



UpCore™

New fully approved Airbus Vendor Service Bulletin #20499-21-001 & #44142-21-001 recommending airlines to upgrade A320 Series and A330/340 Series Ozone Converters to Ozone-VOC Converters

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Airlines increasingly are suffering flight delays and potential diversions due to cabin odor issues and fume events. These delays cost airlines money, inconvenience their customers and tarnish their image. BASF's UpCore™ offering provides a cost-effective and sustainable technology upgrade for airlines to mitigate these issues: with our UpCore™ Service, we replace your current Ozone-only catalyst core with our Airbus approved Ozone-VOC (Volatile Organic Compounds) catalyst core. UpCore™ is based on a standard procedure that BASF has been performing for numerous years.



VALUE TO AIRLINES

Airlines reduce the **risks of flight delays** due to cabin odor issues and fume events in a cost-effective and easy-to-implement way and save costs of odor events from \$10,000 to \$150,000, guarantee passengers and crew a **pleasant experience** and **strengthen their image**.

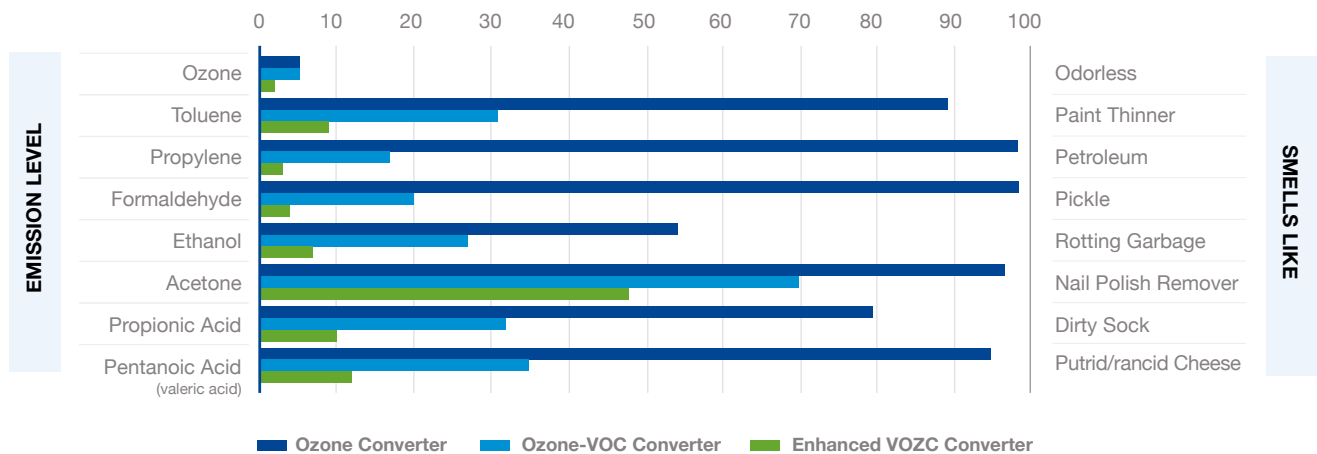


VALUE TO PASSENGERS AND FLIGHT CREW

Passengers and flight crew **enjoy their stay** in the airplane! Without unpleasant smells like petroleum or dirty socks, they will have a positive experience on-board, leave the plane more relaxed and **spread the word** to strengthen the airline's positive image.

VOC REMOVAL

Ozone-only, Ozone-VOC and Enhanced VOZC converters treatment of bleed air after applying UpCore™. UpCore™ to BASF's next generation VOZC catalyst technology will be available in 2024.



YOUR BENEFITS WITH UPCORE™

- Ozone-VOC converters mitigate **odor causing hydrocarbons** while retaining the necessary **compliant ozone conversion** function of standard Ozone-only converters.
- Improve aircraft **operational reliability** and **passenger/flight crew comfort** by mitigating odors entering the cabin.
- **Seamless, cost-effective and sustainable** upgrade from ozone-only converter to Airbus approved Ozone-VOC or Enhanced VOZC catalyst technology by reusing the existing housing.
- Reset converter performance to OEM factory new state of an Ozone-VOC converter that utilizes the **same OEM part number** as a factory new part without the need of a STC or DER. OEM equipment will meet leasing company requirements.
- Next generation VOC converter technology offers a **step-change improvement** across a wide array of VOCs, representing a 66 percent improvement over existing Ozone-VOC converters while **removing 88 percent of the nastiest odorous VOCs (valeric acid)** in the bleed air entering the cabin.
- Over 30 years in OEM MRO Service expertise that ensures confidence in converter performance.
- Feel confident in the upgrade as BASF's Ozone-VOC converter has been used on Airbus A320's for over 18 years.

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