
PRODUCT BULLETIN

DRUM SCRUBBER 500

The Purafil Drum Scrubber 500 (DS-500) is ideal for removal of odorous gases found at pump stations, lift stations, wet wells, force mains, and wastewater treatment plants. 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, 66 inches (167.6 cm) in height (including blower), and 1/4-inch (6.4 mm) in thickness.

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

Applications: Pump Station, Lift Stations, Aerobic Digesters, Wet Wells, Clarifiers, Force Mains, Sludge Dewatering, Head Works

Corrosion-Resistant Housing: The DS-500 is constructed of corrosion-resistant materials and requires essentially no maintenance, making it ideal for remote 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 contaminant level.

Complete Gas Removal: Purafil's Odorcarb Ultra and Odormix SP 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.



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

Media Sampling Ports: Two media sampling ports, located on the side of the DS-500, allow for easy access to the media beds. When sampling the Odorcarb Ultra media, the blue Media Life Indicator Pellets will offer the user a visual indication of remaining media life by turning to white when expired. Samples of other media may be sent to Purafil's laboratory, where a complimentary Media Life Analysis is performed to project remaining service life. Timely replacement of spent media is critical in preventing odor breakthrough.

Standard Features:

- Polyethylene canister(1/4-inch in thickness)
- Odorcarb Ultra with Media Life Indicator Pellets and Odormix SP media (17 ft³)
- Totally Enclosed Fan Cooled (TEFC) motor
- Aluminum blower/motor assembly
- Weatherproofed blower/motor assembly
- Adjustable damper (AL)
- Stainless steel and rubber latches
- Thermoplastic packing and FRP lid
- Fernco flexible coupling at inlet
- Polyethylene inlet (8-inch pipe diameter)
- Airflows up to 500 cfm

Optional Features:

- Passive configuration
- Mist eliminator
- Silencer
- Available in FRP

Targeted Odors/Gases:

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

Other System Advantages:

- System media are UL Classified
- Spent media are landfill disposable
- Maintains superior performance in climates with fluctuating temperature and relative humidity.
- Blue Media Life Indicator Pellets offer a visual indication of remaining media life by changing to white when expired.