



**CALÒR**



**CALÒR**

**PELLET STOVE  
INSTRUCTION MANUAL**

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# 1. Safety warnings

- Installation and connection must be carried out by qualified staff in compliance with local regulations, national and European standards (UNI 10683) and with the installation instructions contained herein. The electrical system of the room where the stove is to be installed must comply with current regulations.
- The combustion of waste, especially of plastic materials, damages the stove and the vent pipe. Moreover, it is forbidden by the law against the emission of harmful substances.
- Do not use alcohol, petrol or other highly inflammable liquids to light the fire or poke it during operation.

EVA CALOR stoves are manufactured in compliance with:

**89/106/EC** Directive (Construction products);

**2006/95/EC** Directive (Low voltage);

**2004/108/EC** Directive (Electromagnetic Compatibility).

The harmonised standards or the technical specifications (designations) applied according to the current European safety rules are:

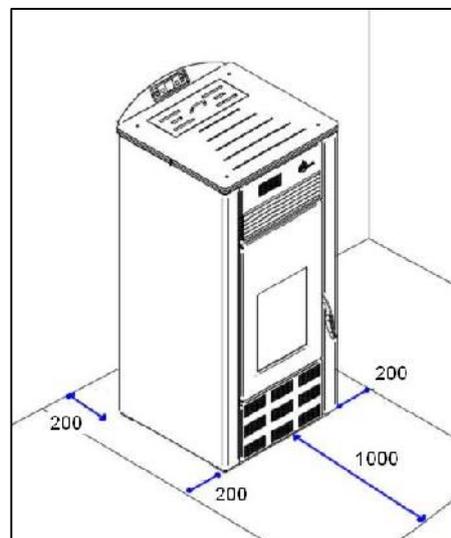
Standards or other reference rules		
EN 14785		
EN 60335-1	EN 60335-2-102	
EN 55014-1	EN 61 000-3-2	EN 61 000-3-
EN 55014-2		

## 2. Installation instructions

- Follow the instructions below before installing your stove.
- Select the position where the stove is to be installed and:
  - Arrange the connection to the vent pipe for fume extraction
  - Arrange the external air intake (combustion air)
  - Arrange the connection to the earthed mains
- The electrical system of the room where the stove is to be installed must be earthed, otherwise the control board may not work properly.
- Place the stove on the floor in a convenient position for the connection to the vent pipe and close to the combustion air intake.
- The appliance must be installed on a floor with an adequate loading-bearing capacity.  
Should the existing floor not comply with the requirement above, proper measures must be taken (for instance, the installation of a load distribution plate).
- All the structures which can catch fire if exposed to excessive heat must be protected. Floors made from wood or inflammable materials must be protected using non-combustible materials (e.g. 4mm-thick sheet metal or ceramic glass).
- The appliance installation must ensure easy access for cleaning the stove, exhaust pipes and vent pipe.
- This appliance is not suitable to be installed on a shared vent pipe.
- During normal operation, the stove draws air from the room where it is installed. Therefore, an external air intake must be positioned at the same height of the pipe located on the stove back. Exhaust fume pipes must be suitable for pellet stoves and therefore made from coated steel or stainless steel, with a diameter of 8cm and fitted with adequate gaskets.
- The combustion air intake ( $\Phi$  80mm) must be connected directly to the outside or to adjacent rooms provided they are fitted with external air supply vents ( $\Phi$  80mm) and are not used as bedrooms or bathrooms or, whenever a fire hazard exists, as storage rooms, garages, combustible material warehouses, etc. The air vents must be placed in such a way that they cannot be clogged either from the outside or inside and must be protected using a grille, a metal mesh or other suitable means provided they do not reduce the minimum section.

- If the stove is to be installed in rooms where it is surrounded by combustible materials (e.g. furniture, wood wood cladding, etc.), the following minimum clearances must be respected:

