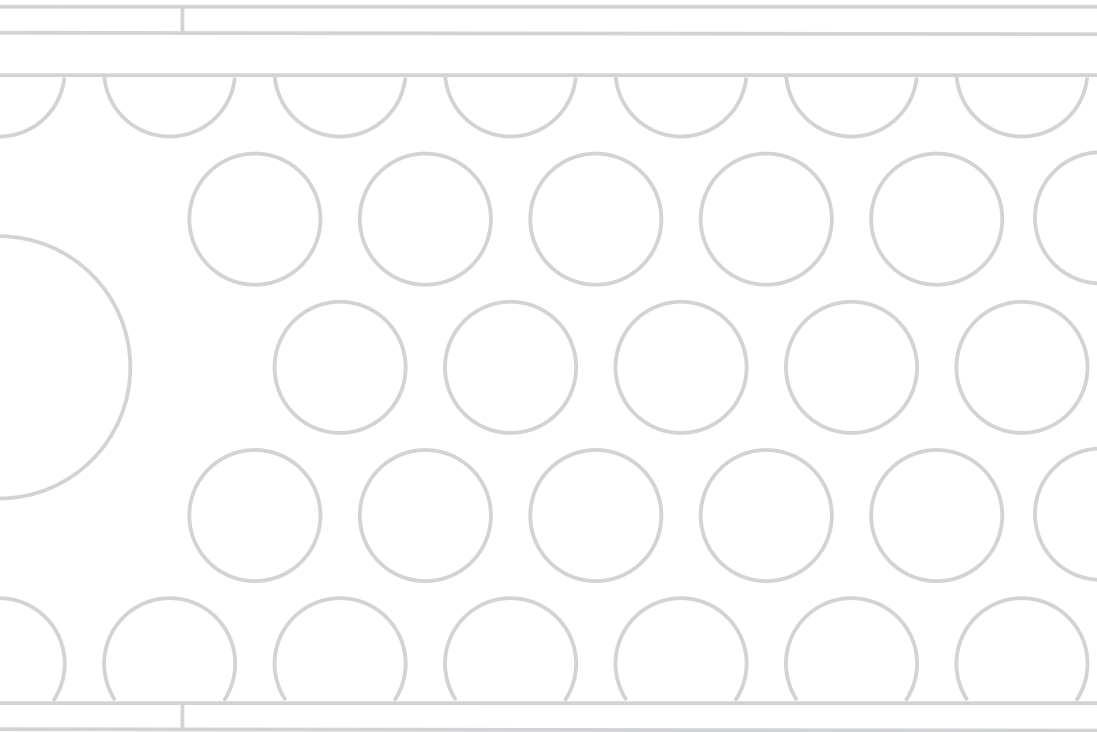


*Bionova*

by Nova Vizantija



Box Burner L - Automatic  
INSTALLATION AND OPERATION GUIDE

Before operating Bionova burner please read and follow instructions



The BIONOVA Box Burner L – Automatic bioethanol fireplace burner is designed and produced according to new DIN 4734-1 standard.

***Dangerous goods***

Bioethanol fuel is classified as a flammable liquid Class 3, PG II and is regulated by various standards. Please follow regulations in order to legally and safely store, handle and use that sort of fuel. Please inform yourself about regulations in your country.

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NOVA VIZANTIJA is safety conscious company. We have taken a great care in designing, manufacturing and assembling your BIONOVA burner to be sure that it operates safely, efficiently and visually effectively.

To insure that you can enjoy our product for a long time, in comfort, please operate the product with care and follow these instructions:

1. Before using BIONOVA burner please read manual carefully. This is the way to use the product safely and efficiently.  
Not following instructions could result in property damage, injury or even death.
2. Keep children away from operating burner or handling it.
3. Please use only specified fuel – bioethanol. Do not attempt to use any other flammable fluids (as gasoline for example). BIONOVA Burner is specifically designed for use with bioethanol and use of any other fuel would be extremely dangerous.
4. Approval from building authorities may be required. Please contact appropriate authorities before installing BIONOVA burner.
5. Possession of fire extinguisher - AMMONIUM PHOSPHATE AB:E type, or appropriate for extinguishing burning ethanol vapors is required.
6. It is a great security asset and it could be tied with insurance issues to install smoke alarm.
7. Pebbles or other decorative items should not be placed on the burner top in a way that they detaining normal operation and handling.  
If using decorative items, please be sure that they do not:
  - Interfere with sliding mechanism
  - Emit carbon monoxide
  - Fall into opening of the burner in any time

