

Protect your Nitrogen Generating System's (NGS) Air Separation Module (ASM)

The Air Separation Module (ASM) is a critical component of the Nitrogen Generating System (NGS). Used for many years in various industrial applications, ASMs offer a high level of reliability and studies show that when protected by the correct level of pre-filtration, can demonstrate service lives often exceeding 10 years.

In contrast, the high cost ASMs used in aircraft applications are only achieving between 30% and 50% of their expected service life. Known to degrade from exposure to Ozone and Volatile Organic Compounds (VOCs) ASMs are generating a significant cost burden for Airlines and Original Equipment Manufacturers (OEMs) alike.



Current available solutions that look to protect the NGS Air Separation Module (ASM) only provide a 2-stage filtration process that removes particulate, oil and water mist contamination from engine bleed air but leaves the ASM exposed to Ozone and Volatile Organic Compounds (VOCs).

FEATURES

- Robust 4-stage pre-filtration process
- High efficiency Ozone catalyst
- Advanced VOC adsorption stage
- Exceeds basic performance of OEM pre-filter
- Direct fit replacement under FAA - EASA STC for existing 2-stage only pre-filters

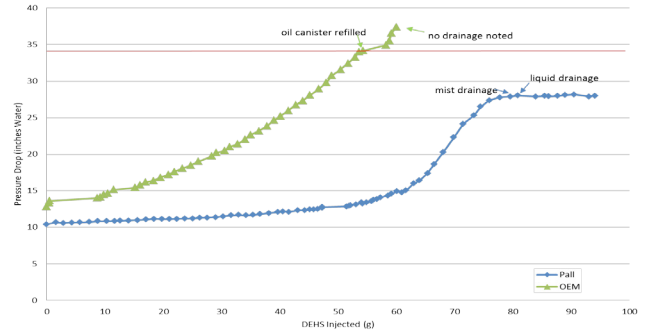
BENEFITS

- Removes additional harmful contaminants from incoming engine bleed air
- Reduces Ozone levels to less than 1ppB (parts per billion)
- Removes all VOCs that are damaging to the ASM's performance and reliability
- Extends ASM life by thousands of hours
- Easy to implement and fully reversible to the original OEM configuration

PERFORMANCE

LIQUID REMOVAL RESULTS

Demonstrates the effectiveness of the Pall Aerospace coalescer and confirms that it will always drain before it reaches the terminal dP, therefore guaranteeing that liquid will not be carried downstream to the ASM and blind the membrane pores.

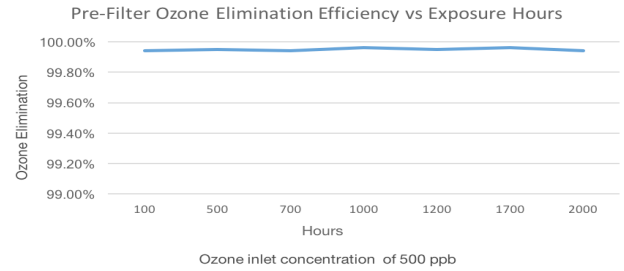


OZONE LIFETIME TEST RESULTS

Shows the efficiency of the Ozone catalyst remains stable over a long period of time independent from initial challenge levels.

Downstream Ozone level when measured with a high resolution sensor was less than 1ppB against an upstream challenge of 500ppB at 180°F.

Pre-Filter Ozone Elimination Efficiency vs Exposure Hours

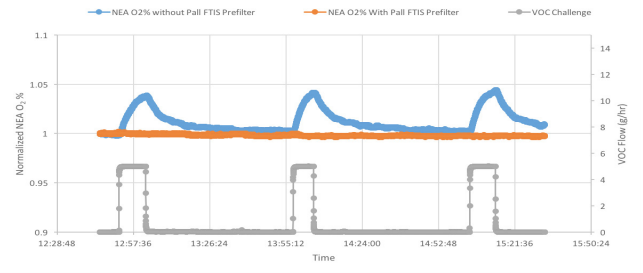


HIGH CONCENTRATION CHALLENGE

Demonstrates the efficiency of the PV200 Life Extension Pre-Filter in removing bleed air contaminants before they reach the ASM membrane.

NOTE: NEA = Nitrogen Enriched Air

Impact of VOCs on Membrane Performance



ORDERING INFORMATION

Pall P/N: **A290951 & A290951K1T**

The PV200 Nitrogen Generating System (NGS) Life Extension Pre-Filter can be ordered from our distributor Satair as FAA-PMA approved Pall Part Numbers **A290951** & **A290951K1T** under PQ1063CE.

Technical data presented in this product datasheet represents only a fraction of the test program that has taken place to demonstrate the effectiveness of the pre-filter. For further details, facts and figures, please get in touch:

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PV200
Life Extension Pre-Filter
for Boeing 737



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