from the rear wall: 200mm  
 from side walls: 200 mm  
 front: 1000 mm

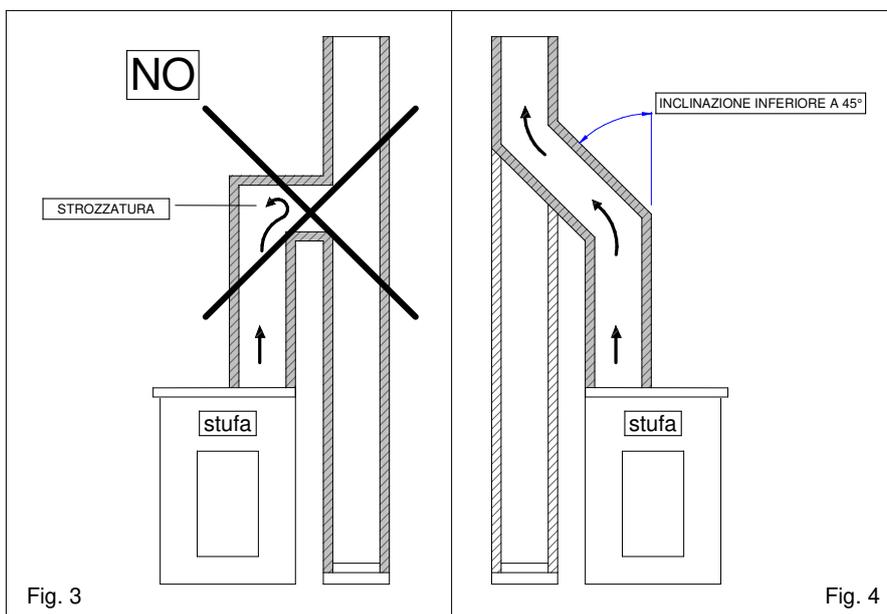


- Besides respecting the minimum clearances set above, we also recommend installing heat-resistant fireproof insulating panels (rock wool, cellular concrete, etc.).
- When working the stove may create a negative pressure inside the room where it is installed. Therefore, it is not possible to have more than one open flame appliance installed in the same room (the type “C” boilers (room sealed) are the only exception admitted).
- Make sure that the stove can draw the necessary quantity of combustion air from an open space (i.e. a space without exhaust blowers or providing adequate ventilation) or directly from outside.
- Do not install the stove in bedrooms.

### 3. Vent pipe

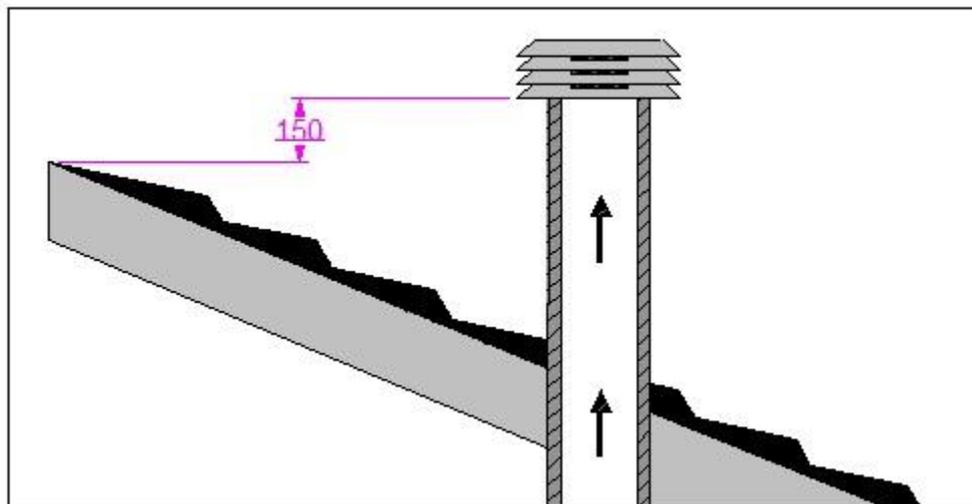
The vent pipe is one of the key features for guaranteeing the proper functioning of the stove. Thanks to the quality of the materials, the strength, the durability, the easy cleaning and maintenance, the best vent pipes are made of steel, either stainless steel or aluminised.

- The stove is fitted with a  $\Phi$  80mm rear round fume outlet and a joint connection to be connected to the vent pipe.
- Use telescopic joint connections to facilitate connection to the steel rigid vent pipe and counterbalance the thermal expansion of both the firebox and the vent pipe.
- Seal the vent pipe joint connection with high temperature silicone sealant (1,000°C). Should the existing flue opening not be perfectly perpendicular to the firebox fume outlet, use an elbow to connect them. Inclination must never exceed 45°, with respect to the vertical axis. No constrictions.
- Use 10cm-thick insulating thimbles if pipe vent passes through floors.
- The vent pipe must be insulated along its entire length. Thanks to the vent pipe insulation fume temperature will remain high optimising draught, preventing condensation and reducing build-up of barely ignited particles along the vent pipe walls. Use proper insulating materials (glass wool, ceramic fibre, Class A1 non-combustible materials).
- Install a vent pipe with a minimum vertical run of 2 mt to guarantee proper draught.
- The vent pipe must be weather-proof and as linear as possible.



## 4. Chimney cowl

A properly installed chimney cowl ensures optimum stove functioning. The anti-downdraught chimney cowl consists of a number of components whose outlet section sum always doubles the vent pipe section. Make sure the chimney cowl is at least 150cm above the roof top so that it is fully exposed to the wind.



## 5. Draught

Fumes heat up during combustion, increasing their volume. Their density is therefore lower than the one of the surrounding colder air.

This difference between the inside and outside temperatures of the chimney results in a negative pressure which increases proportionally to the vent pipe length and the temperature.

The draught must be stronger than the fume circulation resistance so that all exhaust fumes generated during combustion inside the stove are drawn upwards through the outlet and the vent pipe. Many weather conditions affect the vent pipe functioning, such as rain, fog, snow, altitude, and wind being the most important since it can create both negative pressure and dynamic loading.

The wind action varies depending on whether it is ascending, descending or horizontal.

- Ascending wind always results in an increased negative pressure and draught.
- Horizontal wind results in an increased negative pressure as long as the chimney cowl was properly installed.
- Descending wind always diminishes the negative pressure, sometimes inverting it.

Excess draught causes an increase in the combustion temperature and consequently a loss in stove efficiency.

