

MANUAL for INSTALLATION and OPERATION of SOLARA 6 kW



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Dear buyer, we thank you for choosing this product.

This product is made with attention to all materials used and technologies employed. It was designed to satisfy your needs for a functional and safe product.

By using this instruction manual you will learn how to use your pellet-burning pellet stove properly; please read it carefully before use.

This product is manufactured in accordance to the following standards:

-89/106 CEE (CPD) production materials

-73/23 CEE (LVD) electrical safety

-2004/108 CEE (EMC) electromagnet compatibility

and norms:

-EN14785; 2006

1.0. PRECAUTIONS AND SAFETY

The pellet stoves are designed to provide maximum safety and ease of operation. However it is necessary to observe the following safety guidelines to ensure an accident-free operation.

1. It is recommended that the authorized maintenance staff should make sure not to leave bare parts of the wires not completely inserted into the connectors, so that no live parts of the wires may contact other objects.
2. The installation should be performed by specially trained staff authorized by the manufacturer; after its completion, the staff is obliged to give to the end user a statement which states that the pellet stove is connected according to all applicable standards and that the staff takes over the complete responsibility for its installation.
3. It is important to observe all applicable national laws of the country where the product is to be installed.
4. The manufacturer does not bear any responsibility if the above stated obligations are not observed.
5. The Instruction manual is an inseparable part of the product. In case the Instruction manual is missing or lost, the end user should have it provided by the seller.
6. This pellet stove should be used only for the purpose it is intended for.
7. The manufacturer does not bear any responsibility for damages suffered by people, animals or objects caused due to installation errors or improper use.
8. After removing the packaging, the user should check whether all the parts are in place and if any part is missing, the user should have the seller provide the missing parts.
9. Only original parts must be used for replacement of faulty ones. Please refer only to authorized service agents holding certificate for maintenance of equipment.
10. For proper operation of the product, it should be serviced once after consumption of 1800 kg certified pellets or once a year. The service should be performed by authorized staff. Otherwise, the warranty will become void.

For safety purposes, the following must be strictly observed:

- The pellet stove is not to be operated by children or disabled persons.
- It is forbidden to install the product in a toilet, damp spaces, such as laundry room, as well as to touch the pellet stove with wet hands or legs. A power supply socket with a ground terminal (safety socket) should be provided to power the appliance.
- It is forbidden to change or cancel the safety precautions without an authorization by a authorized technician.
- Do not pull, tear, burn the cables coming out from the product even if it is off.
- Do not leave the packaging close to children or disabled persons.
- During the normal operation of the product, the door should be closed at all times.
- Avoid direct contact with hot parts of the product.
- Check if there are difficulties while turning the product on after a long period of non- operation **(see chapter 6.0)**.
- The pellet stove is designed to work even in extreme weather conditions, however, in case of strong wind or frosty conditions, the safety systems might trigger on and shut the pellet stove off. In such case, the user should contact the authorized service. It is not advisable to disable or reset the safety devices on the user's discretion.

Fire extinguisher should be in reach in case of accidental occurrence of fire in the exhaust gas pipe.

2.0. TECHNICAL CHARACTERISTICS

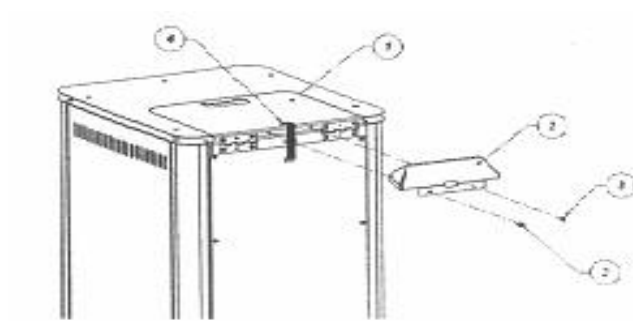
2.1 Accessories

Before the initial installation of the pellet stove, you should check whether all accessories are in place:

- Remote controller
- Control panel + screws for its mounting (in the reservoir for pellets)
- Documentation (warranty, instruction manual, service centers)

Important: Read carefully the whole documentation and keep it attentively.

2.2 Assembling the control panel



When you take the pellet stove out from its packaging, in the reservoir for pellets you will find the control panel (2) wrapped in a foil and M5 screws (3) mounted on back side of top, which are used for its assembling (1). Take the M5 screws out and attach the panel to the cover.

Important: When connecting the panel, be careful not to cut the cable

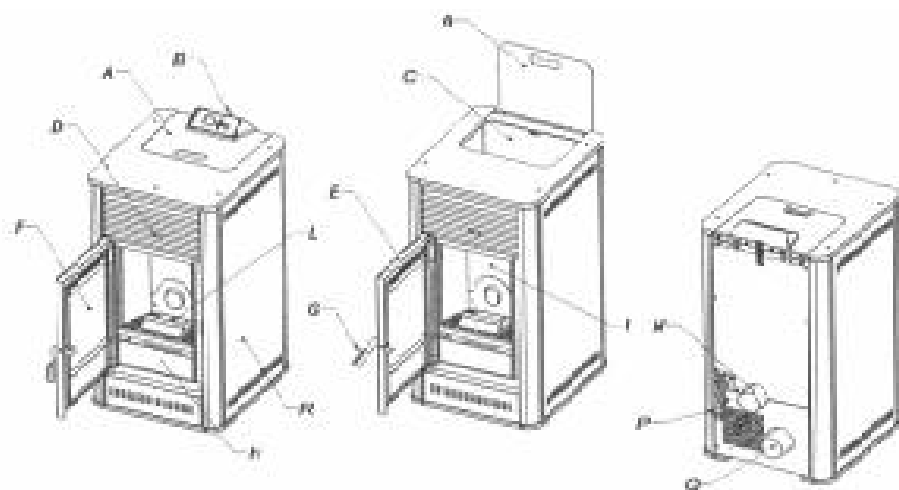
2.3 Technical description

The **SOLARA 6 kW** is designed for heating residence or office spaces, as well as an additional heating, at the same time contributing to the more pleasant ambience.

