

Eurocopter AS 350

Inlet Barrier Filtration System



MORE OF WHAT YOU WANT,
(protection, margin, power)

LESS OF WHAT YOU DON'T.
(maintenance, erosion, cost)

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Inlet Barrier Filtration System

A proven system

Aerospace Filtration Systems (AFS) introduces a unique Inlet Barrier Filter (IBF) system for the Eurocopter AS 350 (AS 350B/BA/B1/B2/B3 and Solyo D/SD/SD2). Using technology fielded and proven on commercial and military helicopters worldwide, the AFS IBF is an innovative, lightweight and simple-to-install option versus the significantly less capable inertial type separators (Engine Air Particle Separator (EAPS), sand filter) or FOD Screen.

The AFS IBF system allows the optimum performance possible within the existing AS 350 cowling while providing dust, sand, and dirt separation efficiencies exceeding 99%, ensuring your engine has the maximum protection possible. At the same time, the IBF improves air flow versus the EAPS/sand filter, meaning more power, reduced operating temps and longer engine life. Performance improvements in the aircraft yield up to 20 degrees more MGT margin compared to inertial separation options. No flight restrictions are imposed for operation in falling or blowing snow or activation of the bypass system. And the AFS IBF uses 95% common components for any AFS AS 350 model, including the Solyo Super D conversions. Operators can now utilize the same IBF for their mixed Turbomeca- or Honeywell-powered fleet.

Key benefits

- ⊙ Proven technology with over 1,000,000 flight hours
- ⊙ Up to 20 degrees MGT reduction (EAPS removed)
- ⊙ Improved engine performance, certified for use with basic inlet charts

QUICK SPECS

IBF Kit Weight 20.6 pounds

Installation Time 40 man hours

- ⊙ Reduced life cycle costs over alternate systems
- ⊙ Maximum protection — over 99% efficiency
- ⊙ Reduced engine maintenance/longer TBO
- ⊙ Filter maintenance aid (FMA) for on-condition assessment
- ⊙ Non-intrusive cockpit installation with minimal modifications
- ⊙ Common components with other AFS certified systems
- ⊙ Long lasting, flat filter assembly for easy cleaning

Long-life filter

The lightweight flat filter design performs with ultimate efficiency in all flight regimes. With a 4,500-hour life, the significant amount of filter area allows cleaning service cycles as long as 300 hours (service life is a function of the operating environment). A filter maintenance aid allows on-condition monitoring of filter status when the aircraft is running or shut down, on the ground.

Engineering-driven design

The assembly is self-contained and structurally integrated into the top of the existing manufacturer's inlet cowling. Installation requires minimal modifications to the existing air inlet cowl assembly. Original mount provisions for the FOD screen are used to support the IBF which includes a self-contained bypass with cockpit annunciation and activation switch. The bypass system provides a new capability for the inlet not previously available with the



inertial separator. An aft facing bypass door ensures that dirt and snow do not enter the inlet and allows flight in all environment conditions without restrictions. A rugged flat filter assembly with quarter turn fasteners makes servicing a snap; the filter can be removed and replaced in 5 minutes without removal of the fairing. The bypass system, IBF components and FMA are easily inspected via the bypass door or integral sight glass.

Return on investment

Operators can attain the ROI for a barrier filter system within one engine overhaul cycle, even in a relatively clean environment.

Install before flight

Direct from AFS or through our dedicated distributors, we make it easier than ever to order and install an AFS filtration system. IBFs from AFS: Install before flight.



Distributed by

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