

Product Profile

CATALYTIC OZONE OFF GAS DESTRUCTOR



PRINCIPAL OF OPERATION

The Catalytic Ozone Destructors are designed to catalytically convert ozone in contactor off-gas system to oxygen.

These destructors are self contained units which can operate under pressure from the contact tanks etc. Optionally, a specially designed ventilation fan to extract the off-gas from atmospheric style ozone contact chambers can be fitted.

If the ventilation fan is used, then the entire catalytic reaction takes place under negative pressure in the system, with only the deoxygenated exhaust being under positive pressure. Normally the catalytic destructor is placed above the contact tank on a platform. Should the tank not be covered, it should have a secure, but not necessarily airtight lid attached.

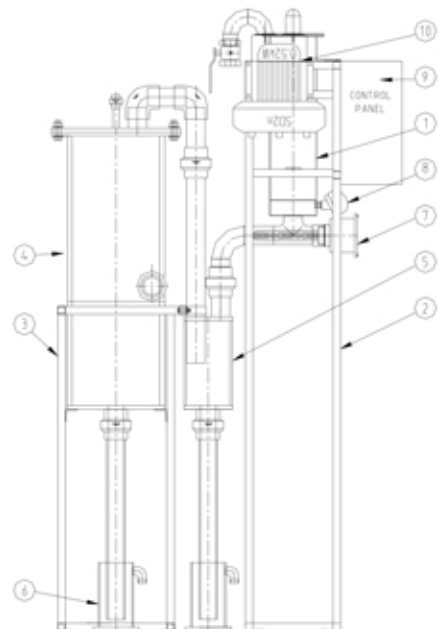
The rated airflow for these destructors is based on a minimum temperature of 10°C. For temperature below 10°C, select Model and de-rate the maximum flow 5m³/h per 0°C below 10°C.

The installer need only provide an electrical power source and ozone resistance ducting from the contact tank to the destructor inlet. The airflow is induced through the destructor by pressure or vacuum.

The heated air then passes through a catalyst chamber, which contains beads of a proprietary catalyst. The catalyst, which is based on manganese oxide catalytically converts the ozone to oxygen. After the catalytic destruction process the deoxygenated air is discharged to atmosphere.

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A foam eliminator should be installed prior to the ozone destructor where the possibility of foam may enter the ozone destructor unit.



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