The hearth of the pellet stove is made of very thick cold-rolled metal sheet, as well as a supporting structure which is coated with high temperature and high quality powder -like color. The upper part, the lower part and the burner are made of a special metal sheet.

The inner part of the burner is coated with double metal sheet which guarantees higher thermal power of the stove.

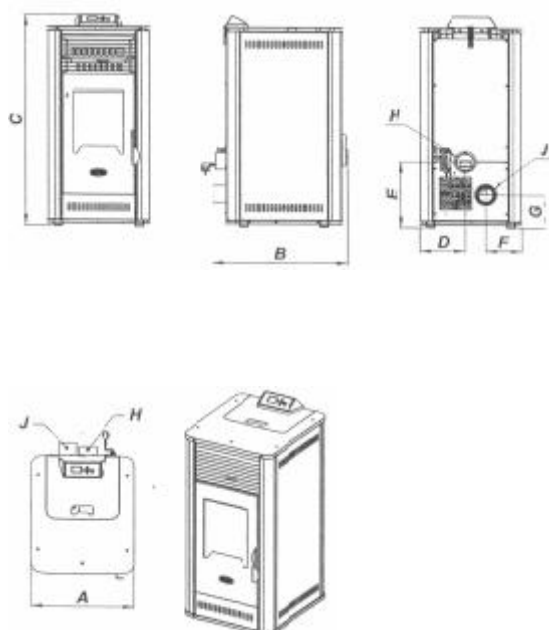
The burner has a door with ceramic glass which is heat resistant at a temperature of up to 700°C. By this solution we wanted you to see the fire inside the burner, at the same time avoiding contact with the dangerous sparkles and appearance of smoke. The door is hermetically closed.



Table

A RESERVOIR COVER	N ASH DRAWER
V CONTROL PANEL	I DOUBLE METAL SHEET OF THE BURNER
S PELLET RESERVOIR	L BURNER
D PIPE CLEANING LEVER	P ELECTRIC POWER SUPPLY SOCKET
F CERAMIC GLASS	R SIDE COLORED METAL SHEET
G OPENING LEVER	

2.4 Technical data and dimensions



Model of the pellet stove:	6 kW	
Height	mm	800
Width	mm	470
Depth	mm	500
Weight	kg	95
Diameter of air intake pipe	mm	80
Diameter of exhaust gas pipe	mm	80
Maximum heating (*) volume	m ³	130
Nominal thermal power (P _{tn})	kW	6
Decreased thermal power (P _{tr})	kW	1,8
Max. consumption per hour	kg/h	1,5
Min. consumption per hour	kg/h	0,4
Reservoir capacity	kg	12.5
Autonomy at nominal thermal power		x 7.7
Autonomy at decreased thermal power		x 25
Utilization at nominal thermal power		% 90
Utilization at decreased thermal power		% 85
Nominal electrical power	W	340
Nominal voltage	V	230
Nominal frequency	Hz	50

The above table is made on the basis of tests conducted using wooden pellets with caloric power of 18220 Kj/kg (equal to 4350 Kcal/kg)

(*) Value depending on the place of installation.

The above values are indicative, not obligatory. The manufacturer retains his right to change the values in every moment in order to improve the performance of the product.

3.0 INSTALLATION

3.1 General rules

Knowing that the proper assembly is very important, as well as the proper connection of the exhaust gas system and that the possible errors made during the assembly are not covered by the warranty of MANUFACTURER, our company advises the installation to be made after the following checks:

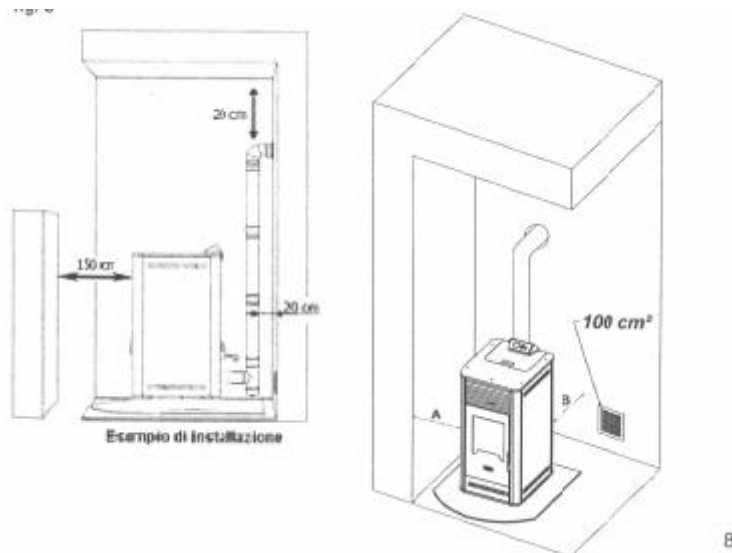
- Minimum volume of the space where the pelle stove is installed (avoid spaces smaller than 40m³);
- Provide good air flow;
- Observe all the norms;
- Proper operation of the exhaust gas system;

You should also observe the following legal normatives:

- Bans on installation
- The right to occupy a space

It is not allowed an installation of the pellet stove in bedrooms, toilets, and in spaces where already exists another heating body without sufficient air intake (pellet stove, stove etc.). It is not allowed the installation of the stove in spaces containing explosive materials.

