

Catalytic thermal oxidizer system

- Provides large- to small-scale systems tailored to customer needs.

Features

- ◆Catalytic thermal oxidizer system
 - Catalytic thermal oxidizer systems incorporate a precious metal catalyst comprised of a metal honeycomb structure, and break down organic compounds(VOC) or ammonia with high control efficiency (95.0% or more).
- ◆Ethylene oxide gas oxidizer system “PurEo”
 - Adoption of catalyst exclusively used for EOG treatment enables the treatment with high control efficiency (99.90% or more).
- ◆Customization
 - We are ready to consult on conditions such as optimal gas concentration, flow rate and other parameters, customization requests(engineering change), safety measures (gas concentration etc...) to meet customer needs.

Overview (Technical principles, actions, etc.)

1. VOC oxidizer system
Our VOC oxidizer systems range from small-scale catalytic combustion systems equipped with a heat exchanger for recovering heat generated by the exothermic oxidation reaction of VOC, to large-scale thermal oxidizer systems incorporating a concentrator and regenerative thermal oxidizer systems for treating large amounts of air with low levels pollutants.
2. Ammonia oxidizer system
Our Ammonia oxidizer systems incorporate unique flow and temperature control systems and a catalyst that selectively oxidizes ammonia. The systems are designed to produce low NOx (i.e., NOx generated by ammonia breakdown by oxidation).
3. Ethylene oxide gas oxidizer system “PurEo”
Ethylene oxide gas oxidizer system incorporate a catalyst that selectivity oxidizes the ethylene oxide gas (EOG) used for sterilizing medical instruments.



MD series : small-scale VOC oxidizer system

Introductory Track Record

- ◆Catalytic thermal oxidizer system
 - Chemical Plant
 - Corporate lab
 - University research institute
 - Paint Factory
 - Printing Ink Factory
 - The exhaust gas from a solvent storage warehouse
 - The exhaust gas from a drier and a furnace for heat treating etc...

- ◆Ethylene oxide gas oxidizer system "PurEo"
 - Medical Institute
 - Sterilization service company etc...



Ethylene oxide gas oxidizer system "PurEo"

Effects

- ◆MD Series : small-scale VOC oxidizer system
 - 95.0% or more of processing efficiency of VOC
 - It adopted a low-temperature (300°C~350°C) catalytic combustion system and a heat exchanger for efficient deodorization of odorous gas.

Model	MD-2	MD-4	MD-6	MD-10
Flow rate	2m ³ / min	4 m ³ / min	6m ³ / min	10m ³ / min
Heater capability	8Kw	16Kw	24Kw	40Kw
Dimension (mm)	W600×D1500 ×H1500	W700×D1600 ×H1500	W800×D1900 ×H1800	W1000×D2350 ×H2000

- ◆ Ethylene oxide gas oxidizer system "PurEo"
 - 99.90% or more of processing efficiency of ethylene oxide gas.
 - The catalyst only for EOG is used.

Model	CD-007	CD-015
Maximum treatment volume	7.4g / min	15.0g / min
Dimension(mm)	W750 D650 H1380	W1100 D760 H1875
Heater capability	8Kw	16Kw

Inquiries

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