D.O.O. METALNA INDUSTRIJA VRANJE
Radnička br: 1

PELLET STOVE
„GRAZIA"

INSTRUCTIONS FOR USE AND MAINTENANCE OF GRAZIA

This product meets the requirements of the Ecodesign Directive in terms of efficiency and air pollution level, in order to contribute to the reduction of energy consumption and negative environmental impact.

ENG_v.1.0

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ALFA PLAM

Heating appliances (hereinafter referred to as "stove") of ALFA PLAM are constructed and their technical acceptance test was performed on the basis of safety regulations stated in the referent European Union directives.

This manual is intended for owners, installers, workers and staff responsible for stoves maintenance.

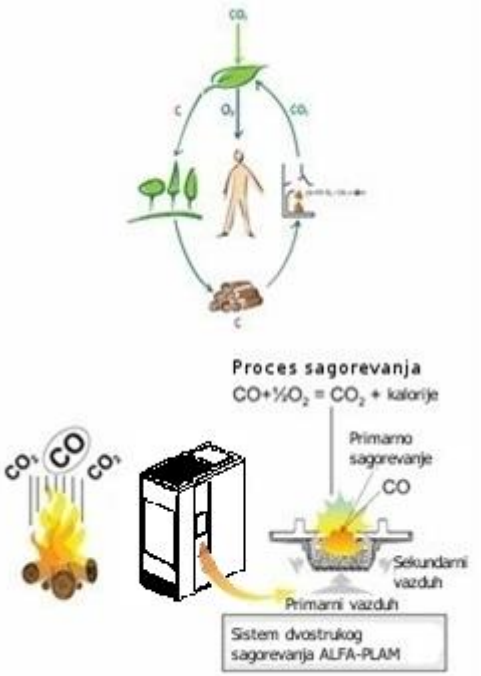
In case of any doubt, and for all clarifications, please contact the manufacturer or authorized service, and specify the number of the disputed paragraph.

Printing, translation and reproduction, even partial, of this Manual must be authorized by ALFA PLAM Company.

Technical information, graphics and specifications in this Manual may not be published.

DOUBLE COMBUSTION SYSTEM

Flame produced by wood that is properly burning in a stove stove emits the same amount of carbon dioxide (CO2) that is released due to the natural decomposition of the wood itself..



The amount of CO2 produced as a result of combustion or decomposition of a plant, is equal to the amount of CO2 that the plant itself can take from the air and convert into oxygen, which is released into the air and into the carbon it consumes during its life cycle.

Using non-renewable fossil fuels (coal, oil, gas), unlike to what happens with the wood, releases into the air large amounts of CO2, accumulated over millions of years, increasing the greenhouse effect. However, the use of wood as fuel is in perfect balance with nature since it uses renewable fuels, which is in conformity with the environmental cycles of nature.

The principle of clean combustion is fully compliant with the objectives and the firm ALFA PLAM took care about it when designing its products.

What do we mean by clean combustion and how do we achieve this? Control and regulation of primary air and secondary air insertion leads to the second combustion, that is to post combustion characterized by a second, stronger and lighter flame that develops above the main one.

That flame, thanks to the introduction of a new oxygen combusts gases significantly by improving performance and reducing heat to a minimum emission of harmful CO (carbon monoxide) generated due to incomplete combustion. This is an exclusive feature of the stoves and other products of the company ALFA PLAM.

Dear Customer,

First of all, we wish to thank you for the trust you have placed in us by purchasing our product and we congratulate you on your choice.

To make sure that you use your new stove in the best way, we advise you to read this manual carefully.

⚠ CAUTION

- The chimney, to which the range is connected must meet the requirements provided in the user manual.
- When connecting the appliance to the chimney, never use flexible hoses instead of flue pipes.
- Regular maintenance and care, such as cleaning the range, the flue pipes and the nozzles (of the pipes), are important to ensure safety, and especially for the sake of economy and in order to maintain the value of the range.
- Unauthorized modification of the device is prohibited and therefore any unauthorized modification shall render the warranty null and void.

Contents:

1. INTRODUCTION

Do not do anything if you have not understood all the information outlined in the manual; in case of any doubt, seek assistance from specialized staff of ALFA PLAM company.

ALFA PLAM reserves the right to change at any time the specifications and technical and / or functional characteristics of the stove, without prior notice.

1.1. SYMBOLS

In this manual, very important items are highlighted with the following symbols:

☞ **INSTRUCTION**: Instruction regarding the proper use of the stoves and the responsibility of the authorized persons.

! **ATTENTION:** An item that is of great importance.

! **DANGER:** This symbol expresses a significant remark about the behavior in order to prevent accidents or damage to materials.

1.2. PURPOSE

! The ALFA PLAM unit is a new stove for heating, with its advanced technology, which only uses pellets and thanks to automatic operation creates a healthy and safe heat in space.

The stove shall work exclusively with a sealed combustion chamber door.

Do not open the door when the stove is operating.

The stove is characterized by a double combustion system: PRIMARY and SECONDARY with positive effects in terms of performance and in terms of discharge of the "cleaner smoke."

The above purpose and the designed configuration of the stoves are the only ones allowed. Manufacturer: **never use the stove in non compliance with the submitted guidelines.**

!The above stated purpose is valid only for the devices with the complete structural, mechanical and installation efficiency. ALFA PLAM stove is a device for indoor space only.

1.3. PURPOSE ANDE CONTENT OF USER MANUAL

PURPOSE

Purpose of this manual is to enable user to react properly and to use all available means necessary for appropriate usage, handling and maintenance of the stove.

CONTENT

This user manual contains all necessary information about installation, handling and maintenance of stove.

By following all procedures from user manual you will be guaranteed high level of safety and performance of stove.

1.4. STORING MANUAL

STORING AND CONSULTATION

The manual must be carefully stored and must always be available for consultation, both from the users, as well as by the staff responsible for installation and maintenance.

Manual - Instructions for use and maintenance is an integral part of the stove.

DESTRUCTION OR LOSING

If necessary, ask the company ALFA PLAM for another copy.

ASSIGNMENT OF THE STOVES

In case of an assignment of the stove, the user is required to submit a new customer with this manual.

1.5. UPDATING USER MANUAL

This user manual is in accordance with the level of technical knowledge at the moment of stoves launching in the market.

If there is some change, harmonization or implementation of new technology in new stoves then Alfa Plam will not consider as inappropriate or inadequate stoves which are already present in the market with appropriate technical documentation.

1.6. GENERAL INFORMATION

INFORMATION

In case of exchange of information with the manufacturer of the stoves, it is necessary to specify the serial number and identification data listed on the page "GENERAL INFORMATION" at the end of this manual.

RESPONSIBILITY

By submitting this manual, ALFA PLAM company is exempted from any responsibility, both civil and criminal, in case accidents caused by partial or total disregard of specifications listed therein.

☞ In addition, ALFA PLAM company is exempted from any repsonsibility in case of nondesignated or improper use of stove by the user; in case of unauthorized modifications and / or repairs, in case of use of non-original spare parts or those that are not designed for this model of the stove.

EMERGENCY MAINTENANCE

Extraordinary maintenance must be performed by qualified personnel trained to intervene on the model stoves referred to in this manual.

☞ ACCOUNATBILY FOR ACTIONS DURING INSTALLATION

Responsibility for actions taken when installing the stove cannot be assignesd to ALFA PLAM, company but responsibility

goes, and remains, with an installer, who is required to conduct checks as for the chimney and bringing of air, as for properly proposed installation solutions. In addition to that, all safety regulations and applicable special legislation of the state in which the stove is being installed have to be complied with.

USE

Except for the regulations listed in this manual, using the stove is to be in line with all applicable safety regulations provided for by special legislation of the state in which the stove is installed.

1.7. REQUIRED CAPABILITIES OF THE USER

User of the stove is an adult, a responsible person with the technical knowledge necessary for routine maintaining of mechanical and electrical parts of the stove.

Make sure that children do not approach the stove that is turned on, in order to play.

1.8. TECHNICAL ASSISTANCE

ALFA PLAM company is able to solve any technical problem related to usage and maintenance of the stove, throughout its lifetime.

Central office is at your disposal so as to refer you to your nearest qualified service facility.

1.9. SPARE PARTS

Use only original spare parts.

Do not wait for the parts to wear out from use before replacing them.

Replacement of the seedily parts before the breaking leads to prevention of accidents that occur because of sudden breakage of parts, which can harm people and cause damage to property.

☞ Carry out periodical inspections on maintenance as specified in the "MAINTENANCE AND CLEANING" chapter.

1.10. NAMEPLATE

The main nameplate affixed to the stove contains all the characteristics of the product, including information on the manufacturer, identification number and CE mark.

1.11. DELIVERY OF THE STOVE

The stove is delivered in perfect packaging in a cardboard box. Attached to the wooden base which enables its movement with the help of forklifts and/or other means.

Inside the stove there is following material:

- Manual for usage, installation and maintenance.

2. SAFETY WARNINGS

2.1. WARNINGS FOR INSATLLER

- Make sure the specifications for the reception of the stove are in accordance with the local, national and European regulations.
- Adhere to the guidelines from this manual.
- Make sure the specifications of the of chimney and equipment for taking air are in accordance with the required type of installation
- Do not carry out bare electrical connections with temporary and non-insulated cables
- Check whehether the grounding of electrical devices is efficient.
- Always use the means for personal protection and other protective equipment as provided by law.

2.2. WARNINGS FOR USER

- Prepare the space needed to install the stove in accordance with the local, national and European regulations.
- Because it is a heating device, the stove has very hot outer surfaces.

It is therefore recommended to use extreme caution during work, and in particular:

- Do not touch and or approach the glass door which may cause burns.
- Do not touch the pipe through which the smoke flows.
- Do not perform any cleaning.
- Do not open the door with glass.
- Make sure that the children do not approach the stove.
- Adhere to the guidelines contained in this manual.
- Keep to the guidelines and warnings from the plates affixed to the stove.
- On the plates, there are guidelines for preventing accidents at work, so they must always be fully readable. If they are damaged or become illegible, they must be replaced, requests the Manufacturer to provide an original replacement.
- Use only the fuel in line with the guidelines from the chapter relating to the the fuel characteristics.
- Strictly adhere to the plan for regular and emergency maintenance.
- Do not use the stove without daily control performed as specified in the "Maintenance" chapter of this manual.
- Do not use the stove in case of malfunction, in case of doubt that something is broken or in case of unusual sounds.
- Do not throw water on the stove in operation, or for the purpose of extinguishing the flame in ember tray.
- Do not extinguish stove by disconnecting the plug from the socket.
- Do not lean over an open stove, it can endanger its stability.
- Do not use the stove as support or for of any kind of anchoring.
- Do not clean the stove before completing cooling down of its structure and ashes.

- Touch the door only when the stove is cold
- Conduct all the operations calmly and in the conditions of maximum safet.
- In the event of a fire in the chimney, extinguish the stove in the manner provided for extinguishing.

