

INSTRUCTION MANUAL

for installation and operation of pellet stove

VITTORIA B*20



VICTORIA
STATE OF THE ART

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1. Introduction.

We congratulate you on the excellent choice!



Do not leave this instruction manual unread. Installation and operation of a pellet stove associated with various legal obligations, which are explained in this instruction manual. According to the laws and regulations for safe use of appliances of this class, the purchaser and user of the pellet stove undertake using this instruction manual to inform themselves for the assembling and the right operation of the appliance.

This instruction manual is provided to assist you and the team that will install, put into operation and service pellet stove. Technicians, who will carry out the above activities to the pellet stove, must be trained and competent.

Pellet stove operated only by adult persons familiar with the instruction manual. Pellet stove is not intended for use by persons with limited physical, sensory or mental abilities or lack of experience and knowledge, unless they are instructed and supervised in the use of the appliance by a person responsible for their safety.

Pellet stove is manufactured and tested in accordance with standards EN 14785, EN 60335-1, EN 60335-2-102, EN 55014-1, EN 61000-6-1, EN 61000-6-3 and meets the approved technical documentation.

Failure to follow the instructions described in this manual can lead to damage and consequences for which the manufacturer is not responsible.

2. Safety Information.

- Pellet stove must not run without water in the system and the pressure must not fall below 1 bar. If the system is used without water, the pellet stove can be damaged.
- Pellet stove is designed to heat water through automated burn in the combustion chamber of wood pellets with a diameter of \varnothing 6 mm, class A1.
- Warranty is voided by unauthorized use of combustible material.
- The risk that could arise from non-compliance of this instructions manual is a direct contact with electric parts (internal), contact with fire or hot surfaces.
- Pellet stove is equipped with safety components that guarantee automatically lock in case of failure of any of its components. Safety components are activated without outside interference.
- Necessary for the proper operating of the pellet stove is its proper installation in accordance with the following instructions.
- Fire door should not be opened during operation of the pellet stove. The burning process is automated and does not require external intervention.
- It is not allowed to burn the pellet stove if there are cracks in the glass.
- Under no circumstances should not be allowed penetration of foreign substances in the firebox or hopper.
- Do not use combustible materials to clean soot in the chimney.
- Turn off the pellet stove from the grid-circuit before cleaning or servicing.
- Use a vacuum cleaner to clean the combustion chamber and pellet fuel hopper only when pellet stove is cold.
- Do not use water to clean the internal parts of the pellet stove.
- **ATTENTION!** During operation, the pellet stove must not be touched by a child as its surface is hot. Danger of burns!
- The handle of the pellet stove warms as much as the front panel, so it must be operated with a heat-resistant glove.
- During operation of the pellet stove flue pipes and fire door are hot.
- Before the first ignition, remove the color label for energy efficiency from the glass of the pellet stove.
- Do not place flammable objects and liquids near the pellet stove.
- **NEVER** use flammable liquids to burn the pellet stove.
- Do not obstruct fresh air to enter the room where pellet stove is installed and through the holes on the pellet stove.
- Do not soak pellet stove and do not touch electrical components with wet hands.
- Do not mount any adapters to flue pipes and chimney.
- To operate properly and safely, pellet stove should be installed in a room that is fire-resistant and equipped with everything needed (electricity, air exchange, vents).
- The temperature of the room where it is installed the pellet stove must not be lower than 0°C.
- Use appropriate non-freezing additives for water in the system.
- Make sure the temperature of the return water is not lower than 45°C.
- Rating label is placed on the back of the pellet stove.
- Keep this instruction manual, warranty card and purchase invoice in good condition, as will be necessary in any inquiries.



In extinction, do not burn the pellet stove again before cleaning the combustion chamber!

Removed pellets from the combustion chamber should not be placed back in the pellet fuel hopper!

3. Technical data and dimensions.

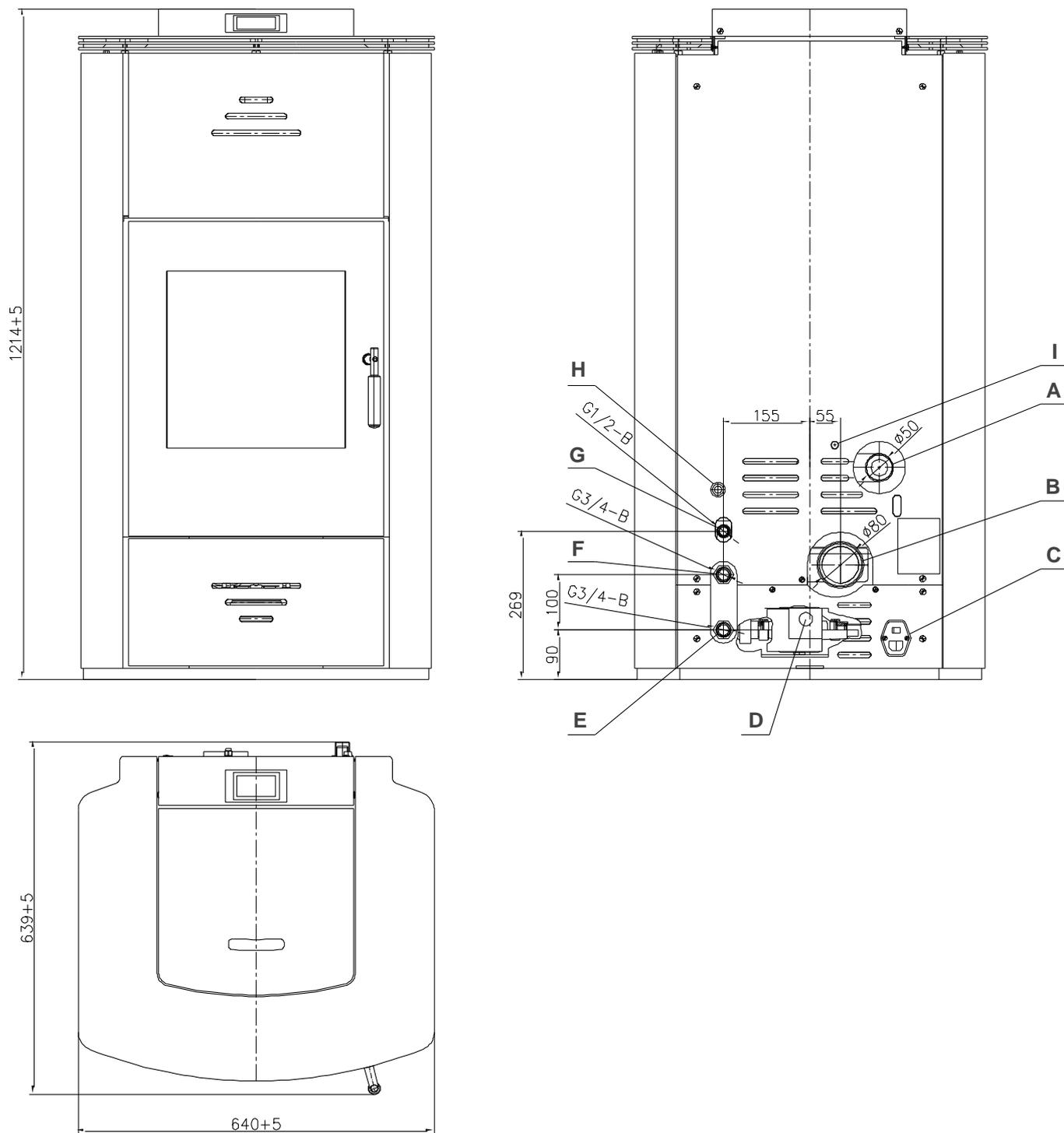


Fig.1.

A - Air inlet \varnothing 50 mm

B - Flue socket \varnothing 80 mm

C - Main switch with integrated socket for power cable

D - Circulation pump

E - Cold water inlet $G \frac{3}{4}$ "

F - Hot water outlet $G \frac{3}{4}$ "

G - Outlet pipe $G \frac{1}{2}$ " for safety valve (3 bar)

H - Button with safety cover to reset the thermostat

I - Room temperature sensor (room thermostat)

Technical data and performance

Technical data	Performance
Nominal heat output	19.58 kW
Space heating output	4.24 kW
Water heating output	15.34 kW
Reduced heat output	6.75 kW
Operating water pressure	1.5 bar
Test water pressure at installation	3.0 bar
Maximum operating temperature	85 °C
Distance to adjacent combustible materials	side = 400 mm rear = 400 mm in front = 800 mm
Efficiency	94.33 %
CO emissions [13% O ₂]	
at nominal heat output	0.0126 %
at reduced heat output	0.0294 %
Flue gases temperature	
at nominal heat output	101.5 °C
at reduced heat output	62 °C
Flue gases mass	
at nominal heat output	10.5 gr/s
at reduced heat output	5.18 gr/s
Draught	
at nominal heat output	12 Pa
at reduced heat output	11 Pa
Duration of combustion	
at nominal heat output	5 h
at reduced heat output	17 h
Fuel consumption minimum / maximum	1,5 / 4,4 kg/h
Type and dimensions of fuel	Wood pellets, Ø 6 mm/length 25 mm / class A1
Integral boiler capacity	22 l
Expansion vessel capacity	8 l
Cold and hot water inlets dimensions	3/4"
Pellet fuel hopper capacity	26 kg
Flue socket diameter	Ø 80 mm
Heating volume	≈ 470 m ³
Net weight	268 kg

The dimensions of the heated room are calculated based on pellets calorific value not less than 4300 ccal/kg and heat loss of heated room 33 ccal/m³h. Consideration must be given the capacity of the radiators in the system and the availability of external devices that can influence the operation of the pellet stove.



