

PREMATECNICA

Equipos e instalaciones para las industrias de proceso y energía



your specialist in
INCINERATION

Design | Supply | Service



*Natural draft
vertical incinerator*



Great attention attracts the line of business that **PREMATECNICA** offer within the combustion equipment, specially in the thermal oxidation and incineration. In these fields, we have a technologic agreement with the Belgian company **EUROPEM N.V.**, well known specialist in optimal solutions for combustion problems.

We offer the experience and know-how achieved during our 45 years of existence to any company looking for solutions in the controlled elimination of undesirable compounds, according to the most strict and recent environmental norms.

Among our services, the execution of waste combustion gases projects under "turn key" basis must be highlighted. In this type of projects our intervention starts with the basic engineering and finishes with the start up of the equipment in plant, ensuring their correct operation.

These equipment are designed according to the latest European standards in the handling of gases, even in ATEX explosive atmospheres. The installations are designed bearing in mind their nature as well as the safety (ATEX studies, Hazop, etc.)

The imminent implementation in Spain of the new European directives reduce dramatically the emission of pollutant gases. We offer a wide range of equipment of **INDUSTRIAL GASES CONTROLLED COMBUSTION**, among which are the most innovative equipment of the market.

GROUND FLARES/COMBUSTORS

Tailor-made design with/without temperature control

"HI" INCINERATORS (high intensity combustion chamber)

For contaminated gases and liquids complying with the European directives for waste incineration with combustion chambers at 850°C and residence time of 2 sec. minimum with limited values of emissions to atmosphere according to 2000/76/CE directive. Reduction of up to 25% consumption, **VERY LOW** emissions, with or without heat/energy recovery.



METALLIC FIBER BURNERS/COMBUSTORS

Pre-mix burners for low NOx for loading/unloading processes, dump gas/biogas and pipeline depressurization. HIGH EFFICIENCY (99,99%) in the removal of gases in all the operation range; reduced emissions: NOx < 15 ppm, CO and CxHy < 10 ppm; non luminous flame; WITHOUT producing odors and WITHOUT thermal radiation (burners at ground level without requiring elevated flare); low height and reduced dimensions; perfect combustion without fumes without noise; safe equipment WITHOUT flashback; possibility of burning gases with high H2 content and low calorific power; WIDE rangeability.

DeNOx SYSTEMS

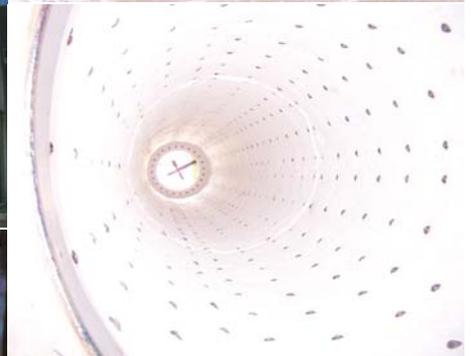
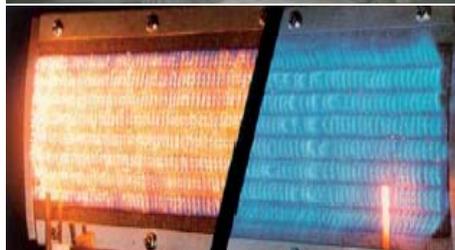
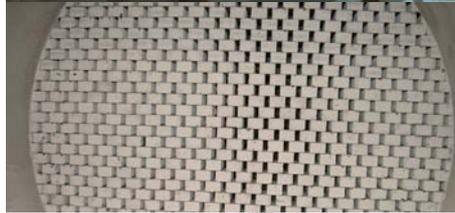
NOx reduction systems by means of catalytic (SCR) and non-catalytic reduction (SCNR) with NH3 with HIGH EFFICIENCY in the catalytic elimination (SCR), achievable elimination limits: ≤ 200 mg/Nm³ de NOx con SNCR, ≤ 70 mg/Nm³ NOx with SCR (future European limit) and HIGH capacity of heat recovery (optional).

REGENERATIVE THERMAL OXIDIZERS (RTO)

Purification of air through regenerative thermal processes with low consumption of fuel gas supply complying with Directive 1999/13/CE. Solutions where the inlet gases are at very low concentrations, 1-3 g/Nm³ HC, applications where the energy recovery (steam generation) is not necessary but the low energetic consumption is recompensed, applications where an incinerator will consume for supply combustible to equal these emissions or reduction of gas consumption.

SECONDARY AUXILIARY EQUIPMENT

Of course, all these systems have built-in instrumentation, which is also designed, installed and tested jobsite by our technicians. Together with the aforementioned systems, it is possible and profitable in many occasions to install energetic recovery equipment such as heat recovery, gas/gas heat exchangers, recovery boilers, steam generators, etc.





Synthesis gas/biomass natural draft combustor in an biomass installation

PREMATECNICA was founded in 1961 in Madrid (Spain). We started distributing, in the Spanish market, blue-chip equipment and instrumentation for the process and energy industries, starting our international expansion in 1980 with the creation of PREMATECNICA DE MEXICO. This was the beginning of a new era for our Company. Today, fully engaged in a global business policy to provide effective responses to the demands of our clients, our team of experts develops a wide variety of equipment for the environment protection, energy efficiency and safety. In addition to our headquarters and warehouse in Madrid, we also have a branch in Seville (Spain), our sister Company in Mexico and a growing number of agents spread worldwide.

Since 1961...



...with all the energy

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