INSTALL BEFORE FLIGHT

Helicopters routinely contend with dust, sand and debris that attack turbine engines and impact engine reliability, hampering efficient engine operation. Installing an Inlet Barrier Filter (IBF) system is the most effective way to protect engines from damage ranging from lost efficiency to catastrophic failure while adding significant advantages.

- Reduced engine turbine operating temperatures over alternate systems
- More power available than alternate filtration solutions
- Meets established engine time between overhaul limits
- Reduced engine maintenance over alternate systems
- Extends engine life due to elimination of erosion
- Available factory-direct

PERFORMANCE AT-A-GLANCE

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<tr>
<td>Design Features</td>
<td>Structurally integrated kit; two rugged flat filters for fast filter exchange</td>
<td>Structurally integrated kit; two rugged flat filters for fast filter exchange</td>
<td>Structurally integrated kit; four interchangeable rugged, lightweight, flat filters designed for fast filter exchange; self-contained kit integrated into existing inlet plenum; new forward firewall interface; improved drive shaft and coupling access; minimal aircraft modification; includes improved water wash manifold</td>
<td>Structurally integrated kit; two rugged, lightweight, flat engine inlet filters; separate system for protection of the engine inducer bleed system with one small flat filter; designed for fast filter exchange after removal of blast shields; self-contained inside existing inlet plenum; maintains existing engine wash system</td>
<td>Structurally integrated Sikorsky A-kit; removable Donaldson B-kit; modular design; transition module mounts to engine inlet; filter &amp; bypass module mount to aircraft; eight interchangeable filters; swings open for maintenance access; cruise flight bypass system; inherent bird strike protection capability</td>
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<td>Emergency Bypass</td>
<td>Internal compartment bypass door to protect against dirt, ice &amp; snow; activation allows flight in all environments</td>
<td>Conformal external bypass door with fewer parts than original OEM design; activation allows flight in all environments</td>
<td>Dual access bypass system with vertical doors to protect against dirt &amp; snow; activation allows flight in all environments</td>
<td>Internal compartment bypass door protects against dirt &amp; snow; activation allows flight in all environments</td>
<td>Unique bypass system with forward ram air entry for use as bypass or for power recovery in forward flight</td>
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<td>Components</td>
<td>Easily accessible via lower side access doors; non-intrusive cockpit installation; filter maintenance aid for on-condition filter assessment</td>
<td>Easily accessible externally and inside forward inlet fairings. Uses OEM cockpit annunciation system; filter maintenance aid for on-condition filter assessment</td>
<td>Easily accessible externally and inside forward cover; non-intrusive cockpit installation; filter maintenance aid for on-condition filter assessment</td>
<td>Easily accessible via lower side access doors; filters protected by blast shields; non-intrusive cockpit installation</td>
<td>Easily accessible B-Kit with components mounted for quick change out; modular design for fast combat damage repairs</td>
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<td>Performance</td>
<td>Operate with more power margin than EAPS, uses basic inlet charts with backup EAPS charts; lower pressure drop than other options with superior particle separation efficiency</td>
<td>Per TMIs, significant performance improvement over EAPS with lower inlet pressure drop and a flat pressure drop characteristic with forward airspeed; fully qualified for weapons fire</td>
<td>Operate with more power margin than EAPS, uses basic inlet charts; lower pressure drop than other options with superior particle separation efficiency</td>
<td>Per TMIs, lower pressure drop than EAPS, superior particle separation efficiency; fully qualified for weapons fire</td>
<td>Per TMIs, designed to provide lowest possible inlet loss with fully contaminated filters in a hover condition with superior particle separation efficiency</td>
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<td>Proven</td>
<td>The US Army has equipped 100% of its TH-67 fleet with the IBF. The Iraq Air Force operates the IBF. Commercial kits used by law enforcement and commercial operators worldwide.</td>
<td>Standard configuration on the US Army Special Operations Little Bird Standard equipment on the MD Helicopters production line. The Royal Jordanian Air Force, Afghan Air Force and Republic of Korea Army OH/AH-6 operate the IBF. Commercial kits used by law enforcement and commercial operators worldwide.</td>
<td>Fielded by the US Department of State on its fleet of UH-1H Huey II aircraft. The Iraq Air Force, Royal Thai Air Force and Georgian Air Force operate the IBF. Commercial kits used by law enforcement and commercial operators worldwide.</td>
<td>Standard configuration on the US Army fleet. Engines routinely make published TBO even while operating in Iraq and Afghanistan. The significant advantages of the filter led to it being specified on the US Army Armed Reconnaissance Helicopter (ARRH) Program.</td>
<td>The US Army has equipped 25% of its UH-60 fleet with the IBF. The United Arab Emirates Air Force, Royal Saudi Air Force and Swedish Armed Forces operate the IBF.</td>
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For more information, contact:
Donaldson Company, Inc., Aerospace & Defense Group
17891 Chesterfield Airport Road, Chesterfield, MO 63005
North America +1-877-314-9640
aerospace.americas@donaldson.com
Europe +33 1 3086 6698
aerospace.emea@donaldson.com

To learn more about the Donaldson Company, Inc., Aerospace & Defense Group
visit www.DonaldsonRotorcraft.com
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