ATTENTION: In order to avoid any danger caused by accidental plug in thermal switch, this stove should not be supplied through a device with exterior control, such as timer, but it should be connected to the circuit that is regularly supplied and disconnected from the network. In case of the poor operation of the stove caused by a week draft of the chimney, the same should be cleaned by applying the procedure described in 8.1.4.

In any case, the cleaning of the chimneys should be conducted at least twice a year, in accordance with the guidelines from the article 8.1.4.

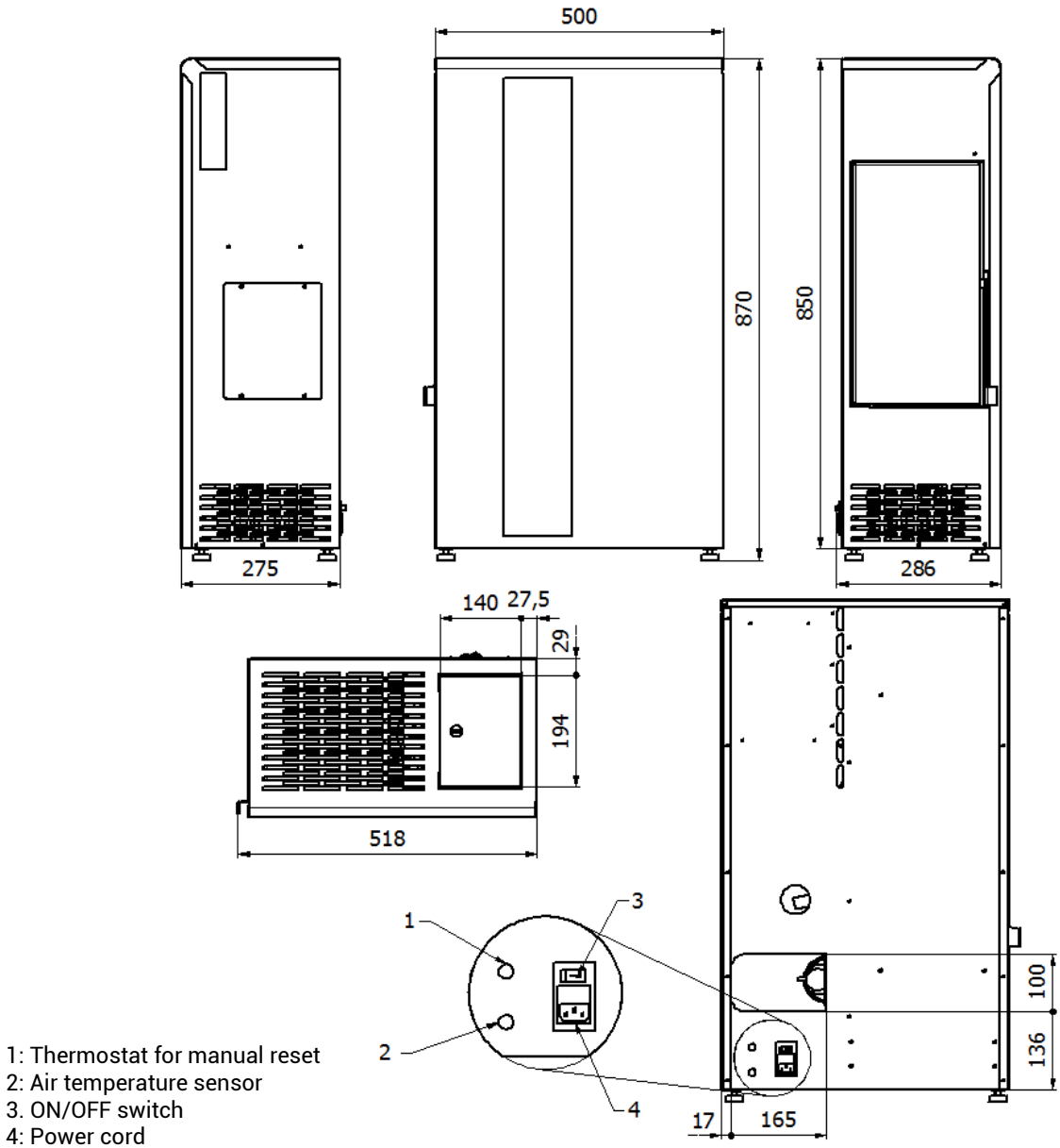
- Do not touch the painted parts during the stove operation of, so that the damaging of the colour can be avoided.
- Replacement of the fuse is done by qualified personnel.

2.3. WARNINGS FOR MAINTAINANCE WORKER

- Abide to the guidelines from this manual.
- Always use means for personal protection and other protective devices.
- Before beginning with any sort of maintenance, make sure that the stove, in case it has already been used, has cooled down.
- In case that any safety device is not working, it is considered that the stove is not working.
- Pull out the plug in from the socket on the wall before work on electrical, electronic parts and connectors.

3. GENERAL INFORMATION

3.1. DIMENSIONS



1: Thermostat for manual reset
2: Air temperature sensor
3. ON/OFF switch
4: Power cord

Dimensions in mm

A: The flue gas pipe diameter ø 80
B: Air intake Ø 50 cm
C: Electric connections

3.2. TECHNICAL FEARURES OF THE PRODUCT

Product: Grazia			
	Unit of measure	Maximum	Minimum
Thermal power	kW	8,1	2,7
Heating power	kW	7,36	2,51
CO emission (per 13% of oxygen)	mg/Nm^3	174,5	230,5
Efficiency	%	90,87	91,89
Nominal electrical power	W	420	
Nominal voltage	V	230	
Nominal frequency	Hz	50	
Fuel		Wood pellet	
Fuel consumption per hour	kg/h	1,6	0,54
The flow of gas masses	g/s	4,4	1,38
Combustion gas temperature	°C	118	93
Minimum withdrawal pressure	Pa	12	10
Tank capacity	kg	8,1	
Autonomy	h	5	15
Discharge of flue gases	mm	ø 80	
Combustion air intake	mm	ø 50	
Net weight	kg	46	
Heating volume*	m^3	122,6	

* Calculations were performed according to household heat needs of 60 W/m³ and ceiling height of 2,6 m.

4. CHARACTERISTICS OF FUEL AND STOVE DESRIPTION

4.1. FUEL CHARACTERISTICS

Pellets or wooden rollers (Figure 4.1) is a mixture of different kinds of wood compressed by mechanical procedures observing environment protection regulations

It is the only kind of fuel prescribed for this kind of stove.

Efficiency and thermal power of the stove can vary in accordance with the kind and quality of the used wooden rollers. In order for the stove to work correctly, it demands rollers with the following characteristics:

- dimensions Ø 6 – 7 mm
- maximum length 30 mm
- maximum content of the humidity 8% do 9%

Considering that there are different types of pellet in the market, it is very important to choose pellet which does not consist of impurities and is compact and without dust. Always use pellet which fulfills the requirements of standard EN plus A1.

The stove is equipped with the storage for wooden rollers with the capacity depicted in the above stated column of characteristic data.

The door for loading are placed on the upper side.

☞ - **The cover can always be opened so that loading with the wood rollers can be conducted.**

! For resetting of the control at the working temperature it is not possible to use the classical fuel.

! It is forbidden to use the stove for incineration.

Slika 4.1

Correct grade of pellets

Meets EN Plus Grade A1.
Correct diameter and length with no dust and minimum bark content.

Poor quality pellets

Pellets not pressed correctly causing them to easily disintegrate. **DO NOT USE!**
The auger will be unable to consistently deliver these pellets from thehopper to the burner, resulting in pellet lighting problems.

Pellets too dark in colour

Too much bark content.**DO NOT USE!**
These will cause excessive sand in the ash resulting in clinker blocking air holes, poor combustion and jamming of the brazier cleaning system..

Pellets too short in length

DO NOT USE!
The auger will not be able deliver these pellets at the correct rate to the burner, affecting the input (and output) of the boiler and the combustion.

Pellets with high dust content

DO NOT USE!
The auger will not be able deliver these pellets from the hopper to the burner, resulting in pellet lighting problems.

4.2. PELLET STORAGE

! Pellets should be kept in a dry, not too cold space.

It is recommended that a couple of sacks with pellets should be kept in a room in which the stove is used or in a adjacent room because of the acceptable temperature and air humidity.

Moist or/and cold pellets (5°C) reduce the thermal power of fuel and require more detailed cleaning of the ember tray (of non-burned material) and combustion chamber.

! Special attention should be paid to storage and moving of the sacks with pellets. One should avoid its breaking and making of splinters.

If splinters are put in the storage of the stove, it could cause blockage of the system of pellet loading.

5. SAFETY RECOMMENDATIONS

⚠ **ATTENTION**: Carefully read the attached user guide with the instructions before installing.

⚠ **ATTENTION**: The firebox must be empty before the appliance is turned on in case

of any difficulty when turning the device on.

It is strictly prohibited to use any other type of solid or liquid fuel except wood pellets with a radius of 6 mm for which the furnace is designed. Avoid using wet or crushed pellets.

In order to bring furnace operation to the highest level, the use of wood pellets certified by an accredited body is recommended. Using other types of pellets compared to those specified by the manufacturer can lead to failure of the furnace and may void the warranty.

When putting the pellets into the furnace make sure they don't fall into other internal parts of the product expect into the proper container.

⚠ **ATTENTION**: If you can't turn the furnace on you will have to empty the combustion chamber. Not following this procedure may cause excessively strong burning that can lead to creating significant amounts of smoke.

⚠ **ATTENTION**: Do not open the door or turn off the electrical cable during the ignition phase or during shutting down, or while the furnace is running, even if the combustion chamber is blocked or overloaded; start the process of turning it off and wait for the furnace to complete operating phases before solving the problem. Do not attempt to turn on the furnace again until the problem is solved.

⚠ **ATTENTION**: Do not disturb the shutdown procedure of the furnace (for example, by turning off the power cord) until it is completed.

⚠ **ATTENTION**: If the wood pellets accumulate in the combustion chamber when the appliance is operation, immediately turn off the appliance and turn it on again using the greater ventilation program. If the pellets continue to accumulate, try using other types of wood pellets or call the helpline.

⚠ **ATTENTION**: Never manually put the pellets into the combustion chamber.

⚠ **ATTENTION**: In order to prevent possible accidents, always follow the instructions for proper use contained in this user guide for the appliance and its electrical components.

⚠ **ATTENTION**: Installation procedures, connecting inspections, maintenance and repairs may be carried out by qualified personnel.

⚠ **ATTENTION**: The product must be installed in full respect of the applicable legal standards.

⚠ **ATTENTION**: Always follow the safety recommendations and standards indicated by this user guide.

⚠ **ATTENTION**: Anyone who performs interventions on the product must first read and fully understand the contents of this user guide and fully know the dashboard of the product.

⚠ **ATTENTION**: The product can be used, modified, or programmed by adults only. Incorrect or arbitrary settings can lead to dangerous situations and faults.

⚠ **ATTENTION**: ALFA PLAM bears no civil or criminal liability for damages in the event that the product is subjected to unauthorized repairs or replacement of parts.