*Please honor following warnings:*

1. Risk of explosion:
  - a) NEVER use any other fuel then specified for use with bioethanol fireplaces ;
  - b) NEVER fill the fuel when burner operating or still hot ;
  - c) NEVER fill the fuel in burner reservoir in areas where flammable vapors or gas may be present ;
  - d) NEVER store or transport the fuel in other than metal or plastic container which is:
    - Acceptable for use with specific fuel
    - Fuel is in the original container
2. Never store fuel in the living space where the fire is situated ;
3. Keep children, pets, clothing, and furniture away. Temperature of the burner surface can be very high – may cause serious burns ;
4. Never put flammable objects on the burner. Burner surface becomes intensively hot during burning and stays hot after burning for a long time.
5. Indoor pollution – BIONOVA burner have to be used in well ventilated areas – product of bioethanol vapor burning is carbon dioxide (can be dangerous in high saturations). Persons with breathing problems should consult physician before installing BIONOVA burner.
6. Do not use BIONOVA burner as a cooking appliance or throw any sort of waste materials or paper in burner opening.
7. It is recommended that BIONOVA burner should be fixed into a position to avoid displacement ;
8. Do not try to disassemble BIONOVA burner ;
9. Do not try to attach any other fuel tank to BIONOVA burner;
10. BIONOVA burner should be used only with authorized accessories and equipment ;
11. Do not, in any case, obstruct sliding mechanism for closing/opening ;

12. Do not try to start BIONOVA burner if you suspect fault or any damage to the housing or mechanism of the burner.
13. The NOVA VIZANTIJA Company does not accept any responsibility for any damage or injury which accrues if the BIONOVA burner is used for purposes other than intended; is used incorrectly or repaired by unqualified persons or has been changed or altered in any way.
14. BIONOVA burner is not intended to be a sole continues heating source and to be used longer than 8 hours per session. To avoid heat expansion and potential spilling please ensure that the burner is allowed to cool down completely on a regular basis.
15. Using more than one Burner in the same space or a room or with other appliances that are burning bioethanol please consult with the manufacturer of the appliances.
16. Minimum safe distance to combustibile materials should be 2m.

**Please store these warnings in a safe place for future reference**

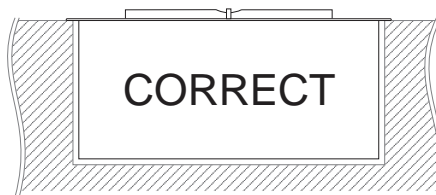
*The BIONOVA burner is supplied with following standard equipment:*

1. BIONOVA Box Burner L Automatic - 1pc.
2. Installation and operation guide - 1pc.
3. Electronic control unit - 1pc.
4. Remote controle - 1pc.

*Please find following installation instructions:*

BIONOVA burner is primarily intended for indoor use. For outdoor use please contact manufacturer or sales personal for specific terms of services. There are many different variations available for installing BIONOVA burner but in every case BIONOVA burner must:

- Be installed in non-combustible material only (stainless steel, concrete, brick, stone) ;
- Insure that burner is positioned on the edges of the upper plate – this is the only correct way of positioning.



- Avoid positioning a burner in the area of the room (space) with cross ventilation or a strong air flow – this could result in irregular burning and fire hazard.
- Plate on which burner is positioned must be rigid enough to withstand load of at least 10 Kg.
- Do not install burner near any gas connections or pipe lines. If do, please make it safe by a professional prior to burner installation ;
- Be installed in fixed, leveled and secure position before filling, lighting and operating ;
- Be installed in position that limits relocation – it is not suitable for frequent relocation ;
- Be installed in leveled platform ;

