

# THE PYROLYTIC STOVES



## PYRO NEMO

Exclusively by LS Stoves

Stoves with the sophisticated technology of pyrolytic high-temperature combustion. This technology secures the effective burning with minimal fuel consumption with very high efficacy and minimum of pollutants in exhausts.

The stove Pyro Nemo charms you not just for its unique and uncommon design, but for the sophisticated technology of bicameral combustion.



Front sight



Open stove



Behind sight



### ADVANTAGES OF THE FIREPLACE-STOVES PYRO NEMO

- 🔥 Pyrolytic (bicameral) combustion (two flames) system
- 🔥 Efficacy 87 % during all the burning time
- 🔥 Air-wash system – self-glass-cleaning
- 🔥 Stainless steel heat-resistant grate and nozzle
- 🔥 Stainless steel heat-resistant ash pan
- 🔥 Made of heat-resistant 5 mm thick material
- 🔥 Large loading space (long burning time)
- 🔥 Simple combustion air management
- 🔥 Possibility of extern burning air supply
- 🔥 Vermiculite burning chamber (long lifespan)
- 🔥 40 % lower fuel consumption with the same heat performance compared to stoves with classical combustion
- 🔥 Burning performed without any support of fan, just with the chimney draught (about 12 Pa)
- 🔥 40 % less ashes, compared to stoves with classical burning
- 🔥 Attractive looks of the stoves

#### Usage of the fireplace stoves PYRO NEMO:

Heating of living rooms of: Lodges, Cottages, Family houses, Flats, Restaurants and the like

**2 years warranty.**  
Designs and consultations are free  
of charge. Shipping directly to you.

THE STOVES MEET THE STRICTEST  
EUROPEAN EMISSION STANDARDS.

**WWW.LS-STOVES.COM**

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## Combustion process:

When heating the stoves up, the wood-gas arises in the upper chamber. When the chimney damper is closed, the wood-gas starts streaming from the upper chamber to the lower one through the nozzle where it is oxygenated by the preheated secondary air and combusted by a high temperature over 1000°C.

An extraordinary quality is no need of the combustion products fan for the burning process. For actual combustion suffices just a good chimney draught (about 12 Pa).

## High efficacy:

The high efficacy of the stove is secured with the high-quality combustion, as well as with the exchanging of the heat of flowing gasses from the lower chamber to the site warm-exchanging stove spaces, which are in addition equipped with double-cloak for better warmth convection. Thus the very effective transfer of the heat to its surrounding is reached.

## Gasification (pyrolysis):

The essence of gasification is in the heat decomposition of organic and inorganic matters in a closed stove chamber, with a support of the primary air brought. At first the volatile fuel components get dried. In next phase are the released gasses mixed in the nozzle space with the preheated secondary air and together create a burning gas mixture – it is burned and drained away through the warm-air exchanger into the chimney.



Stainless steel heat-resistant nozzle



Stainless steel heat-resistant ash pan

*Enjoy the new dimension of the fire and be carried away by the look at the outstanding flame play in two burning chambers.*

Model of the stoves Pyro Nemo	6 kW	9 kW	12 kW
Heat performance	2 - 6 kW	3 - 9 kW	5 - 12 kW
Heated space	50 - 170 m <sup>3</sup>	80 - 260 m <sup>3</sup>	110 - 300 m <sup>3</sup>
Fuel consumption	1.6 kg/h	2.5 kg/h	3 kg/h
Efficiency	> 80 %	> 80 %	> 80 %
Combustion products temperature	196°C	200°C	205°C
Smoke flue diameter	150 mm	150 mm	150 mm
Chimney draught	12 Pa	12 Pa	12 Pa
Maximal wood log length	285 mm	370 mm	450 mm
Height	1035 mm	1156 mm	1156 mm
Width	527 mm	556 mm	556 mm
Depth	480 mm	591 mm	650 mm
Weight	140 kg	178 kg	205 kg

In addition the stoves meet the strictest emission limits and thus save the environment with guarantee of possible using in the future.



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