

Advanced Technology: Making Your Life Warmer



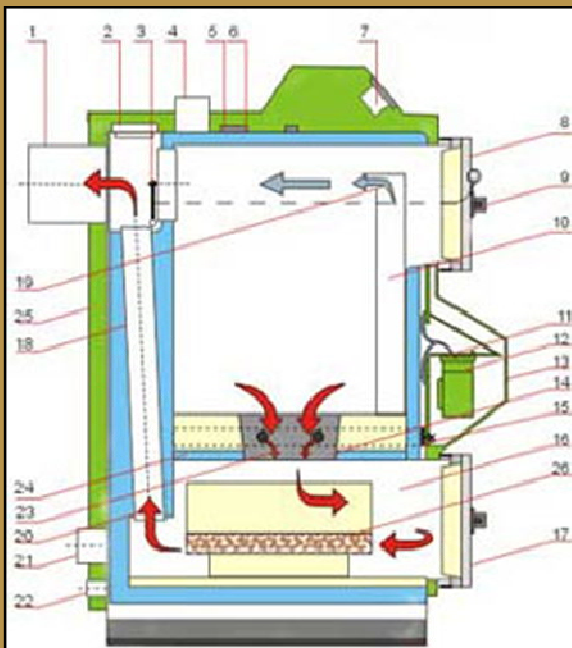
"The Bulk of the heat generated is made from the super heated gasses burning inside the lower chamber. The air / gas mixture is forcibly induced downward creating a torch effect."

Eco Heat Sales brings the economic and convenient method of wood heating into the 21st century. Utilizing [wood gasification](#), our systems achieve 40,000 to 250,000 BTUs of heat output with minimal wood consumption.

One chamber of wood fuel lasts up to 12 full hours, depending on outside temperature, and produces only ounces of easily cleanable ash.

Smoke and other emissions are cut to a very low level, making our boilers very nature friendly. Inside, wood becomes super heated to release the combustible gasses trapped inside. This process, known as gasification, is the core technology behind its highly efficient operation. The released gasses combine with secondary air injected into the lower chamber and then burn at a much higher temperature.

This has the effect of turning the wood into charcoal. Elevated temperatures release more gasses then slowly burn the wood to a fine ash, producing very little waste. The process has an amazing 87% efficiency. When the boiler reaches operating temperature, no smoke is visible emanating from the stack.



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

Economically Sensible, Environmentally Friendly, Ecologically Responsible

Eco Heat Sales

Leading the way to responsible renewable and efficient heating comfort