All activities for repairing of electrical components, maintenance and / or inspections should be performed by qualified personnel. Unplug the appliance from the main electrical supply before you start these activities.

Electrical data:	Performance:
Power supply	230 Vac (+/-10%), 50 Hz
Switch on / off	Yes
Average power consumption	156 W
Average power consumption during ignition	375 W
Remote control / frequency remote control	Frequency 2.4 GHz / infrared
Main power protection	Fuse 4A, 250 VAC5 x 20
Control unit	Fuse 4A, 250 VAC5 x 20



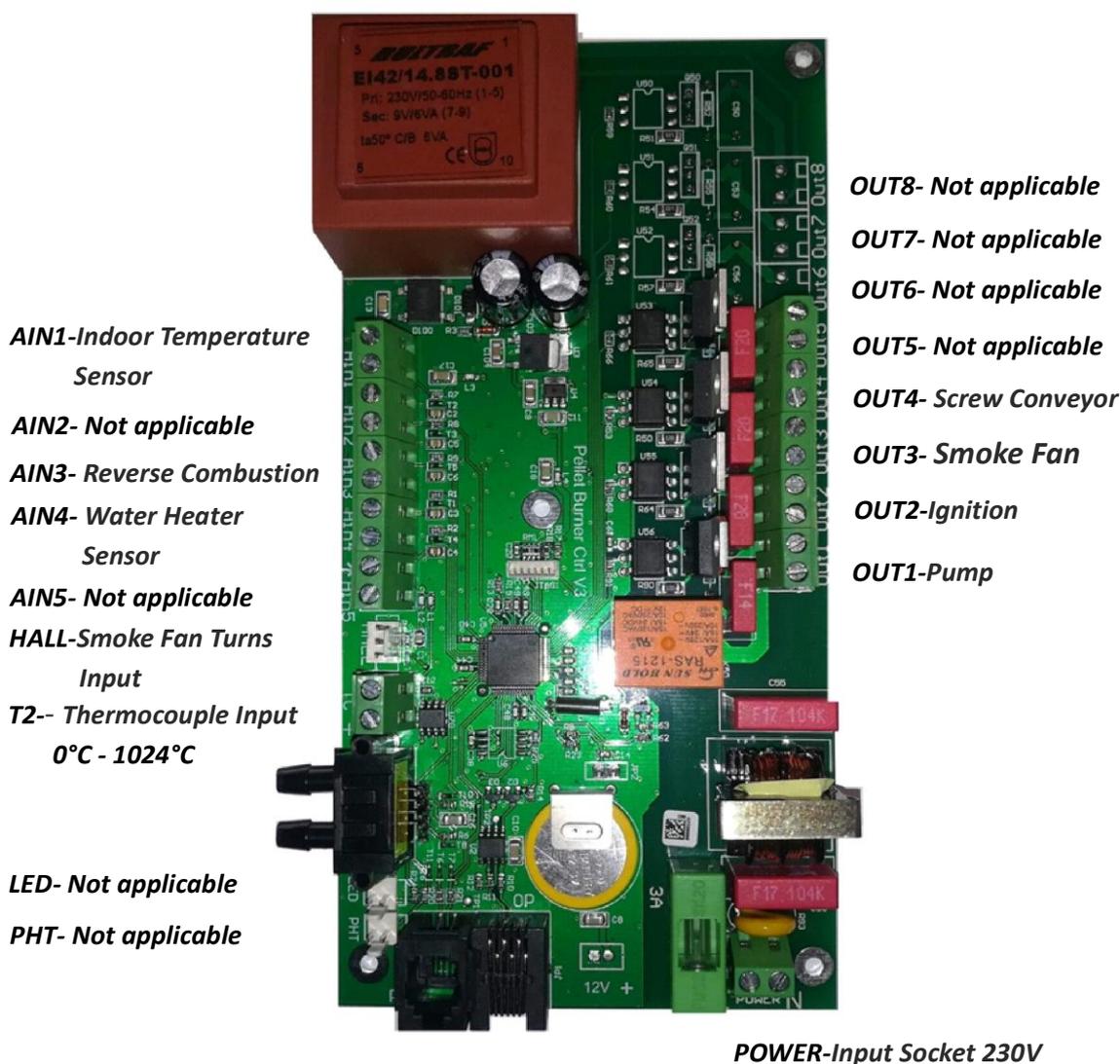
We reserve the right to make changes to the products without prior notice, in order to improve their performance.

4. Safety devices.

<p>Fume thermocouple: It is placed on the top part of the integral boiler to measure the temperature of the flue gases. It controls ignition. At a very high temperature (500°C) an alarm „High Temp” appears on the display.</p>
<p>Pressostat: two outlets placed at the air outlet and connected to the control unit. In case of disruption of the rarefaction in the combustion chamber, a „Pressostat” alarm appears on the display.</p>
<p>Thermostat: To prevent overheating of the system, with manual reset. Measure the temperature of the water into the integral boiler. When it reaches a value of 90°C, it interrupts power to the gear motor of the auger. If the thermostat has been activated, it must be reset manually by pressing the switch on the back of the pellet stove (see Fig.1, position H).</p>
<p>Thermostat of the pellet fuel hopper: Placed on the auger housing near the pellet fuel hopper. It interrupts feeding of the pellets, if its temperature reaches 85°C.</p>
<p>Temperature sensor: Measure the temperature of the water into the integral boiler and sends information to the control system.</p>
<p>Hydraulic safety valve: Upon reaching a pressure of 3.0 bar, the system is activated to emit liquid. After discontinuation of the emergency, the system must be added to the required pressure (1.5 bar).</p>
<p>Fuse: At the main switch of the pellet stove has built two fuses, one of whom is working and the other is a spare.</p>

5. Control system.

The control system is capable to monitor and control the combustion process. The system provides higher heat efficiency, optimizes the pellet consumption and minimizes the emissions level into the atmosphere. By sensors for room temperature, back burn, temperature of exhaust gasses and temperature into integral boiler, the control system reads and analyzes data from the combustion process and automatically controls it.



6. Components.

Ignition:

Performs ignition of the pellets.

Fume extractor:

Provides the flue gases from the combustion chamber to the flue pipes and combustion air intake by vacuum.

Gear motor:

Drives auger screw by means of which the pellets are conveyed from the pellet fuel hopper to the combustion chamber.

Circulation pump:

Provides forced circulation of the fluid in the heating system.

Closed expansion vessel:

Compensate for differences in the volume of liquid in the integral boiler of the pellet stove when heated. Technically competent person should assess the need for adding a second expansion vessel to the existing, depending on the total amount of liquid in the heating system.

Air vents (manual and automatic):

They are placed on the top part of pellet stove body and they allow removal of air entered when filling the heating system with liquid (Fig.3).



Do not forget to connect the heating system to the sewer.

7. Operating mode.

Pellet stove works with wood pellets. These are cylindrical granules, made of pressed wood whose combustion is controlled by an electronic control system. The heat from the combustion process is given to the liquid into the heating system.

The pellet fuel hopper, position (A) of (Fig.2), is located at the rear of the pellet stove. The hopper filling is through a hatch located on the rear part of the top plate of the pellet stove. The pellets are transported from the hopper (A) to the combustion chamber (D) by means of a screw auger (B) driven by a gear motor (C).

The initial ignition of the pellets is carried out by hot air which is sucked in around the ignition (E) in the combustion chamber (D) through the fume extractor (F). Fume extractor (F) provides combustion air by sucking in from air inlet \varnothing 50 mm position (A) in (Fig.1) by the room or by outside atmosphere. Upon submission of air from the room must have provided an influx of outside air.

The flue gases are sucked from the combustion chamber through the fume extractor (F) and are conducted to flue socket \varnothing 80 mm position (C) in (Fig.1).

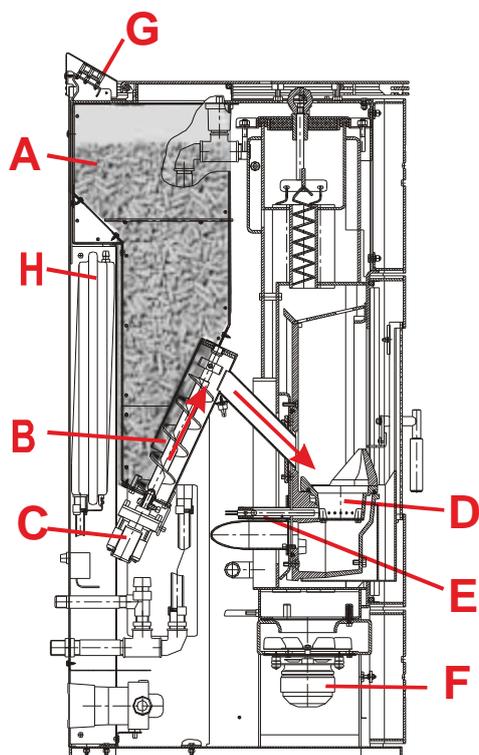


Fig.2.



