

Purafil ESD Drum Scrubber - 500



Manufactured by Purafil Environmental Systems Division (ESD), the Drum Scrubber-500 (DS-500) is ideal for removal of odorous gases found at pump stations, lift stations, wet wells, force mains, and even at the wastewater treatment plant. Recommended for moderate-load applications, the DS-500 is sized for airflows up to 500 cfm.

Construction: The DS-500's polyethylene canister measures 36 inches (91.4 cm) in diameter, 72 inches (182.8 cm) in height (including blower), and 1/4-inch (6.4 mm) in thickness.

Media: At the core of ESD's high-efficiency odor control systems are dry-chemical air filtration medias. The DS-500 is bulk filled with multiple layers of Odoroxidant™, Odorcarb™ II, and Odormix™ media for broad-spectrum removal of sewage odors at 99.5+% efficiencies.

Applications

- Pump Stations
- Lift Stations
- Wet Wells
- Force Mains
- Head Works
- Aerobic Digesters
- Clarifiers
- Sludge Dewatering

Targeted Odors/Gases

- Hydrogen sulfide
- Ammonia
- Aldehydes
- Sulfur dioxide
- Mercaptans
- Organic compound

System Advantages

Corrosion-Resistant Housing: The DS-500 is constructed of corrosion-resistant materials and requires essentially no maintenance, making it ideal for remote, outdoor applications or areas where high levels of acid gases are present.

Low Maintenance: The DS-500 has only one moving part—a blower. Other than routine service checks, no maintenance is required to ensure maximum scrubber performance. The expected service life of the DS-500 is nine months to one year, depending on the contaminant level.

Complete Gas Removal: Purafil ESD's Odoroxidant, Odorcarb II, and Odormix media offer broad-spectrum removal of sewage odors. By using these media in combination, users are assured of complete odor control.

Quiet Operation: The DS-500 is designed for quiet operation in residential neighborhoods

Media Sampling Ports: Two media sampling ports, located on the side of the DS-500, allow for easy access to the media beds. Upon receiving the samples, Purafil ESD's laboratory performs a complimentary Media Life Analysis to project remaining service life. Timely replacement of spent media is critical in preventing odor breakthrough.

Local Service: Purafil ESD's network of local representatives offers convenient and timely service. These factory-trained representatives work in conjunction with ESD's in-house laboratory to provide comprehensive technical service.

Standard Features:

- Linear, low-density, polyethylene canister (1/4-inch in thickness)
- Odoroxidant, Odorcarb II, and Odormix media (17 ft³)
- Integrated motor housing
- Totally Enclosed Fan Cooled (TEFC) motor
- High-density, rotomolded, polypropylene motor/blower assembly
- Adjustable damper (PVC)
- Stainless steel and rubber latches
- Stainless steel fasteners
- Thermoplastic packing and FRP lid
- Polypropylene impellers and motor shaft bushings
- Integrated rainhood
- Fernco flexible coupling at inlet
- Polyethylene inlet (8-inch pipe diameter)
- Airflows up to 500 cfm

Optional Features

- Other Purafil ESD media

Other System Advantages

- System media are UL Classified Class 1 and 2.
- Spent media is landfill disposable.
- Maintains superior performance in climates with fluctuating temperature and relative humidity.

