NEW

HYBRID HEATING SOLUTIONS

Tecflam hybrid heating systems combine an electric hot air generator with a duct burner or an indirect heat generator, providing a flexible and efficient solution for industrial process heating.

How it works

The electric module and the direct/indirect heat generator operate in a complementary way, allowing you to:

- make the most of the available electrical power;
- select the most cost-effective heat source according to operating conditions;
- heat the combustion air, process air, or both, depending on the application;
- integrate heat recovery systems to further improve energy efficiency and reduce consumption.

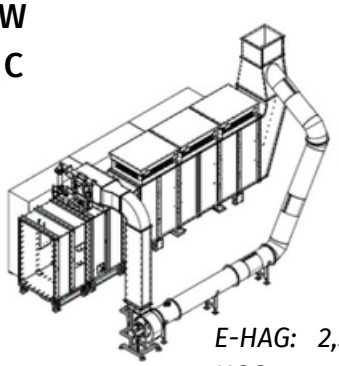
Tailored solutions

Designed to integrate seamlessly into your industrial processes, our hybrid heating solutions can be customized according to the required thermal output, fuel type, and availability of electrical power.

Key benefits

Maximum flexibility: Thermal output can be adapted to energy availability and process requirements.
Operational continuity: Increased plant reliability through the possibility of using two different energy sources.
Smart energy mix: Optimized use of electricity and fuels to achieve the best balance between performance and operating costs.
Reduced CO_2 emissions: Greater use of available electricity — including electricity from renewable sources such as wind and solar — can reduce fossil fuel consumption and associated emissions, supporting further progress towards industrial decarbonization.

Power range: 20 kW - 6.000 kW
Exit temperature: up to 850 °C



E-HAG: 2,5 MW
HGG: 3 MW

Application example

The hybrid system consists of an electric hot air generator and a gas-fired duct burner, integrated with a heat recovery unit using heat from the exhaust air. The solution is designed for installation on a fluid bed dryer.

The electric generator uses the air preheated by the heat recovery system, further increasing its temperature before supplying it to the gas burner. The gas burner then provides the additional thermal energy required to achieve the desired process conditions.



SALES@TECFLAM.IT

WWW.TECFLAM.IT