⚠ **ATTENTION**: While in the product is running some of its surfaces can reach extremely high temperatures.

That's why it is recommended to the user to take all the necessary precautions, particularly when children or elderly or disabled people are present.

⚠ **ATTENTION**: Do not block or clogs the hot air drain in any way. Do not cover the product with cloth or other similar materials.

⚠ **ATTENTION**: In order to avoid accidental tipping over of the appliance, never lean or place too much weight on the open door during the cleaning process.

It is recommended to avoid these kinds of pressures and to take all the necessary precautions, particularly when children or elderly or disabled people are present.

5.1. GENERAL RECOMMENDATIONS

⚠ **ATTENTION**: Never use the product for purposes other than those for which it is designed and manufactured.

⚠ **ATTENTION**: The product must not be used for cooking.

⚠ **ATTENTION**: The product should not be used in the event of any fault or failure. In these cases, immediately turn off the power cord of the product from the wall socket.

NEVER leave the door open while the product is running.

Stovepipes must be checked regularly.

NEVER use steam to clean the product.

Always consult qualified and authorized personnel for any service interventions that may be necessary. Use only original spare parts for replacement of broken parts.

Fuel can only be loaded into the burner through automated loading, and not directly by the user.

⚠ **ATTENTION**: In case of "unsuccessful ignition", all pellets deposited in the combustion chamber must be removed before one tries to re-ignite the furnace. Pellets that are removed from the combustion chamber should never be returned to the tank.

This user guide must be considered an integral part of the product and must be used during its entire service life. It must be stored in a safe place. In case the user guide is lost or damaged, a replacement copy can be obtained from the dealer.

5.2. SAFETY DEVICES

The product is equipped with the following safety devices:

- **A thermostat for determining the temperature of the tank:** this device shuts down operation of the product each time it exceeds the set safety limit;
- **Meter for determining the smoke temperature**: this element determines the smoke temperature and continually monitors the proper functioning of the product;
- **Pressure switch**: this element determines whether there is a clogging in the pipe;
- **Thermometer for the environment:** this element constantly monitors the temperature of the room where the furnace is located;
- **Operation modulation mode**: if the flue gas temperature exceeds the set safety threshold, the appliance will automatically reduce the amount of pellets for burning until the temperature drops below the set limit.

Incorrect parameter settings can lead to exceeding of the safety limits and can lead to excessive consumption of pellets. The safety limits can also be exceeded due to poor ventilation of the room in which the furnace is located, which does not provide the appliance with enough cold air.

Disabling the safety devices is PROHIBITED. When the user eliminates the cause of activation of the security system, the appliance can be restarted in order to restore its proper functioning.

⚠ **ATTENTION**: The appliance must be installed in such a way so that its electrical cable is easily accessible.

Note: The safety section is made up taking into account the normal conditions of use of the product described and specified in chapter 6. ALFA PLAM bears no responsibility for any personal injury or property damage that may occur if the furnace is not used in accordance with the conditions listed in this user guide. ALFA PLAM also bears no responsibility for any personal injury or property damage that may occur if the user fails to comply with the following regulations:

A) All the necessary measures and precautions must be taken to ensure that no party turns on the equipment while carrying out repairs, adjustments, replacement of parts and maintenance operations;

B) Do not remove or modify any safety devices on the appliance;

C) The appliance must be connected to the system for smoke removal which is functioning properly;

D) Make sure that the surrounding area in which the furnace is set is sufficiently ventilated, as prescribed in this user guide.

5.3. SURROUNDING AREA FOR USING THE PRODUCT

⚠ **ATTENTION**: The appliance must be installed in a surrounding area with ventilation, and it must be provided with sufficient air combustion in accordance with the applicable regulations. This is important for ensuring its proper operation.

⚠ **ATTENTION**: The room must have a volume not less than 20 m^3 and must possess all the necessary ventilation conditions, as described in Chapter 6 of this user guide. These conditions will provide the necessary air flow to allow for proper combustion (40 m^3/h).

Using the product in the bedroom bms and bathrooms is **PROHIBITED**.

Using the product in spaces with another heating appliance which does not have its own system for air intake is **PROHIBITED**.

Placing the product close to flammable materials is **PROHIBITED**.

Placing the product on the floor made of flammable material unless a protective plate is used made of non-flammable materials is **PROHIBITED.**

Using the product in explosive and potentially explosive atmospheres is **PROHIBITED**.

6. INSTALLATION

You must comply with all local and national laws and European standards when installing, using and maintaining the appliance.

6.1. POSITIONING THE APPLIANCE

Our product creates heat by bringing the necessary air in for the combustion process directly from the environment which needs to be warmed up.

For this reason and because of the basic safety of the users of the furnace, the appliance should always be installed inside an adequately aired out area to ensure a constant flow of combustion air.

Therefore, it is necessary to place the air intake vents that are connected to the air outside (as shown in Figure 6.1)

In accordance with the provisions set forth in the UNI 10683 standard, air intake vents must have the following characteristics:

1. They must not have an internal cross-section of less than 80 cm^2;
2. They must be placed at an approximate height of the floor;
3. They must be adequately protected by wire mesh or grate so that the minimum radius condition for air flow is not diminished;
4. They must be placed so as not to be blocked in any way.

Correct flow of fresh air can also be ensured by using the opening to the next room, if that room comes equipped with direct ventilation and does not pose a risk of fire, such as a warehouse, garage or storage, as set forth by the UNI10683 standard.

It is recommended that you avoid placing a heating device in the rooms with devices which cannot work in a closed manner compared to the surrounding area or in the rooms where there are devices which can reduce the pressure in the room itself compared to the external environment, as this can lead to problems with low air intake for our product (UNI 10683).

⚠ **ATTENTION**: It is forbidden to discharge combustion products of the furnace in a common stovepipe.

When checking the system compatibility, it is recommended to determine if the support surface of the support (floor) possesses adequate load capacity (kg) to support the weight of the product. If this is not the case, it is recommended to take appropriate safety measures (for example, use a distribution board).

- When installing the furnace, it is advised to place it at the appropriate distance from the wall to allow access to the back side of the furnace (we recommend at least 20 cm) and to the side (we recommend 80 cm). Such a space may be necessary, for example, in order to be able to adequately clean the product.

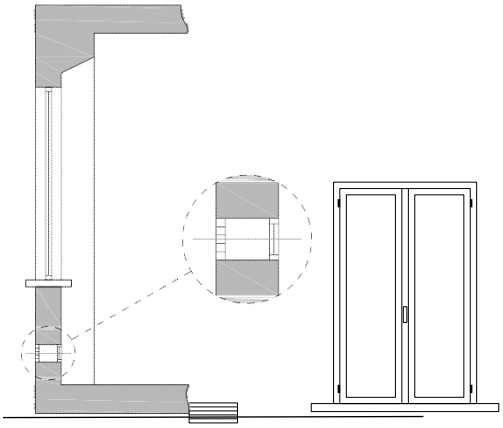


Figure 6.1: *Example of the necessary vents*

Never allow flammable materials to come close or, indeed, come into contact with the outer surfaces of the combustion chamber as it can reach extremely high temperatures when the product is running.

If the floor is made of flammable material (e.g. hardwood), it is recommended to protect it by placing a layer of non-flammable material under and around the furnace.

More information on the minimum safe distance from flammable materials (see figure 6.2):

- Minimum distance from combustible floor (H = 4 cm);
- Minimum distance from combustible rear wall (B = 50 cm);
- Minimum distance from combustible side wall S = 40 cm);
- Minimum distance from combustible material on the front side (Fr = 150 cm).

Once you've determined where you will place the furnace, it is possible to adjust the furnace feet in order to achieve the correct height. Tilting the furnace to the side requires two people. After you adjust the feet, carefully lower the furnace.

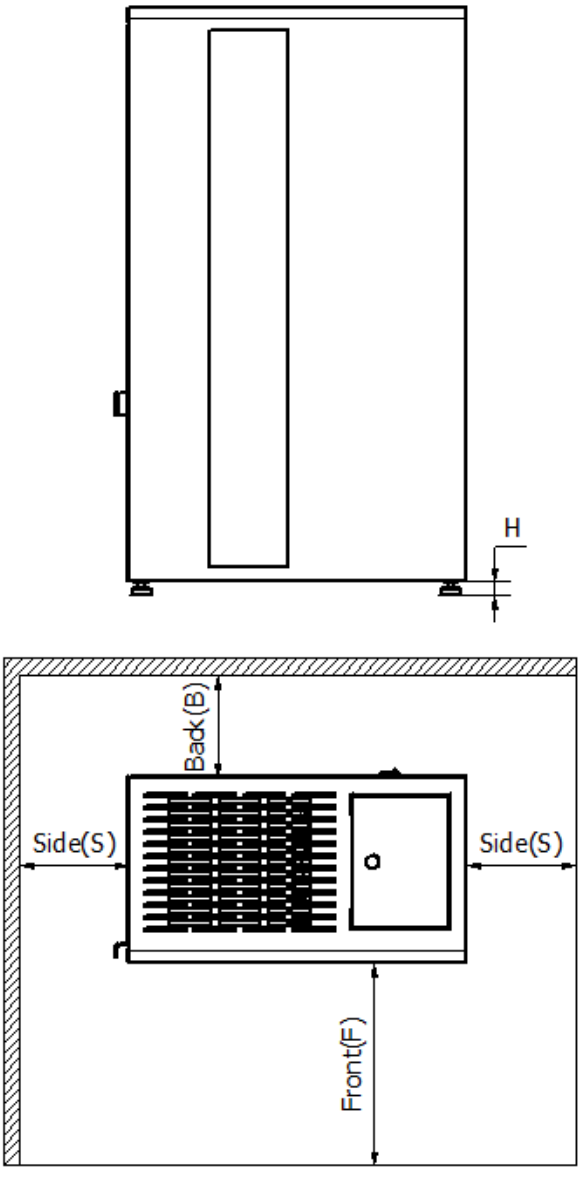


Figure 6.2: *Distance when setting up*

All minimum safety distances are indicated on the product data plate, DO NOT use lower values than specified (see INFORMATION ON CE MARKING).

6.2. AIR SUPPLY

The combustion air must be supplied to the room with the boiler. The room must be continuously aired.

The fresh air opening must be at the bottom of the room and must let in the air.

A) Combustion air supply by pipeline through basements. This connection option preheats the combustion air, which is useful for good and clean combustion. Installation of pipelines in the basement is simple.

B) Combustion air supply through basements. The combustion air is preheated. The basement space must be separated from the ventilation system of the house and open to the outside. Avoid high levels of dust and moisture.

V) Combustion air supply from above. Air supply from above can only be performed with tested flue systems.

In this case, you must calculate the dimensioning of the flue!

D) Combustion air supply directly from outside. If the air is supplied directly through the outer wall, the combustion air is only slightly preheated, which is unfavorable for clean combustion. In this case, there is also a risk of condensation!

NOTE: We do not recommend these versions of the air supply! However, if you use these options, consult a qualified professional.