Fig.2.1.



Fig.3.

The ash from the combustion process is conducted in an ashtray underneath the combustion chamber. The ashtray must be periodically cleaned by pouring in a metal container or by a vacuum cleaner, but only when the pellet stove is cold.

Through built-in circulating pump position (J) of (Fig.2.1), hot water passes from the integral boiler to the heating system. The filling and emptying of the heating system is carried out via a shut-off valve, which has to be assembled outside. The system pressure is controlled by a manometer, which has to be assembled outside.

The pellet stove is designed to operate with a built-in closed expansion vessel (H) and a pressure valve.

High efficiency and low emissions of the pellet stove is guaranteed by an electronic control system that manage the amount of the fuel, the flue gases conduction, supplying of the combustion air and operation of the circulating pump. The control panel of the control system is placed in the backside on the top panel of the pellet stove position (G) in (Fig.2). Through the control panel can visualize and manage all stages of the operation of the pellet stove.

8. Fuel.

Pellet stove is designed and programmed to burn wood pellets. They have a cylindrical shape and they are made of compressed wood by a high-pressure timber, without adhesive and additive materials. The wood pellets are sold in packages weighing 15 kg, which facilitates their storage. Better combustion, the wood pellets must be stored in dry and ventilated area. Pellet stove is designed, developed, programmed and tested to operate with wood pellets class A1, according to EN plus and BS EN ISO 17225-2: 2014 with the following parameters:

Maximum diameter:	Ø 6 mm
Maximum length:	25 mm
Maximum moisture content:	8 %
Maximum ash content:	0.5%
Minimum calorific value:	4300 ccal/kg

Good quality wood pellets ensure good combustion and low emissions into the atmosphere.

The use of wood pellets with a **lower quality** results in a need for more frequent cleaning of the combustion chamber, reducing heat output and efficiency. They are increasing the fuel consumption sensitively. Inadequate wood pellets can cause blockage of the auger and to stop the operation of the pellet stove.

IF PELLESTOVE BLOCKED, THE REASON WILL APPEAR ON THE DISPLAY AND IT WILL BE SAVED.



Using low quality wood pellets or non-manufacturer recommended above may compromise the operation of the pellet stove and lead to termination of the warranty. Pellet stove should not be used to burn other types of fuels or materials. Invalid guarantee!

9. Appliance installation.



Trained and competent technicians or companies must perform installing of the pellet stove and heating system! The manufacturer does not warrant the operation of the heating system, but for pellet stove only. Qualified technicians should perform all activities in inspection and repair of electrical components. Switch off the pellet stove from the grid-circuit before any inspection or repair!

Refer to the regulations valid for the country, where will be used the pellet stove, if you do not find the information you are interested in this instruction manual.

Not recommended installing a pellet stove in rooms where there is mounted another heater. If it does, it must be equipped with a separate air duct.

Compatibility with other devices:

Pellet stove should not be installed in the same room in which there absorbers and / or devices that reduce ventilation in the room.

Checking electrical connections:

Pellet stove is equipped with a power cable to be connected to a voltage 230V / 50Hz. Changes exceeding by 10% the voltage can damage the appliance. Grid-circuit must comply with the provisions of the laws and requirements for grounding. According to the requirements for grid-circuit connection, pellet stove should be installed so as to ensure free access to the plug and socket (230V / 50Hz). According to the safety requirements prohibited the room in which is mounted pellet stove to an electrical installation that is located on the floor. Lack of bonding / grounding can cause damage for which the manufacturer is not responsible.

Positioning:

To operate well, the pellet stove should be leveled. The floor on which is placed the pellet stove must be of non-combustible materials (concrete, terrazzo, marble, terracotta, etc.).

Given the easy servicing and refueling, we recommend the following minimum free distance around the pellet stove: 1000 mm in front, back and sides -500 mm, top -minimum 1000 mm.

Safe distances for fire safety:

When installing a pellet stove and storage of wood pellets, there must be respected with the fire requirements!

It is recommended that an appropriate place to mount a fire extinguisher.

It is forbidden to store the wood pellets directly to the pellet stove or a distance of less than 400 mm.

The optimal distance between the pellet stove and combustible materials is 1000 mm.

Inflammable objects should not be placed on the top board of the pellet stove.

If the chimney is connected to the timber wall or other inflammable material, suitable materials such as ceramic wool or similar must isolate it.

Fresh air opening:

Imperative to ensure submission of fresh air!

The room, in which is mounted pellet stove must have an opening for fresh air with a cross section of not less than 80 cm² in order to ensure a sufficient supply of oxygen necessary for combustion. Additionally, it can be delivered outside air through a steel pipe of \varnothing 50 mm. In this case, there is possibility for emergence of condensate. If necessary, the opening for external air can be protected by a grid whose light-section should not be less than 12 cm². Pipe for outside air has to be mounted on the nearest outer wall to the pellet stove. Its length should not exceed 1 m, should not have curves and its location has to prevent clogging. The outer end of the pipe must end with a knee 90°, downward or be provided with protection against wind.

Chimneys:

Pellet stove works constantly with a fume extractor and pressure in the flue pipes and chimney.

It is forbidden the flue gases to be discharged directly from the pellet stove through the wall into the atmosphere. Required is installed chimney, which takes flue gases to safe for human health altitude over the area of habitation.

It is recommended that the pellet stove can be installed as close as possible to the chimney in order to reduce the number of connecting flue pipes. Pellet stove operates at low temperature regime and it is therefore possible occurrence of condensation in the chimney, which requires more frequent inspection and cleaning.

Chimney should be used only by the pellet stove and no other appliances have to be connected to it. The flue gases are emitted from the combustion chamber of the pellet stove to the atmosphere through a flue socket \varnothing 80 mm located in the rear. It is recommended at the beginning of the vertical section of the chimney to mount a T-fitting, with a section for collecting condensate. Pellet stove must be connected to the chimney by steel flue pipes, certified according to EN 1856. The flue pipe system must be hermetically insulated with materials resistant to high temperatures (heat-resistant silicone or grease). Allowed is to have a horizontal section with a length of 2 m. Horizontal section must be with minimum slope of 3% and not more than two curves at 90°.

If the flue socket of the pellet stove is connected to a metal chimney, it must have a vertical portion length of not less than 1.5 m and fitted with a wind protection. Chimney may be located internally or externally. It should be well insulated.

If the pellet stove is connected to a masonry chimney, it must be intended for appliances for solid fuel. If the chimney has a size larger from \varnothing 150 mm in diameter, internally along its entire length must be installed tube of stainless steel with a diameter of \varnothing 150 mm as the free space has to be isolated by masonry. All parts of the chimney should have free access to inspection. At the bottom of the chimney must be built manhole allowing opening and cleaning at least once a year. On top of the chimney must be installed a wind protection hat, according to current regulations.

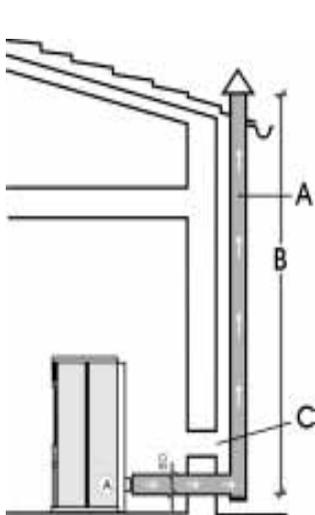


Fig.4.

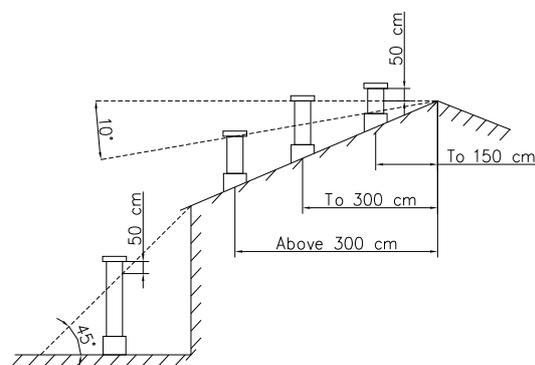
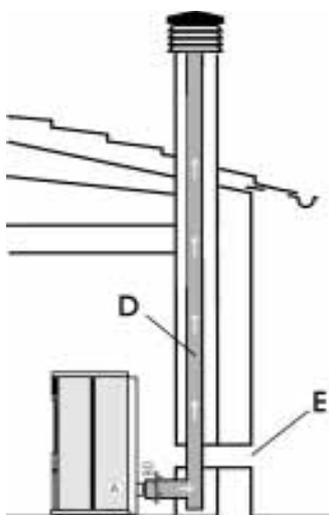


Fig.5.