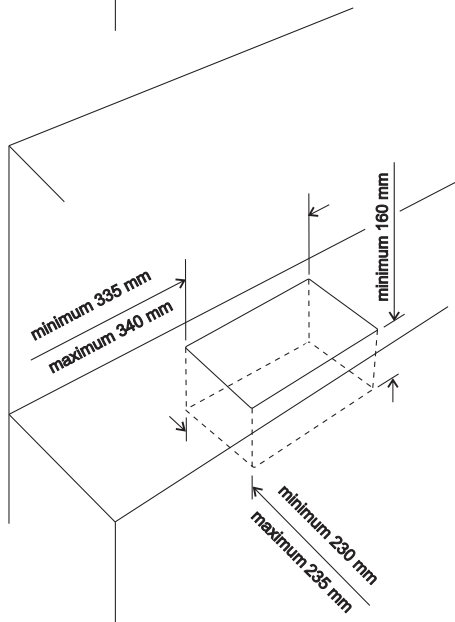
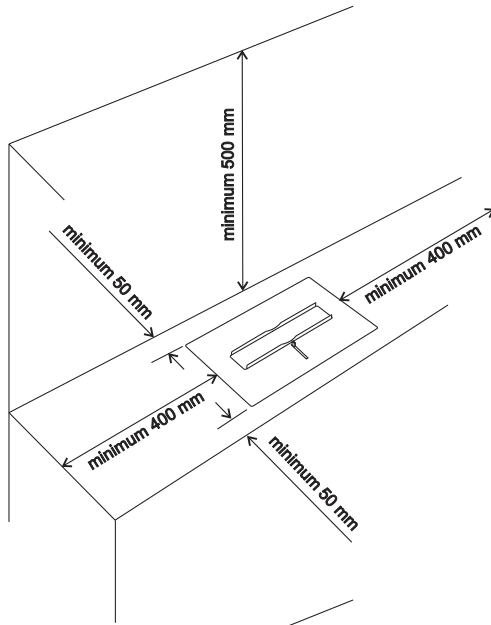


- Do not install directly beside wallpaper or laminate or any other non-fire proof surface or material ;
- Be installed into a setting that has square back – corners can influence aerodynamics and cause flame to behave irregularly.

As a general guide we recommending:

- Any furniture, items or fittings placed directly above or beside BIONOVA burner should be suitable for heat tolerance ;
- Heat reflective panels (ideally stainless steel) should be installed as surrounding and top to assist heat distribution ;
- Glass or mirrored surfaces near BIONOVA burner must be toughened.
- Closed volumes in the proximity of the burner must be kept ventilated.

*Please find required installation dimensions:*

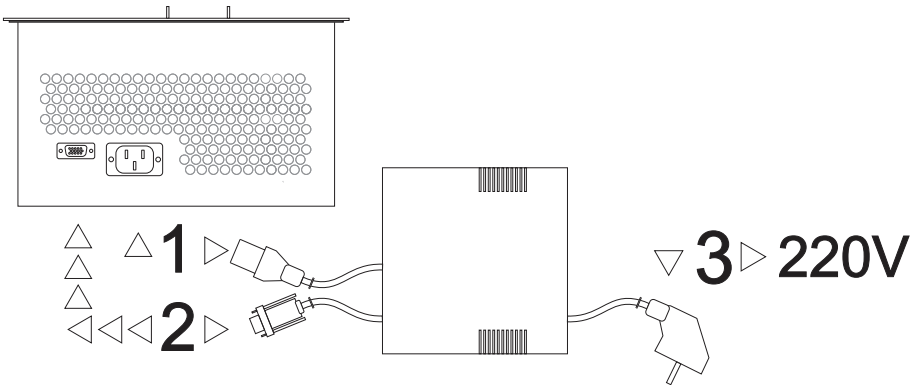


*Connecting:*

BIONOVA BBL Automatic burner must be connected to the 220V grounded power supply.

How to connect:

1. Connect cables (1) and (2) from electronic driver unit to burner terminals (1) and (2)
2. Connect power cable (3) from electronic driver unit to the grounded power supply (220V).
3. Place the burner and test the functionally.

*Ventilation:*

When proper fuel is used BIONOVA burner do not need any permanent fixture or fitting, chimney, gas line, or any utility or supply.