The room with the heating appliance must have a sufficient supply of fresh air. If the windows and doors are hermetically sealed or there are air extracting devices such as a hoods, hair dryers, fans, etc. located in the room with the boiler, combustion air (fresh air) must be supplied from outside. In any case, this should be discussed with the competent chimneysweeper before installing the boiler.

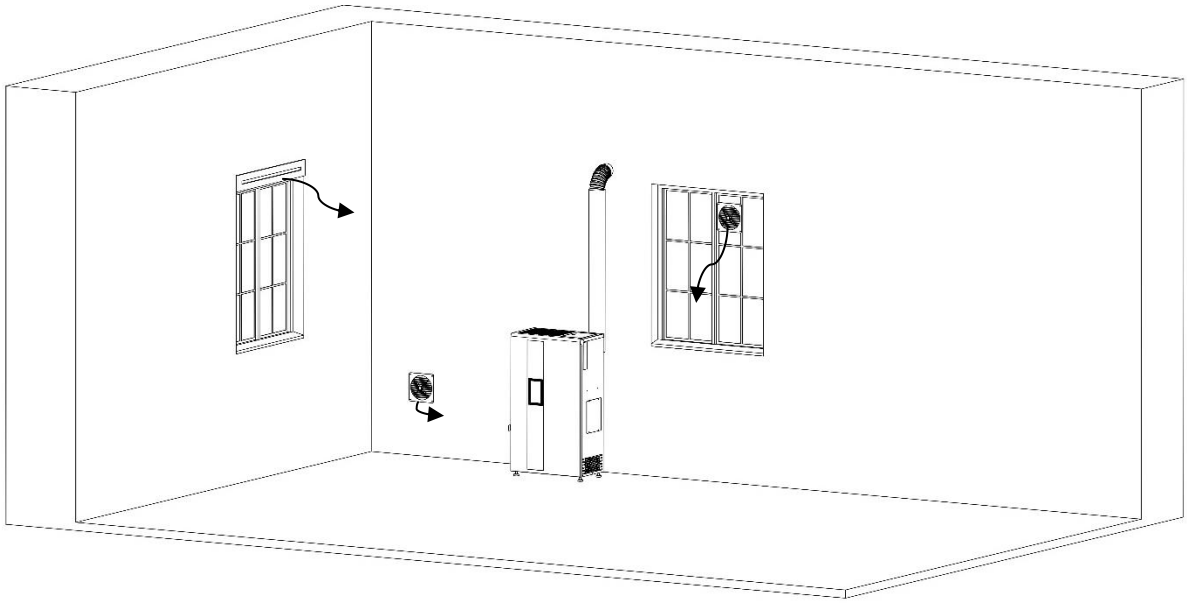


Figure 6.8- Fresh air supply to the room with the boiler

6.3. STOVEPIPE PROPERTIES

The main properties of the stovepipe are listed below, based on the requirements of the standard:

- The inspection valve (I);
- Maximum height of the pipe which is connected directly to the smoke drain on the furnace should be between 2 to 3 m;
- If you need a horizontal segment, it should not exceed 1.5 m in length and a slope of 3 to 5% in order to help drain the smoke;

Use the back part which is resistant to wind and water in order to prevent change of state of a slightly higher pressure in the stovepipe (do not put a horizontal part at the end of the stovepipe);

The state of a slightly higher pressure in the stovepipe is needed to facilitate the flow of smoke from the combustion chamber.

Keep in mind that any removal of excess heat is done by the electric control part (modulation, shutting down, etc.)

- The exhaust duct must be made of materials that are resistant to combustion products and moisture (a review will enable the removal of any moisture);
- Ducts must be manufactured in a way as to prevent any leakage of smoke.
- The duct must be isolated, especially the outer part, which is exposed to atmospheric conditions.

Avoid using fully horizontal segments.

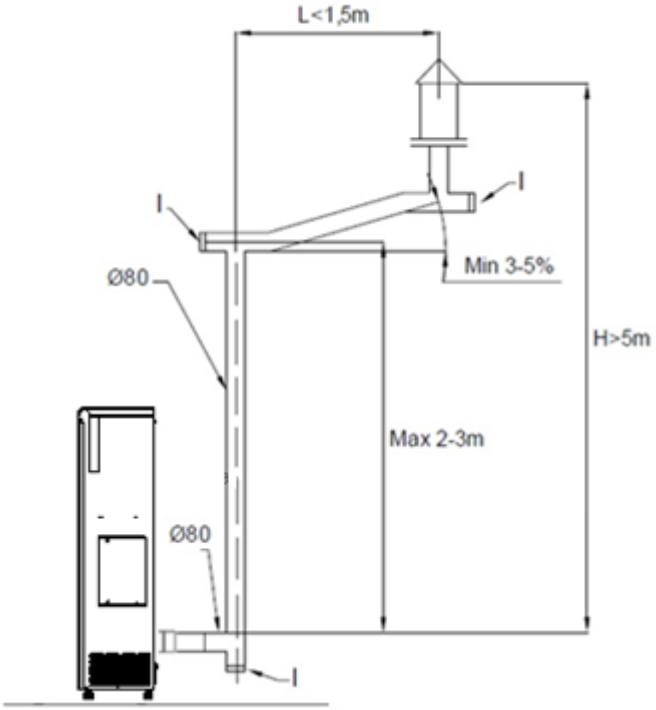


Figure 6.3: *Exhaust duct*

The room in which the heating device will be assembled should not have hoods because they can reduce the pressure of the surrounding area.

It is strictly prohibited to close the air vents.

The exhaust duct should be cleaned at least once a year; we recommend that you perform a thorough cleaning of the exhaust duct and its connections.

Ensure there is no congestion before the ignition after a period of inactivity.

⚠ **ATTENTION**: The exhaust duct must be built in accordance with the provisions of the standard.

⚠ **ATTENTION**: Check if the chimney has a minimum pulling power of 10 Pa using the appropriate tools.

6.3.1. Smoke exhaust to the outer wall

One of the solutions that can be applied includes storing the furnace that uses wood pellets near the outer wall of the house so that the exhaust fumes are directly released outside (Figure 6.4). Some of the notes set forth by the standard for this type of system configurations are listed below:

- Always make sure that there is an inspection valve (I) in order to enable regular cleaning procedures, as well as the removal of moisture which can be formed;
- The end of the funnel (T) must be such that it is resistant to wind and water;
- Make sure that the stovepipe is properly insulated in the part that passes through the wall.

If the stovepipe for draining the exhaust gases is completely outside, it must be made of a double stainless steel wall to provide greater resistance to atmospheric conditions, as well as proper temperature of the exhaust gases themselves.

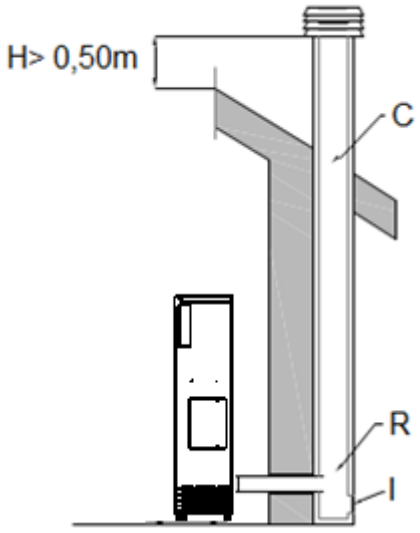
.

6.3.2. Draining smoke to the roof through a traditional funnel

Furnace exhaust fumes can be removed through a traditional funnel that is already built-in (Figure 6.5), if it meets the applicable Standards and features the main characteristics of a good funnel (C), which are briefly listed below:

- Proper insulation, first in the outer part which is exposed to the atmospheric conditions;
- The constant inner radius (there cannot be segments with a smaller radius);
- It must be made of a material which is resistant to high temperatures, to the effects of the combustion products and to the corrosive effects of moisture which may be formed;
- A mostly vertical position without deviating from the vertical angles greater than 45 °.

It is recommended that the base of the funnel is equipped with a chamber for collecting solid matter and moisture (R). The chamber must be accessible through a hermetic door (I).



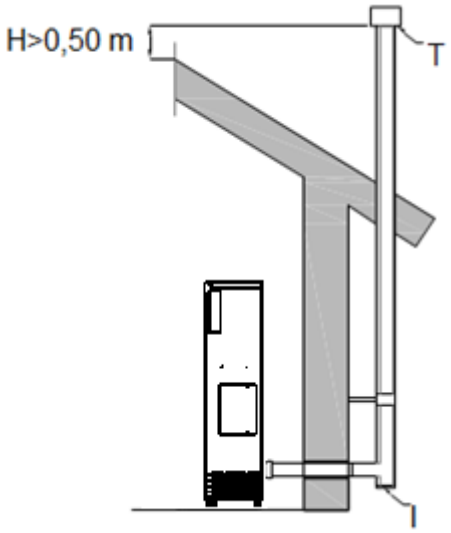


Figure 6.4: *Draining smoke to the outer wall of the chimney* **Figure 6.5:** *Draining smoke to the roof through a traditional chimney*

It is recommended that you follow the guidelines set forth in the standards in relation to the size and radius of the chimney (C). In any case, never use an exhaust duct with an inner radius smaller than 100 mm.

In the case of the exhaust ducts of greater radius, there must be a steel pipe (A) within the funnel bricks or mortar (C), as shown in Figure 6.6.

The steel pipe must be insulated using a suitable heat-resistant material, such as rock wool or vermiculite (B), and it must be separated from the outer part of the funnel.

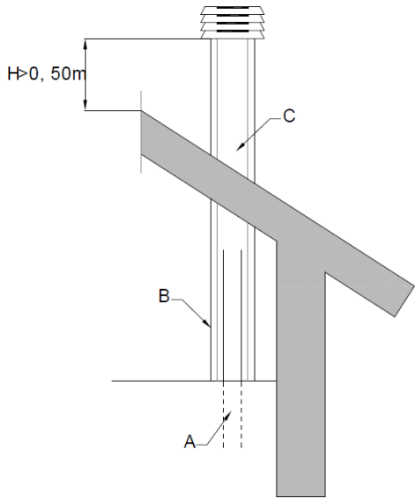


Figure 6.6: *An example of connection to the chimney*

In case of fire in the chimney or stovepipe, immediately turn off the furnace and disconnect it from the electrical system.

