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# Disposable Engine Air Filters – Racor ECO Series

**Solutions**  
**Part #:** 400820003  
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Racor ECO Series Disposable Engine Air Filters ensure delivery of clean, purified air into gasoline and diesel engines. The filters come available in a variety of configurations and allow for safe, trouble-free servicing in any application.

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## Technical Specifications

Outlet Connection:	7.0 in/17.8 cm	Pre-Cleaner:	Purchase Separately
Inlet Connection:	7.0 in/17.8 cm	Materials of Construction:	Coated Steel
Brand:	Racor	Filter Element Type:	Primary Air Filter
Series:	ECO-LL	Output Power:	N/A
Length:	24.0 in/61.0 cm	Mounting Position:	Horizontal or Vertical
Inlet Port Connection Type:	Side Inlet - 18.5" (47.0 cm) from base	Compatible Mounting Clamp:	071921002 (two required)
Flow Range:	645-950 cfm (18.3-26.9 m3/m)	Compatible Element:	400820003
Product Series:	Disposable Engine Air Filter	Accessories Included:	See "PRODUCT SUPPORT" Tab
For Fluid Type:	Engine Air	Maximum Flow Rate:	1100 cfm (30.0 m3/m)
Application:	Light/Medium Dust, Mobile and stationary gas and diesel engines	Outside Diameter:	11.0 in/27.9 cm

[Safety Warning](#)

## Item Information

Racor ECO Series Disposable Engine Air Filters offer significant improvements in engine protection over conventional systems. When the filter loads with dirt and replacement is required, collected dust and debris stay safely contained inside the disposable housing, which prevents contamination of the clean side of the air inlet system. Additionally, because ECO Series filters do not use internal air gaskets, gasket leakage is eliminated. The outlet hooks up to the engine inlet with a rubber connection and clamp, creating a leak-free seal.

Depending on the specific ECO Series model, air will enter the filter one of three ways: 1) directly through side perforations, 2) by way of beaded inlet tube or 3) with a remote adapter. All of the air filters incorporate specially engineered, water-resistant media, affording them long life and high-performance in even the most demanding applications.

ECO Series filters are highly compact and come available in a variety of flow rate and mounting options, making them suitable for use with any engine or application.

Selection of a specific air filter model can be made based on the following descriptions:

ECO-SE - SE stands for "small engine" applications. The ECO-SE can be used in-line for straight through flow or using a side inlet (flow direction is outside-in). The filter utilizes a urethane-beaded outlet for direct connection to the metal tube or turbo. Remote inlet is possible with an optional adapter. Air flow rates range from 240 -1180 cfm (7 - 33 m3/min) depending on the product selected.

ECO-II – Designed for use in small- to medium-sized engine applications. The ECO II has a metal beaded outlet and perforated side inlet. As an option, users may also add a transition housing adapter to attach to a remote inlet. Air flow rates range from 820 - 1950 cfm (23 - 55 m3/min) depending on the product selected.

ECO-SM – SM stands for "scheduled maintenance" programs. This compact filter was designed for additional mounting flexibility and is ideal for retrofit applications. This outside-in flow unit can be mounted in any orientation with a choice of three inlet locations. It features a beaded outlet and water drain holes around the perimeter. Air flow rates range from 980 - 1670 cfm (28 -47 m3/min) depending on the product selected.

ECO-LL - Similar in construction to the ECO-SM, the ECO-LL is a "long life" air filter designed for use in applications where filter longevity is critical. This outside-in flow unit can be mounted in any orientation with a choice of three inlet locations. It also features a beaded outlet and water drain holes around the perimeter. Air flow rates range from 645 - 1910 cfm (18 - 54 m3/min) depending on the product selected.

ECO-LITE - The ECO-LITE has reversible air flow for flexible mounting options in any orientation. The media is a pleated, offset, tapered cone configuration, with a beaded metal inlet/outlet port. Air flow rates range from 820 - 1900 cfm (23 - 54 m3/min) depending on the product selected.

ECO-BC - The ECO-BC is designed for "behind the cab" mounting in a vertical position only. The media configuration is inside-out flow from the top, and the housing features a water bleed valve at the bottom. It can also be mounted under the hood. Air flow rates range from 810 - 1750 cfm (23 - 50 m3/min) depending on the product selected.

ECO-CM – This filter features a polished stainless steel "cow mount" design and is meant for external mounting on conventional-style truck cabs. It is available in right- and left-hand versions and features a clip assembly that requires no tools, bolts or extra gaskets to service the filter element. Air flow rates range from 600 -1200 cfm (17 - 34 m3/min).

For additional assistance selecting an air filter, consult Racor at [racortech@parker.com](mailto:racortech@parker.com) and/or supplied literature in the Product Support tab. Specification choices can be made in any order depending on the most limiting factor.

Notes on filter selection and use:

- For a first fit installation, two (2) mounting clamps are required for each air filter assembly. See "Tech Specifications" tab for part numbers. Measure available package space for air cleaner assembly and mounting brackets.
- An important consideration when selecting an ECO filter is the required location of the inlet port on the side of the housing (some housings have a "open end, no connection" with the air inlet port on one end). If necessary, choose "Inlet Port Connection Type" after selecting "Maximum Flow Rate".

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**Support**

• Ensures delivery of clean, purified air into gasoline and diesel engines. This allows the engine to breathe easier, resulting in increased power, and fuel economy.

**Industries**

• Reduces downtime, prolongs engine, filter, and turbocharger life

**Services**

• Services are highly compact and come available in variety of flow rate and mounting options, making them suitable for use with any engine or application.

**Solutions**

Features:

- Water-resistant engineered media
- Flexible horizontal or vertical mounting (depending on product selected)
- Compact and easy to install
- High air flow, low pressure differential designs

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