The installation of the stove should be made in accordance to all practical knowledge. The space around the stove should be made of stone, cement or other fireproof material. The stove generates heat around the burner. Therefore, you should avoid contact of inflammable materials with the burner (alcohol, paper, plastics ...)



Minimal distance from the inflammable materials is 200 mm.

- If the floor is made of inflammable material (parquet ...) it should be adequately isolated.
 - The metal pipes intended for the gas exhaust should be at a distance of 1,5 m from inflammable materials.
 - We recommend that the stove should be installed as closer as possible to the exhaust gas system, always having maximum 3+1T curves and maximum 3 m of horizontal flow with minimal elevation of 3-5%.
- As soon as the place of installation is defined, remove the cardboard and the other protective material and check whether the door is properly closed.

3.2 CONNECTION OF THE OUTER AIR PIPE

For proper operation and proper distribution of the temperature, the pellet stove should have sufficient air intake and to be placed on suitable place (a special hole for air intake can be made).

The hole for air intake should be 100 cm² minimum and there should not be any obstacles.

The air may be also taken from another room which is constantly ventilated and in which there is no other pellet stove or other system which needs an air intake. That room can not be a bedroom, toilet, another space where there is a danger of fire, such as a garage, basement, warehouse containing inflammable materials.

If there is a pellet stove in the same room using gas from an open system or any other source of harmful gas, the air intake should be directly from outside.

AN EXAMPLE OF CONNECTION DIRECTLY FROM OUTSIDE

For the sake of proper operation of the pellet stove a direct connection from outside is possible, using metal pipe of 80 mm provided with silicon sealer. It is important that the front opening of the pipe is protected against wind, water or other, using a curve of 90° turned downwards.

Manufacturer does not bear any responsibility if the above indicated instructions are not observed.

For proper placement of the air intake you should observe the following distances: 1,5 m underneath, 1,5 m horizontally, 0,3 m from above the doors, windows 2,0 m from the exhaust gas system.

3.3 EXHAUST GAS SYSTEM

It is always important to know that the exhaust system is as important as the pellet stove.

The installation of the exhaust system should be performed by authorized persons. The authorized person should be guided by the following data:

		6 kW	
Draft of the pellet stove	Pa	12	
Mass of the combusted air	g/s	5.1	
CO measured for 13% oxygen	%	0.0193	
Temperature of the exhaust gases	C	160.7	

3.4 EXHAUST GASES AND INSTALLATION

The exhaust gas system operates as a result of depression which occurs in the combustion area. It is very important for the exhaust gas system, above marked as SIG, to be made of certified materials and:

- to be hermetically closed, meaning the system should be made of special pipes with adequate silicon sealer.
- to be able to operate under high pressure and under temperature ranging from 200-250°C (pipes with thickness not less than 1 mm is recommended).

If the pellet stove is connected to the existing system, the system should be checked by an authorized person.

The system can not be installed indoors. Periodical cleaning of the exhaust gas system is recommended.

3.6 USABLE PIPES

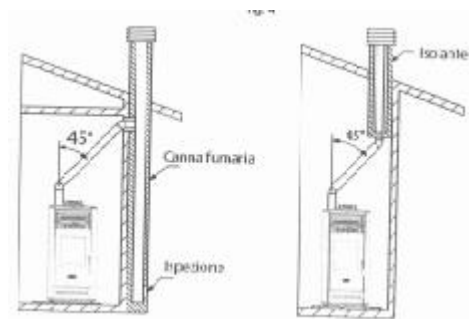
The pipes used for the exhaust gases should be resistant, smooth from inside, made of metal and to have silicon sealer. The diameter of the pipes up to 3 m long should be 80 mm or 100 mm for pipes longer than 3 m or over 1200 m height above sea level.

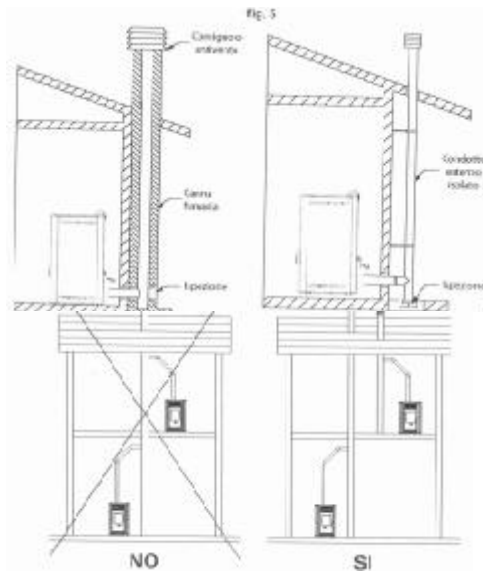
The length is calculated along the whole horizontal and vertical length, counting each curve of 90° as 1 m of length.

ATTENTION

Do not connect the system to the existing system or to the aspiration system.

3.6 INSTALLATION SCHEMES (optional)





3.7 REAR END OF THE EXHAUST GAS PIPE

The rear end of the exhaust gas pipe is intended for proper exhaust of the gases in the atmosphere, its protection against rain, snow or any other objects in order to guarantee excellent exhaust of the gases in windy conditions, as well.

