

PRODUCT BULLETIN

4 THE PURAFIL ESD DEEP BED SCRUBBER



THE PURAFIL ESD DEEP BED SCRUBBER (DBS) removes high concentrations of odorous gases from screening rooms, small headworks, and large pump stations. It is also used to polish biofilter discharge air. The DBS is built-to-order and sized for airflows from 1,000 to 8,000 cfm. At the heart of the DBS is Purafil ESD dry-scrubbing media. The scrubber is designed for horizontal airflow and houses up to four vertical media stages for multiple gas challenges.



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SYSTEM ADVANTAGES:

PROVIDES ODOR-FREE AIR: The Deep Bed Scrubber contains up to four, 12-inch deep, vertical media beds. This multi-bed design ensures extended contact time with odorous contaminants and the highest removal efficiency.

LOW MAINTENANCE: Each of the scrubber's vertical media beds can be replaced independently on an as-needed basis. This reduces maintenance time and saves in long-term media costs. Media changeout is simple and fast. The blower section and media bed are designed to be easily accessible.

COMPLETE GAS REMOVAL: Purafil ESD systems are designed for 100% efficiency at any airflow. Purafil ESD offers a variety of dry-scrubbing media, each of which targets a specific gas or gaseous contaminant group. Complete gas removal is achieved by combining two or more media in successive stages.

LOCAL SERVICE: Purafil ESD's network of local representatives offers convenient and timely service. These factory-trained representatives work in conjunction with Purafil ESD's in-house laboratory to provide Media Life Analysis and other comprehensive technical services.

TARGETED ODORS/GASES:

- Hydrogen sulfide
- Sulfur dioxide
- Mercaptans
- Aldehydes
- Organic compounds

STANDARD FEATURES:

- 3003 H14 aluminum construction
- Stainless steel hatches and hinges
- Mist eliminator/prefilter
- Up to four, 12-inch-deep (308 mm), vertical media beds
- Internally mounted, enclosed blower system
- Filter and blower side access doors
- Top access media fill chutes
- Side access media ports
- 1.0 IWG (249 Pa) external static pressure

OPTIONAL FEATURES:

- Double Wall construction
- Air measuring station, CFM gage, room pressure gage and housing (shipping separately for field installation)
- Maintains superior performance in climates with fluctuating temperature and relative humidity
- Lower operating horsepower and pressure drop than activated carbon-only systems

APPLICATIONS:

- Small Headworks
- Large Pump Stations
- Screening Rooms
- Biofilter discharge