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## PRODUCT BULLETIN

# CHLORINE DRUM SCRUBBER

**The Purafil Chlorine Drum Scrubber (CDS)** is ideal for removal of chlorine gas found at industrial or water treatment plants. Recommended for small airflow applications, the CDS is available in four sizes: 100, 300, 500 and 1000 cfm.

**CDS 100 Construction:** The CDS-100's fiberglass reinforced plastic (FRP) canister measures 25 inches (61 cm) in diameter, 36 inches (92 cm) in height, and 1/2-inch (12.7 mm) in thickness.

**CDS 300 Construction:** The CDS-300's FRP canister measures 33 inches (81.3 cm) in diameter, 48 inches (121.9 cm) in height, and 1/2-inch (12.7 mm) in thickness.

**CDS 500 Construction:** The CDS-500's FRP canister measures 37 inches (96.5 cm) in diameter, 48 inches (121.9 cm) in height, and 1/2-inch (12.7 mm) in thickness.

**CDS 1000 Construction:** The CDS-1000's FRP canister measures 53 inches (122 cm) in diameter, 66 inches (173 cm) in height, and 1/2-inch (12.7 mm) in thickness.

**Media:** At the core of Purafil's high-efficiency scrubber systems are dry-chemical air filtration media. The CDS contains Chlorosorb<sup>®</sup> Ultra media for removal of chlorine at 99.5+% efficiency. Chlorosorb Ultra's removal capacity for chlorine gas (Cl<sub>2</sub>) is 15% minimum by weight. For example, the CDS-500 with Chlorosorb Ultra is designed to remove approximately 115 lbs of chlorine.

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

**Low Maintenance:** The CDS has only one moving part – a blower. Other than routine service checks, no maintenance is required to ensure maximum scrubber performance.



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**Complete Gas Removal:** Gases are adsorbed and chemically transformed into inorganic salts that remain inside the media. Chlorosorb Ultra accommodates continuous airstreams as well as fluctuating gas concentrations and airflows. It is non-hazardous and UL Classified for flammability. In most cases, Chlorosorb Ultra is also landfill disposable.

**Quiet Operation:** The CDS is designed for quiet operation.

**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.

### Standard Features:

- Reinforced fiberglass canister
- Chlorosorb Ultra media (5, 10, 17 or 39 ft3)
- Integrated motor housing
- Totally Enclosed Fan Cooled (TEFC) motor
- Aluminum blower with Epoxy Coating
- Adjustable damper (Aluminum)
- Lids bolted with stainless steel hardware
- Stainless steel fasteners
- FRP lid
- FRP inlet (4, 8 or 10-inch pipe diameter)
- Airflows up to 1000 cfm

### Optional Features:

- Passive configuration
- Other Purafil media including CSO™ and Puracarb® AM

### Targeted Gases:

- Chlorine
- Hydrogen Chloride

### Applications:

- Low level fugitive emissions
- Small chlorine releases when changing out chlorine cylinders

### Additional System Advantages:

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