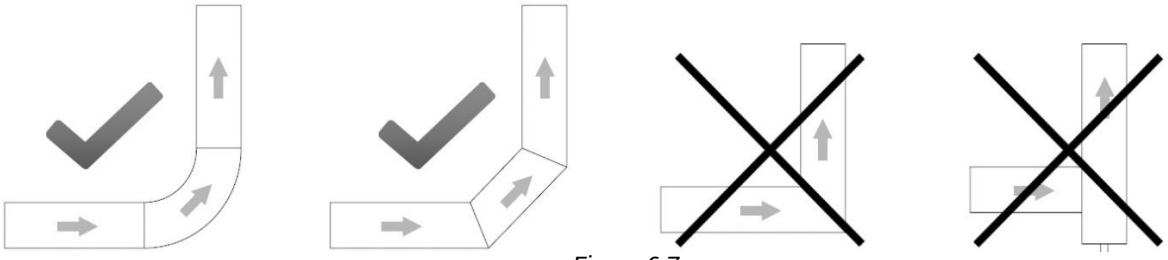
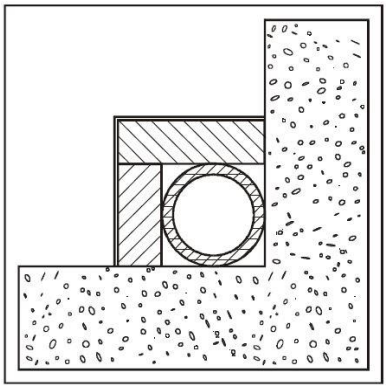
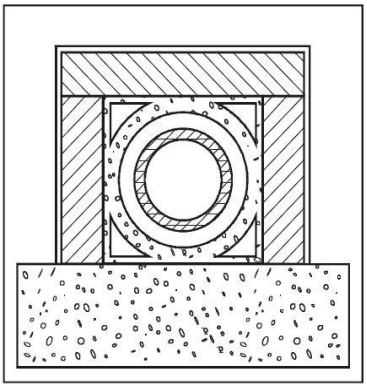


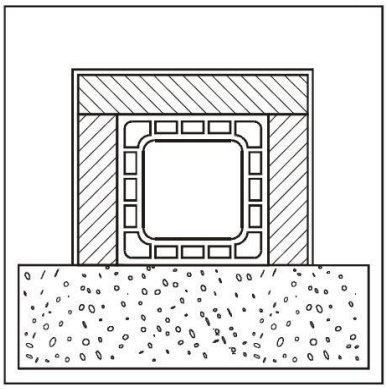
Figure 6.7.



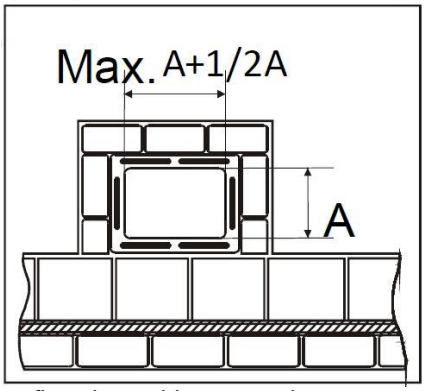
AISI 316 steel flue with double insulated chamber, material resistant to 400 ° C. Optimal efficiency 100%



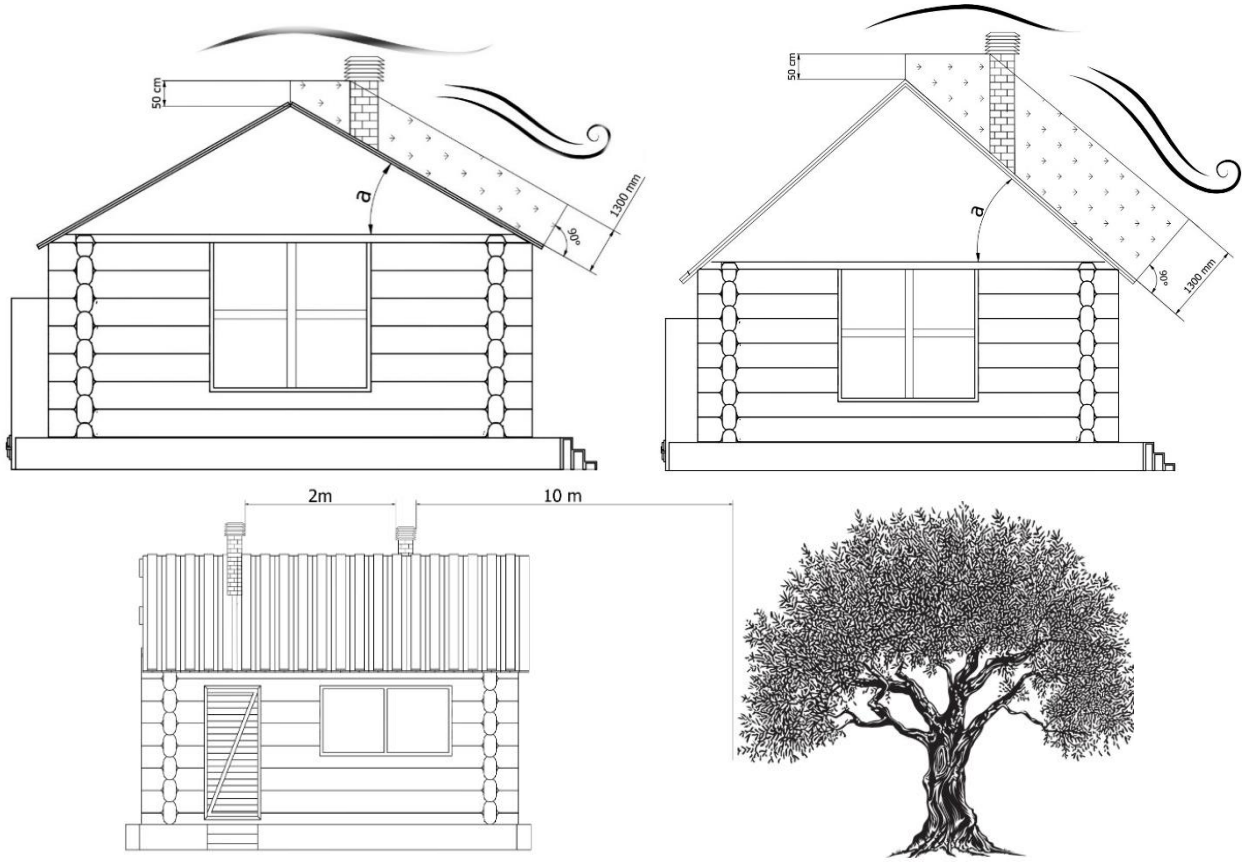
Waterproof flue with double insulated chamber and outer casing of light concrete. Optimal efficiency 100%



Traditional clay flue with indents. Optimal efficiency 80%



Do not use flue pipes with rectangular cross section with ratio different from the plan. Efficiency of modest 40%



Flue – position and distance

6.4. DISMANTLING AND WASTE DISPOSAL

The packaging consists of materials which are not toxic or harmful. No special conditions are needed for its disposal. The user is responsible for the disposal of the remaining components of the packaging. The user must follow the proper disposal procedures in accordance with the applicable standards in the country where the product is assembled.

⚠ **ATTENTION**: The packaging elements must be kept out of reach of children who are not supervised or out of reach of persons with disabilities.

6.5. ELECTRICAL CONNECTIONS

The product can be connected to the mains only after the electrical insulation is assembled.

Connect the product to your household power.

Just press the main switch on the back of the appliance if you want to turn it on. When you do this the furnace will be ready for ignition. For ignition procedures and programming, refer to section 8.

6.6. ROOM TEMPERATURE GAUGE

Room temperature gauge can be adjusted only after setting up the electrical installation.
This gauge allows the temperature in the room where the furnace is placed to be continuously monitored.
Placing the room temperature gauge in a suitable spot will ensure proper operation of the product.

7. USING THE PRODUCT

7.1. THE NECESSARY CHECKS AND CONTROLS FOR THE FIRST INGNITION

The following guidelines must be followed when first igniting the product:

- Make sure all safety requirements have been met (see section 2);
- Connect the appliance to the power supply only when you are sure that the voltage power supply is 230 V 50 Hz. When you've made sure of this turn the switch on the back panel to "ON" - switched on;
- Make sure that the display on the control panel is turned on, which indicates that the appliance is properly plugged into the power supply;
- Make sure there is enough fuel in the tank for the planned period of operation.

The fuel must be in accordance with the instructions given in the relevant section of this guide.

Painted parts of the furnace can emit smelly fumes during the first few ignitions. This phenomenon is associated with a chemical process of stabilization of used paint. For this reason, during this period the room where the furnace is located must be regularly and properly ventilated.

7.2. LOADING THE FUEL

Open the pellet container lid to insert the pellet. Regarding the pellet, you must follow instructions mentioned in the relevant part of this user manual.

⚠ **ATTENTION**: Do not let the bag with wooden pellets come into contact with hot parts of the product while you load the fuel.

⚠ **ATTENTION**: Do not remove the protective grid inside the part for loading the pellets.

⚠ **ATTENTION**: Do not lean the full weight of the bag containing the fuel to the product..

⚠ **ATTENTION**: After finishing loading pellet, close the pellet container lid.

Periodically check the amount of wood pellets contained in the tank and fill it up in time.

⚠ **ATTENTION**: Excessive moisture can crush the pellets into fine powder, which can lead to increased sedimentation in the boiler area, and even block the insertion/loading system (auger).

When inserting the pellets make sure that the pellets do not accidentally fall into the other inner parts of the appliance except into the appropriate tank.

Only use pellets with a diameter of 6 to 7 mm.

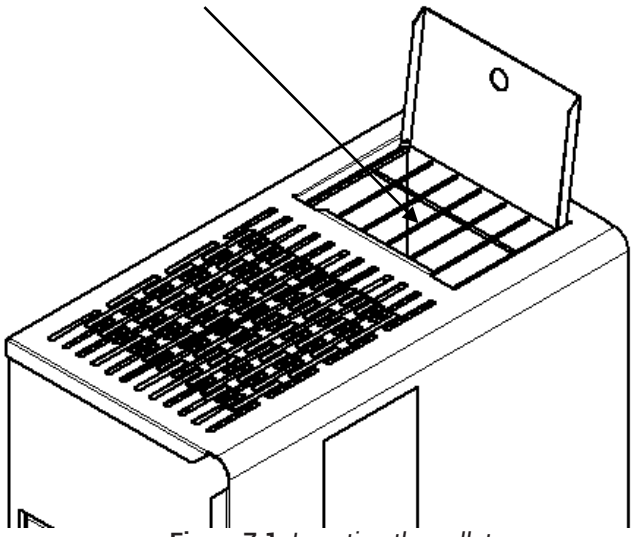


Figure 7.1. *Inserting the pellets*

8. DESCRIPTION AND FUNCTIONING OF THE ELECTRONIC CARD

8.1. DESCRIPTION OF THE ELECTRONIC CARD (KEYBOARD)(FIGURE 8.1)

Button 1: it increases the room temperature, shows the temperature of the chamber
Button 2: reduces the room temperature
Both these buttons have program functions.

Button 3: modification of the temperature and program functions
Button 4: switched on/ switched of (ON / OFF) and exit from programs
Button 5: reduces the heat capacity from 5 to 1
Button 6: increases the heat capacity from 1 to 5
WARNING
Automatic programing of the ventilation with values from 1 to 5 has been factory adjusted and can be changed only by authorized professional repairmen, and factory experts. They are informed from each separate case.

