Thermal Oxidisers

Applications
- VOC
- Odour
- Industrial Processes

Benefits of the Major Thermal Oxidiser
- Low fuel consumption
- Optimum combination of time, temperature and turbulence
- Low emission levels in compliance with local regulations
Equipment Description
The Major Thermal Oxidisers can be used for a wide variety of pollution control applications such as VOC destruction or odour control.

Furnace Construction
The Thermal Oxidiser shell is constructed of mild steel plate and stiffening with rolled and hollow sections.

Refractory Lining
Typical lining consists of hot face bricks or castable with an insulating back up lining in the combustion chamber and upper walls of ceramic fibre modules or medium weight castable for thermal efficiency and rapid heat up.

Recuperator—Effluent Preheater
Waste heat from the Thermal Oxidiser is utilised to pre-heat the incoming effluent stream, this preheater is a stainless steel shell and tube heat exchanger which proportionally reduces the fuel consumption with preheat temperature.

Process Air Preheater
Process dilution air is preheated in a stainless steel shell and tube heat exchanger. This additional preheater increases the process efficiency by introducing the recovered waste heat directly into the process.

Thermal Oxidiser Control via PLC
The function of the complete Thermal Oxidiser system is controlled and monitored by Program Logic Controller. The control system and software continuously monitors and adjusts process parameters such as pressure, exhaust flow and LEL to allow for unattended operation. The operator interface provides the user with a wide range of information and allows for manual adjustment in controlled circumstances.

For further information or assistance on our range of Incinerators please call one of our sales team

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