A -Insulated metal chimney.

B – minimum height of the vertical section 1.5 m, as the end of the chimney has to be completed in accordance with Fig. 5

C -Incoming outside air through the section with minimum cross section of 80 cm².

E -Incoming outside air through the section with minimum cross section of 80 cm.

D -Metal pipe in masonry chimney.

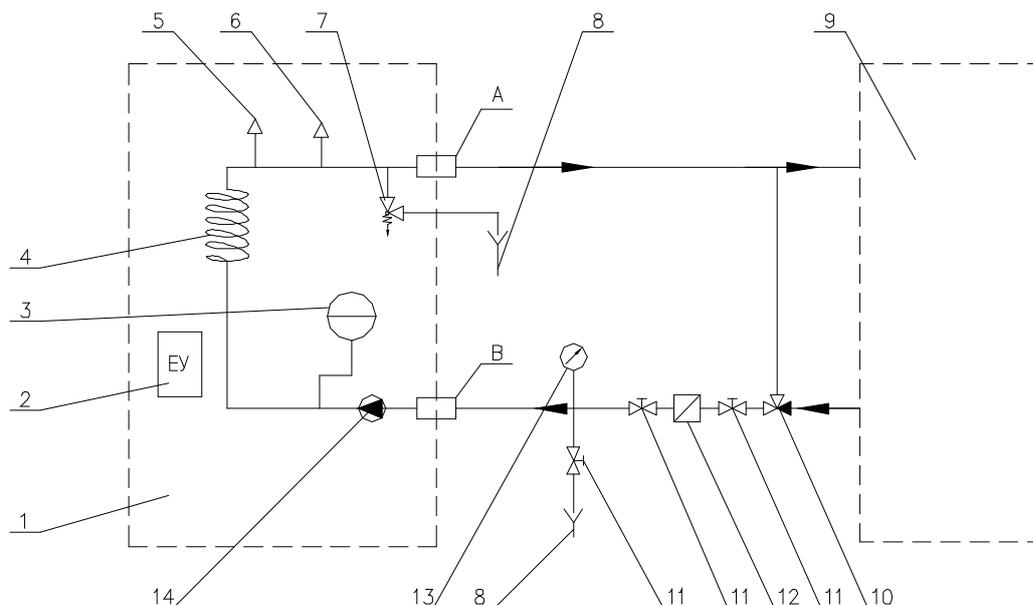
Hydraulic connections:

The integral boiler of the pellet stove has a capacity of 22 liters. This volume ensures good and smooth operation of the appliance and achieving maximum efficiency in heating.



Pellet stove MUST NEVER OPERATE without a liquid into the heating system and under pressure less than 1 bar. Failure to comply with these conditions leads to damage!

INSTALATION HYDRAULIC DIAGRAM



A. Hot water outlet

B. Cold water inlet

1. Pellet stove with integral boiler

2. Control system

3. Closed expansion vessel 1.5 bar, 8l

4. Integral boiler

5. Manual air vent

6. Automatic air vent

7. Hydraulic safety valve 3 bar

8. Channel

9. Heat consumers

10. Three-way mixing valve thermostatic

11. Stopcock

12. Filter

13. Manometer 6 bar

14. Built-in circulation pump



The installation hydraulic diagram is indicative and does not replace the documentation for the construction of the heating system made by an authorized person or company!

Trained and competent technicians must make hydraulic connections.

Allowed to be made and other inspections in accordance with applicable in that country national laws where pellet stove will be installed and used.

Practical advice:

Take appropriate decisions when making connections for supply, return and drain the fluid in the heating system, which will facilitate the removal of the pellet stove if necessary in the future;

Water treatment:

Consider adding fluids against freezing and corrosion. Use softener, if water in the system has the values of hardness higher than 19 dH.



Technician who installed the pellet stove should provide additional expansion vessel, depending on the type and capacity of system that the device will serve.



It is obligatory installation of filter for incoming water. Failure to comply with this condition leads to FAILURE WARRANTY of circulation pump!

Circulation pump

The circulation pump is with a high efficiency for water heating systems with an integrated control of differential pressure.

Control modes:

Variable differential pressure ($\Delta p-v$)

Set value of differential pressure H varies within the acceptable range of flow between $\frac{1}{2}H_s$ and H_s . Factory setting: $\Delta p-v$, $\frac{1}{2}H_{max}$.

Constant differential pressure ($\Delta p-c$)

In this mode of regulation is maintained constant set value of the differential pressure.

Venting function

The pump is vented automatically upon initial startup. If the pump is not vented automatically, select manual mode of venting "air". The process starts in a few seconds and lasts up to 10 minutes. Select the desired mode of operation of the pump after completion of venting.

10. Appliance operation.

10.1. Initial ignition.



The installer of the pellet stove should perform the initial release!

The installer is required:

- to verify that the installation is performed correctly and the expansion vessel meets in size, ensuring safe operation.
- to check the dimensions of the connecting flue pipes and chimney;
- to switch on the power of the pellet stove and make "cold" test;
- to fill up the heating system with liquid through the inlet at pressures to 1.5 bar and make sure that there are no leaks;
- to ensure that all taps between the pellet stove and heating system are open;
- to bleed the system before starting (see Fig.3);



This operation must be repeated in the first days of use, and when the system is recharged, even partially. The presence of air in the heating system can aggravate operation of the pellet stove. In order to facilitate venting, the appliance is equipped with plastic tubing that connects

to the air vent

- to set the pellet stove according to the type of wood pellets used;
- to carry out emission control of flue gases after installation;
- to make a detailed instruction of the user;

Pellet stove is coated by high temperature resistant paint, but not against corrosion. In case of accumulation of dust, surfaces can be cleaned with a soft brush or a dry cloth, but in any case with a damp cloth or water.

Before the first ignition, remove the color label for energy efficiency from the glass of the pellet stove.

Upon initial ignition not place any objects on the pellet stove and do not touch the outer surface to avoid damaging the coating. The flavor, which is obtained as a result of the drying of the paint, disappears after a few hours. Ventilate the room where is located the pellet stove.

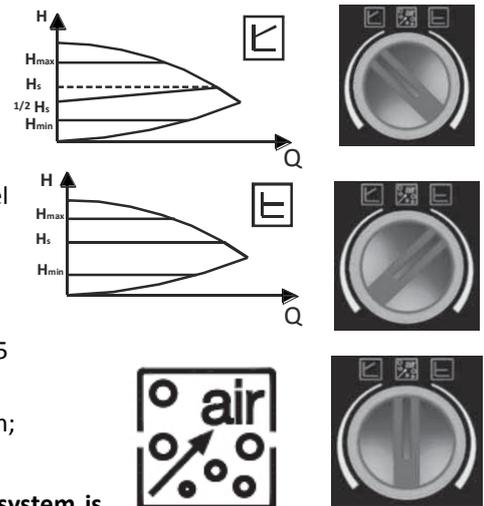
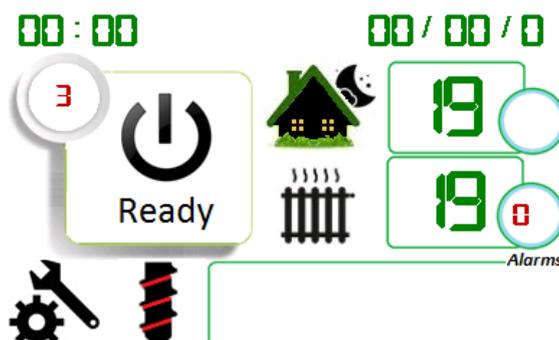
If as a result of overheating or due to incorrect operation color changes, appeared stain rust or damaged part of the coverage, you can order spray paint in the color from your dealer.



Before ignition, check: power, door seal, if the combustion chamber is cleaned and whether the display is switched to standby mode.

10.2. Control panel description.

After start up, on the control display is shown the logo of Victoria-05 for 3 seconds and then switches to main user panel. The icons and functions are shown as follows:



proper

10.2.1. Main user control panel.

To visualize every function from the display it is necessary to touch the respective icon. The blue arrow in the sub menu is for returning to the previous screen. By pressing **SAVE** all corrections are saved. The left and right arrows are for decreasing and increasing the value of the respective parameter.

