

MD Helicopters MD 900/902 Inlet Barrier Filtration System



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

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

MD Helicopters MD 900/902

Inlet Barrier Filtration System

A proven system

Aerospace Filtration Systems (AFS) introduces a unique Inlet Barrier Filter (IBF) system for the MD Helicopters MD900/902 Explorer. Using technology fielded and proven on commercial and military helicopters, the AFS MD900/902 IBF provides the optimum performance possible utilizing the existing MDHI cowling and features an innovative, lightweight, simple to install replacement for the less capable Inlet Particle Separator (IPS) or FOD Screen. The AFS IBF system provides dust, sand, and dirt separation efficiencies exceeding 99% to ensure your engine has the maximum protection possible. At the same time, the IBF improves air flow versus the IPS, meaning more power, reduced operating temps and longer engine life. Performance improvements in the aircraft yield approximately 20 degrees more MGT margin compared to the IPS.

Key benefits

- ⊙ Proven technology with over 1,000,000 flight hours
- ⊙ Approximate 20 degrees MGT reduction (IPS removed)
- ⊙ Lowest life cycle costs over alternate systems
- ⊙ Maximum engine protection, improved performance
- ⊙ Improved engine inlet plenum access
- ⊙ Reduced engine maintenance/costs
- ⊙ Bypass feature utilizing existing MDHI design
- ⊙ Long lasting, dual filters, easy cleaning
- ⊙ Easy filter access and removal

QUICK SPECS

IBF Kit Weight 17.0 pounds
Installation Time 25 man hours

Long-life filter

The two lightweight conformal filters are designed to perform with ultimate efficiency in all flight regimes. With a 1,500-hour life, the significant amount of filter area allows cleaning service cycles as long as 100 hours or annually (service life is a function of the operating environment).

Engineering-driven design

The assemblies are self-contained and structurally integrated into the existing manufacturer's inlet/cowl provisions. Remove the IPS and install the AFS IBF with minimal modification effort. External, conformal mounting design allows easy access to the filter element. The filters can be removed and replaced in 15 minutes, allowing easy maintenance in the field. AFS design utilizes the existing MDHI bypass system, which is part of the Inlet Particle Separator modification. Engine water wash regimens can be maintained, and filters do not require removal to perform the water wash. Sturdy conformal inlet covers are standard for added protection



during non-operating conditions. This IBF system is available as a factory direct option on the MD900/902 Explorer. If the aircraft is not equipped with the MDHI bypass system, contact MDHI for possible retrofit options.

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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