
PRODUCT BULLETIN

DEEP BED SCRUBBER FOR CORROSION



The Purafil Deep Bed Scrubber (DBS) for corrosion control is designed for areas where high contaminant gas levels are present. It provides protection against environmentally induced corrosion in control and switch gear rooms equipped with electronic process control systems. The DBS is ideal for refineries, steel mills, smelters, chemical plants, petrochemical plants, and other hostile environments. Each DBS is designed to deliver “G1” air to the space it is protecting according to the environmental standard definition set by the International Society of Automation (ISA).

Corrosion-Free Air: Each DBS delivers “G1” corrosion-free air to the space it is protecting. The scrubber’s aluminum construction is corrosion resistant and capable of withstanding outdoor conditions. The DBS is designed for installation outside of the space it is protecting, making it suitable for retrofit applications or in environments without room for air purification equipment within the space to be protected. Systems are available from 400 CFM and higher, offering design flexibility to meet specific design requirements.

Media Selection: To control specific contaminant gases, the DBS is filled with up to three different dry scrubbing media manufactured by Purafil, Inc. Each media type effectively removes a range of contaminant gases for maximum protection against corrosion.

Economical: The DBS is effective at a low cost per CFM. Specific pressurization and efficiency requirements can be met, reducing the capital cost of the equipment.

System Compatibility: The DBS is designed to be compatible with the Purafil Corrosive-Air System (CA) and the Purafil Side Access System (PSA) when room requirements include environmental recirculation.

Local Service: The DBS is sold through Purafil’s global network of local, factory trained representatives. Purafil’s representatives provide timely technical assistance and outline a comprehensive service program.

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Standard Features:

- 3003 H14 aluminum construction
- Pre and Final filters (30% efficient and 90% respectively per ASHRAE standard 52-76)
- Up to three different dry-scrubbing media manufactured by Purafil, Inc.
- Mill and chemical duty motor and blower
- 1.0 IWG (249 Pa) external static pressure

Optional Features:

- Stainless steel construction
- Double Wall construction
- OnGuard® Smart for clean air verification
- Explosion proof motor
- Rainlouver with birdscreen
- Redundant blower, motor, and back draft dampers
- Additional external static
- Pre and final filter gages with housing
- UL listed for hazardous and non-hazardous environment