The rear end of the exhaust gas pipe should meet the following requirements:

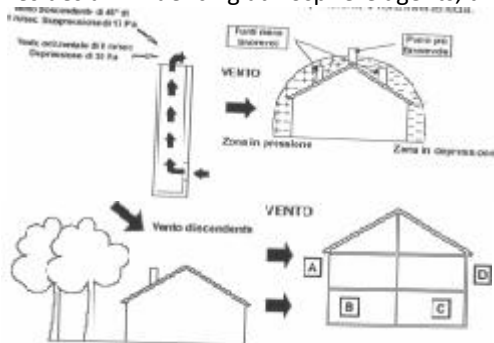
- the inner part should be the same as that of the pellet stove;
- the outer part should not be less than twice than the one of the pellet stove;
- the manufacture should protect the system against rain, snow and wind;
- easy disassembling for cleaning purposes;
- possibility for attractive finish which fits to the building.

The system should not have obstacles at a distance of less than 10 m, such as walls, trees. In such a case the system should end 1 m above the obstacles, and in case of other systems, 2 m from them, and in every case the system should be at least 1 m above the roof.



OPERATIONAL PROBLEMS DUE TO DEFECTS OF THE SYSTEM CAPACITY

Besides all influencing atmosphere agents, the wind is the most important agent for the system operation.



3.8 CONNECTION TO THE ELECTRICAL POWER SUPPLY

The product should be connected to the electrical power supply. Our pellet stoves are supplied with a medium temperature persistent cable. In case you need to replace the cable, call an authorized service agent. Before you connect to the electrical power supply, you should check the following:

- whether the characteristics of the electrical power supply meet the requirements indicated on the plate
- whether the connection is properly grounded
- the cable should not have temperature higher than 75°C.

In case of a direct connection to the electrical power supply, call an authorized person, an electrician. If you do not use the pellet stove for a longer time period, you should disconnect it from the electrical power supply. The connection should be easily accessible.

4.0 USAGE

4.1 SAFETY PRECAUTIONS

Taking into consideration that the pellet stove develops high temperature, the young and adult persons should be careful, and especially the children. It is forbidden to pour water or any other liquid which might cause temperature shock. Do not place inflammable objects near the pellet stove.

4.2 FUELS

The only fuel which is allowed for use by the Manufacturer pellet stove is **the wooden pellets**.

In order to guarantee combustion without problem, the pellets should be kept in a dry place. We recommend usage of high quality pellets, compact and not powder-like. Inform yourself at your pellet vendor, which pellets are the best. Keep the pellets on a distance from the pellet stove, not less than 1,5 m (see chapter 5.0).

ATTENTION

The pellet stove is manufactured and tested only by using certified pellets. The manufacturer does not take any responsibility if you use non-certified pellets.

4.3 TECHNICAL SPECIFICATIONS

All specifications are listed below.

Electrical power supply 230V, 50/60Hz, maximum consumption 13/20 mA.

Inputs:

Exhaust gas temperature – Type J

Outer thermostat - contact

Probe NTC temperature room – NTC 10 k

Outputs:

Exhaust gas aspirator – 230 V

Exchanger - 230 V

Low-range gear lever – 230 V

Heater - 230 V

Room specifications:

Operative temperature – from 0 to 60°C

Storage temperature – from -10 to 60°C

Maximum relative humidity – 95%

Mechanical specifications:

Dimensions 125 x 101 x 35 mm

Weight 250 g

4.4 INSTALLATION

All required cables and connectors are put into the pellet stove. The installation is quick and simple.

Before each assembling of the system, an automatic test of the system is performed for its proper operation.

When you turn on the product for the first time, you should do the following:

When you are sure that the assembly is properly done, it is possible to start initial turning on the pellet stove, which will allow its proper setting. The setting might be made either through the control panel or the software.

For normal operation of the stove it should be changed some parameter depend of the installation of the stove, different type pellet etc...For that purpose we explain which parameter what it means so you can easy understood work of the stove. To enter in parameters follow these steps:

Push **set** button once so you enter in **menu 01** after push button **5** until you get **setting technics** on display, than again **set** and here you should enter code to continue to upper level of menu. The code is **A9** and you will enter it with button **1**(when you push on display counts

1,2,3,4....99,A0,A1....A9),than push **set** again and you are in upper level. Now you choose **menu 6** settings factory M8-6 push **set** and you are now in parameters of the stove. Proceed to the table.

