

# 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.



# PRODUCT BULLETIN

## 4 THE PURAFIL ESD DRUM SCRUBBER 300



THE PURAFIL ESD DRUM SCRUBBER 300 (DS-300) is ideal for removal of odorous gases found at pump stations, lift stations, wet wells, force mains, and at the wastewater treatment plant itself. Recommended for low to moderate load applications, the DS-300 is sized for airflows up to 300 cfm.



THE PURAFIL ESD  
DRUM SCRUBBER 300



CLOSE-UP OF BLOWER WITH  
ADJUSTABLE DAMPER

**CONSTRUCTION:** The DS-300's polyethylene canister measures 31 inches (78.7 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 media. The DS-300 is bulk filled with multiple layers of Odorcarb™ II with Media Life Indicator Pellets (patent-pending) and Odormix™ SP (patent-pending) media for removal of sewage odors at 99.5+% efficiencies.

#### APPLICATIONS:

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

#### SYSTEM ADVANTAGES:

**CORROSION-RESISTANT HOUSING:** The DS-300 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-300 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-300 is nine months to one year, depending on contaminant levels.

**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-300 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.

**MEDIA SAMPLING PORTS:** Two media sampling ports, located on the side of the DS-300, allow for easy access to the media beds. When sampling the Odorcarb II 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 Purafil ESD media may be sent to Purafil ESD'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:

- Linear, low-density, polyethylene canister (1/4-inch in thickness)
- Odorcarb II with Media Life Indicator Pellets and Odormix SP media (10 ft<sup>3</sup>)
- Integrated motor housing
- Totally Enclosed Fan Cooled (TEFC) motor
- Aluminum blower/motor assembly
- Adjustable damper (AL)
- Stainless steel and rubber latches
- Stainless steel fasteners
- Thermoplastic packing and FRP lid
- Fernco flexible coupling at inlet
- Polyethylene inlet (8-inch pipe diameter)
- Airflows up to 300 cfm

#### OPTIONAL FEATURES:

- Rainhood
- Other Purafil ESD media
- Passive configuration

#### 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.



# PRODUCT BULLETIN

## 4 THE PURAFIL ESD DRUM SCRUBBER 500



THE PURAFIL ESD 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.



THE PURAFIL ESD  
DRUM SCRUBBER 500



CLOSE-UP OF BLOWER WITH  
ADJUSTABLE DAMPER

**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 media. The DS-500 is bulk filled with multiple layers of Odorcarb™ II with Media Life Indicator Pellets and Odormix™ SP (patent-pending) 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

#### 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 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-500 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.

**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 II 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 Purafil ESD media may be sent to Purafil ESD's labora-

tory, 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:

- Linear, low-density, polyethylene canister (1/4-inch in thickness)
- Odorcarb II with Media Life Indicator Pellets and Odormix SP media (17 ft<sup>3</sup>)
- Integrated motor housing
- Totally Enclosed Fan Cooled (TEFC) motor
- Aluminum motor/blower assembly
- Adjustable damper (AL)
- Stainless steel and rubber latches
- Stainless steel fasteners
- Thermoplastic packing and FRP lid
- Fernco flexible coupling at inlet
- Polyethylene inlet (8-inch pipe diameter)
- Airflows up to 500 cfm

#### OPTIONAL FEATURES:

- Rainhood
- Other Purafil ESD media
- Passive configuration

#### 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.



# PRODUCT BULLETIN

## 4 THE PURAFIL ESD DRUM SCRUBBER 1000



**THE PURAFIL ESD DRUM SCRUBBER 1000 (DS-1000)** 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-1000 is sized for airflows up to 1000 cfm.



THE PURAFIL ESD  
DRUM SCRUBBER 1000

### SYSTEM ADVANTAGES:

**CORROSION-RESISTANT HOUSING:** The DS-1000 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-1000 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-1000 is nine months to one year, depending on the 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.

**MEDIA SAMPLING PORTS:** Two media sampling ports, located on the side of the DS-1000, allow for easy access to the media beds. When sampling the Odorcarb II 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 Purafil ESD media may be sent to Purafil ESD'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.

**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.

### STANDARD FEATURES:

- Linear, low-density, polyethylene canister (1/4-inch in thickness)
- Odorcarb II with Media Life Indicator Pellets and Odormix SP media (39 ft<sup>3</sup>)
- Integrated motor housing
- Totally Enclosed Fan Cooled (TEFC) motor
- Aluminum motor/blower assembly
- Adjustable damper (AL)
- Stainless steel and rubber latches
- Stainless steel fasteners
- Thermoplastic packing and FRP lid
- Fernco flexible coupling at inlet
- Polyethylene inlet (10-inch pipe diameter)
- Airflows up to 1000 cfm

### OPTIONAL FEATURES:

- Rainhood
- Other Purafil ESD media
- Passive configuration

### 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.

**CONSTRUCTION:** The DS-1000's polyethylene canister measures 52 inches (132.1 cm) in diameter, 79.5 inches (201.9 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-1000 is bulk filled with multiple layers of Odorcarb™ II with Media Life Indicator Pellets (patent-pending) and Odormix™ SP (patent-pending) 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

