

RECORD HEATER AND COOKING FURNACE

Areas of Application

The device is to be used for heating residential premises and utility space having an area from 20 to 40 m² and for cooking

Specification

Fuel type: wood chips, wood and combined pellets, wood, lignite, peat, hay, straw.

The device can operate in the two modes: accelerated and long-term combustion (at least, 6 hours per one charge).

Nominal heat output, kW	2–4
Temperature of exhaust gas, °C	<200
Efficiency, %	75–80
Emissions:	
CO, mg/m ³	1300
NO _x , mg/m ³	50
Weight, kg	50



Advantages

The device keeps a desired temperature in the premise (about 20 °C with minimal fuel consumption); has the highest possible efficiency; the original design of combustion chamber and air regulation system provides nearly 95% complete fuel combustion without coke residue; environment effect: as compared with other known configurations of heaters, exhaust gas temperature is 3 times lower, NO_x and CO emissions are 4 times and 6 times less, respectively. The furnace is equipped with thermoelectric generator of original configuration, which enables to produce 12V DC electricity with an output of up to 100 W

Stage of Development.
Suggestions for Commercialization

IRL6, TRL5
Manufactured and serviced, upon request

IPR Protection

IPR3

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