

# PRODUCT BULLETIN

## 4 THE PURAFIL DEEP BED SCRUBBER



**THE PURAFIL DEEP BED SCRUBBER (DBS)** 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 Instrumentation, Systems and Automation Society (ISA).



THE PURAFIL  
DEEP BED SCRUBBER



PURAFIL DEEP BED SCRUBBER  
AT TUPRAS IZMIT REFINERY  
IN TURKEY

### SYSTEM ADVANTAGES:

**CORROSION-FREE AIR:** Each DBS delivers "G1" corrosion-free air to the space it is protecting. The scrubber's aluminum corrosion 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 800 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 to ensure optimum performance of your system.

### STANDARD FEATURES:

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

### OPTIONAL FEATURES:

- Stainless steel construction
- Double Wall construction
- OnGuard CCT for clean air verification
- Explosion proof motor
- High efficiency final filter (Purafil's JFL-90)
- Rainlouver with birdscreen
- Redundant blower, motor, and back draft damper
- Additional external static
- Gages for motor & blower
- Air Measuring Station
- Pre & Final filter gage housing