



**KOSTRZEWA®**  
Experts in heating

established in 1978

## Mini Bio Luxury

### Ceramics are everywhere

To further reduce fuel consumption, make emissivity lower and efficiency even higher, we have lined the device and burner with the highest quality ceramics.

models [ kW ]

10 20



ecoburning

Mini Bio Luxury Boilers meet the requirements of PN - EN 303-5:2012 standard



Applikation iOS



Applikation Android



INTERNET module



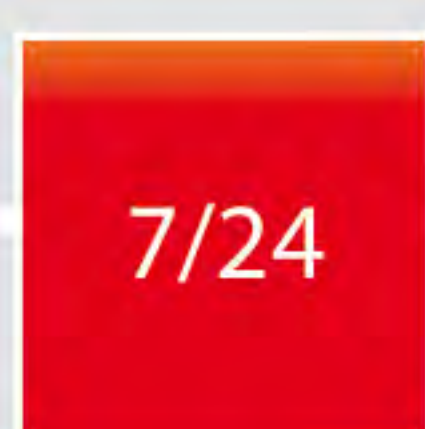
pellets



pellets / oats  
50 / 50



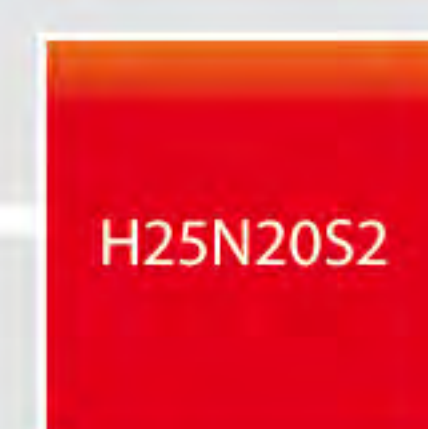
automatic



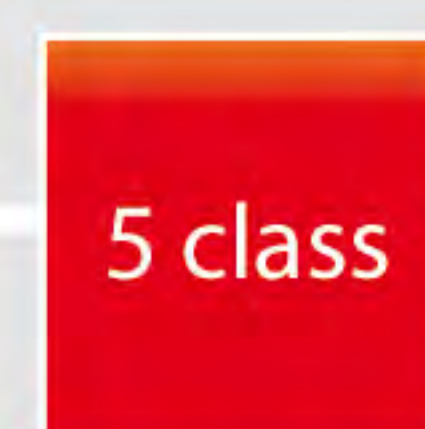
factory  
service



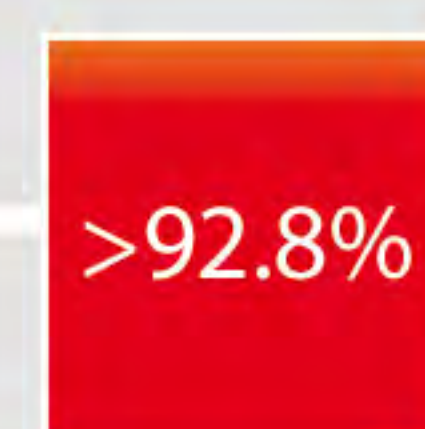
boiler steel



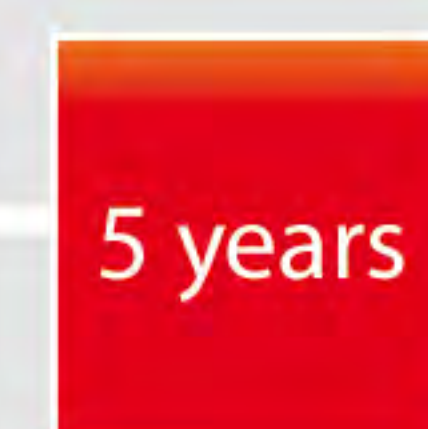
heat-resistant  
steel



boiler class



efficiency



5 year warranty  
+ 2 years extension  
(optional)



GSM  
module

## Boiler description

Mini Bio Luxury is an ungrabled version of the successful smallest Mini Bio model.

Exquisite pleasure of operation, as well as low use of fuel resources were the requirements that the Kostrzewa's engineers faced during their construction work on modern heating systems, creating Luxury class, which is characterised by even more efficiency and innovativeness.

It is an optimal device to install in residential buildings where boiler rooms take up very little space or they are absent. The areas of heated residential buildings may range between 50 and 300 sqm.

Mini Bio Luxury is equipped with built-in ceramic chamber in the exchanger and burner of boiler, that heats up to over 1000 °C during operation, resulting in a very efficient biomass combustion.

Built-in exhaust gas turbulators result in even more retention of energy in the boiler.

Additionally, distribution board to facilitate connection of additional devices present in a boiler room, temp. control that regulates 4 heating circuits and broadband 2nd generation lambda probe have been provided as a standard equipment for Mini Bio Luxury model.