Display symbol	Description
00/00/0 Date display	Day/ Month/ Year
00 : 00 Hour display	Hour : Minutes
 <p>Indoor temperature</p>	<p>The number in the rectangle denotes the current (momentary) indoor temperature. The number in the circle denotes the temperature, one has set to maintain in the room.</p> <p>We would like to maintain 25 degree in the room – how shall we set this?</p> <p>One has to touch the icon with the number of the indoor temperature. An additional page would open, where one can set the temperature, they would like to.</p> <p>Major Specific Features:</p> <ul style="list-style-type: none"> - the min. possible temperature allowed is 2°C; - the max possible temperature allowed to set is 45°C. <p>Entering the temperature is done through the Left and / or Right icons. Saving the value is done with the Button </p> <p>Pressing the button displays a green ribbon low down, which one should wait to fill up, and then it would disappear, in this case one can sure that the value has been saved correctly! Just in case, during the time of saving, access to the Back Icon is denied to prevent involuntary interruption of the save process. The latter would reappear after the process has finished.</p>
 <p>Water Heater Temperature. User Settings</p>	<p>The number in the rectangle denotes the current (momentary) temperature within the water heater. The number in the circle denotes the temperature, one has set to maintain within the water heater.</p> <p>We would like to maintain 55 degg in the water heater. How shall we set this?</p> <p>One has to touch the icon with the number of the water heater. An additional page would open, where one can set the turn-off temperature, they would like to, as well as how much it should go down with to restart once again!</p>
 <p>Manual feeding</p>	<p>Pressing the icon would start the screw conveyor for 10 seconds! When this time is over, the screw conveyor stops again and waits until a new icon click is done.</p> <p>The icon would only be visible in Ready Mode, whereas, respectively, on starting of the fireplace it will disappear!</p>
 <p>Main menu and service settings</p>	<p>When the icon is touched, a new page with the main menu is opened.</p>

10.2.2.Types of modes of the control unit.

	Ready mode
	Start
	Fuel Mode
	Ignition
	Burning
	Modulation 5

	Modulation 4
	Modulation 3
	Modulation 2
	Modulation 1
	Clean Mode
	ECO mode

10.2.3. Main menu.

Main Menu

Date/Timer Information Settings

Back User Alarms

User

Pellet correction percentage Power Limit

Air correction percentage Turn/Flow rate Turn

Internet Mode of operation Heating

Thermostat Off Languages

„Air Correction”, „Pellets Correction” parameters what is set is the percentage smoke fan power lag in operation modes and pause (rest) during the operation of the screw conveyor!

This can be set within the range of - 15% up to +15% for both parameters!

„Power Limit” parameter would be setting the level of operation of the system – Modulations 5,4..... down to 1.

„Turn/ Flow rate”.

Here one can change the operation mode of the Smoke Fan. Should one chose Turns, then the fan would transfer to Set the Power Mode. Should one chose Flow, then the Fan would transfer to Flow Supervise Mode.

„Mode of operation”.

Here Heating Mode is firmly fixed.

„Thermostat”.

The Indoor Sensor can be either switched on or off.

„Internet”.

Internet

IP : 0 - 0 - 0 - 0

ID : 0

Status : 0

Here one can check if there is an WIFI Module connected to the system.

The IP address, one should connect to, to introduce the necessary settings.

ID number of the device.

Status, displays if the WIFI Module is connected.

- 0 no module
- 1 a module is present, but is not connected
- 2 a module is connected to the router.

„Languages”

Here there is a Control Unit Language shortcut key.

The system offers four languages: English, Bulgarian, Dutch, and German.

Language setting

English

Български

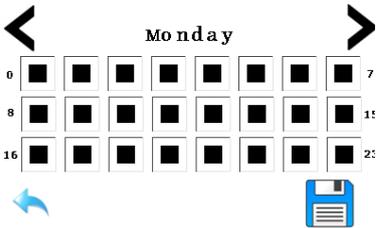
Nederlands

Deutsch

		<p>In the Information Section one can supervise the operation of the sensors, to check the operation mode, etc.</p> <ul style="list-style-type: none"> • Smoke Gases indicates the Chamber Temperature. • Water Heater indicates the Water-heater Water Temperature. • Indoor Temperature indicates the temperature in the room. • Flow indicates the pressure, measured at the air fan input. This is measured in Pa(pascals). • Fan Speed indicates the turns of the Smoke Fan. This is measured in rpm. • Fan Power indicates the power, set for the particular mode. This is measured in percentage.
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		<p>Setting date/time</p> <p>Setting time 00 : 00</p> <p>Setting the date 00 / 00 / 00</p>	<p>Date and time</p>
		<p>Weekly Timers</p> <p>Turn on the Timer OFF</p> <p>Delayed Start</p> <p>Timer/Date</p>	<p>Here one can switch among three options. The first one is “Switch the Timer ON”. If set active, the fireplace would automatically transfer to “Timer” Mode. The second one is “Delayed Start”. To set this one active, it is important that the “Switch the Timer ON” shall not be active. The delayed start is an autonomous one-time timer, which one can set a particular date and hour on, to start the fireplace. Its effect is a one-time individual one!</p>

The third option is “Hour/ Date”.



There are 24 tick-boxes for the hours from 0 to 23. There are seven days from Monday to Sunday.

Say, we’d like to set the fireplace to start on Monday at 10am and to stop at 12 noon. To then restart at 5pm and to stop at 9 pm.

How shall we do this?

The hour tickboxes from 0 to 9 should be left empty (non-ticked).

Meaning that through the hours from 00:00 to 09:00 it will not operate.

The boxes 10 and 11 should be ticked.

Meaning that through the hours from 10:00 to 12:00 it will operate.

The tickboxes from 12 to 16 should be left empty (non-ticked).

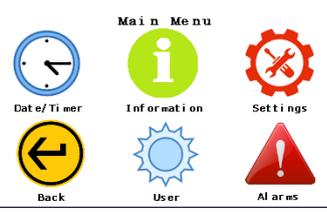
Meaning that through the hours from 12:00 to 16:00 it will not operate.

The boxes 17 to 21 should be ticked.

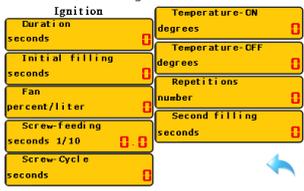
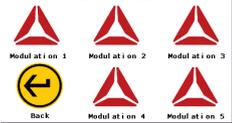
Meaning that through the hours from 17:00 to 21:00 it will operate.

The hours from 22 to 23 should be left empty (non-ticked).

Meaning that through the hours from 22:00 to 23:00 it will not operate.
The arrows would change the day of the week and can set new operation times of the boiler.

	<div style="text-align: center;">  <p>Settings</p> </div> <p>Here one can access the internal settings of the control unit. Pressing the icon displays access panel requiring entering a password. The settings have been restricted in four access levels:</p> <div style="border: 1px solid orange; padding: 5px; margin: 10px auto; width: fit-content;"> <p style="text-align: center; margin: 0;">P a s s w o r d</p> <table style="width: 100%; border-collapse: collapse; margin: 0;"> <tr> <td style="border: 1px solid gray; padding: 5px; width: 30px;">1</td> <td style="border: 1px solid gray; padding: 5px; width: 30px;">2</td> <td style="border: 1px solid gray; padding: 5px; width: 30px;">3</td> <td style="border: 1px solid gray; padding: 5px; width: 30px;">****</td> </tr> <tr> <td style="border: 1px solid gray; padding: 5px;">4</td> <td style="border: 1px solid gray; padding: 5px;">5</td> <td style="border: 1px solid gray; padding: 5px;">6</td> <td style="background-color: #2e7d32; color: white; padding: 5px;">Login</td> </tr> <tr> <td style="border: 1px solid gray; padding: 5px;">7</td> <td style="border: 1px solid gray; padding: 5px;">8</td> <td style="border: 1px solid gray; padding: 5px;">9</td> <td style="border: 1px solid gray; padding: 5px;">0</td> </tr> </table> </div> <ul style="list-style-type: none"> - The first level is Installer - The second level is Service Technician - The third level is Delete Errors with a password 7777. - The fourth password is 2468 and serves to unlock the display 	1	2	3	****	4	5	6	Login	7	8	9	0	<p>The display can be locked in two ways. The first one is to hold for more than 3 seconds the Title Page Settings Icon .</p> <p>The second one is automatically, while transitioning to Standby Mode of the Display in 10 minutes.</p> <p>In case a wrong password is entered, 'Wrong password' displays; it is allowed a new attempt.</p>
1	2	3	****											
4	5	6	Login											
7	8	9	0											

10.2.4. Installer settings.

	Types of settings for Installer (entered with installer password)		Factory settings
 <p style="text-align: center;">Settings</p> <p style="text-align: center;">Installer</p> 	<div style="text-align: center;">  <p>Ignition</p> </div> 	<p>Duration</p> <p>Initial filling</p> <p>Fan</p> <p>Screw feeding</p> <p>Screw Cycle</p> <p>Temperature/ON</p> <p>Temperature/OFF</p> <p>Repetitions</p> <p>Second filling</p>	<p>900 sec.</p> <p>70 sec.</p> <p>250 l</p> <p>2 sec.</p> <p>20 sec.</p> <p>60°C</p> <p>90°C</p> <p>2</p> <p>20 sec.</p>
	<div style="text-align: center;">  <p>Burning</p> </div> 	<p>Duration</p> <p>Fan</p> <p>Screw feeding</p> <p>Screw Cycle</p>	<p>180 sec.</p> <p>240 l</p> <p>3 sec.</p> <p>20 sec.</p>
	<div style="text-align: center;">  <p>Modulations</p> </div>  <div style="text-align: center; margin-top: 10px;">  </div>	<p>Temperature difference</p> <p>Fan / l.</p> <p>Screw feeding / sec.</p> <p>Screw Cycle / sec.</p>	 <p>0 1 2 3 4</p> <p>210 230 240 260 280</p> <p>2 3 4 5 7</p> <p>8 8 7 6 6</p>
	<div style="text-align: center;">  <p>Language setting</p> </div> 	<p>From this menu, the default language can be set: Bulgarian, English, Dutch and Deutsch.</p>	