A part of the combustion fumes are drawn up through the vent pipe together with small pellet particles before combustion reducing stove efficiency, increasing fuel consumption and resulting in the emission of polluting fumes.

At the same time the high fuel temperature, due to an excess amount of oxygen, wears down the combustion chamber sooner than expected.

On the other hand, poor draught slows down combustion resulting in a decrease in the stove temperature, fume spillage inside the room, a loss of stove efficiency and dangerous build-up in the vent pipe.

## 6. Stove efficiency

Highly efficient stoves may pose difficulties for fume extraction.

In order for a vent pipe to work properly its internal temperature must increase as a consequence of the fumes generated during combustion.

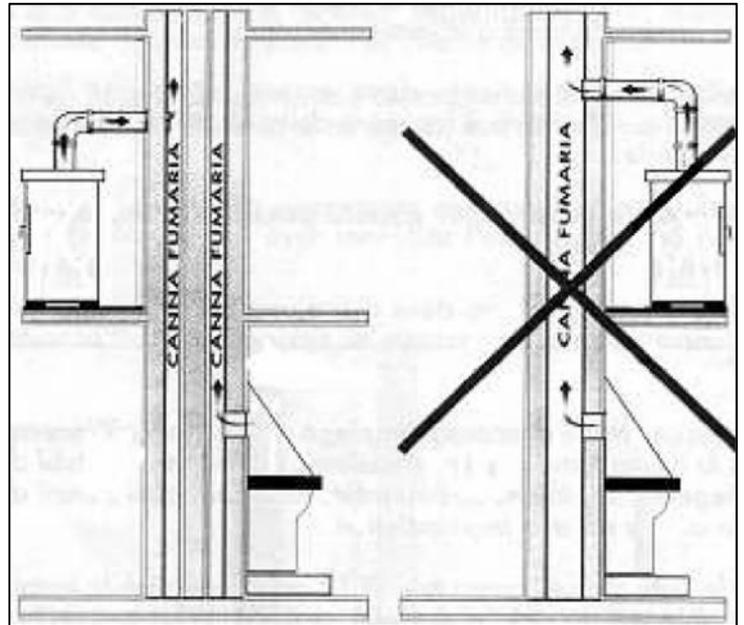
The stove efficiency instead depends on its capacity to deliver most of the generated heat to the surrounding environment. As a consequence the more efficient the stove, the colder the combustion exhaust fumes, resulting in a reduced draught.

A traditional chimney flue, with a rough design and insulation, is more efficient if used with a traditional open fireplace or a poor quality stove where most of the heat is lost with the fumes.

Therefore, purchasing a quality stove often entails modifying the existing chimney flue to obtain a better insulation, even when it already works properly with old appliances.

Poor draught results in the stove not operating when hot or in smoke spillage.

- Connecting the stove pipe to an existing chimney flue that has already been used with an old appliance is a common mistake. In this way two solid-fuel appliances share the same chimney flue, which is wrong and dangerous.
- If the two appliances are used simultaneously, the fume load might exceed the existing chimney flue capacity resulting in downdraught. If only one appliance is used, the fume heat will facilitate draught but the cold air coming from the other appliance not in use will cool down exhaust fume temperature again blocking the draught.
- Besides the problems described so far, if the two appliances are placed on different levels the communicating vessel principle might be interfered with, causing combustion fumes to be drawn in an irregular and unforeseeable way.



## 7. General safety precautions

- Use the stove only as described in this manual. Any other use not recommended by the manufacturer may cause fires or accidents to people.
  - Make sure that the electrical power available corresponds to the value indicated in the data plate (220V~/50Hz).
  - This appliance is not a toy. Make sure children are not left unattended and do not use the appliance as a toy.
  - This device is not intended for use by persons (including children) with reduced physical or mental capacity, or without specific experience and knowledge, unless supervised or duly instructed on the use of the appliance by a person responsible for their safety.
  - Disconnect the appliance from the mains when not in use or during cleaning operations.
  - To do so, turn the switch to the O position and disconnect the plug from the socket. Pull the plug, not the cable.
  - Never block the combustion air inlets and fume outlets.
  - Since the stove is fitted with electrical components, do not touch it with wet hands.
  - **Do not use the appliance in case of damaged cables or plugs. This appliance can be classified as Y type: power supply cable can be replaced only by qualified technicians. Should the power supply cable be damaged, it can be replaced only by the manufacturer or by its technical assistance service or by a similarly qualified person.**
  - Do not place any object on the cable and do not bend it.
  - Avoid using extension cables as their temperature may increase excessively posing fire hazards. Never use one single extension cable to power several appliances.
  - **During normal functioning some parts of the stove may become extremely hot, such as the door, the glass or the handle. Be careful, especially with children. Do not touch any hot parts if not wearing adequate protective devices. CAUTION!**
- DO NOT TOUCH the FIRE DOOR, the GLASS, the HANDLE or the FUME OUTLET DURING FUNCTIONING if not wearing adequate protective devices since they become extremely hot.**
- Keep inflammable materials, such as furniture, cushions, pillows, blankets, paper, clothing, curtains, etc., at least 1 m away from the stove front and 30 cm from the stove sides and back.
  - Do not immerse the cable, plug or any other appliance component in water or other liquids.
  - Do not use the stove in dusty environments or wherever inflammable vapours are generated (e.g. a workshop or a garage).
  - The stove being covered by or in direct contact with inflammable materials, including curtains, blankets, etc. during normal operation may result in a fire hazard. **KEEP THE APPLIANCE AWAY FROM THE MATERIALS MENTIONED ABOVE.**
  - The stove is fitted with components that generate arcs and sparks. Do not install the stove in areas posing a significant fire or explosion hazard due to a high chemical substance concentration or to a high humidity level.
  - Do not use the appliance close to bathtubs, showers, basins, sinks or swimming pools.
  - Do not install the appliance underneath an air vent. Do not install the stove outdoors.
  - Do not repair, disassemble or modify the appliance. The appliance is not fitted with components that can be repaired by users.
  - Turn off the stove, disconnect it from the mains and wait until it has cooled down completely before performing any maintenance operations.
- WARNING: DISCONNECT THE STOVE FROM THE MAINS BEFORE PERFORMING MAINTENANCE OPERATIONS.**
- CAUTION!**
- This EVA CALOR stove works exclusively with pellets. DO NOT USE ANY OTHER FUEL since it would damage the appliance and cause its malfunctioning.**