01	Minutes Time-out - Maximum time for a switch-on cycle	From 5' to 25'	20	
02	Minuti start - "Flame light" phase time	From 2' to 12	4	
03	Cleaning fire-pot - Interval of time between two grate cleanings	From 3' to 240'	60	
04	Auger Lights - ON time in the "Load Pellet" phase	From 0.1" to 8.0"	0.7	
05	Coclea Start - ON time in the "Flame light" phase	From 0.1" to 8.0"	0.8	
06	Coclea power 1 - ON time in working phase at power1	From 0.1" to 8.0"	1	
07	Coclea power 2 - ON time in working phase at power2	From 0.1" to 8.0"	1.2	
08	Coclea power 3 - ON time in working phase at power3	From 0.1" to 8.0"	1.4	
09	Coclea power 4 - ON time in working phase at power4	From 0.1" to 8.0"	1.6	
10	Coclea power 5 - ON time in working phase at power5	From 0.1" to 8.0"	1.9	
11	Delay Alarms - Delay in alarm signaling	From 20" to 90"	60	
12	Cleaning fire-pot - Duration of grate cleaning	From 0" to 120"	60	
13	Threshold minimum - Smoke temperature to consider the stove as lit	From 40°C to 180°C	40	
14	Threshol maximum – Maximum threshold for smoke temperature	From 110°C to 250°C	230	
15	Threshol blower - Smoke temperature to activated the exchanger	From 50°C to 210°C	70	
16	Exhaust en-start - Smoke suction during loading phase	From 500 to 2800	1900	
17	Exhaust engi-avv - Smoke suction during Fire present phase	From 500 to 2800	2100	
18	Exhaust engine 1 - Smoke suction in working phase at power 1	From 500 to 2800	1700	
19	Exhaust engine 2 - Smoke suction in working phase at power 2	From 500 to 2800	1750	
20	Exhaust engine 3 - Smoke suction in working phase at power 3	From 500 to 2800	1850	
21	Exhaust engine 4 - Smoke suction in working phase at power 4	From 500 to 2800	1950	
22	Exhaust engine 5 - Smoke suction in working phase at power 5	From 500 to 2800	2050	

23	Speed blower 1 - Exchanger in working phase at power 1	From 65V to 225V	160	
24	Speed blower 2 - Exchanger in working phase at power 2	From 65V to 225V	175	
25	Speed blower 3 - Exchanger in working phase at power 3	From 65V to 225V	185	
26	Speed blower 4 - Exchanger in working phase at power 4	From 65V to 225V	195	
27	Speed blower 5 - Exchanger in working phase at power 5	From 65V to 225V	205	
28	Hot Temp threshold – Threshold to consider the stove as off	From 50°C to 180°C	80	
29	Exh-spee cleaning – Smoke suction in the "Cleaning fire-pot" phase	From 700 to 2800	2600	
30	Auger cleaning – Hopper activation time	From 0.0" to 4.0"	1	
31	Encoder – Presence of encoder	off - on	on	
32	Time breaking – Hopper brake impulse	From 0.0" to 0.5"	0.2	

Except those parameter in some cases you should change other parameter that can affect to functionality of the of the stove ex. Difference off auto, preload lights etc.. and it is shown in table below **M8-4**

01	Halt restart Interval between switch off and relighting	From 0' to 10'	5	
02	Asp-min off Minimum time of smoke suction activation	From 0' to 20'	10	
03	PRELOAD LIGHTS Duration of pellet hopper preload	From 0" to 255"	60	
04	WAITING FIRE Interval between preload and start of "load pellet"	From 0" to 255"	120	
05	EXN-SPEE PRELOAD Smoke suction in "preload lights" phase	From 600 to 2800	1800	
06	Differen off auto Temperature delta in adjustment phase	From 0°C to 15°C	2	
07	Del- off auto Stand-by delay adjustment	From 0' to 120'	2	
08	Change output Waiting interval for power change	From 0" to 60"	20	
09	Enable remote	OFF/ON	ON	
10	FROZEN KEYBOARD Enablement of keypad lock	OFF/ON	OFF	
11	Black out	From 0" to 60"	15	

4.5 DISPLAY OF THE CONTROL PANEL

The control panel enables easy control over the system through the direct controls. The control panel and LED indicators inform the user on the operation which are running. You can change some operations of the system through the control panel.

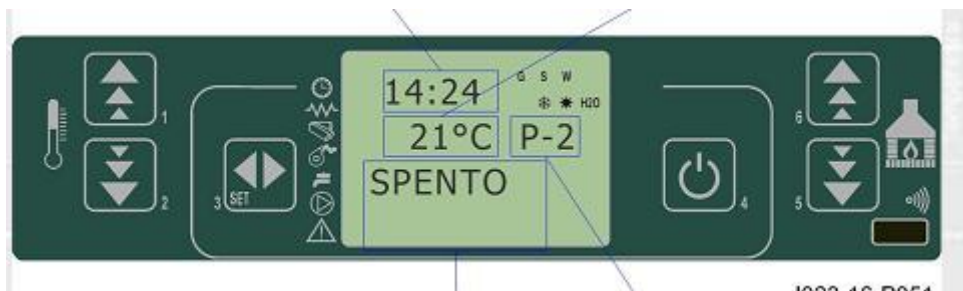
4.6 EXPLANATION OF THE CONTROL PANEL

The graphic explanation of the control panel is presented below

Operative working (user)

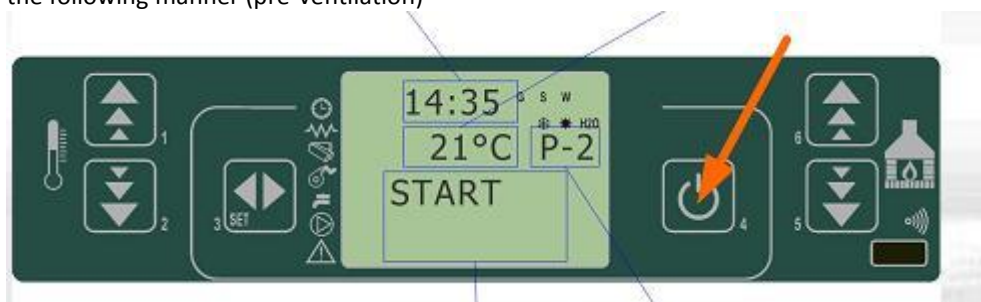
The operative working of the central line which is installed on your pellet stove is presented below. The technical programming is analyzed below.