10.2.5. Service technician settings.

Types of settings for service technician (entered with service technician password)	Parameter	Factory settings
	<p>Pump</p> <p>Temperature On Here one can set the Water Temperature, which the pump switches on at.</p> <p>Hysteresis(2°C ±10 C) This is the thermal lag at which the pump will stop operating. I.e. if it has been set ot switch on at 60°C, it will stop at 55°C, if the hysteresis is 5°C.</p>	<p>45⁰C</p> <p>3⁰C</p>
	<p>Initial purge In Initial Purge the duration of the operation of the smoke fan can be set to 100% in seconds in the Start Mode.</p> <p>Extinguished In extinct fire one can set the duration for the smoke fan to operate at 100 % in Clean Mode. This mode gets active if the contol unit transfers to switch-off and extinction of the fireplace!</p> <p>Period Here one cans et the time from 100 to 1000 seconds, in 10 seconds. This setting is about how long it will take the fireplace to launch cumulate residue clean. The time to set should be the sumtotal of the operation of the screw conveyor. This way one can calculate the amount of pellets after which there should follow a cleaning process!</p> <p>100% Fan How long an Interim Purge will last. The time is set within the range of 2 to 100 seconds, in 1 second.</p>	<p>60 sec.</p> <p>600sec.</p> <p>200 sec.</p> <p>20 sec.</p>
	<p>Restore the factory settings of the control unit.</p>	
	<p>Everything</p> <p>It sets all outputs active simultaneously</p> <ul style="list-style-type: none"> • Pump • Water Heater • Smoke Fan • Screw Conveyor • Ash Clean (Not applicable) <p> Rest of the outputs Test Transition (Not applicable).</p>	

11. Instruction manual.

11.1. Wood pellets loading.

The capacity of the pellet fuel hopper is 26 kg. The opening for charging the hopper is with dimensions 150 x 320 mm. If the hopper is left without pellets, the pellet stove will stop working and „Fire extinct“ alarm will be shown on the display.

11.2. Wood pellet refueling.

When the pellet fuel hopper is completely empty, it means that the screw auger is also empty. Before re-ignite the pellet stove, it is necessary to load it with wood pellets.

During initial igniting of the pellet stove or during igniting of the stove after the pellet hopper was empty, it is possible the startup procedure to be repeated.

It is possible that sometimes few pellets to be left in the hopper. Once a month the user has to clean the pellet hopper with vacuum cleaner in order to avoid clogging with dust and particles.

11.3. Starting up the system.

To start the Control Unit, one needs to hold the icon, showing the processes, for at least 3 seconds, which will produce a sound signal to announce the system's being started.

To stop the Control Unit, one needs to hold the icon, showing the processes, again for 3 seconds, which will transfer the device into Clean Mode  and Ready Mode .

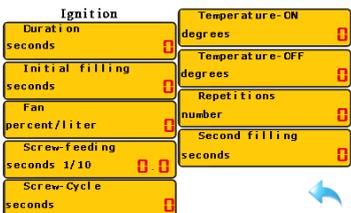
On starting the Control Unit, its first task will be to check what stage has been the fireplace on at the time of the previous stopping. If it has been in any other mode, different from Ready Mode, the Control Unit would either perform Clean and

Transition to Ready Mode, or transit to Stop Mode and Green Eco Mode . The first mode after Ready Mode is Start Mode . In this mode, what happens is the so called initial clean, which lasts 60 seconds by default. The smoke fan is set on maximum speed to clean the ashtray. If we would like, we can change the time for initial clean in the Clean Menu.



When the time is over, the device transfers to Fuel Mode . In this mode there is a countdown as well. The screw conveyor gets active and starts fueling on impulses within the following period – 2 seconds fuels/ 3 seconds rests.

The ignition (switch) is also active now.



In this mode one can regulate the operation time. Regulating it defines what quantity of pellets is released. Changing it is possible in the Ignition/ Initial Fuel Menu.

When the time is over, the device transfers to Ignition Mode . In this mode the ignition switch is still active, the screw conveyor can be set in time for fuel and rest, and will keep on operating.

Setting these parameters can be done in Ignition/ Fuel Screw Conveyor/ Screw Conveyor Menu.

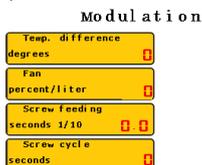
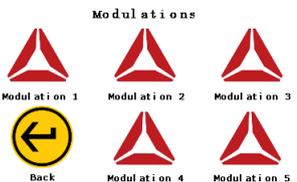
This mode is a transitory one, to transfer to the next mode the exhaust gas sensor needs to detect an increase in the temperature above the one, which has been preset, in the Ignition/ Temperature On Menu!

The increase must last at least 10 seconds and be with at least 6 degg more than the temperature at which the Control Unit has entered the Ignition Mode!

If this requirement has not been met and the preset time is over, the device would make a second attempt to fuel; its time has been preset in the Ignition/ Second Fuel Menu.



If the requirement is met, the device will transfer to Set Fire Mode . In this mode, the idea is to set the pellets on fire and get stable flame. The settings of this mode can be found in the Set Fire Menu. When the time of the Set Fire Mode is over, the device will transfer to the Modulation Mode.



The first one to start is P5, followed by P4 and in the end P1.

Switching among these is based on the temperature, preset as water heater temperature.

- if the water heater temperature is set to 50°C.
- in the Modulation 5 Menu / the Thermal Difference one should set is 4°C
- in the Modulation 4 Menu / the Thermal Difference one should set is 3°C
- in the Modulation 3 Menu / the Thermal Difference one should set is 2°C
- in the Modulation 2 Menu / the Thermal Difference one should set is 1°C
- in the Modulation 1 Menu / the Thermal Difference one should set is 0°C

Under the parameters set as above, the process will go like this:

- On reaching 46°C, which is 4°C below the preset, Modulation 4 will launch.
- On reaching 47°C, which is 3°C below the preset, Modulation 3 will launch.
- On reaching 48°C, which is 2°C below the preset, Modulation 2 will launch.
- On reaching 49°C, which is 1°C below the preset, Modulation 1 will launch.
- On reaching the preset temperature, the device will transfer to Stop Mode.
- In the Stop Mode, Clean on Extinguish Fire will launch.

On passing the time for Clean on Stop, the device would transfer to Green Eco Mode. In the Eco Mode, there are two important events to emerge.

The first one is for the Time Clock, which has been preset to 600 seconds, to run out, and only after that the water heater temperature is checked to have decreased down below the preset one; these two events having taken place, only then can the device transit again to Start, Fuel, Ignition, etc. Modes...



The Modulutions can be changed through pressing the mode display field on which modulation the device is to operate under!

Meaning, if we are on Modulation 5 on pressing the selection field, it will redirect to Modulation Change Menu.

It is important to note that this change is permanent. It is saved and on restarting the control unit and reaching the modulutions, if Modulation 2 is preset, then the device would transfer to it directly!

12. Maintenance.

Disconnect the power supply of the pellet stove before performing any activity

Vacuum the combustion chamber before each ignition. If the combustion is interrupted, do not light a pellet stove again until you have emptied and cleaned the combustion chamber.

The wood pellets, which are subtracted from the combustion chamber, should not be put back in the pellet fuel hopper!

To operate properly, the pellet stove must be regularly serviced. If you do not perform regular maintenance (thorough cleaning at least once per season), this may lead to improper operation of the pellet stove. Any problems arising from lack of cleaning lead to void the warranty.

12.1. Daily cleaning.

For better heat transfer and reduce fuel consumption, its needed daily cleaning of soot in flue channels. While pellet stove works, open the top door and by energetic movements up / down get clean the elements through the channels with the handle (Fig.6). Suffice cleaning is required once a day. In the manipulation, wear protective gloves.



Fig.6.



Fig.7.



Fig.8.



Fig.9.

Activities to be carried out during the cleaning, only when the pellet stove is cold. Clean the pellet stove with a vacuum cleaner only when it is completely cold. The procedure takes a few minutes.

- Open the lower door and throw away the ashes from the ashtray (Fig.7);
- Open the middle door and remove the combustion chamber or use the spatula to scrape off any scales that clog the holes (Fig.8);

- Vacuum the combustion chamber and all contact edges;
- Clean the glass when it is cold. If necessary, use appropriate detergent.

Never suck vacuuming hot coals, because this may damage it!

12.2. Weekly cleaning.

- Empty pellet fuel hopper and clean with a vacuum cleaner if the pellet stove was not used for an extended period.
- - Clean ignition (Fig.9).

12.3. Cleaning ash from the flue channels.

Vigorously shake the cleaning elements by the handle (Fig.6) when the pellet stove is not working and it is cold. Open the left and right manholes (Fig.10 and Fig.11) and clean with a vacuum clean the accumulating deposits.