• **Store pellets in a cool and dry place. Storing pellets in a damp or too cold place may reduce the stove potential heat output. Be careful when storing and handling pellet bags to prevent pellet crushing and sawdust production.**

• **Clean the burn pot on a regular basis upon every ignition or pellet refuelling.**

- Open the firebox only upon refuelling or removal of residues to prevent fumes from escaping.
- Do not switch the stove on and off intermittently to avoid damaging its electrical and electronic components.
- Do not use the appliance as waste incinerator or for any other purpose other than the intended one.
- Do not use liquid fuels.
- Do not modify the appliance without prior authorisation.
- Use only original spare parts recommended by the manufacturer.
- The fuel consists of small cylinders with 6-7mm diameter and a maximum length of 30mm. Their maximum moisture content is equal to 8%. This stove is designed to burn pellets made of compacted sawdust obtained from different types of wood, in compliance with environment protection legislation.
- The use of different types of pellets may result in a slight, sometimes even undetectable, change in the stove efficiency. This change can be counterbalanced by increasing or decreasing the stove heat output by only one step.
- Make sure that the stove is transported in compliance with safety regulations. Avoid any improper transfers or knocks that may damage the ceramics or the structure.
- The metal structure is coated using high temperature paints. When switching on the stove for the first times, unpleasant odours may be emitted as the paint starts to harden on the metal parts. The fumes emitted are not harmful. Ventilate the room to evacuate them. After the first heating cycles, the paint will reach its maximum adhesion and all its chemical and physical features.
- The hopper can contain up to 15 kg of pellets. Open the lid and pour the pellets to load it, also during normal operation, making sure that no pellets fall out of it. Always refuel the hopper before leaving the operating stove unattended for long periods of time.
- Whenever the hopper and the Auger tube get completely empty, the appliance will be automatically switched off. It may take two separate ignitions to resume operation at ideal working conditions since the Auger tube is very long.

**CAUTION! If the stove is not properly installed, power outages may result in fume spillages.**

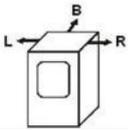
**Under specific circumstances, an uninterrupted power supply unit must be installed.**

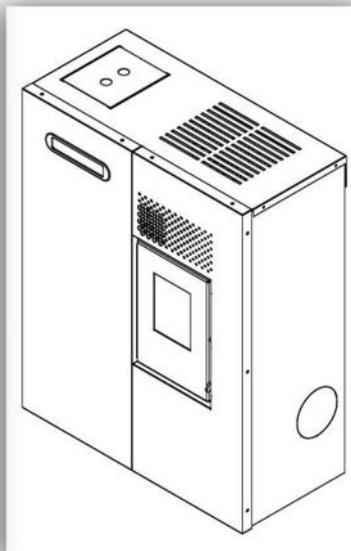
**CAUTION!** Being a heating appliance, some parts of the stove can become extremely hot. We therefore recommend paying special attention during operation.

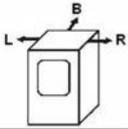
#### **WHEN THE STOVE IS WORKING:**

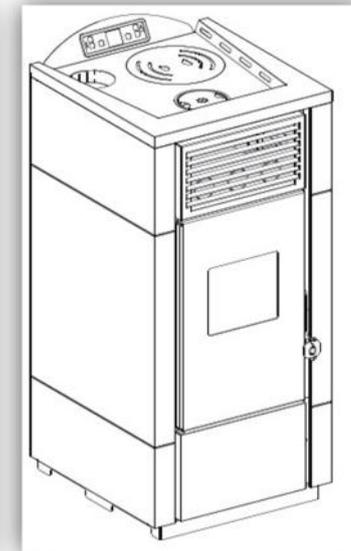
- do not open the door;
- do not touch the door glass since it becomes extremely hot;
- keep children away from it;
- do not touch the fume outlet;
- do not pour any liquid inside the firebox;
- do not perform any maintenance operations if the stove is not cold;
- only qualified technicians are allowed to perform any operation;
- follow all the instructions contained herein.