Before you turn on the pellet stove, the following symbol (off) appears on the display



Turning on the pellet stove

In order to turn on the pellet stove, press P4 for few seconds. Turning on the pellet stove will be displayed in the following manner (pre-ventilation)



In this stadium the pellet stove is in the phase of pre-ventilation, the heater and the aspirator are turned on.

Pouring pellets

After around 90 sec starts the pouring of the pellets (pouring pellets)

During this phase the transportation system pours the pellets in the burner at a speed defined by the PR04 parameter. The activity of the transport system is indicated by LED ON. The heater remains on until the gas temperature exceeds the limit of the PR13 parameter.

Presence of fire

As soon as the gas temperature exceeds the limit of the PR13 parameter, the system is brought to the ignition phase. In this phase the temperature remains stable for a time period which is defined by the PR2 parameter (ignition).



Operation of the pellet stove

As soon as the gas temperature exceeds the limit of the PR13 parameter, and remains enough time in the PR2 parameter, the pellet stove is transferred in the normal operation phase. On the upper part of the display the strength is showed by P5, while on the lower part the room temperature (operation) is displayed

To see the temperature of the smoke, it is enough to press the P2 button (operation).

Changing the strength of the caloric power

During the normal operation you can change the strength of the caloric power using the P6 button to enter and (to increase) and P5 (to decrease). You can see the level on the upper part of display (operation).

Changing the room temperature

To change the room temperature it is enough to push button P1. By pressing the P1 button you enter in set room temp and P1 (to increase) and P2 (to decrease) you can change the value. After 3 sec the value is memorized and the display returns to normal operation (operation).



The room temperature reaches the desired temperature (SET temperature)

When the room temperature reaches the SET temperature, the strength of the pellet stove automatically returns to the minimal values. In such conditions the upper part of the display shows the message MODULATION (economic) and LED thermostat for the room is being activated (operation by reached SET)

Turning off the pellet stove

To turn off the pellet stove it is enough to press the P4 button couple of seconds. On the upper part of the display shows the message CLEANING FINAL and after cooling down OFF is shown.



Chronothermostat

The chronothermostat enables different programming of the turning on and off the pellet stove each day respectively.

What will happen if Pellets do not fall in

In that case the message NO FIRE appears.



Press the P4 button to return the pellet stove to standard condition.

There is no electric power supply for few seconds

If there is interruption in the electrical power supply, the pellet stove automatically returns to the previous phase. In some versions there is no such an option, and if it is so, see the explanation below.

There is no electrical power supply

If there is no electrical power supply long enough to lower the gas temperature below the values of the PR13 parameter, the pellet stove will show STOP FIRE. The speed of the aspirator fan is put to the maximum until it becomes cool and the alarm STOP FIRE is followed by NO FIRE.



5.0 PELLETS



Pellets represent a valid alternative to the traditional energetic heating sources. First of all, they do not pollute the environment because they are bio compact, the CO emission is equal to zero, or equal to the quantity one tree absorbs to product the same quantity of pellets. Pellets are totally natural product which entirely observe the living environment; they are produced from pure wood, throwing out the peel, without using colors.

No glue is used to put this product together. In essence, the compactness of the pellets is allowed by an ingredient which is found in the tree: LIGNITE.

Beside being an ecological fuel, completely burning out the wood, the pellets have technical advantages as well.

While the wood has an energetic power of 4,4 kW/kg (per 15% humidity, which means after storage of 18 months), the pellets have energetic power of 5,3 kW/kg.

The density of the pellets is 650 kg/m³, and the humidity is 8% of its weight and that is the reason why you do not need to store the pellets at all, but you can use them immediately.

The pellets should meet one of the following standards:

- O-Norm M 7135
- DIN plus 51731
- UNI CEN/TS 14961

Regarding its products, **manufacturer** recommends that you should always use **pellets with 6 mm diameter**. Length of 24-36 mm.

5.1 STORAGE OF PELLETS

For proper combustion, pellets should be stored in a dry place.

5.2 POURING THE PELLETS

INFORMATION AND ADVICES

Many of our clients ask how to recognize good pellets. Some of them say you should look at the color, if it is dark, the pellets are of good quality, and on the contrary, if their color is light, they are of poor quality. Some of them say that if the pellets smell bad, their quality is poor (because they are moldy), some of them say to burn a small quantity of pellets and if they leave a lot of ash, etc...

Of course, it is about opinions related to different urban legends, which might have a scientific meaning, but, the main parameter for high quality pellets is the humidity: the less humidity, the better quality. The color and the smell are of insignificant meaning. All kinds of pellets are produced from wood remainders and the color and the smell are changeable depending on the wood used.

Mainly, it could be said that when selecting quality pellets, you should take into consideration the following:

- Determine if the product meets one of the following European standards, -O-Norm M 7135, DIN plus 51731, UNI CEN/TS 14961.
- Check the color on the basis of the declared wood the pellets are made of
- Check if there are all necessary data on the packaging (energy power, place of origin etc.)
- Check if there is a lot of sawdust in the packaging, which would mean that the product is not compact, which results from a lot of humidity in the pellets. **The pellets should be smooth, compact and shiny.**
- Check the dimension of the pellets whether they match the dimensions declared on the packaging.

IMPORTANT

The usage of poor quality pellets may damage the functioning of your pellet stove, which means that you will lose your warranty.

