

Cartridge Engine Air Filters – Racor ECO, AF, and EA Series | #ECO-III-XL13S

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Racor Cartridge Engine Air Filters ensure delivery of clean, purified air into gasoline and diesel engines. They come available with a wide range of flow rate and mounting options, making them suitable for use in any engine or application.

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Technical Specifications

Pre-Cleaner:

n/a

Filter Element Type:

Primary Air and Safety Filters

Flow Range:

800 cfm (22.7 m³/m)

Maximum Flow Rate:

800 cfm (23 m³/m)

Connection Type:

Straight

Materials of Construction:

Engineering Plastic

Application:

Heavy Dust

Brand:

Racor

Product Series:

ECO III, Cartridge Air

For Fluid Type:

Engine Air

Outlet Connection Size:

6 in/15.2 cm

Output Power:

N/A

Inlet Connection Size:

6 in/15.2 cm

Length:

22 in/55.9 cm

Outside Diameter:

13 in/33 cm

Mounting Position:

Horizontal

Compatible Mounting Clamp:

071921010 (two required)

Compatible Element:

Primary: 500454001

Accessories Included:

See literature on Product Support tab

Item Information

Racor ECO III Air Filters – About:

With the ECO III series, Racor engineers have revolutionized the performance of air filtration while simplifying installation and service. The engineered mounting system was designed for flexibility and convenience. The reversible base mounting bracket and included hardware mounts quickly, in any direction to frame rail or firewall. This complete mounting system eliminates the need for custom made, field-engineered and installed brackets for a significant savings of time and money. The ECO III product line is the result of collaborative efforts between Racor engineering and our customers, followed by extensive on-highway, real-world testing and laboratory certifications. Advanced materials and design features allow installation flexibility, superior performance, ease of service, and unmatched customer satisfaction. ECO III is designed for 250 to 400 horsepower engines for over-the-road vehicles, including buses and specialty applications. Because ECO III delivers high efficiency in a small overall package design, the air filtration system can be located closer to turbochargers for increased performance and frees valuable space in the engine compartment.

Racor ECO III Air Filters – How They Work:

The ECO III housing design disperses contaminated airflow around the filter, so dust loading is uniform across the entire area of the filter resulting in a longer change-out interval when compared to other tangential intake filters. The ECO III proprietary treated moisture-bloc media is also water resistant. When moisture-bloc is combined with Racor water separating intake scoops, you have an exceptional, fast-draining air filtration system. In severe duty, or when an extra measure of protection is desired, Racor provides a secondary, or safety filter. Its inverted cone design adds surface area helping to reduce pressure drop significantly without affecting flow. In addition to adding insurance in the unlikely event of a primary filter failure, the safety filter remains in place during primary filter service, further reducing the opportunity for contaminants to reach the turbocharger and engine components.

Racor ECO III Air Filters - Additional Features and Benefits:

- Flow Range: 700 to 1000 cfm (19.8 to 28.3 m3/min) (Depending on product selected)
- Horizontal or vertical mounting
- Tangential inlet for even contaminant loading and longer life
- CCV (Crank Case Ventilation) port for closed crankcase ventilation system exhaust line
- 180° housing rotation for custom installations
- No metal filter elements – can be incinerated
- High performance engineered plastic construction with 4 levels of sealing protection

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CAD Drawings + Files

No CAD files available



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