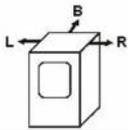
## 8.Data plates

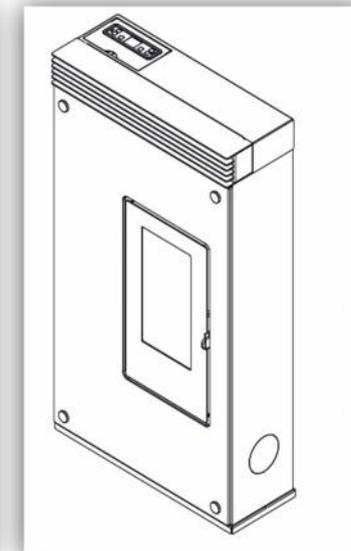
<b>CE</b> <sub>13</sub>		<b>Potenza Bruciata</b> massima : 5,3 kW minima : 2,0 kW
 Eva Stampaggi S.r.l.		<b>Potenza resa in riscaldamento</b> massima : 4,0 kW minima : 1,7 kW
<b>Modello: 5 kW</b>		<b>CO misurato (al 13% di ossigeno)</b> a potenza massima : 0,018 % a potenza minima : 0,020 %
<b>Norma: EN 14785: 2006</b>		<b>Rendimento</b> a potenza massima : 77,5 % a potenza minima : 82,5 %
 Distanza minima da materiali infiammabili: R= 300 mm B= 40 mm L= 300 mm		Tensione nominale : 230 V Frequenza nominale : 50 Hz Potenza nominale : 320 W
Leggere e seguire le istruzioni d'uso		Usare solo i combustibili raccomandati

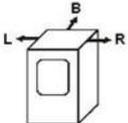


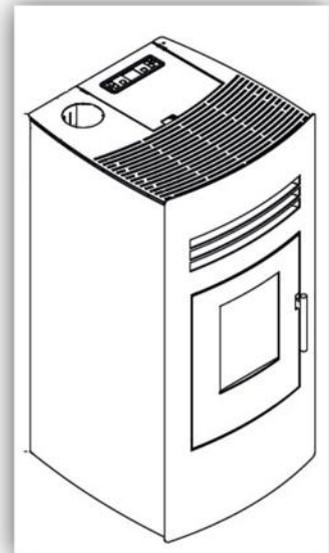
<b>CE</b> <sub>10</sub>		<b>Potenza Bruciata</b> massima : 7,00 kW minima : 3,5 kW
 Eva Stampaggi S.r.l.		<b>Potenza resa in riscaldamento</b> massima : 6,0 kW minima : 3,2 kW
<b>Modello: 7 kW</b>		<b>CO misurato (al 13% di ossigeno)</b> a potenza massima : 0,018 % a potenza minima : 0,040 %
<b>Norma: EN 14785: 2006</b>		<b>Rendimento</b> a potenza massima : 86 % a potenza minima : 91 %
 Distanza minima da materiali infiammabili: R= 300 mm B= 200 mm L= 300 mm		Tensione nominale : 230 V Frequenza nominale : 50 Hz Potenza nominale : 380 W
Leggere e seguire le istruzioni d'uso		Usare solo i combustibili raccomandati

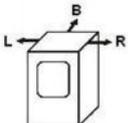


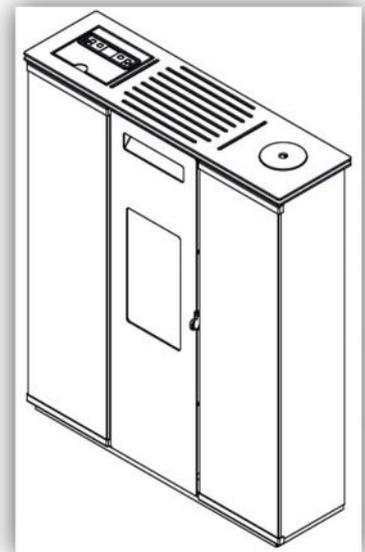
<b>CE</b> <sub>12</sub>		<b>Potenza Bruciata</b> massima : 7,50 kW minima : 3,4 kW
 Eva Stampaggi S.r.l.		<b>Potenza resa in riscaldamento</b> massima : 6,0 kW minima : 2,95 kW
<b>Modello: 7,5 kW</b>		<b>CO misurato (al 13% di ossigeno)</b> a potenza massima : 0,016 % a potenza minima : 0,023 %
<b>Norma: EN 14785: 2006</b>		<b>Rendimento</b> a potenza massima : 81,5 % a potenza minima : 86 %
 Distanza minima da materiali infiammabili: R= 300 mm B= 200 mm L= 300 mm		Tensione nominale : 230 V Frequenza nominale : 50 Hz Potenza nominale : 360 W
Leggere e seguire le istruzioni d'uso		Usare solo i combustibili raccomandati

