

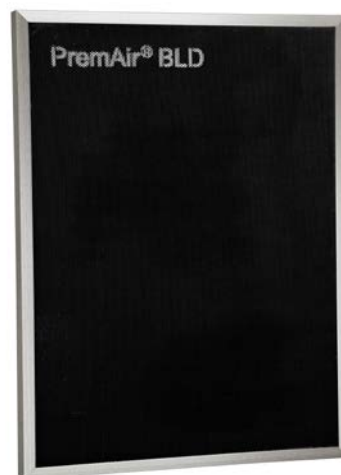
PremAir® BLD

HVAC Ozone Removal Technology

PremAir® BLD catalyst technology for HVAC (Heating Ventilating Air Conditioning) applications is designed to convert harmful, ground-level ozone into oxygen at room temperature. PremAir® BLD promotes indoor air quality for both commercial and residential applications.

BASF has over 40 years of experience in developing solutions for clean air for a wide range of applications. As the global leader in catalysis, BASF is developing various technologies to remove numerous gaseous pollutants.

PremAir® BLD employs an optimized formulation specifically designed for room temperature operation to rapidly convert ozone into oxygen.



Ozone can be harmful

Ground level ozone (O₃) is not emitted directly into the air, but is created by chemical reactions between oxides of nitrogen (NO_x) and volatile organic compounds (VOC) in the presence of sunlight.

Emissions from industrial facilities and electric utilities, motor vehicle exhaust, gasoline vapors, and chemical solvents are some of the major sources of NO_x and VOC.

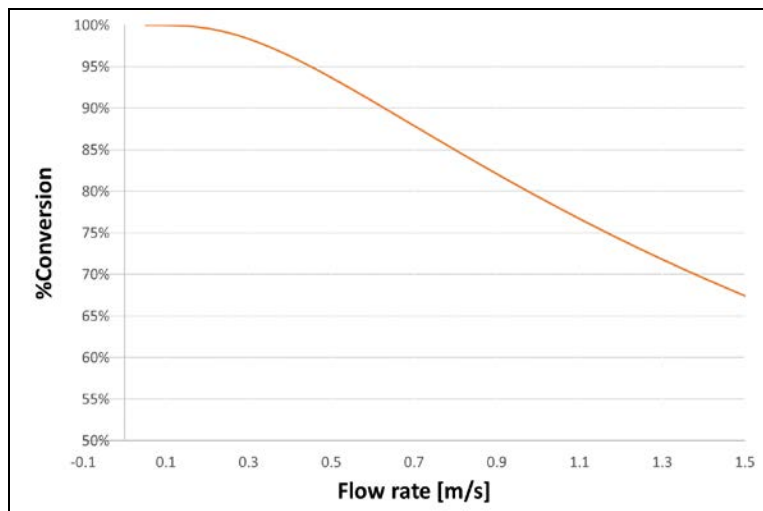
Breathing ozone can trigger a variety of health problems, particularly for children, the elderly, and people of all ages who have lung diseases such as asthma. Ground level ozone can also have harmful effects on sensitive vegetation and ecosystems.

Application Specification

The U.S. EPA (Environmental Protection Agency) determined 8 hours average 76-95 ppb as “unhealthy for sensitive groups”. PremAir® BLD is designed as a filter in the ventilation ductwork to remove ground level ozone in indoor environments including inside buildings as well as automobile cabins.

Operating Specification	
Temperature Range	10 – 35 °C
Relative Humidity	0 – 90%
O ₃ Concentration	0 – 800 ppb
Conv. Ration (single pass)	Up to 99%
Pressure Drop	C: 3 – 10 Pa
	F: 6 – 50 Pa
	X: 10-100 Pa

Performance Graph (ozone conversion)



Product Availability

	Format	Thickness	Benefit
PremAir® BLD - C	Honeycomb	20-50 mm	Low back pressure drop
PremAir® BLD - F	Foam	5-25 mm	Flexible, low bypass, high efficiency
PremAir® BLD - X	Extrudate	Φ: 2 – 4 mm	Long lasting, use for mixing with other pellets

About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

BASF - We create chemistry

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