Fig.10.



Fig.11.

The amount of soot depends on the quality of fuel used. If this cleaning procedure is not performed, pellet stove may jam. Upon completion of the cleaning, make sure that all manholes are properly closed.

12.4. Seasonal maintenance (performed by the installer).

You should contact the installer to perform seasonal maintenance.



Disconnect the power supply of the pellet stove before performing any activity

- Clean pellet stove internally and externally;
- Carefully clean the pipes of the integral boiler;
- Carefully clean and remove dirt and ashes from the combustion chamber and related divisions;
- Clean propulsion parts and electric motors. Make sure there are no gaps;
- Clean the flue channels and chamber of fume extractor;
- Clean and check the circulation pump;
- Check sensors;
- Clean, check and remove all debris from the ignition system;
- Clean and check the electronic control system;
- Check all electrical cables;
- Clean the pellet fuel hopper and check auger to loosen the screw and the gear motor;
- Check and replace the door seal;
- Make a functional test, insert a small amount of wood pellets in the hopper enough to fill auger. Light a pellet stove for 10 minutes and shutdown.

It is recommended that the chimney have to be cleaned every three months in intensive use of the pellet stove.



After performing the cleaning procedure, improper attachment of the combustion chamber can seriously harm the efficiency of pellet stove. Make sure the combustion chamber is properly assembled before starting the pellet stove

If maintenance procedures are not performed regularly, the guarantee shall be considered invalid!

12.5. Maintenance and control.

The chimney, to which is connected to the pellet stove must be cleaned once a year. Check that there is a regulatory standard for this in your country. If you do not make periodic inspection and cleaning of chimney, the probability of fire is increased many times. In such incident do the following:

- Do not extinguish with water;
- Empty the pellet fuel hopper of wood pellets;
- Contact the person who installed the pellet stove, before starting again.

13. Possible defects and their causes.

When a problem occurs, pellet stove automatically stops working and will be triggered by exclusion. The display shows the reason why pellet stove has stopped working. Error messages are described below.

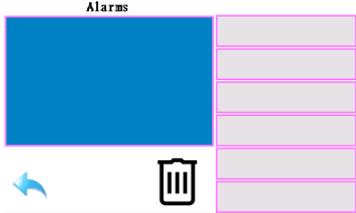


Do not unplug the pellet stove from the main electrical supply during process shutdown!

In case of failure:

- To restart the pellet stove is necessary to wait shutdown procedure is complete. The duration is 10 minutes. Accompanied with an acoustic signal;
- Do not switch on again the pellet stove before you check and, if necessary, remove the cause of the damage and before you clean the combustion chamber.

Possible reasons for blocking: indication and decision.

Alarm message			
		<p>On the right the hour and date of alarm event displays. On clicking the particular alarm on the left the alarms, occurred on the particular date and hour, are visualized.</p> <p>The password to delete the alarms is 7777. Its first enter would delete the alarms on the right, the second try would delete the alarms on the left..</p>	
Icon	Designation	Alarm	Description
	Pressure Switch		The Faulty Pressure Switch Icon is It will get active, if the pressure switch reports too low or too high level for a period of 60 seconds! On triggering of the alert, the device would switch to Blocked Mode and would wait until any human intervention fixes the problem. In Ready Mode this alert cannot be set active! When set active, this alert would produce sound signal and display the given icon.
	Exhaust gases	High temperature of the combustion chamber (above 380 ⁰ C)	To remove the alarm the temperature has to drop below this value. The stove continues to work.
	Exhaust gases	High temperature of the combustion chamber (above 420 ⁰ C)	The alarm is shown when the temperature raised above 420°C. To remove the alarm the temperature has to drop below this value. The stove goes into stop mode.
	Unsuccessful Ignition	Failed ignition	The alarm is shown if during operation of the stove, the fume outlet sensor detects lower than the set temperature. When the alarm is triggered stove shifts to cleaning and stand-by mode.
	Water Jacket Sensor	High temperature of the integral boiler	The alarm is shown when the temperature of the integral boiler reaches 90 degree.
	Water Jacket Sensor	Faulty integral boiler sensor	The alarm is shown when there is a fault in the sensor "Integral boiler"
	Interrupted Supply	Restarted controller	
	No fire	Extinguished fire	The alarm is shown if there is no fire during second ignition attempt. When the alarm is triggered stove shifts to cleaning and stand-by mode.
	Damaged Fan	Fan malfunction	The alarm is shown when the rpm sensor does not receive signal from the fan for 20 seconds.
		General Purpose Alarm	Possible reasons might be faulty either of the three sensors, indoor temperature, reverse combustion, or boiler sensor.

		Activated timer	Red color:the timer is activated and waiting for the set time to stop the stove.
		Activated timer	Green color:the timer is activated and waiting for the set time to start the stove.
	Clogged Chimney		The alarm is triggered when the fire door is opened or the chimney is clogged.
	t2 Problem		Problem with the thermo couple for the outlet gases.
	IRS Sensor		Malfunction at input Ain2.
	Boiler Sensor		Malfunction with sensors for temperature of "boiler up" and "boiler down".
	Battery Low		Low battery of the control unit.

Pressing any of the alert icons leads to redirecting to the Alert Menu, where the hours and types of the alert are listed descending.



In the Alert Menu there can be up to 6 alert events in the process of operation of the system.

14.CHECKLIST.

Location and installation:

- Ventilation of the room;
- Only the flue outlet of the pellet stove is connected to the chimney;
- Connecting flues pipes have a horizontal section with a length of maximum 2 m, minimum slope of 3%, not more than two curves at 90° and a vertical section with a length of less than 1.5 m;
- Connecting flues pipes are made of suitable material. It is recommended stainless steel;
- Heated capacity is properly calculated in accordance with the efficiency of radiators and required power in kW;
- Heating system has to be implemented in accordance with current regulations and laws.

Operation:

- Well dried and of good quality wood pellets. Diameter of \varnothing 6 mm and maximum moisture content of 8%;
- Chimney, connecting flue pipes and combustion chamber are clean;
- The cleaning elements are moved every day;
- The pipes of the integral boiler and all parts of the combustion chamber are clean;
- Flue outlet is cleaned;
- The system is vented;

15.Frequently Asked Questions.

The following answers are tentative. For more details, use the instruction manual.

What is needed to prepare and do before installing the pellet stove?

Chimney with a diameter of at least 100 mm.

Opening for fresh air with a cross section not less than 80 cm².

¾" connections for input and output to the heating system.

½" drainage connections for hydraulic safety valve.

Power supply 230V (+/- 10%), 50Hz.

Can the pellet stove be operated without water?

NO. Using pellet stove without water leads to damage.

Can the inlet and outlet of the integral boiler to be connected directly to the radiators?

NO. The connecting must be carried out in accordance with the indicated "Hydraulic Wiring Diagram".

Does the pellet stove provides hot water for sanitary purposes?

Provides opportunity by mounting a serpentine in the boiler for hot sanitary water.

Can the flue gases be removed directly out through the wall?

NO. Removal must be in accordance with existing standards. For proper operation of the pellet stove the chimney (metal or masonry) has to be completed by one of the proposed variants at Fig. 5. It must be equipped with protection from wind.

Does it need to make a hole for fresh air in the room?

Yes, to updated combustion air. Fume extractor pulls air from the room to the combustion chamber.

What settings does the control panel of pellet stove need?

Setting the desired room temperature and the temperature of the liquid into the heating system. Pellet stove will regulate their power to that temperature. The installer must make the appropriate setting.

How often should you clean the combustion chamber?

Before each ignition of the pellet stove, but only when it is turned off and cold.

After cleaning the pipes of the integral boiler.

May you clean the pellet fuel hopper with a vacuum cleaner?

Yes, at least once a month or if the pellet stove has not worked for a long time.

Can you use other types of fuel than wood pellets?

NO. Pellet stove is designed to work with wood pellets with a diameter of \varnothing 6 mm. The use of another type of fuel leads to damage.