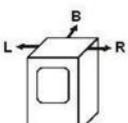


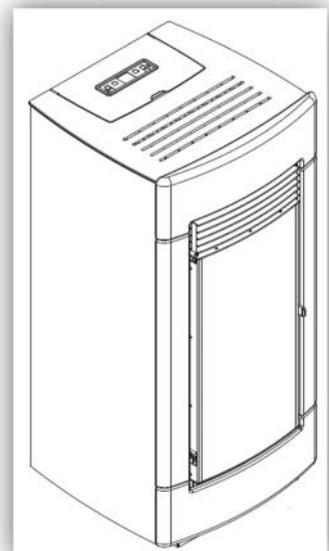
<b>CE</b> <sub>11</sub>		<b>Potenza Bruciata</b> massima : 9,7 kW minima : 3,5 kW
 Eva Stampaggi S.r.l.		<b>Potenza resa in riscaldamento</b> massima : 8,0 kW minima : 3,1 kW
<b>Modello: 9,5 kW</b>		<b>CO misurato (al 13% di ossigeno)</b> a potenza massima : 0,013 % a potenza minima : 0,047 %
<b>Norma: EN 14785: 2006</b>		<b>Rendimento</b> a potenza massima : 84 % a potenza minima : 87,5 %
 Distanza minima da materiali infiammabili: R= 300 mm B= 200 mm L= 300 mm		Tensione nominale : 230 V Frequenza nominale : 50 Hz Potenza nominale : 380 W
Leggere e seguire le istruzioni d'uso		Usare solo i combustibili raccomandati

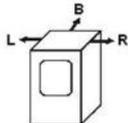


<b>CE</b> <sub>12</sub>		<b>Potenza Bruciata</b> massima : 10,7 kW minima : 3,6 kW
 Eva Stampaggi S.r.l.		<b>Potenza resa in riscaldamento</b> massima : 9,0 kW minima : 3,2 kW
<b>Tipo: SPVM-9</b>		<b>CO misurato (al 13% di ossigeno)</b> a potenza massima : 0,015 % a potenza minima : 0,048 %
<b>Modello: 11 kW</b>		<b>Rendimento</b> a potenza massima : 84 % a potenza minima : 89,5 %
<b>Norma: EN 14785: 2006</b>		Tensione nominale : 230 V Frequenza nominale : 50 Hz Potenza nominale : 350 W
 Distanza minima da materiali infiammabili: R= 300 mm B= 100 mm L= 300 mm		
Leggere e seguire le istruzioni d'uso		Usare solo i combustibili raccomandati

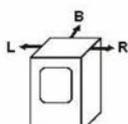


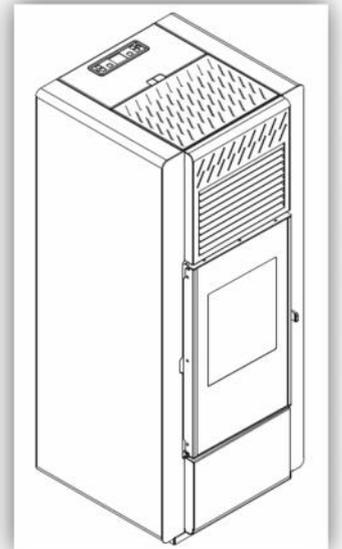
<b>CE</b> <sub>13</sub>		<b>Potenza Bruciata</b> massima : 12,9 kW minima : 4,0 kW
 Eva Stampaggi S.r.l.		<b>Potenza resa in riscaldamento</b> massima : 11 kW minima : 3,5 kW
<b>Tipo: SPV-M11</b>		<b>CO misurato (al 13% di ossigeno)</b> a potenza massima : 0,013 % a potenza minima : 0,049 %
<b>Modello: 13 kW</b>		<b>Rendimento</b> a potenza massima : 85 % a potenza minima : 87,5 %
<b>Norma: EN 14785: 2006</b>		Tensione nominale : 230 V Frequenza nominale : 50 Hz Potenza nominale : 320 W
 Distanza minima da materiali infiammabili: R= 300 mm B= 200 mm L= 300 mm		
Leggere e seguire le istruzioni d'uso		Usare solo i combustibili raccomandati



<b>CE</b> <sub>11</sub>		<b>Potenza Bruciata</b> massima : 14,5 kW minima : 5,9 kW
 Eva Stampaggi S.r.l.		<b>Potenza resa in riscaldamento</b> massima : 13 kW minima : 5,4 kW
<b>Modello: 14,5 kW</b>		<b>CO misurato (al 13% di ossigeno)</b> a potenza massima : 0,017 % a potenza minima : 0,026 %
<b>Norma: EN 14785: 2006</b>		<b>Rendimento</b> a potenza massima : 88 % a potenza minima : 89,5 %
 Distanza minima da materiali infiammabili: R= 300 mm B= 200 mm L= 300 mm		Tensione nominale : 230 V Frequenza nominale : 50 Hz Potenza nominale : 360 W
Leggere e seguire le istruzioni d'uso		Usare solo i combustibili raccomandati



