

## 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 24 inches (610 mm) in diameter. Drum height measures 38 inches (965 mm)

**CDS 300 Construction:** The CDS-300's FRP canister measures 30 inches (762 mm) in diameter. Drum height measures 50 inches (1270 mm).

**CDS 500 Construction:** The CDS-500's FRP canister measures 36 inches (914 mm) in diameter. Drum height measures 55 inches (1397 mm).

**CDS 1000 Construction:** The CDS-1000's FRP canister measures 54 inches (1372 mm) in diameter. Drum height is 68 inches (1727 mm).

**Media:** At the core of Purafil's high-efficiency scrubber systems are dry-chemical air filtration media. The CDS contains Purafil CSO media for removal of chlorine at 99.5+% efficiency. Purafil CSO's removal capacity for chlorine gas ( $Cl_2$ ) is 10% minimum by weight.

**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. Purafil CSO media accommodates continuous airstreams as well as fluctuating gas concentrations and airflows. It is non-hazardous and UL Classified for flammability. In most cases, Purafil CSO 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
- Purafil CSO media (5, 10, 17 or 39 ft<sup>3</sup>)
- 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 like Puracarb<sup>®</sup>

### 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

## Unit Specification

Unit	Max CFM	Diameter x Height [in]	Inlet Diameter, [in]	Media Volume, ft <sup>3</sup>	Removal Capacity, lbs of Chlorine
<b>CDS 100</b>	100	24 x 53	4	5	23
<b>CDS 300</b>	300	30 x 67	8	10	45
<b>CDS 500</b>	500	36 x 73	8	17	77
<b>CDS 1000</b>	1000	54 x 88	10/8	39	176

\* Height includes blower height. Height may also vary due to motor selection.

\* CDS1000 : 10" inlet size is standard and 8" inlet is available upon request.

## Electrical Data

Unit	Voltage, V	Phase	Hertz	Horsepower, [hp]
<b>CDS 100</b>	115/230	1	60	0.5
<b>CDS 300</b>	115/230	1	60	1
<b>CDS 500</b>	115/230	1	60	1.5
<b>CDS 1000</b>	230/460	3	60	3