Products of burning bioethanol vapors are CO<sub>2</sub>, water steam and heat.

Optimum room volume per a burner is 70m<sup>3</sup>. If used in smaller spaces, please leave the door of the adjacent rooms or corridor open, or a window slightly open.

Minimum room volume	Air exchange (1/h)	Explanation
350m <sup>3</sup>	0.2	Air exchange due to leakage in the building
140m <sup>3</sup>	0.5	Normal air exchange rate in the leak proof buildings
70m <sup>3</sup>	1	Complete air exchange in installation room during one hour

Air exchange *(n/h)	Comments
0 – 0.5	Windows/doors closed
0.3-1.5	Window slightly open-no shutters
0.5-1	Window open

*\* n/h refers to ratio of air circulation in the room – example 0.5/h means that half of the air in the room is replaced every hour*

### *Efficiency:*

BIONOVA burner is efficient since all the heat stays in the room rather than be wasted to residual emissions.

You may turn burner on and off at any time or control flame output.

### *Volume – Burning time:*

One full tank will burn up to 6 hours \*. By using flame output regulation you may significantly increase burning time. You may turn burner on and off at any time.

*\* The efficiency data has approximate value depending on the model purchased, weather conditions, installation point and bioethanol used*

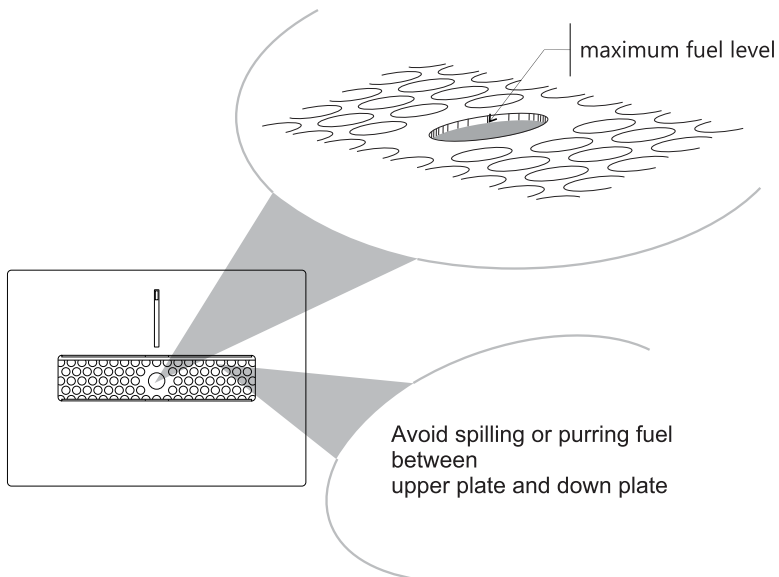
*It is important to follow the procedure described to ensure that you are operating and using BIONOVA burner safely:*

Only fuel to be used in BIONOVA burner is bioethanol fuel – no other fuel is allowed. Recommended fuel : NOVAFUEL.

All actions with managing bioethanol should be performed in well-ventilated area and to be sure that all spillage is easily contained and away from any ignition source.

*Volume:*

In the center of the burner (inside of perforated area) is a tube. When you see fuel at the top of the tube the tank is full – 2.95 liters of fuel.



Also, you will be able to see level of fuel inside of the tube when the tank is not full, and to have approximate insight to what level the tank is filled - what is the level of the fuel.

*Filling the burner:*

Before filling the burner with bioethanol fuel please insure following:

1. That the burner is standing in leveled position fixed from moving and properly installed ;
2. That the burner is not hot from previous use ;
3. That the burner and the sliding mechanism are free from obstacles of any kind ;
4. Keep your hands and face away from the burner at all times during filling or igniting.
5. At all times pure the fuel on the perforated area of the burner moving from one side of the opening to another – avoid spilling or purring fuel between upper plate and down plate.
6. If spilling occurs please wipe it dry before any attempt to ignite a burner.
7. You may use appropriate funnel to avoid spilling.

BIONOVA burner is filled through perforated area inside the burner opening.

Open slider to maximum position (push button (A) on remote control) – this will show the perforated area. Fill the burner with bioethanol fuel, slowly, not causing spillage, moving from side to side of the burner opening.