- 1 Tank cover.
- 2 Fuel tank
- 3 Flexible pipe supplying fuel
- 4 Hearth door
- 5 Platinum Bio burner  
the device is almost self-operated, operation control has been maximally simplified to ensure the highest operation comfort possible.
- 6 Round steel boiler exchanger
- 7 Flue
- 8 Cleaning hatch of the exchanger
- 9 Exhaust gas turbulator
- 10 Ceramic chamber
- 11 Platinum Bio Slim controller
- 12 Broadband lambda probe<sup>1</sup>

1. Lambda probe saves up to 20% fuel

# Mini Bio Luxury

- delivery to your home or to the construction site
- guarantee and post-guarantee service
- 5-year warranty with the option to prolong it for 2 years
- network of authorized service staff
- distribution network for devices and spare parts



## Automatic burner power modulation

based on Fuzzy Logic second generation technology – reducing the amount of combusted fuel to 20%, and reducing electricity consumption



## Platinum Bio burner

Energy-efficient engine of the whole system  
Mechanically and technically advanced element responsible for production of thermal energy from pellet. Durable, energy-efficient, reliable, quiet – made of heat-resistant and acid-resistant steel allows continuous and reliable operation for many years.



## Platinum Bio Slim 2nd generation Fuzzy Logic automatics

**Super comfort** – control over the whole system. Automatics designed to control the majority of devices in your boiler room. Thus the combustion process is fully automatic, while the fuel consumption and harmful emission to atmosphere were reduced to minimum. Operation parameters of the device might be controlled through simple and clear menu.

- **Ecology** – CO<sub>2</sub> emission = 0
- **Cost-efficiency** – 2nd generation Fuzzy Logic and broadband lambda probe<sup>2</sup>
- The whole system of boiler room control is based on **soft steering** depending on the energy requirement in respective storeys of building or hot tap water requirement. The device works with more or less power. Precisely and automatically it doses the air amount needed for combustion, saving up to 40% fuel.
- **Economy** – Platinum Bio Burner<sup>3</sup> – energy-efficient engine of the whole system.
- **Innovativeness** – the exchanger construction according to 3T definition. Thanks to application of 3T method (time, turbulator, temperature) at the design stage we received the exchanger with very small dimensions and high efficiency.
- **Multi-functionality** – the device is able to control several heating circuits, solar system and buffer tank – option.
- **Safety** – MAP sensor – option
- **Comfort** – the device is fully automated - it lights up and puts itself out automatically

1. 2 generation Fuzzy Logic method saves up to 20% fuel
2. lambda probe saves up to 20% fuel
3. Burner may be assembled to every new or used boiler fired by solid, liquid or gas fuel without interfering in the construction of the device. The assembly is done by means of an adapter, which is made available upon the order from KOSTRZEWA sp.j.
4. The option must be considered when ordering boiler - recommended pellet/oats mix to be kept in 50/50 proportion

Detailed technical data of the device are available from the manufacturer or distributor.  
The manufacturer reserves the right to construction changes of the boiler, which improve the device functioning.  
Selection of power to the device was made for 4th climate zone of Poland (max. temperature: 24 °C).

TYPE	MB 10	MB 20
building area [ m <sup>2</sup> ]	50 - 200	100 - 300
nominal power [ kW ]	10	20
depth [ mm ] (with burner)	780 (1060)	865 (1140)
width [ mm ]	650	752
height [ mm ]	1700	1670
fuel tank capacity [ L ]	230	240
stack diameter [ mm ]	135	160
weight [ kg ]	230	300

The device is created for pellet and oats combustion. Biomass combustion does not cause the emission of harmful gases to atmosphere, as opposed to combustion of coal or oil. By selecting renewable fuel every one may contribute to the fight against climate changes. The device is made of high quality materials and additionally covered by 5-year warranty, which lowers the cost of operation and increases confidence in new technology.

**2 generation Fuzzy Logic adjustment method reduces the amount of fuel combusted to 20% as well as reduces wear of subassemblies, as compared with burners made by competition.**

The main advantage of the burner is its simple operation based on pouring fuel into the main tank and pressing START. In a few minutes the device will automatically light up and it will tend to keep constant temperature in rooms and constant temperature of hot tap water. Fuel tank is made of galvanised sheet – zinc coating limits the corrosion of fuel tank. If you want to combust wood – it is enough to set the wood option and burner will automatically switch off. Fan will start operation.

- Automatic burner start
- flame control by means of a photocell
- low heat inertia during start and stop
- low electricity consumption
- possibility to control up to 16 heating circuits (heaters and floor heating or hot tap water) - option
- control of the burner's working temperature – ensures security on the highest level.
- 3 phases of fuel lighting up eliminate gas explosions during lighting up
- AUTOSTART function after blackouts – remembering last settings
- air division into primary and secondary - reduces CO<sub>2</sub> emission to the level of emission from gas and oil burners
- auto-cleaning function, automatically removes deposit from burner grid - function is not present in gravitational burners
- oats - burner construction enables corn (oats) combustion - option<sup>4</sup>
- You don't have to remember the date of the next service inspection – the message will show up on a display (option).
- Statistics – the function allows, for instance, the review of minimum, maximum and average power of a burner, minimum and maximum, as well as average fuel consumption
- Temperature parameters are presented as digits and graphs on a big graphic display, and many more useful functions - (option).
- cooperation with GSM module and INTERNET module.

Distributor:



**KOSTRZEWA**<sup>®</sup>  
Experts in biomass heating



**BGI Ltd**  
Bio Global Industries

## Mini Bio Luxury Boiler-pellet

10 kW integrated 230 litre pellet store

20 kW integrated 240 litre pellet store