6.0 CLEANING AND MAINTENANCE

Regular cleaning of the pellet stove and the exhaust gas system is important for its efficient operation.

ATTENTION

When cleaning the pellet stove, it is important to cool down the pellet stove and the exhaust gas system pipes. Do not use combustible cleaners.

6.1 CLEANING AND MAINTENANCE OF THE EXHAUST PIPE

The tar is a liquid which appears when the combustion is poor as a consequence of the low temperature in the pipe. In case of occurrence of tar, it is recommended that the pipe should be isolated well. Deposition of this

liquid may cause a fire. So, the exhaust gas system should be checked and cleaned at least once during the heating season.

ATTENTION

A clean system of exhaust gases is the guarantee for both the facility and the proper operation of Eco Spar products. It is important to clean the system on a regular basis. The exhaust gas system should be checked and cleaned when the pellet stove is turned on for the first time.

6.2 CLEANING AND MAINTENANCE OF THE PELLET STOVE

The cleaning and the maintenance of the pellet stove are important for its proper operation. The maintenance of the pellet stove should be performed on time, and the general cleaning is recommended to be performed after each use of 1800 kg pellets, and at least once a year.

A list of the most important inspections which should the service centre make when it performs a general inspection of the pellet stove:

- Cleaning of the aspirator and the fan;
- Cleaning of all unreachable places of the burner;
- Inspection of all bars;
- Inspection of the ignition system and the system for pouring the pellets;
- Inspection and possible replacement of the door rope;
- Disassembling and cleaning of the T junction of the exhaust gas system;
- Inspection of all electronic parameters;
- Issue of a certificate for the completed inspection.

ATTENTION

Do not clean the system until completely cooled down.

Periodical cleaning of the OUTER SURFACE, GLASS, DOOR ROPE, ASH DRAWER

Daily cleaning of the BURNER, EXCHANGER

Monthly cleaning of the RESERVOIR

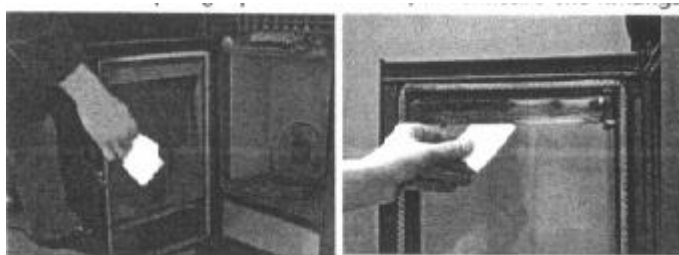
After the use of 1800 kg pellets, cleaning of ALL SYSTEMS OF EXHAUST GASES AND FRESH AIR.

OUTER SURFACE

Use soft cloth and neutral detergents.

GLASS

Glass is cleaned by itself during the operation of the pellet stove. However, it is possible, after few hours of operation the glass to become dirty on the inner side, depending on the quality of the pellets and the exhaust gas system. In that case use cotton cloth or magazine paper with a small quantity of detergent for glass cleaning. This cleaning should be performed only when the pellet stove is cooled down. After each cleaning check the glass if there is a distance of 2 mm between the glass and the upper edge (see figure).



DOOR ROPE

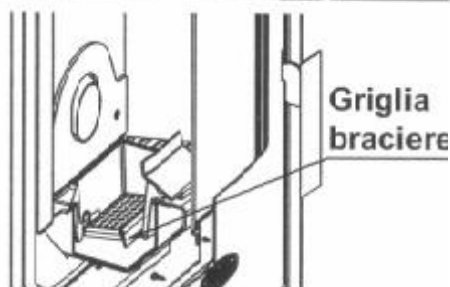
The rope guarantees airtightness of the door and proper operation of the pellet stove. It is good to check the rope and if damaged, to replace it. This operation should be performed by an authorized person.

ASH DRAWER

From time to time you should open the drawer and empty it. This operation is performed depending on the spent pellets and the quantity of ash.

BURNER

Clean the ash in the burner using a special vacuum cleaner. This operation should be performed **once a day**. Only when the burner is clean, the proper operation of the pellet stove is guaranteed. If, during the operation of the pellet stove, besides the pellets, there is sawdust, you should immediately clean the reservoir.



If it repeats after multiple cleaning, you should replace those pellets with better quality pellets.

If the holes of the burner are full of impurities, the burner should be opened and cleaned.

PELLET RESERVOIR

It is recommended to periodically clean the reservoir (at least once a month); firstly you should empty it and then clean it using a vacuum cleaner.

GAS SYSTEM

It is recommended to clean the general gas system once a year. To do it, it is necessary:

- to open the door, to take out the ash drawer and to unscrew the small cover.





After that, clean the system using a vacuum cleaner.

After cleaning, close the system.

FRESH AIR INTAKE SYSTEM

At the beginning of the heating season you should check the fresh air system, whether there is any obstacle in it.

EXHAUST GAS SYSTEM

At the beginning of the heating season you should clean the exhaust gas system.

