

Eco-buster



The Eco-buster, for your waste gas solutions

The Eco-buster is an advanced combustion system capable of oxidizing waste gases with a wide range of heating values, while producing low NO_x emissions. It guarantees full combustion of light and heavy hydrocarbons, including BTEX. The Eco-buster can perform as a stand-alone combustion unit (thermal oxidizer) or in combination with other heat-demanding processes, such as glycol regeneration in gas dehydration units and steam production in boilers. Based on the Client's space requirements, the Eco-buster can be installed vertically or horizontally without compromising the stability and reliability of the system.

Application of the Eco-buster as a thermal oxidizer

The Eco-buster can be used as a thermal oxidizer in vertical or horizontal orientation to thermally oxidize waste gases at 800°C. The heat produced in the combustion zone can then be utilised downstream for steam production or any other process requirement, based on the Client's needs. The flue gases are then vented to the atmosphere through a flue-gas stack at a safe elevation.

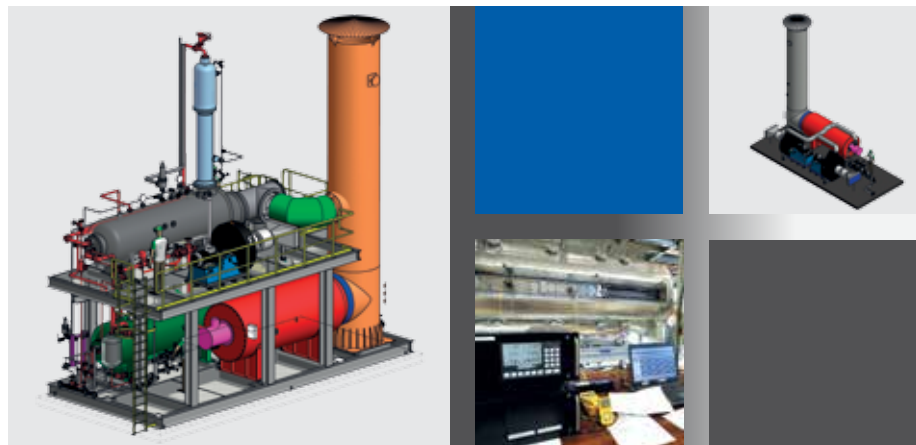
Waste gas burner

- Capable of combusting waste gases of various heating values and compositions
- Fuel gas or sparking ignition pilot
- SS310 fuel tips for maximum reliability
- Forced draft system
- Air blower can be integrated on the burner or located in a safe area depending on ATEX requirements
- Wide range of duties
- Low NOx emissions (complies with the EU regulations)
- Full automatic burner management system (BMS)

Application of the Eco-buster in Gas Dehydration Units

The Eco-buster can also be used to safely combust the overhead vapours and waste gases produced during the regeneration process of glycols. The waste gases from the still column and the flash drum are safely combusted and the heat produced is utilised in the reboiler to boil the water-glycol solution. Part of the flue gases will be transferred (through a bundle) to the reboiler by a circulating fan and the rest are vented to the atmosphere at a safe elevation through a flue-gas stack.

The Eco-buster is one of the products engineered, manufactured, delivered and installed by the Escher Combustion Systems division. Our combustion specialists are able to design and deliver the system according to specific Client needs.



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