SPARE PARTS CATALOGUE

№	Denomination	№	Denomination
1	Gear motor for auger	17	Fire-door (set)
2	Fume extractor ST25, aluminum volute \varnothing 150, encoder (set)	18	Ashtray
3	Auger (set)	19	Grill for hopper
4	Closed expansion vessel	20	Left side plate (set)
5	Ignition	21	Right side plate (set)
6	Thermostat	22	Side colored panel
7	Electronic control system (set)	23	Display box (set)
8	Control panel	24	Fume thermocouple
9	Circulation pump	25	Thermostat of the pellet fuel hopper (85°C)
10	Glass 4 x 340 x 339-0.5, R805	26	Sensor for temperature of hot water
11	Glass sealing (set)	27	Power switch with fuse
12	Combustion chamber (set)	28	Power cable
13	Fire-grate (for combustion chamber)	29	Cable for control panel
14	Deflector (top)	30	Cable for fume extractor
15	Handle (set)	31	Power cables for circulation pump, auger and thermal protections (set)
16	Glass handle		



VICTORIA

DECLARATION OF CONFORMITY

Herewith we,

VICTORIA-05 Ltd.
1B Ivan Momchilov Str.
5100 Gorna Oryahovitsa
Republic of Bulgaria

Declare at own responsibility that the product pellet stove **VICTORIA B*20** is produced in terms of established, documented and maintained FPC system and meets the requirements of:

Directives of the European Parliament and of the Council:

Directive 2004/108/EC	Electromagnetic compatibility
Directive 2006/95/EC	Low voltage equipment

Harmonized Standards:

EN 61000-6-1:2007	Electromagnetic compatibility
EN 61000-6-3:2007+A1:2011	Electromagnetic compatibility
EN 55014-1:2007	Electromagnetic compatibility
EN 60335-1:2006	Electrical safety
EN 60335-2-102:2006	Electrical safety

Test reports:

№2-19-660/17.02.2019	issued by an The Laboratory for Testing Machines, Equipment and Devices" to „Center for Testing and European Certification” , - Stara Zagora
№2a-19-660/17.02.2019	issued by an The Laboratory for Testing Machines, Equipment and Devices" to „Center for Testing and European Certification” , - Stara Zagora
№2EMC-19-660/17.02.2019	issued by an The Laboratory for Testing Machines, Equipment and Devices" to „Center for Testing and European Certification” , - Stara Zagora

01.03.2021 год.
Gorna Oryahovitsa

Manager:

(Dimitar Nenov)





DECLARATION OF PERFORMANCE

according to Regulation (EC) 305/2011

№ 4-2-1-CPR-2021

- 1.Unique identification code of the product-type: Area code 27 – roomheaters fired by wood pellet fuel (EN14785:2006)
VITTORIA B*20
- 2.Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11 (4): Serial № (see rating label on the product).
- 3.Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: Freestanding pellet stove with hot water supply and firedoors closed intended for rooms heating
- 4.Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant Article 11 (5): **Victoria-05 Ltd.**
1B Ivan Momchilov Str., 5100 Gorna Oryahovitsa
Republic of Bulgaria, email: info@v05.bg
- 5.Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12 (2): -
- 6.System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: System 3
- 7.In case of the declaration of performance concerning a construction product covered by a harmonised standard: Notification authority: **Kontrol 94 Ltd.**
2 Mladost Str., 5100 Gorna Oryahovitsa,
Republic of Bulgaria, Notified Body: NB1879
Test report: 1879-K04-2021/19.02.2021
- 8.Declared performance:

Harmonized technical specification		EN 14785:2006 и CEN/TS 15883:2009	
Essential characteristics		Performance	
Fire safety			
Reaction to fire	A1		
Distance to combustible materials	Minimum distances, in mm sides=400, rear=400, front=800		
Risk of burning fuel falling out	Pass		
Emission of combustion products CO at 13% O ₂ nominal heat output	0.0126%	158 mg/m ³	
Emission of combustion products CO at 13% O ₂ reduced heat output	0.0294%	367 mg/m ³	
Surface temperature	Pass (operating tool)		
Electrical safety	Pass		
Cleanability	Pass		
Maximum water operating pressure	1.5 bar		
Flue gas temperature at nominal heat output	T 101.5°C		
Mechanical resistance (to carry a chimney/flue)	NDP		
Heat output			
Nominal heat output	19.58 kW		
Room heating output	4.24 kW		
Water heating output	15.34 kW		
Energy efficiency at nominal heat output	η 94.33%		
Energy efficiency at reduced heat output	η 95.72%		
Emission of combustion products			
	nominal heat output	reduced heat output	
dust	13.2 mg/m ³	18.0 mg/m ³	
OGC [mg/m ³]	5.78 mg/m ³	20.58 mg/m ³	
NOx [mg/m ³]	128.28 mg/m ³	149.13 mg/m ³	

9.The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

01.03.2021
Gorna Oryahovitsa

Manager:
(Dimitar Nenov)





VICTORIA
STATE OF THE ART

fireplaces stoves fireboxes cookers pellet stoves flue pipes

PRODUCT FICHE

1. Supplier's name or trademark.	Victoria-05 Ltd. 1B Ivan Momchilov Str. 5100 Gorna Oryahovitsa Republic of Bulgaria Phone: +359 618 60282 E-mail: info@v05.bg http://www.v05.bg
2. Supplier's model identifier.	Pellet stove VITTORIA B*20
3. Energy efficiency class.	A++
4. Direct heat output	4.2 kW
5. Indirect heat output.	15.3 kW
6. Energy efficiency index.	133
7. Seasonal space heating energy efficiency.	94.3%
8. Specific precautions during assembling, installing or maintaining:	
<ul style="list-style-type: none"> • To operate properly and safely, pellet stove should be installed in a room that is fire-resistant and equipped with everything needed (electricity, air exchange, vents). • Do not obstruct fresh air to enter the room where pellet stove is installed and through the holes on the pellet stove. • The temperature of the room where it is installed the pellet stove must not be lower than 0°C. • Use appropriate non-freezing additives for water in the system. • Make sure the temperature of the return water is not lower than 45°C. • Pellet stove must not run without water in the system and the pressure must not fall below 1 bar. Should the system be alighted without water, pellet stove can be damaged. • Pellet stove is designed to heat water through automated burn in the combustion chamber of wood pellets with a diameter of Ø 6 mm. • Warranty is voided by unauthorized use of combustible material. • The risk that could arise from non-compliance of this instructions manual is a direct contact with electric parts (internal), contact with fire or hot surfaces. • Pellet stove is equipped with safety components that guarantee lock it automatically in case of failure of any of its components. Safety components are activated without outside interference. • Necessary for the proper operating of the pellet stove is its proper installation in accordance with the following instructions. <ul style="list-style-type: none"> • Fire door should not be opened during operation of the pellet stove. The burning process is automated and does not require external intervention. • Do not allow to burn the pellet stove if there are cracks in the glass. • Under no circumstances should not be allowed penetration of foreign substances in the firebox or hopper. • Do not use combustible materials to clean soot in the chimney. • Turn off the pellet stove from the grid-circuit before cleaning or servicing. • Use a vacuum cleaner to clean the combustion chamber and pellet fuel hopper only when pellet stove is cold. • Do not use water to clean the internal parts of the pellet stove. • During operation of the pellet stove must not be allowed to touch a child to its surface, as it is hot. Danger of burns! • The handle of the pellet stove warms as much as the front panel, so it must be operated with a heat-resistant glove. • During operation of the pellet stove, the flue pipes and the fire door are hot. • Do not place flammable objects and liquids away from the pellet stove. • NEVER use flammable liquids to burn the pellet stove. • Do not soak pellet stove and do not touch electrical components with wet hands. • Do not mount any adapters to flue pipes and chimney. • Rating label is placed on the back of the pellet stove. • Keep this instruction manual, warranty card and purchase invoice in good condition, as will be necessary in any inquiries. 	

WARRANTY CONDITIONS

Trained and competent persons or organizations in accordance with this instruction for installation and operation must perform installing a pellet stove and heating system. The manufacturer shall ensure proper and safe operation of the pellet stove only in accordance with these requirements!

The warranty period of the pellet stove is 24 (twenty four) months from the date of installing, but not more than thirty (30) months from the date of sale, on the condition, that they meet all requirements for proper transportation, installation, commissioning and periodic maintenance. The warranty period of the ignition is six (6) months from the date of installing. The warranty period is interrupted for the time of filing the complaint to-repair. In bringing a claim must be presented commercial invoice and warranty card in the originals. Failing that provided, the claim is not accepted as valid and the buyer pays repair.

On the territory of Bulgaria the term of the removal of the claim is up to three (3) days for settlements in which Victoria-05 Ltd. has a contract with distributors (list available at <http://www.v05.bg>) and 10 (ten) days of the remaining population. For other countries, please, contact you dealer. Any warranty repair of the pellet stove is recorded in the diary of warranty.

Warranty of the pellet stove is NOT VALID in the following cases:

- Quickly worn out components: glass, seal, fire-grate, paint, insulation materials, ceramic tiles;
- Damages caused by improper transportation, handling and storage activities, not organized by the Victoria-05 Ltd;
- Do not met the requirements for installation, putting into operation and periodic maintenance, specified in this instruction manual;
- Use of inappropriate fuel such as size, composition, moisture content and calorific value;
- Incorrect heat engineering calculations and a project for installation of pellet stove;
- An attempt to repair the damage by the buyer or other incompetent persons;
- Made changes in the design of the pellet stove;
- For damage caused by outside interference and intervention, weather conditions, electric shocks, natural disasters, fire, malfunctions in the electrical network and others that Victoria-05 Ltd bears no guilt and no control over them;

WARRANTY CARD

Condition for validity of warranty of pellet stove is the warranty card to be completed legibly, signed and stamped!

Date of production20..... Factory № Quality control (stamp)

Pellet stove is delivered in proper condition to the buyer

.....
(name and family)

town, area code, street, №.....

Dealer..... Company
(name and family) (name)

town, area code, street, №.....

Invoice № Date

BUYER:
(signature)

INSTALLER:
(signature)



Victoria-05 Ltd.

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