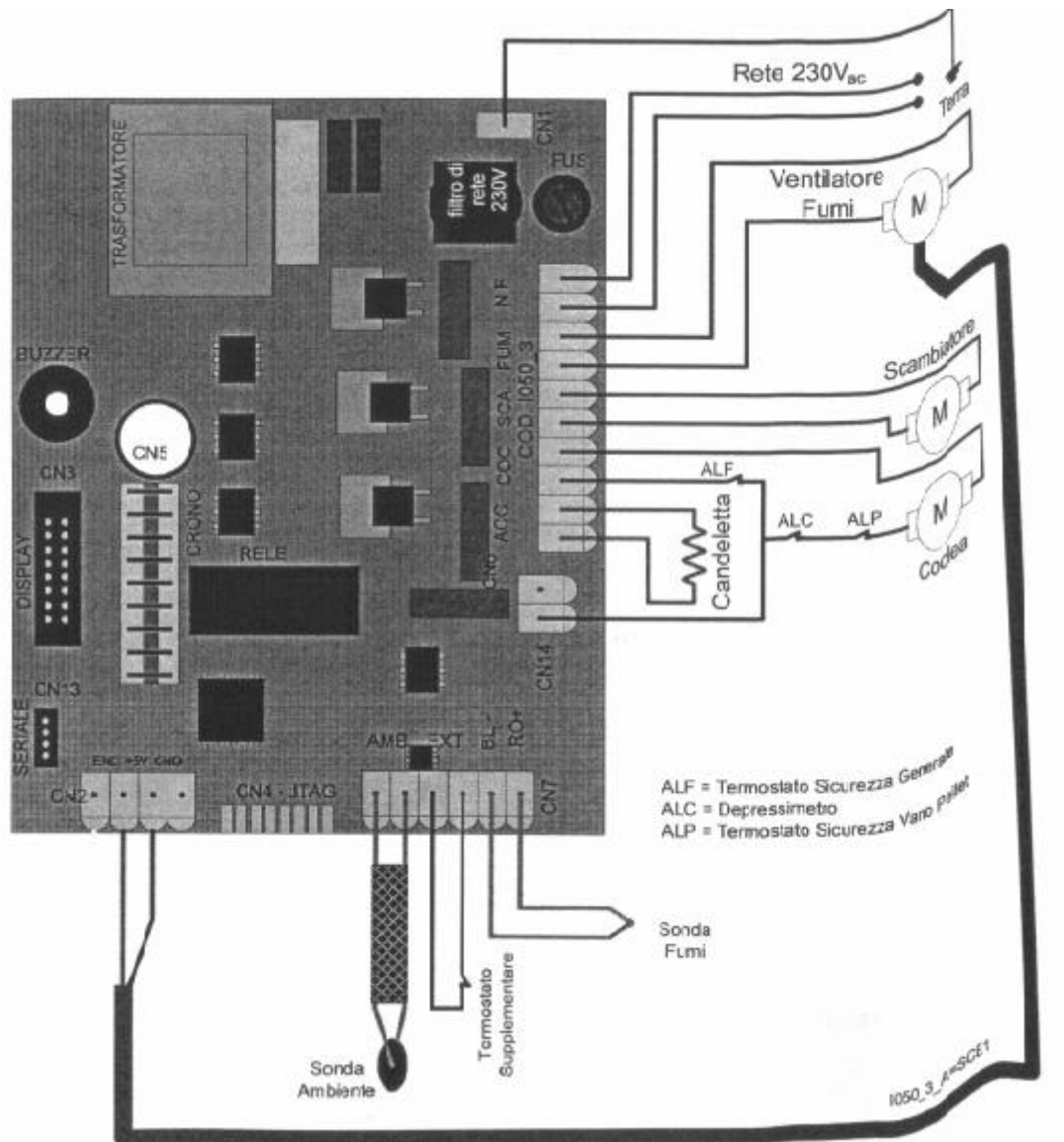
If the electrical cable is damaged, replace it.

IMPORTANT

For cleaning the colored surfaces, do not use cleansers containing acid.

7.0 Electric connection diagram

Figure of the main board



8.0 FAILURES / CAUSES / SOLUTIONS / ATTENTION

All repairs should be made by an authorized person

FAILURES	POSSIBLE CAUSES	SOLUTIONS

Pellets do not fall in the burner	There are no pellets in the reservoir	Fill the reservoir
	The spiral is blocked by sawdust	Unblock the spiral
	The low-range gear lever does not work	Replace the low-range gear lever
	The presostat does not work	Contact the service
The fire is going out and the stove does not work	The reservoir is empty	Fill the reservoir
	Pellets do not fall	See above
	The safety thermostat turns on	Turn off the stove and restart the thermostat. If the problem persists, call the service
	The door is not properly closed and the rope is damaged	Close the door and replace the rope
	Poor quality pellets	Replace the pellets
	Turning on the presostat	Check the presostat
The stove works for few minutes and goes off	Poor air intake	Check the pipe
	Exhaust gas system is blocked	Check the system
	The temperature probes do not work	Check and replace them
	Poor air intake	Check the pipe
The pellets pile up and the fire is poor	Insufficient air intake needed for combustion	Check the pipe
	Damp and inadequate pellets	Change the pellets and store them in a dry place
	The aspirator does not work	Check the aspirator

9.0 POST-SALE SUPPORT

When you buy the stove, please contact the nearest authorized service.

10.0 WARRANTY

The manufacturer guarantees for its product, except for the parts that normally wear out in a period of two years from the date of purchase of the stove, which will be proven by the fiscal receipt, the written warranty filled by the seller and the installation of the stove by an authorized person.

Constraints

The 2 year warranty period does not include all the electrical and electronic parts, as well as the fan for which the guarantee period is one year. The warranty does not include parts that normally wear out, such as: the rope, glass and all the removable parts of the burner.

Exclusions

The variations in the color of the colored parts, because they are natural features of the materials. We are not responsible of the consequences due to the improper use of the product or lack of attention, service, maintenance, poor installation.