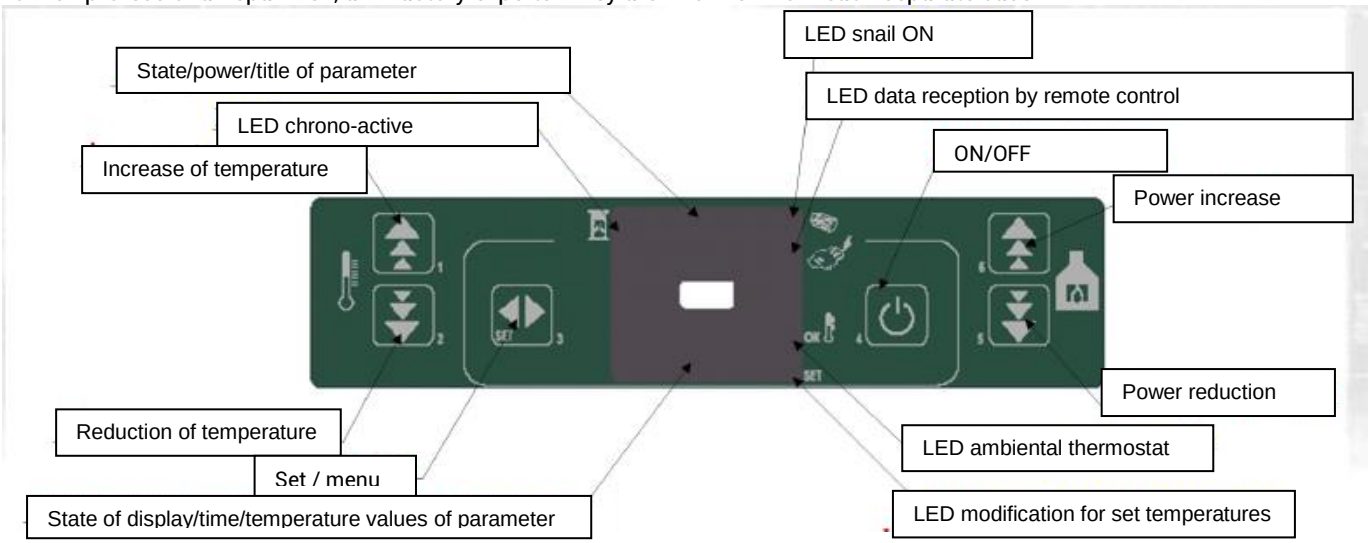


Figure 8.1 Electronic keyboard of controls

LED →**L**ight **E**mitting **D**iode →Lamp

8.2. Functioning of the electronic card

When it is already connected to the power supply, you should turn the switch which is located at the back side of the stove into position 1. Then the following indication as shown in figure 8.2 appears:

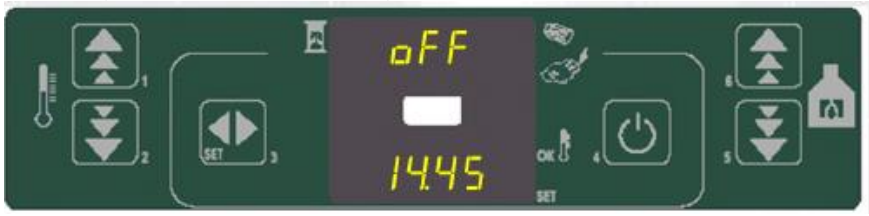


Figure 8.2

In order to start the stove, press button 4. Shortly after this, the command to the electronics will put the stove into a state of calibration, that is, preparation for work and the message shown in figure 8.3 appears on the display. The suction device will be switched off for about 15 seconds, that it will be switch on again for maximum 7 seconds.

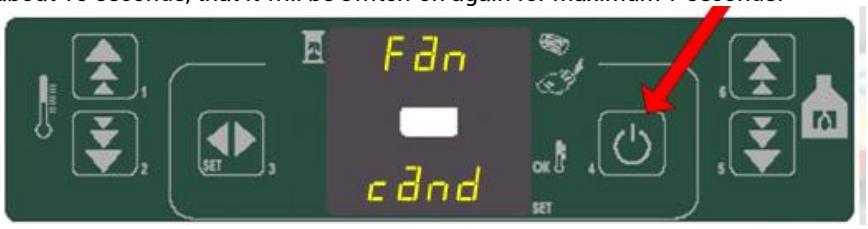


Figure 8.3

Upon termination of this stage, which lasts about 20 seconds, the message **"LOAD WOOD"** appears as shown in figure 8.4. The snail loader loads the pellets and the ignition heating element is on. This is shown on the display of the control keyboard through the previously described LED lamps.

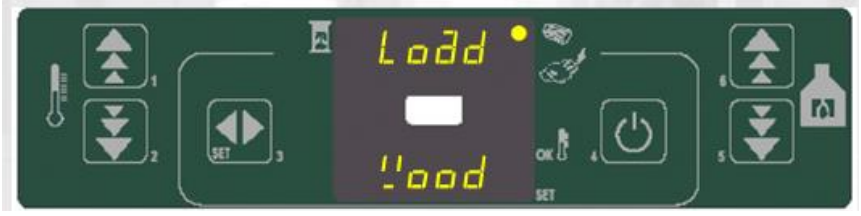


Figure 8.4

When the temperature is sufficiently high)after about 15 minutes), reach in accordance with a certain coefficient (about 3ºC per minute), the electronic command prepares the fuel ignition and the next stage of operation follows, flame stabilization and then the display of the command board shows the message **"FIRE ON" (activated flame)** as in figure 8.5. The tangential fan (alternator) switches on at that moment as well.

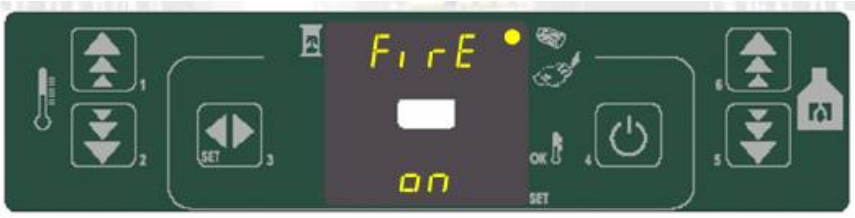


Figure 8.5

Upon termination of the stabilization stage (the standard duration is about 2 seconds), the control of the electronic unit goes to an operation mode, sowing the selected heating power (which may be changes by means of the buttons 5 and 6) and the ambient temperature Figure 8.6.

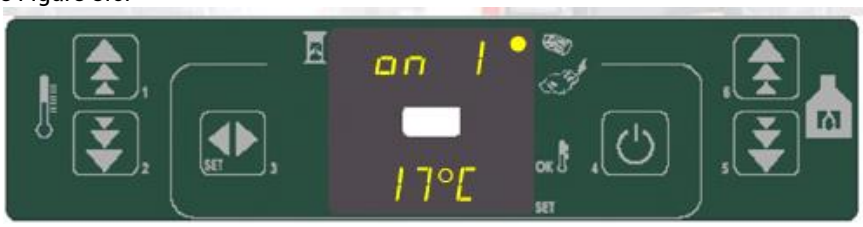


Figure 8.6

In this stage the buttons 5 and 6 adjust the stove energy from 1 to 5, provided that the ambient temperature is less than the determined set temperature*.

Otherwise, the heating energy is set to a minimum.

* Actually, the stove is set to an ambient temperature. After reaching the desired temperature (manually adjusted – look at the chapter with description of the modification of ambient temperature), the stove adjusts its operation to a minimum and in that case it is not possible to change the heating energy.

If the pellet fuel does not ignite, the stove will try once more to ignite the fuel. If the pellet ignition does not succeed once again, this will be indicated with an alarm.

The speed of the device for air suction and the fan, as well as the time required for furl ignition through the heating element, are parameters which can be adjusted only by authorized professional repairmen, factory experts.

Once connection to the power supply is established, upon stoppage of electricity for a certain period of time, the control of the electronics enables discharge of the remaining smoke with an increased speed of the air suction device and then the display shows the following message "**COOL FIRE**". Once the cooling is over, then the fuel ignition starts once again.

IMPORTANT NOTICE

The stove normally switches on after about 15 minutes, with a good quality of the pellet fuel and with an ambient temperature of 11 degrees. If the ambient temperature is lower and the spark plug functions normally, cancellation of the stove ignition may occur. If this happens, you should switch off the stove by pressing the button 4. Than take remove and empty the cast burner where the pellets fall and combust. Return the cast burner to its position in the stove and once again start (restart) the stove by pressing button 4 for few seconds.

• **In order to change the set ambient temperature** (this is the desired temperature of the room where the stove is located), at any moment press the button 3 and use the buttons 2 and 1 to adjust the temperature indicated on the lower display. When the button 3 is pressed, the lower part of the control board indicates the set ambient temperature (the one you would like to achieve).

• **In order to check the stove temperature**, press button 1. The lower display on the control board shows the temperature, while the upper display shows the number of rotations of the smoke suction motor.

• **Switching off of the stove** occurs once you press button 4. The upper display shows the message OFF (switched off) and the flow of pellet fuel into the firebox is stopped. After cooling, the tangential fan switches off (stops working) and after 10 minutes from the moment of cooling, the suction device switches off as well. The switching off speed of the smoke suction device is a parameter which may be set only by an authorized repairman.

NOTE: Even when the stove is cold, switching off of the smoke suction device occurs after about 10 to 15 minutes.

For this reason DO NOT switch off the stove from the main switch (0-1) one the stove is switched off (OFF). Wait until the switching off cycle is finished, that is, after cooling of the stove as it is previously described.

8.3. PARAMETERS USED BY THE STOVE USER

(Press button 3 to access the parameters)

Every time when you press this button you may get one of the following parameters with the corresponding functions given here:

Use buttons 1 and 2 to change the value of the parameters

UT01: day in the week. Day 1 … Day 7 or OFF to show that the programming is switched off

UT02: change the current hours

UT03: change of minutes

UT04: button for access to technical parameters (reserved). **DO NOT TOUCH. THE PARAMETERS ARE FACTORY ADJUSTED AND RESERVED FOR EXPERTS AND TECHNICAL STAFF OF THE STOVE MANUFACTURER**.

UT05: change of the starting time (program 1) in stages of 10 minutes

UT06: change of the switching off time (program 1) in stages of 10 minutes

UT07: change of program 1, active / inactive, days in the week with the button 2 and going over through the days with button 1. Confirm and proceed with button 3.

UT08: change of the starting time (program 2) in stages of 10 minutes

UT09: change of the switching off time (program 2) in stages of 10 minutes

UT10: change program 2, active / inactive, days in the week with button 2 and going over through the days with button 1. Confirm and leave the parameters with button 3.

UT11: change of the starting time (program 3) in stages of 10 minutes

UT12: change of the switching off time (program 3) in stages of 10 minutes

UT13: change program 3, active / inactive, days in the week with the button 2 and going over through the days with button 1. Confirm and proceed with button 3.

UT14: change of the starting time (program 4) in stages of 10 minutes

UT15: change of the switching off time (program 4) in stages of 10 minutes

UT16: change program 4, active / inactive, days in the week with button 2 and going over through the days with button 1. Confirm and leave the parameters with button 3.

