

# PRODUCT BULLETIN

## 4 THE PURAFIL ESD DRUM SCRUBBER 100



THE PURAFIL ESD DRUM SCRUBBER 100 (DS-100) is ideal for removal of odorous gases found at pump stations, lift stations, wet wells, force mains, and at the wastewater treatment plant. Recommended for low-load applications, the DS-100 is sized for airflows up to 100 cfm.



CLOSE-UP OF BLOWER WITH  
ADJUSTABLE DAMPER

**CONSTRUCTION:** The DS-100's polyethylene canister measures 22 inches (55.9 cm) in diameter, 60 inches (152.4 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 media. The DS-100 contains Odorcarb™ II with Media Life Indicator Pellets (patent-pending) and Odormix™ SP (patent-pending) media for removal of sewage odors at 99.5+% efficiencies. These media are factory-packed in MediaSAKs™ --- disposable mesh pouches --- which can be easily lifted, discarded and replaced.

#### APPLICATIONS:

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

#### SYSTEM ADVANTAGES:

**CORROSION-RESISTANT HOUSING:** The DS-100 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.

**EASY MEDIA REPLACEMENT:** The MediaSAK, a standard feature of the DS-100, offers easy replacement of odor control media. Five MediaSAKs are layered vertically within the scrubber — three containing Odorcarb II media and two containing Odormix SP. Installation and replacement is a one-person job. No tools are required.

**LOW MAINTENANCE:** The DS-100 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-100 is nine months to one year, depending on contaminant level.

**COMPLETE GAS REMOVAL:** Purafil ESD's Odorcarb II 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-100 is designed for quiet operation in residential neighborhoods.

**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 comprehensive technical service.

#### TARGETED ODORS/GASES:

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

#### STANDARD FEATURES:

- Linear, low-density, polyethylene canister
- Five MediaSAK disposable media pouches
- Odorcarb II with Media Life Indicator Pellets and Odormix SP media (5 ft<sup>3</sup>)
- Integrated motor housing
- Totally Enclosed Fan Cooled (TEFC) motor
- Aluminum blower
- Adjustable damper (AL)
- Stainless steel and rubber latches
- Stainless steel fasteners
- Thermoplastic packing and FRP lid
- Fernco flexible coupling at inlet
- Polyethylene inlet (4-inch pipe diameter)
- Airflows up to 100 cfm

#### OPTIONAL FEATURES:

- Passive configuration
- Other Purafil ESD media
- Rainhood

#### OTHER SYSTEM ADVANTAGES:

- System media are UL Classified Class 1 and 2
- 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.

