Gasification

* wood combined in gasification boilers gives almost two times more heat than ordinary boilers or chimneys

* nearly zero balance of CO_2 because the amount of carbon dioxide in emissions is very close to the amount of the CO_2 gas consumed with the plants growth

* the content of the emissions from a wood gasification boiler is nearly the same as the emissions of gas boilers

* wood combustion at up to 2192°F (pyrolisys- dry wood distillation) greatly limits the amount of the harmful components of the emissions

C:\Us...
PC\A...
Internet

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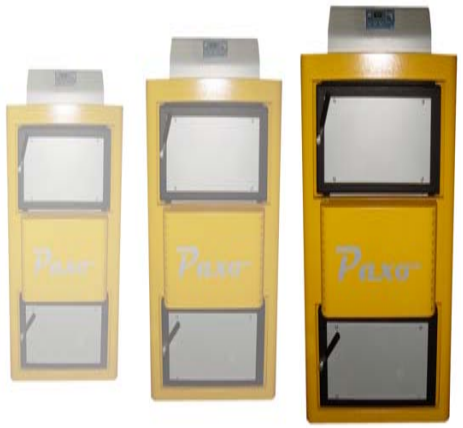
Eco-Orlan USA

Eco friendly energy solutions

Paxo



Delivering goods for our customer's satisfaction, that are both economic and nature friendly.

Eco-Orlan USA, is a distributor of wood gasification boilers and a distributor of heating industry equipment.

Eco-Orlan USA's objective is to provide our customers with heating appliances of high quality that don't affect the natural environment.

Eco-Orlan USA was formed in the United States to expand the 15 years of European operation of Eco-Vimar Orlanski.

Our boilers are available in units ranging from 18 to 80 kW. Paxo boilers are produced with **high quality** equal to the quality of the largest companies in this field.

Paxo boiler is our new line boiler, in a dazzling yellow color. It's structure is similar to our Eko line Orlan boiler with a stylish smooth rounded front fan cover.

Modern wood gasification boilers utilize wood's energy at an efficiency 3 xs higher than ordinary boilers and they operate similar to gas boilers. A **Paxo** wood boiler is adapted for combustion of various sizes of wood granulation from sawdust to large pieces. Shavings, cuttings and slivers should be combusted with larger pieces of wood.

Paxo boiler advantages:

- efficiency: up to 91%
- low usage costs
- easy service
- low ash quantity
- time between loadings: up to 12 hours of continuous combustion
- energy range from 18 to 80 kW
- power modulation from 30 to 100%
- adapted for work in closed systems
- electronic regulator with room temperature sensor
- nature friendly
- made of the best quality steel

Boiler body – the boiler casing is made of welded metal sheets that are 6 mm thick, whereas the remaining walls are 4 mm thick. All boiler nozzles are made of steel tubes.

Heat exchanger – the smoke tubes are heat exchangers, which are made of 22.4 x 1.5 inches boiler tube.

Insulation, exterior casing – the boiler is insulated with 20 mm insulation material covered with 0.8 mm varnished sheet steel.

Nozzle – a ceramic element made of refractory concrete (working temperature 3272°F).

Chimney flap - made of high quality steel.

Fan - equipped with electrical drive, the fan is placed at the front of the boiler. The fan casing is made of 0.8 mm steel plate.

Control panel - placed at the top of the boiler's cover. It's fixed to the boiler's cover with ejected clips.

Chimney flue - is made of 4 mm steel pipe.

Ash pit – the steel chamber's bottom holds the ceramic ash pit (working temperature 3272°F), additionally there is a layer of reinforced concrete, which protects against high temperature.

Boiler's door - made of high quality steel, insulated and protected with refractory concrete.

1. Chimney flue
2. Heat exchanger cleaning cover
3. Chimney flap
4. Hot water exit **5.** Thermometer- sensor
6. Safe guard thermometer- sensor
7. Control panel **8.** Upper door
9. Closing/opening door handle
10. Loading chamber (gasification)
11. Fan tap **12.** Fan **13.** Fan casing
14. Nozzle of refractory concrete
15. Secondary air adjustment
16. Combustion chamber
17. Bottom door **18.** Smoke tube heat exchanger
19. Primary air flow **20.** Flue gas exit
21. Heating water entry **22**. Drain valve
23. Secondary air flow **24.** Water grate
25. Thermal insulation **26.** Ash pit

Additionally in Paxo SUPER:

27. Thermal safety device (cooling coil)
28. Mechanical cleaning system of the smoke tube heat exchanger