

ECO burner is a boiler for civil use, industrial application, agricultural processes and local heating grid.

natural gas fed (diesel, LPG, methane, mains gas).

ECO burner may be used:



FOR CIVIL AND COMMUNITY USE (local heating grid, hotels, condominiums and buildings)



IN THE AGRICULTURAL AND BREEDING SECTORS (greenhouses and drying devices)



IN THE INDUSTRIAL SECTORS

(heating of plants and buildings, drying devices used at sawmills, production processes for which heated water or heated temperature are required)

HOW ECO burner WORKS:

ECO burner uses the gasification process: a kind of gas "extraction" from wooden-based biomass.

During ECO burner functioning process, biomass reaches a temperature up to roughly 900/1,000° centigrade thus transforming the wooden chips into syngas which generates thermal energy while it burns.

The ECO burner operating system is fully automatic: it is managed through a touch panel on board where the customer can set the working condictions, regulating the temperature process, the primary, secondary and exhaust gases circulation or locking, and other parameters.

ECO burner can generate more of 100 kW of thermal power.



















OAK

CANE RESIDUE

ALMOND

HAZELNUT

GRAPEVINE

TOBACCO

FORESTRY

APRICOTS









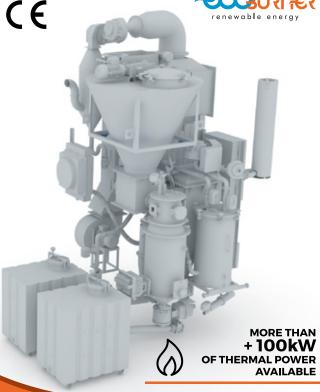




TECHNICAL SPECIFICATIONS

This system is characterized by:

- very high efficiency (up to 85% -95%, depending on the use of heat);
- very low impact exhaust emissions;
- easy maintenance.



ECO burner APPLICATION FIELDS

Energy potential of **ECO burner** makes the system especially suitable for heating solution in small buildings, agricultural companies and other applications.

ECO burner can be used:

- to replace traditional boilers conventional fuels fed (diesel, LPG, methane, mains gas) with this innovative system maintaining the same thermal power, however, just using vegetable waste. It allows a costs decreasing of the raw materials, in addition to advantages for the environment due to its use.
- in combination with burners conventional gas/diesel fuels fed.



Cluster installation available: multiple installation for more thermal power (200 kWp, 300kWp...).

HOW ECO burner CAN BE POWERED

ECO burner can be powered by a wide range of materials: from the processing waste of wooden industry to the wooden scraps of forests, from pruning to agricultural residuals.

BIOMASS FEATURES		
Size	1,50 - 3,00 cm (G10-G30) including briquettes	
Moisture	15% - 25%	
continuous tested biomass	24h	
CE - Conformity	Sì	
Variery of biomass materials being tested	Forest, grapevine and trimming wastes, coconut, nut, hazelnut, chestnut and almond shells, olive kernels, apricot and peach pits, tobacco and corn stalks, cane chips	

TAX RELIEF

The **ECO burner** is a latest generation gasification boiler and it is in compliance with the required EU regarding thermal power production and environmental respect to be eligible for tax refundings or breaks.

TECHNICAL FEATURES (€			
Available continuous power	100 kW thermal power - 24 kCal/s		
Sound level (silenced gen set)	67dB(A) a 7 m		
Max Continuous Operation	24 hrs.		
CE - COnformity	Available and applicable		
Consumption @100%	350 g/kWh		
Start up Time	15 - 90 min		
Dimensions and weight	Height 3.00m x length 1.80m x width 1.80m Weight 1,400kg		

ENERGY PARAMETERS					
7.500		hours per year		number of working hours of the burner	
biomass consumption [calculated in kilos]					
Maximum hourly consumption			35.0 kilos per hour		
7,500 hours per year			255,000 kilos per year		
Thermal energy production					
100 kWht		thermal energy produced each hour			
750,000	kWht per ye	ear overall amou	overall amount of thermal energy produced each year		

