

S.C. ecoHORNET SRL

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ECOHORNET PRESENTATION

ECOHORNET Ltd. is a company specialized in manufacturing high-performance boilers and heating equipments using pellets made from any kind of biomass, for residential and industrial applications and tailor made solutions for neutralization of organic wastes by high-temperature incineration and heat recovery for various applications. EcoHORNET equipment can be easily integrated in cogeneration and trigeneration systems.

EcoHORNET equipment are based on its own combustion technology, invention patented in Romania "Patent No.128229".

The new technology consists in the highly-efficient and environmentally-friendly combustion of pellets made of any kind of biomass, at incineration temperatures of over 1250°C, with minimum polluting emissions. It simultaneously integrates processes like gasification, combustion, incineration, post-combustion and optimized heat transfer.

The agroindustry of corn, sugar cane, rice, cassava, wheat, citrus, coconut, grass, coffee, generates more than hundreds of millions of tons of residues per year(in Brazil 603Mt/y). Biomass can play an important role also in the long term power and heat production.

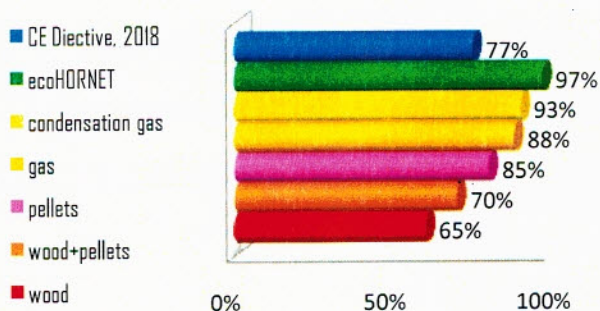
EcoHORNET equipment are designed to use pellets made of the biodegradable part of everything that the human society produces nowadays, as well as wood pellets, with superior performance compared to existing equipment on the market that uses only standard/premium wood pellets. We are experts in biomass pellet combustion.

The ecoHORNET equipment is designed to satisfy the highest demands of the third millennium in point of heat generation efficiency, minimum CO and particulate emissions and access to an inexhaustible and ecological fuel without encouraging the cutting of forests.

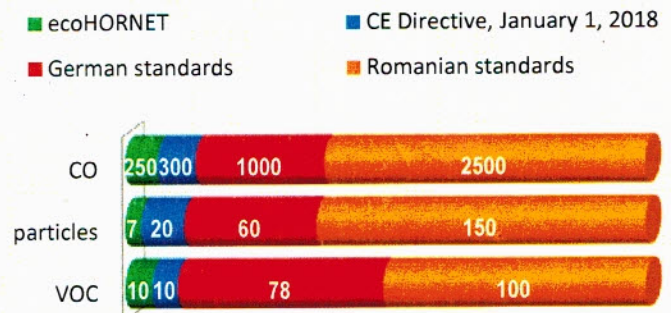
Performance:

- constant efficiency: 94-97%
- CO emission <250 mg / m³,
- VOC emissions <10 mg / Nm³,
- particulate emissions <7.4 mg / Nm³,
- nearly 100% combustion efficiency.

Equipment efficiency



Noxious emission levels

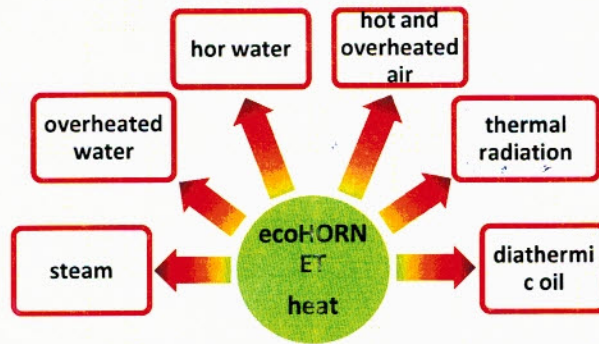


The variety of models and the wide range of heat fluxes provided by the ecoHORNET equipment cover the heat demands of the residential sector, agriculture, industry, etc.

- pellet heating units 20-500 kW;
- injector-type pellet burners 20-600kW- replace all diesel, gas, oil injectors, which use expensive and highly-polluting fuels.
- pellet based hot air generator 20-600 kW
- pellet burners for radiant tubes 20-100 kW - The ideal solution for heating of high spaces.
- pellet based steam generators

and many other solutions for heating that are highly efficient and with a very low environmental impact.

The company develops optimized energy conversion and heat transfer processes suitable for the use of various heating medium types.



The agriculture and food industry can benefit from using the ecoHORNET equipment: greenhouses, dryers and dehumidifiers, chicken and pig farms, forage producers, bread bakeries, dairies, fruit and vegetable preserves, meat processing, wineries, dry mushroom and fruit producers, etc. Energy consumption is a key factor in agriculture and food industry and ecoHORNET provides many benefits: at least 50% heating bill savings, reduction of waste disposal costs, using byproducts and waste for their energy value, eliminating the costs related to purchasing diesel, gas or electricity.

Most factories need to carefully control their operating costs. In addition to that, some industries need thermal energy for their technological processes that involve steam generators, furnaces, etc. And these costs are usually high and unstable if fossil fuels or electricity are used.

The implementation of ecoHORNET equipment in industry is an efficient, profitable and financeable investment.

With ecoHORNET, the agriculture, food industry, factories, hospitality industry and other big energy consumers will find comprehensive solutions that fully focus on their needs: heating with heating medium, hot or overheat air, diathermic oil, generation of overheated water, steam generation, etc.

The ecoHORNET technology is a product developed on a socially-responsible basis, so that none of the operations involving this technology is harmful to people or the environment. It is an affordable product that provides access to inexpensive and environmentally-friendly energy. It was developed considering the current resources, requirements and needs of the society.

For more information, please contact us:

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