 7777
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Poland • +48 (22) 8634942
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Taiwan • +886 (2) 8787 3780
Thailand • +662 693330
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United Kingdom +44 1442 238100
United States of America • 1-800-272-7537
Venezuela +58 (2) 238 5422

anything Parker Possible.

Parker Hannifin Corporation
Racor Division
P.O. Box 3208
Modesto, CA 95353 USA
800/344-3286
209/521-7860
Fax 209/529-3278
http://www.parker.com/racor
e-mail: racor@parker.com

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