<b>CE</b> <sub>13</sub>		<b>Potenza Bruciata</b> massima : 15,4 kW minima : 5,2 kW
 Eva Stampaggi S.r.l.		<b>Potenza resa in riscaldamento</b> massima : 13 kW minima : 4,6 kW
<b>Tipo: SPV-M13</b>		<b>CO misurato (al 13% di ossigeno)</b> a potenza massima : 0,012 % a potenza minima : 0,039 %
<b>Modello: 15 kW</b>		<b>Rendimento</b> a potenza massima : 85 % a potenza minima : 88,5 %
<b>Norma: EN 14785: 2006</b>		Tensione nominale : 230 V Frequenza nominale : 50 Hz Potenza nominale : 340 W
 Distanza minima da materiali infiammabili: R= 300 mm B= 200 mm L= 300 mm		
Leggere e seguire le istruzioni d'uso		Usare solo i combustibili raccomandati



# 9.Micronova electronics with LED display

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## 9.1. Proper functioning and control adjustment devices

First connect the stove plug to the mains and load the pellet hopper.  
Be careful not to empty the entire bag at once. Perform this operation slowly.



### 9.1.1 Panel description



**BUTTON 1 (P1) – Temperature increase:**

When in temperature setting mode, use this button to increase the thermostat value from a minimum of 6° C to a maximum of 41° C. The selected value appears on the lower display, while the upper display shows the message SET. When modifying user and technician parameters, use this button to increase the parameter value. The selected value appears on the lower display.

When in working mode, use this button to visualise the fume temperature on the lower display.



**BUTTON 2 (P2) - Temperature decrease:**

When in temperature setting mode, use this button to decrease the thermostat value from a maximum of 41° C to a minimum of 06° C. The selected value appears on the lower display, while the upper display shows the message SET.

When modifying user and technician parameters, use this button to decrease the parameter value. The selected value appears on the lower display.

When in working mode, use this button to visualise the time on the lower display.



**BUTTON 3 (P3) - Set/menu:**

Use this button to access temperature setting and user and technician parameter menu. Press P3 button repeatedly to cycle through all the parameters inside the menu. The upper display visualises the parameter label, while the lower display shows the relevant value.



**BUTTON 4 (P4) - ON/OFF Unlocking:**

Hold this button down for two seconds to manually switch the stove on or off respectively depending on its initial status (switched on or off).

In case any alarm has blocked the stove, press this button to unlock it and subsequently switch it off.

When setting user/technician parameters, use this button to exit the menu at any setting step.



**BUTTON 5 (P5) - Heat output decrease:**

When in working mode, use this button to decrease the heat output from 5, maximum value, to 1. The selected value appears on the upper display.



**BUTTON 6 (P6) - Heat output increase:**

When in working mode, use this button to increase the heat output from 1, minimum value, to 5. The selected value appears on the upper display.

**riS/ ECO – Temperature reached:**

When the required temperature is reached, the message riS/ ECO appears on the display. P5 and P6 buttons are disabled automatically. Change the set temperature to enable P5 and P6 buttons again and access the heat output setting.

## 9.2.LED indicators



### **Active Chrono LED (L1):**

The LED is on when the UT1 user parameter has a value different from OFF and the weekly or daily programming can be set.

### **Auger tube ON LED (L2):**

The LED is on whenever the Auger tube is enabled and the motor, feeding the pellets in the combustion chamber, is working, i.e. during START-UP and WORK mode.

### **Remote control receiver LED (L3):**

The LED flashes whenever the control panel receives a signal from the IR remote control to modify temperature/heat output.

### **Room thermostat LED (L4):**

The LED is on whenever the room temperature is higher than the set temperature (external thermostat not in use). If an external thermostat is available, the LED is on whenever the fume temperature exceeds 250°C.

### **Temperature setting LED (L5):**

The LED flashes when working in the user/technician menu or while setting the temperature.

## 9.3.The Displays



### **Status/Heat Output/Parameter label Display (D1):**

It shows the board status during start-up phase.

During working mode, it shows the heat output set by the user.

When modifying user/technician parameters, it shows the label of the parameter in question.

### **Status/Time/Temperature/Parameter value Display (D2):**

It shows the board status during start-up phase.

During working mode, it shows the temperature set by the user.

When modifying user/technician parameters, it shows the value of the parameter in question.

## 9.4 User functions

### 9.4.1 Stove switching on

Hold down  P4 for a few seconds to switch on the stove. The display shows that the stove is on.

The stove goes into the pre-ventilation/pre-heating phase for 90 seconds, then it enters the pre-load mode for the period of time indicated by Pr45 parameter. Meanwhile, the Auger tube rotates and continues to load pellets. At the end of the period of time set by Pr45 parameter, the system goes into the waiting phase whose duration is defined by Pr46 parameter. Then the loading phase begins at the speed set by Pr04 parameter. The Auger tube ON LED is on indicating that the Auger tube is working. The ignition plug switches off when fume temperature exceeds value under parameter PR13, increasing by a gradient of approx. 3 C°/ minute.

### 9.4.2 Pellet manual loading

Press  P5 and  P6 buttons simultaneously to load the pellets.

This function is available only when the stove is switched off and cold.

### 9.4.3 Fire on

Once fume temperature has reached and exceeded PR13 parameter value, the stove goes into the switching on mode: In this phase emperature stabilises for a period of time set by PR2 parameter. If problems occur during this phase, the stove stops and the following error message is displayed.

