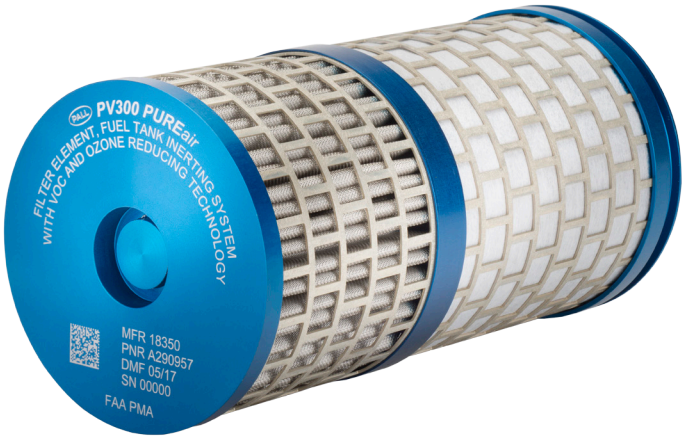
PALL Aerospace

PV300
Designed for **Airbus 320**

Protect your Fuel Tank Inerting System's Air Separation Module (ASM)

The Air Separation Module (ASM) is a critical component of the Fuel Tank Inerting System (FTIS). 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 FTIS 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 adsorbtion stage
- Retains 7000 hours exchange interval
- Direct fit replacement under FAA - EASA STC for existing 2-stage only pre-filters

BENEFITS

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

Filtration. Separation. Solution.SM

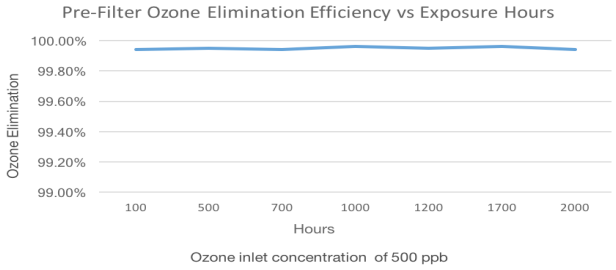
PV300 Performance

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 85°C.

Pre-Filter Ozone Elimination Efficiency vs Exposure Hours



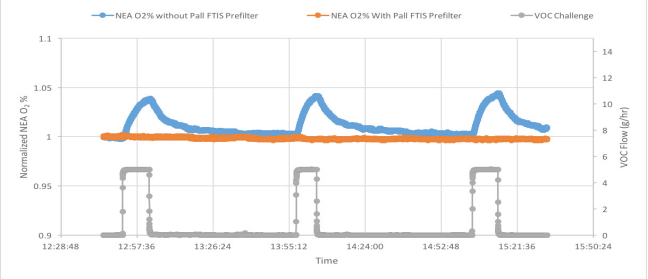
The Ozone removal capability of the PV300 filter is superior to that of the Upstream Ozone Catalyst when both are newly installed, enabling the replacement of the upstream Ozone converter with a straight pipe and allowing the PV300 to control Ozone levels.

HIGH CONCENTRATION CHALLENGE

Demonstrates the efficiency of the PV300 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: A290957STC - initial installation
A290957K1T - spare filters

The PV300 Fuel Tank Inerting System (FTIS) Life Extension Pre-Filter can be ordered from our distributor Satair for initial installation under FAA STC ST04414AT, EASA STC pending.

A290957STC is requiered for initial installation, after which A290957K1T is requiered for ongoing MPD task 470000-01-1 in lieu of OEM P/N KIT2050118-301.

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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PV300
Life Extension Pre-Filter
for Airbus 320

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