You can fill the tank with any desired amount of fuel (recommended minimal amount is 0,7l), but be careful for the level in center tube – you will see fuel on top of it when tank is full.

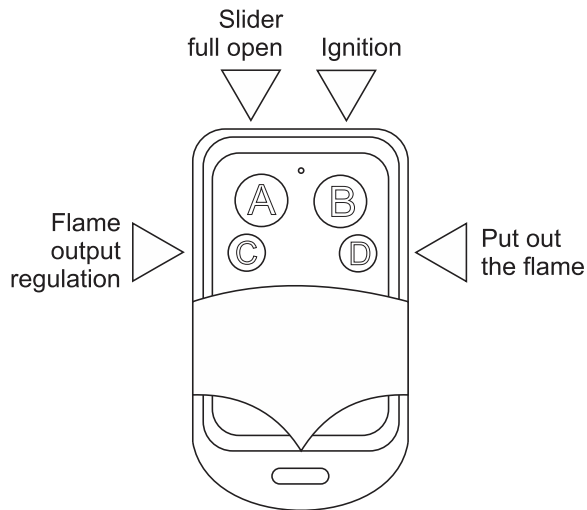
Do not, in any case, put more fuel then maximum level, when fuel is at the top of tube in the center of the burner.

### Igniting BIONOVA burner:

Keep your hands and face away from BIONOVA burner at all-time especially when igniting.

Before igniting, make sure that the burner is clear and ready for use.

1. Put slider in full open position, to have enough ventilation for ignition, by pressing push button (A) on a remote control.
2. From safe distance, (at least 1m) press push button (B) on a remote control and hold for few seconds. If ignition is not achieved please press and hold push button (B) again for few seconds. Do not hold push button (B) for more than 10 seconds continuously.
3. When strong and stable flames are achieved (approximately 1-2 minutes from the moment of ignition) press push button (C) for flame output regulation.
4. You may stop burning process by pressing push button (D) and put out the flame.



*Turing BIONOVA burner off and restarting:*

1. If fuel in the burner tank is not entirely used up it can be used again. In order to supply more fuel, please wait until burner cools down to room temperature and then, only then, it is safe to fill burner tank ;
2. When all fuel is used up, there is no need to clean anything, just wait for the burner to cool down, then refill and restart.

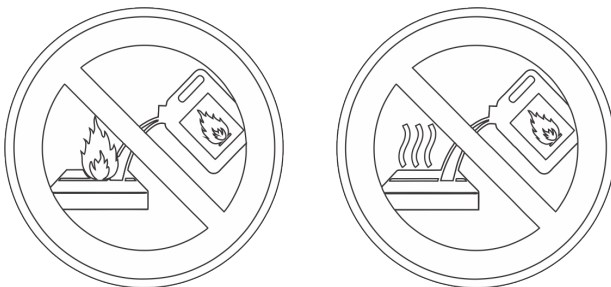
*Note: When you see that the flame is small and reduced – in the perforated area you can see flame only from the tube (which is used to show fuel level) that means that fuel level is at absolute minimum.*

*Reigniting BIONOVA burner:*

1. Check if the burner is on room temperature. It takes from 15-30 min. to cool down depending on how long it has been used before ;
2. Pressing push button (A) on a remote control to open the slider in full open position ;
3. Allow for any residual fumes to evaporate. It takes few moments ;
4. If needed refill the fuel and reignite by pressing button (B) on a remote control

### **DO NOT REFILL:**

1. **When burner is operating or hot from previous use ;**





*Maintenance:*

Should be performed when BIONOVA burner is off, completely empty of fuel, dry and at a room temperature.

The surface of the burner will change color on very hot spots over time. This is normal "hot stainless steel" ageing process.

2. Use a vacuum cleaner after approximately 50 liters of burned fuel to clean inside of the burner opening ;
3. Use a mild detergent to clean burner surface. If the surface is highly stained, apply mild polishing aperient.
4. Do not let the detergent or polishing aperient to get into a burner opening especially perforated part since it can cause even more staining and smell during next use.
5. After cleaning, all surfaces should be without any residue and completely dry.

