

## Ozgen CDC

### Catalytic Ozone Off Gas Destructors CDC002 & CDC005

#### Principal of Operation

The Ozgen CDC Series Catalytic Ozone Destructors are designed to catalytically convert ozone in contactor off-gas systems to oxygen.

Ozonized air flows via the ducting to the condensate trap where much of the moisture in the (saturated) air drops out to the catch-pot. If there is a possibility of foam being transferred to the ozone destructor, then we recommend a foam separator be fitted. The air travels into the destructor, passing over a heating element, which warms both the air and the catalyst material sufficiently to prevent condensation forming (which would shorten the life of the catalyst). The heated air then passes down through the catalyst chamber where the ozone present is converted to oxygen, before the air is discharged to the atmosphere.

#### Design Features

The Ozgen ozone destructors catalytically decompose at least 99% of the ozone present in a standard pressurized air stream, irrespective of varying ambient temperatures or humidity. The air (or oxygen) containing ozone is heated inside a 316 stainless steel chamber. The heater element is designed to operate correctly across the range from no airflow, to rated airflow.

The CDC002 and CDC005 have no moving parts and no day to day maintenance requirements. The model CDC002 operates at ozone gas flows up to 2m<sup>3</sup>/hr and the CDC005 up to 5m<sup>3</sup>/hr. These units use the same manganese dioxide based catalyst as the CDC040, CDC080 and CDC100, to convert ozone in contactor off-gas systems to oxygen. The CDC002 & CDC005 new destructors are designed for use with pressurized ozone contact chambers.

#### Please Note:

A foam eliminator should be installed prior to the ozone off gas destructor where there is the possibility of foam entering the off gas destructor unit.

The installer needs only provide an electrical power source (240V GPO) and ozone resistant ducting from the contact tank to the destructor inlet. The ducting material should be PVC, or for extra long life, stainless steel.

The destructors have an integral bracket for wall mounting of the unit conveniently close to the contact chamber. A condensate trap, matched to the gas flow, is mounted directly on the destructor inlet, with a water catch-pot below.

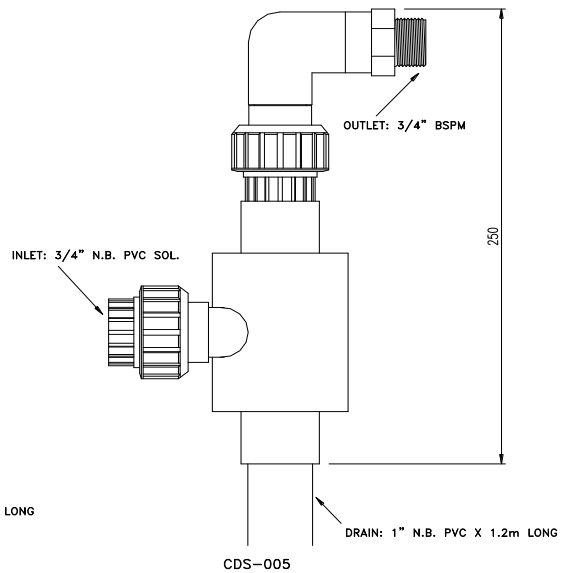
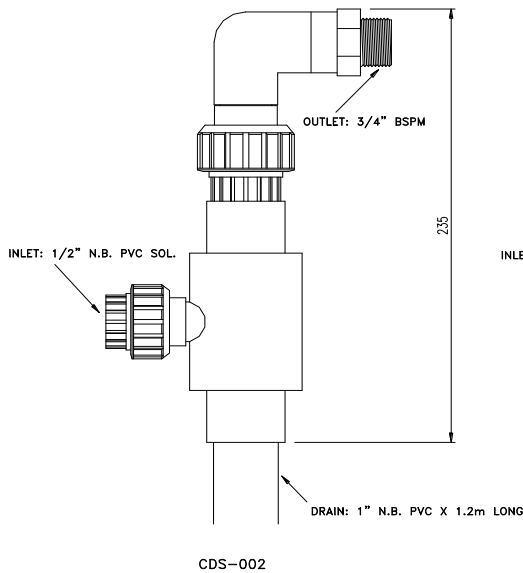
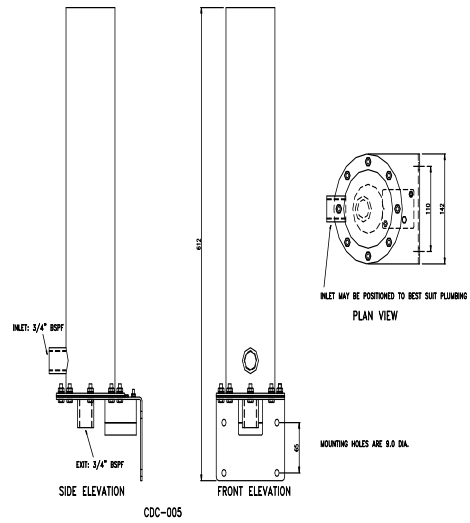
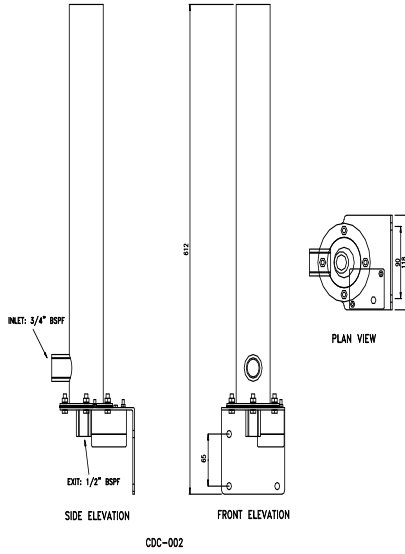
The rated airflow for these destructors is based on a minimum temperature of 0°C. For temperatures below 0°C, a slightly higher wattage heating element must be fitted. Simply specify the temperature range when ordering.

The Ozgen catalytic ozone destructors are designed for easy, reliable installation and operation without the need to monitor and adjust valves or airflows. When selected and installed correctly, these units will provide many years of trouble free operation

Model	Ozone/Gas Flow (m <sup>3</sup> /hr)	Min. Ambient Temp (°C)	Power Req. V/pH/Hz	Min/Max Heater kW	Motor kVA	Dimension mm W x H x D	Weight Kg
CDC002	2	0	240/1/50	0.03	N/A	230x600x180	5
CDC005	5	0	240/1/50	0.04	N/A	250x600x200	7

## Ozgen CDC

### Catalytic Ozone Off Gas Destructors CDC002 & CDC005



CONDENSATE TRAPS (SWIRLERS)

**AUSTRALIA**  
**WATERTEC ENGINEERING PTY LTD**  
 Tel: +61 7 3287 1288  
 Email: sales@watertecengineering.com  
[www.watertecengineering.com](http://www.watertecengineering.com)

**MALAYSIA**  
**WATEROTEC (M) SDN BHD**  
 Tel: +603 6092 9029  
 Email: sales@waterotec.com

