

# Off-Gas Destruct System

---

## Installation Instructions



**ClearWater Tech, LLC**  
Integrated Ozone Systems

# Off-Gas Destruct System Installation Instructions

The ClearWater Tech ozone off-gas destruct system consists of two components – the ozone destruct unit (a heated chamber filled with manganese dioxide and copper oxide) and a water trap. The two-stage system is designed for convenient installation on a vertical surface adjacent to the contact vessel, eliminating the need for extra clearance above the vessel. Used in conjunction with the ClearWater Tech stainless steel off-gas vent, this ozone destruct system is an efficient way to properly vent the contact vessel for indoor applications.

## Notes:

- The ozone destruct unit must have constant power to function correctly. Make sure it is plugged into an unswitched 120VAC outlet (OCD11) or wired to unswitched 240VAC power (OCD21). Once up to temperature, the unit will remain warm to the touch.
- Small amounts of water will be draining out of the water trap, so it must be plumbed to waste accordingly.

## **INSTRUCTIONS -**

- STEP 1:** Using the clamps provided, mount the water trap onto a vertical surface adjacent to the contact vessel.
- STEP 2:** Using the mounting tabs, mount the ozone destruct unit adjacent to the water trap.
- STEP 3:** Using Teflon® tape, install the small ball valve into the opening (at the tee) of the water trap.
- STEP 4:** Using the fitting provided, attach one end of a length of 1/4” Teflon® tubing to the off gas vent on top of the contact vessel. Attach the other end of the tubing to the inlet of the small ball valve in the water trap.
- STEP 5:** Attach another length of Teflon® tubing to the fitting on top of the water trap. Attach the other end of the tubing to the inlet of the ozone destruct unit.
- STEP 6:** Attach a suitable length of braided tubing to the fitting on the bottom of the water trap. The other end should terminate to appropriate waste.
- STEP 7:** Plug the ozone destruct unit into an unswitched 120VAC outlet (OCD11) or wire to 240VAC power (OCD21) and allow it to warm up.
- STEP 8:** When the ozone system is running (i.e., water is flowing through the system and the contact vessel is full of water), adjust the small ball valve at the tee of the water trap so that only a small amount of water is “spitting” into the water trap. This will indicate that the contact vessel is full and only a very small amount of water is allowed to escape.

