



Pall Corporation

## AW109 Helicopter

### *PURE*air System

### The Ultimate in Engine Protection

The AW109 helicopter is used in a variety of roles including Emergency Medical Services (EMS), police surveillance and military operations. These demanding operations can mean anxious minutes spent hovering close to the ground, as well as frequent landings on unprepared surfaces away from their main base.

These helicopters have to be ready 24/7 for rapid dispatch to any location. Their mission cannot be delayed or restricted by a blocked filter so they require a maintenance-free engine protection system.

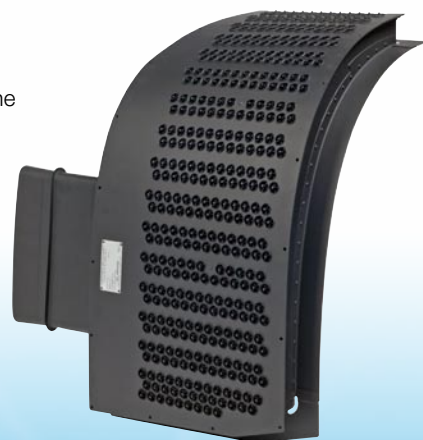
The *PURE*air system is the perfect solution for such challenging operations.

It provides the highest level of engine protection which results in:

- Reduced maintenance & operational costs
- Increased operational availability & reduced downtime
- Increased engine reliability
- Safer operation (protection against FOD, ice, snow and sand)
- Protection against engine erosion



*PURE*air system for the AW109 helicopter



# *PURE*air

FEATURING  TECHNOLOGY  
Aerospace

## Product Details

A109 Power	Pall P/N	Agusta P/N
Port	<b>QB0582</b>	<b>109-0840-02-101</b>
Starboard	<b>QB0583</b>	<b>109-0840-02-102</b>
A109S	Pall P/N	Agusta P/N
Port	<b>QB0849</b>	<b>109-0840V02-103</b>
Starboard	<b>QB0850</b>	<b>109-0840V02-104</b>

Product available as a factory option for new build helicopters

Scavenge System: Ejector Scavenge.

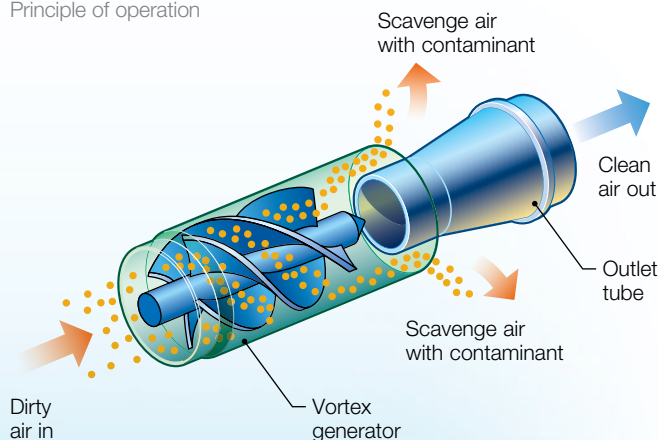
Certified for inadvertent entry into icing conditions.

**No bypass door required.**

Approval: FAR 27 certification to RTCA-DO160C.

### *PUREair* Vortex Tube

Principle of operation



## The *PUREair* system benefits:

### Self Cleaning System

No barrier filters to clean /replace

### Constant Removal Efficiency

Non-bypass system. No degradation in filtration performance

### No Filter Blockage

*PUREair* pressure drop does not increase with use - no risk of in-flight filter blockage

### Increased Engine MTBUR

Improved protection from engine erosion

### Increased Flight Safety

Excellent protection against FOD (Foreign Object Damage)

### All Weather Protection

Excellent protection in Ice, Snow, Heavy Rain, and Salt Spray Conditions. Certified for flight in "known icing conditions"

Pall *PUREair* systems 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, Airbus Helicopters, Kaman, MIL and Sikorsky.



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