



Pall Corporation

The Ultimate in Helicopter Engine Protection



Helicopters can experience catastrophic failures without adequate engine protection

Helicopters are frequently challenged by the various airborne contaminants encountered in flight: sand, dust, ice, FOD, snow, heavy rain and salt spray. If ingested at the engine air intakes, these contaminants can seriously affect helicopter safety and availability while driving engine maintenance costs ever higher.

Helicopters have to be ready 24/7 for rapid dispatch to any location. Their mission cannot be delayed, restricted or aborted by a blocked air intake filter so they require a maintenance free engine protection system.

Next Generation Centrisep® EAPS

The fit and forget Centrisep Engine Advanced Protection System (EAPS) is the optimum solution for such challenging operations.

For older helicopters there are new, upgraded Centrisep designs which offer:-

- Increased dust separation efficiency
- Lightweight vortex tube designs
- Reduced scavenge power
- Reduced maintenance and operational costs



A new video and e-learning module are available on the Centrisep EAPS website

www.pall.com/centrisep



Filtration. Separation. Solution.™

Pall Centrisep® EAPS offers maintenance free engine intake protection from:

SAND/DUST



Photo Courtesy of the U.S. Army.

BROWNOUT

Excellent sand and dust separation efficiency leading to reduced engine erosion that provides significantly increased engine life (up to 20-30 times).

SALT SPRAY



© Gabriel Savit



HEAVY RAIN

Separates up to 80% of salt spray, thus reducing salt fouling on critical engine parts.

Any water that is not separated enters the engine as a harmless spray. Significant reduction in risk of engine flame out.

SNOW



Photo courtesy of the Press and Journal

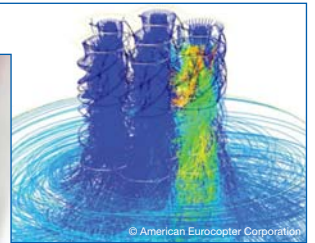
ICING

Excellent protection in snow and icing conditions. Certified for operation in case of inadvertent entry into icing conditions and therefore is allowed to operate without the need for a by-pass door and differential pressure monitoring systems.

FOD



© Alan Radecki



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HOT GAS

Formidable protection against FOD (Foreign Object Damage). Prevention of cross-ingestion from an engine failure.

Reduces airflow and temperature distortion which minimizes detrimental effect of Hot Gas Ingestion (HGI).



Sea King S-61



EC135



AS350/EC130



Picture courtesy of Agusta Westland
AW139



CH-47

The Pall EAPS solution is an environmentally friendly alternative to oil wetted barrier filters. There is no filter replacement and no daily cleaning with oil based solutions which are difficult and expensive to dispose of.

Pall Centrisep EAPS units have been protecting helicopter engines since the 1960's. More than fifty different designs have been certified and operate worldwide. They are used on a variety of rotorcraft including AgustaWestland, Bell, Boeing, Denel, Enstrom, Eurocopter, Kaman, MIL and Sikorsky.



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