
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® Ultra media for removal of chlorine at 99.5+% efficiency. Chlorosorb Ultra's removal capacity for chlorine gas (Cl_2) 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