NOTE: In order to go to the next parameter, use the button 3 (adjustment), button 1 for increasing and button 2 for reduction.

NOTE: You can leave the program at any time by pressing button 4.

The stove programming enables that you program the starting and the switching off of the stove four time in one day, seven days in the week (with the day 1 that indicates the day when the first programming has been performed).

Setting the time

You can set the operation of the time and it can be seen on the lower red indicator of the keyboard. When you're programing the operation of the time, it functions also when the stove is not switched on since it is charged by a battery.

You must adjust the time if you want to program the stove operation, that is, if you want to program automatic switching on and switching off of the stove.

The procedure for adjustment of the time is the following:

Press the button 3 twice until the flickering message **UT01** appears.

At that moment, press the buttons 1 and 2 to adjust the day in the week (day 1 corresponds to Monday, continuing further to day 7 which corresponds to Sunday). Adjust the day when you make the adjustment of the time (for example, if it is Monday, set DAY1).

Than press the button SET once you set the day. The display shown a flickering message **UT02**. Now here you can set the time by using the buttons 1 and 2. After you press the button SET one more time (to confirm the inserted time), the flickering message UT03 appears and now you can change the minutes of the time again by using the buttons 1 and 2.

After setting the minutes, press the button SET once again to get the message **UT04** which corresponds to the programing of the technical parameters (use only authorized repairmen).

Once you have adjusted and confirmed the operation of the clock, the LED lamp 1 (left, up) on the keyboard will switch on and will stay on. Temporarily recontrol the accuracy of the clock and if it is disrupted you can adjust it once again according to the manner described above.

In order to come out of the program at any time, press once the button for switching off the stove (button 4) in duration of not less than 2 seconds.

Automatic starting and switching off of the stove

If you want automatic starting and switching off of the stove, the clock must be adjusted as described.

Once you've adjusted the clock and reached the parameter **UT04**, press SET once again to go to **UT05**. Now here you can select the time of starting for the program of the first automatic starting of the stove, again by using the buttons 1 and 2.

We would like to remind you that the stove starting and switching off can be programmed four times in one day, seven days in the week. The first cycle of starting/switching off takes place though the program 1, with presented parameters **UT05**, **UT06** and **UT07**. Another cycle of starting/switching off take place through the program 2 and it can be modified through the parameters **UT08**, **UT09** and **UT10**. The third program is performed with the parameters **UT11**, **UT12**, **UT13** and the fourth program is performed through the parameters **UT14**, **UT15** and **UT16**.)

Once you adjust the starting time for the first program, use the button SET to move to parameter **UT06**, where you can adjust the switching off time of the stove, again by using the buttons 1 and 2.

Once you confirm the selected switching off time by using the button SET, then you go to parameter **UT07**, where you determine, that is, you set the days in the week when the previously defined program of starting / switching off will be active, that is, when it will act.

Then the message "ON1" appears. This means than on day 1 (previously defined with the parameter **UT01**) the first program of starting/switching off will be active i.e. it will act at that moment. In order to switch off the automatic starting, switching off of the stove on that day, now press the button 2 and the display will show the message OFF1 (switched off programming for that day).

If instead of that you press the button 1, go to day 2 ("ON2") where in the same manner you can activate or switch off the first starting program with button 2.

Continue in the same manner to activate/deactivate the programs for the remaining days in the week.

After programing the starting/switching off of the stove operation for different days in the week, once again press the button SET in order to get access according to the sequence of parameters **UT08**, **UT09** and **UT10**, which represent the parameters for adjusting another program for starting/switching off the stove, which can be memorized.

In order to turn off, that is, to delete all weekly and daily programs for starting and switching off of the stove for program 2 (when there is no more flickering of the UT parameter), press the button SET until UT10 appears on the display, than select OFF from the given selection by pressing the buttons 1 or 2 for all 7 days, separately for each day.

If you want to turn off, that is, to delete the programmed starting and switching off of the stove of the program 1, you should press SET to get to UT07, for program 3 to get to UT13, for program 4 to get to UT16 and in the described manner as for program 2 (UT10) cancel all programs for starting and switching off of the stove for all days (everywhere it should be OFF-switched off).

8.4. ALARM MANAGEMENT

An alarm signal (meaning that the stove informs about the occurrence of a certain problem with a sound signal) appears in the following cases:

ORIGIN OF THE ALARM	PRIKAZ NA DISPLEJU
Probe for smoke temperature	ALARM SOND FUMI
Probe for smoke temperature	ALARM HOT TEMP
Failed ignition	ALARM ACC NO

Stoppage of stove operation	ALARM NO FIRE
Lack of power supply	ALARM NO RETE
Safety thermostat of the auger (spiral)	ALARM DEP NO
Thermostat for general safety	ALARM DEP NO
Pressure switch	ALARM DEP NO

In case of irregularities of the operation, the following procedure is activated:

1) The system for automatic pellet filling switches off
2) The smoke discharge fan operates with a full maximal capacity for maximum twenty minutes.

Before switching the stove once again, wait that it gets completely cold and then press the button „4"(on/off).

If the stove is not cold, the message „ **AttE**" is shown as in figure 8.8.

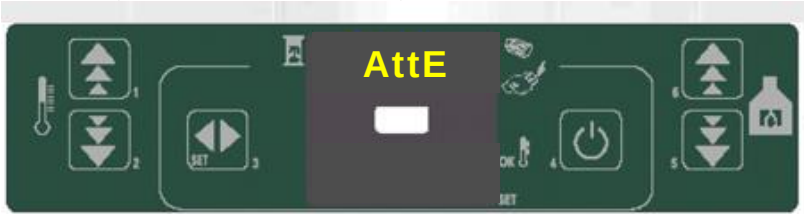


Figure 8.8

8.4.1. Alarm dEP no (pressure alarm – alarm of the pressure switch)

It occurs when irregularities occur related to:

The flue pipe hardly pulls which causes poor, insufficient pressure.

If the alarm continues occurring, check whether the stove or the chimney should be serviced.

The smoke pressure switch controls the negative pressure in the stove chamber due to improperly closed door or ash box, or due to some obstacles in the smoke outlet. In this case, the display shows the message **ALAr dEP no** (Figure 8.9), the smoke motor functions maximally and then it switches off after 10 minutes.

Figure 8.9

8.4.2. Alarm ALAr Sond (alarm of the probe for flue gases)

It appears when an error occurs in the smoke detection probe, when the probe is broken or it is not connected.

The stove begins the switching off procedure while the alarm is switched on.

Alarm of the smoke probe: if some malfunction occurs at the smoke probe, the display shows the message **"SOND FUMI ALAR"**, and in this case the fan and the smoke suction device function with full power.

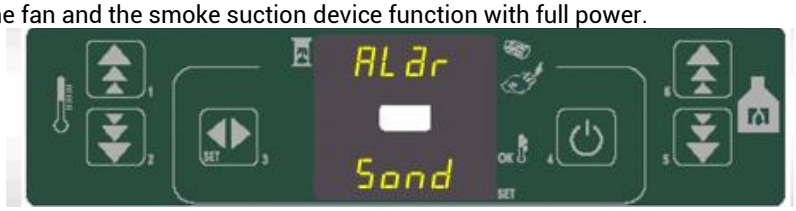


Figure 8.10

8.4.3. Alarm ALAr hot (alarm for excessive smoke temperature)

It occurs when the probe for flue gases indicates too high temperature (mote than 280ºC)

The stove begins the switching off procedure while the alarm if on.

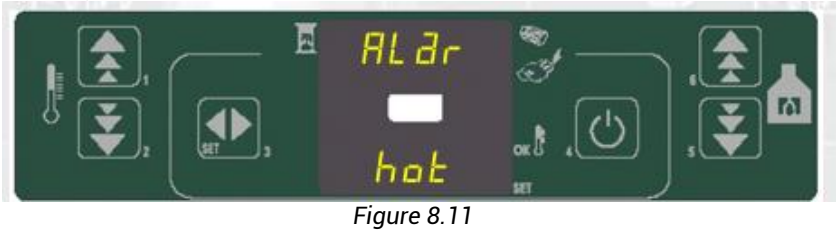


Figure 8.11

8.4.4. Alarm of the chamber:

This alarm appears when the temperature of the stove chamber is too high and then the message **"HOT TEMP ALAR"** appears. In order to prevent the occurrence of this alarm to certain temperature limits, the smoke suction device and the exchanger must function at their maximum, and the fuel pellets are minimally inserted. In order to return to normal operation, press the button 4, for 3 seconds until the boiler returns back to ON (switched on) state.

8.4.5. Alarm Alarm for overheating of the chamber or temperature of the snail distributor for pellet supply:

It occurs if the main safety thermostat from 80°C or 180°C reads a temperature higher than the allowed. The message „**ALAr dEP no**" appears (Figure 8.12) and the system stops. This alarm appears when the temperature of the chamber or the

temperature of the funnel for pellet inlet is too high, and in this case the following message appears **" ALAr dEP no "**. This is one additional safety mechanical device. In order to return to normal operation, you need to wait for the stove to get' cold (the fans for smoke and for cooling are in function). This cooling lasts about twenty minutes. Than restore the function of the safety thermostat that has blocked the stove operation (by unscrewing the plastic cover and manually press the thermostat button until a silent metal sound is heard) which is located in the lower back part, above the main switch (0-1) and then press the button 4 in a duration of 3 seconds until the stove returns back to it ON (switched on) position. The upper thermostat blocks the stove operation when the stove chamber heats at 180°C and the lower one when the case of snail transmission heats at 80°C.

NOTE: If one of these two last alarms is active, make sure that the chamber is not clogged with ash and that the flue is not partially clogged.

Figure 8.12

8.4.6. Alarm for failed ignition

It triggers when the ignition stage failed and the following message appears „**ALAr Acc no**" (Figure 8.13). The switching off procedure immediately activates.

Figure 8.13

8.4.7. Alarm for power outage

When the stove is switched on, a power outage stops the operation of the electrical devices on the stove. When the power supply returns, an alarm signalization occurs as shown in figure 8.14:

Figure 8.14

8.4.8. Alarm ALAr Fan (alarm for discharge fan)

If the smoke discharge fan does not function well, an alarm occurs – **ALAr FAn FaiL** (Figure 8.15).

The stove begins the procedure of switching off while the alarm is on.

Figure 8.15

8.4.9. ,,StoP FirE" (it is not an alarm)

StoP FirE" mode can be activated in adjusted intervals, during normal operation. Cleaning of the stove is performed.

A message „StoP FirE" is shown (Figure 8.16).