*Warranty terms:*

1. Your BIONOVA burner is covered by 2 years warranty from moment of purchase.
2. Please note - in order to warranty be applied, instructions for installing, use and maintenance must be followed.
3. Do not try to fix burner by yourself or by unprofessional service and persons – we do not except responsibility for operating the burner in these cases.

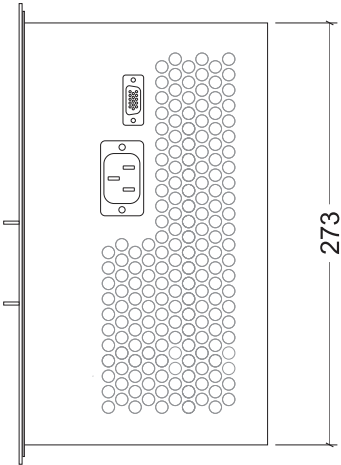
This warranty certificate along with the invoice or receipt must be presented when making any claim.

MODEL No.	
SERIAL No.	
PURCHASER	
DISTRIBUTOR	Distributor stamp here
DATE OF PURCHASE	

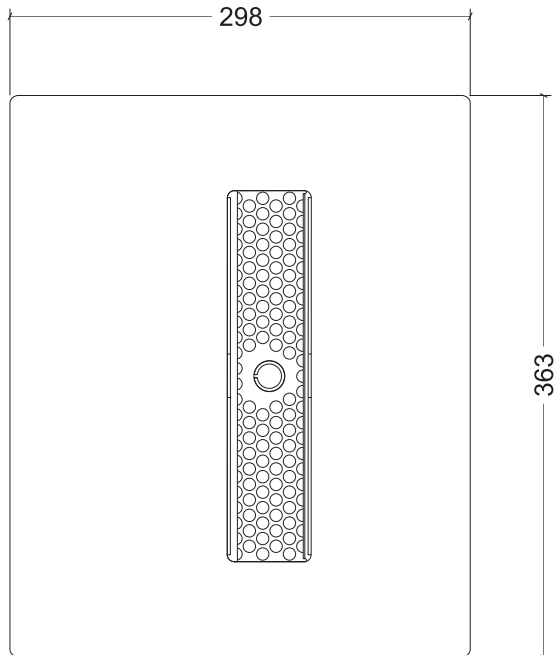
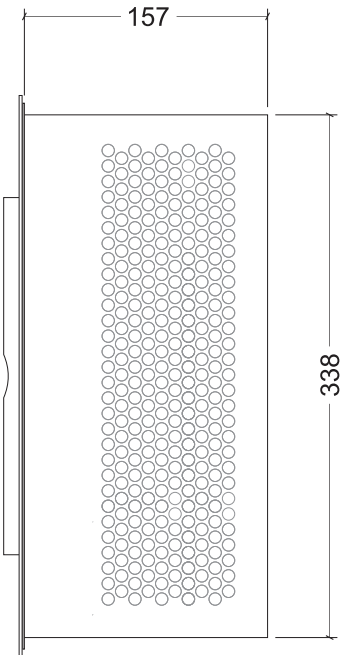
*By signing I, upper mentioned purchaser, declare that:*

- *I understand and will follow the terms of use presented in **INSTALLATION AND OPERETAIN GUIDE** and taking the full responsibility for using the product within it.*
- *Understand the terms of warranty.*

Purchaser signature: .....



<i>Main material:</i>	Stainless Steel ( 1.4301)
<i>Evaporator:</i>	Ceramic fibers
<i>Tank Size:</i>	2,95 l
<i>Weight :</i>	6 kg
<i>Thermal output :</i>	Up to 3 Kw *
<i>Req. room volume:</i>	70m <sup>3</sup>
<i>Burning Time:</i>	Continuously Up to 6 h *



\* The efficiency data has approximate value depending on the model purchased, weather conditions, installation point and bioethanol used.

### *EECT – Evaporated Ethanol Combustion Technology*

BIONOVA fireplace burners bringing to you unique technology of ethanol combustion - EECT.

Our burner's combusting only ethanol vapors distributed from ceramic evaporator (no loose fuel) trough burning pit calibrated grill providing precise and odorless process of burning.