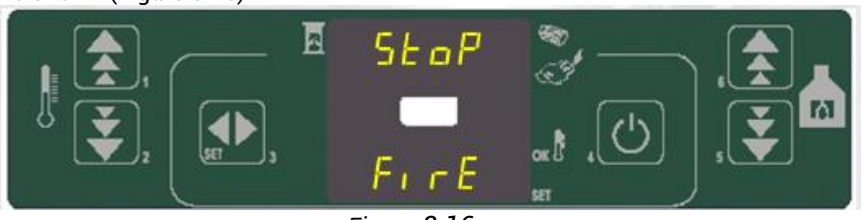


Figure 8.16

By pressing the button 4 you can delete, that is, remove a message from the display. The alarm signals are followed by a sound signal.

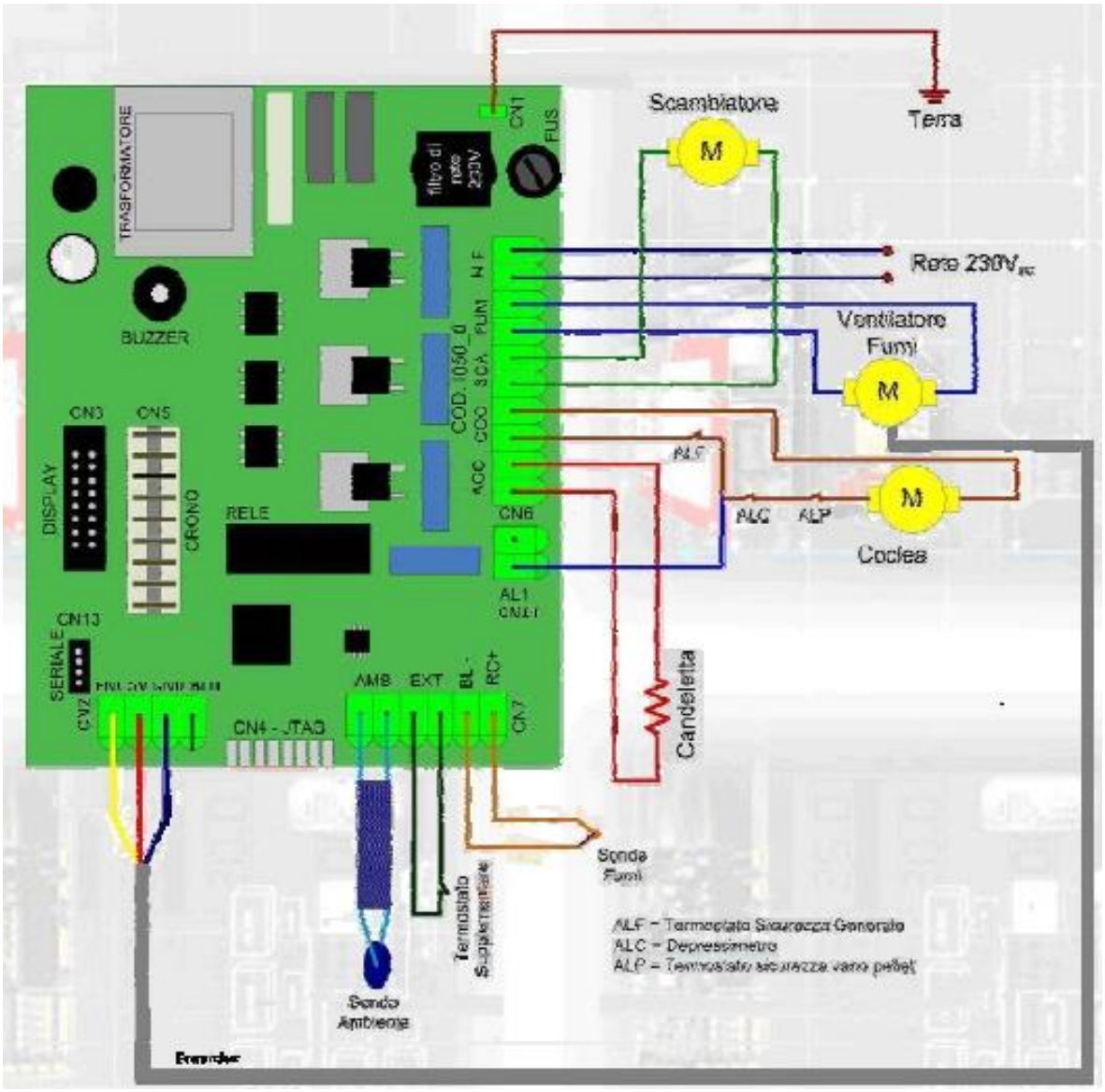


Figure 8.17. Electronic card

9. MAINTENANCE AND CLEANING

9.1. ROUTINE MAINTENANCE

The furnace will keep its heating and functional features over time with routine cleaning and maintenance.

⚠ **ATTENTION**: Cleaning procedures described below must be carried out only when the furnace is completely cold and disconnected from the power supply (the power cord is unplugged from the socket).

9.1.1. Cleaning the display and parts of external insulation

Cleaning should be done using a soft dry cloth without any detergents or chemicals.

9.1.2. Cleaning the ceramic glass

It should be done whenever necessary.

The frequency of cleaning the ceramic glass depends on the quality and type of fuel, as well as on the way of using the furnace.

In order to thoroughly clean the ceramic glass, we recommend spraying a cloth with a small amount of proper detergent and using the cloth to remove the dirt.

Never spray detergent or any other liquid cleaner directly on the ceramic glass.

NEVER use abrasive sponges or similar products to clean the ceramic glass because they may cause irreparable damage.

⚠ **ATTENTION**: Make sure you close the door well each time after you open it to clean the ceramic glass.

9.1.3. Routine maintenance

These activities should be done daily, depending on conditions of use.

After a certain amount of time of using the furnace, the user can specify the appropriate frequency of cleaning and maintaining the furnace.

⚠ **ATTENTION**: Any cleaning activity must be carried out when the furnace is completely cold and disconnected from the power supply (with a cable unplugged from the socket).

Number of maintenance activities is increased in proportion to the intensity of use of the furnace.

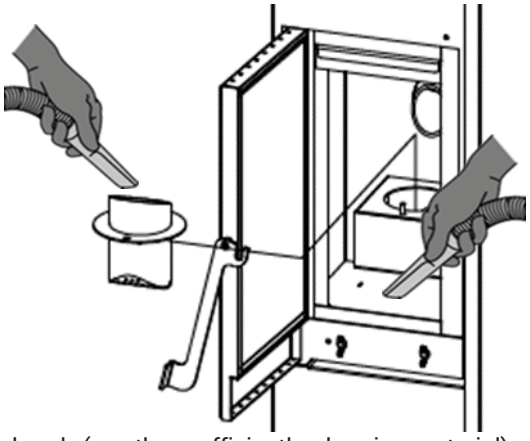
⚠ **ATTENTION**: Make sure that the ash is completely cold before you start cleaning the furnace. When you make sure the

ash is cold, you can clean it with a vacuum cleaner.

Periodic maintenance is carried out in accordance with the following procedure:

1. Slowly open the furnace door so that the accumulated ash doesn't splatter due to fast movement.

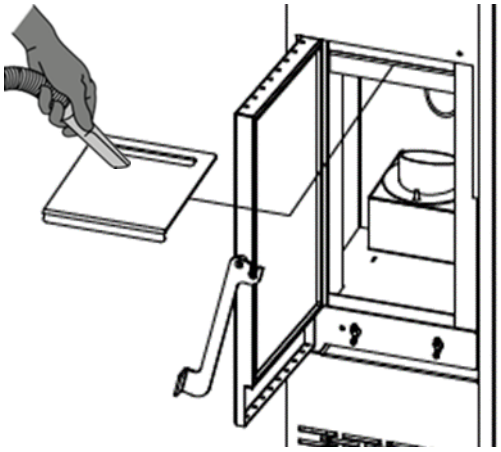
2. Remove the burner.



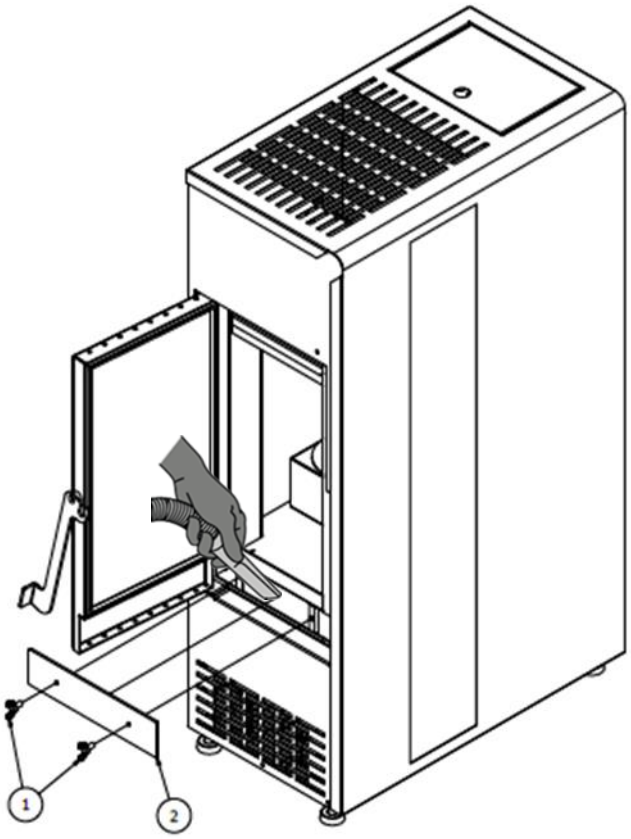
3. Using a vacuum cleaner and a wire brush (or other sufficiently abrasive material) clean the ash and other debris from the burner because this debris prevents the passage of air.

4. Using a vacuum cleaner of sufficient power (1000-1300W), remove all the ash accumulated in the combustion chamber, in the burner and at the door.
   After you've finished cleaning, re-assemble all the elements in reverse order from the order in which you removed them.

5. Once a week, remove the smoke regulator and clean it.



6. Once every three months, unscrew the two screws (1) and remove the cover (2), using a vacuum cleaner to remove all the ash that has accumulated under the combustion chamber. After you have finished cleaning, reassemble all the elements in the reverse order of removal.



9.1.4. Cleaning the exhaust duct

It is recommended that you regularly clean the smoke pipe and stovepipe.

These cleaning activities should be performed at least once a year, or more frequently if the appliance is used on a daily basis, or if the characteristics of the fuel used differ from the characteristics listed in section 4.

It is recommended that these cleaning activities are done by professional staff; ask a dealer for their contact details. The intervention of an authorized person can be an effective and economical way to protect the system from corrosion and to ensure its efficient operation.

For homes that are not inhabited throughout the year it is recommended to check the stovepipe and funnel at the beginning of the heating season, even if they are already cleaned, to make sure that there are no obstacles, such as bee nests, bird nests or other similar elements..

9.2. PUTTING THE FURNACE OUT OF USE

It is recommended to leave the stove to burn all the wood pellets from the tank before you start with routine and special maintenance and putting the furnace out of service at the end of the heating season.

⚠ **ATTENTION**: When it's not heating season, the power cable of the furnace must be unplugged from the socket.

Alfa plam company assumes no responsibility for any errors in this manual and is free to amend the characteristics of its products without prior notification to customers.