### 9.4.4 Working mode

Once fume temperature has reached and exceeded PR13 parameter value, maintaining it for the period of time set by PR02 parameter, the stove enters the normal working mode. The upper display shows the heat output set by means of  P5 and  P6 buttons, while lower display shows room temperature.

N.B.: you can jump directly to working mode by holding down  P6 button for approx. 2 seconds. Press P1  button to display fume temperature and exhaust blower speed.

### 9.4.5 Changing set heat output

When the stove is in working mode, the heat output can be changed by pressing  (decrease) buttons. The upper display shows the set heat output.  P6 (increase) and P5

### 9.4.6 Changing set room temperature

Press SET button  (P3) to change room temperature and visualise the set room temperature (temperature SET).

Press P1  and  P2 buttons to increase or decrease, respectively, the temperature value.

The new value is saved after approx. 3 seconds and the display goes back to normal.

Press P3 button  (SET) to visualise the set room temperature (set temperature). which remains on the display for about 2 seconds.

### 9.4.7 Stove switching off

Hold down P4  button for approx. 2 seconds to switch off the stove. "OFF" appears on the upper display, while the  lower display shows current time. Room temperature reaches the set value (SET temperature)

When the set room temperature value is reached, the stove heat output is automatically set to the minimum value. ECO (Economy) message appears on the upper display and the room thermostat LED switches on. The Auger tube motor stops and the exhaust blower speed increases. The exchanger blower remains on until the fume temperature reaches a value below the preset PR15 value. The exhaust blower switches off after approx. 10 minutes. Depending on the version, it may be necessary to wait the period of time set by Pr73 parameter before switching on the stove again. During the wait, P4 button is inactive and the following message appears asking users to wait until the end of the switching off phase.



The same happens whenever the fume temperature exceeds the maximum value set by Pr14 parameter. Once the temperature falls again within the set range, the stove goes back to the normal working mode.

### 9.4.8 Burn pot cleaning

When the stove is in the normal working mode, the “BURN POT CLEANING” mode is activated for the period set by Pr12 parameter at the intervals set by Pr03 parameter.

### 9.4.9 Programmable thermostat

The programmable thermostat function allows for the programming of the stove automatic switching on and off during the week.

Press P3 button twice to enter the programming mode. Press P3 button again to cycle through all the parameters available. Press instead P4 button to exit the programming at any time. The programmable thermostat parameters are listed below:



Parameter	Description	Available values
UT01	Current day setting and programmable thermostat enabling/disabling	Day1,...Day7; OFF;
UT02	Current time setting	from 00 to 11
UT03	Current time minute setting	From 00 to 60
UT04	ONLY FOR TECHNICIANS – DO NOT enter any setting	From 00 to P5
UT05	PROGRAMME 1 switching on time setting	From 00:00 to 11:50 pm by 10' steps
UT06	PROGRAMME 1 switching off time setting	From 00:00 to 11:50 pm by 10' steps
UT07	Day selection with stove switching on according to PROGRAMME 1	On/off for days from 1 to 7
UT08	PROGRAMME 2 switching on time setting	From 00:00 to 11:50 pm by 10' steps
UT09	PROGRAMME 2 switching off time setting	From 00:00 to 11:50 pm by 10' steps
UT10	Day selection with stove switching on according to PROGRAMME 2	On/off for days from 1 to 7

Some parameters are described in detail below:

D1 Display	Meaning
Day 1	Monday
Day 2	Tuesday
Day 3	Wednesday
Day 4	Thursday
Day 5	Friday
Day 6	Saturday
Day 7	Sunday
OFF	Programmable thermostat

UT01



Press P1 and P2 buttons to enable the programmable thermostat.

Then set the current week day. (Day 7 = Sunday).



Press P1 and P2 buttons and then select OFF to disable the programmable thermostat.

## PROGRAMME 1 SWITCHING ON/OFF (morning)

### UT05 –UT06

Set the PROGRAMME 1 stove switching on and off times by modifying these two parameters. Their value can be set if UT01 parameter is set to the daily or weekly mode.

### UT07

Set the days when PROGRAMME 1 (ON) is active and the days when IT IS NOT (OFF) by modifying UT07. This parameter is active when UT01 is set to the weekly mode.

Press P2 button  to select the day of the week and then enable (ON)/disable (OFF) stove switching on/off according to  PROGRAMME 1 by means of P1 button.

In the example below, the stove switches on only on Saturdays and Sundays according to PROGRAMME 1 (morning).

Day 1 Monday	Day 2 Tuesday	Day 3 Wednesday	Day 4 Thursday	Day 5 Friday	Day 6 Saturday	Day 7 Sunday
Off 1	Off 2	Off 3	Off 4	Off 5	On 6	On 7

## PROGRAMME 2 SWITCHING ON/OFF (afternoon)

### UT08 - UT9

Set the PROGRAMME 2 stove switching on and off times by modifying these two parameters. Their value can be set if UT01 parameter is set to the daily or weekly mode.

### UT10

Set the days when PROGRAMME 2 (ON) is active and the days when IT IS NOT (OFF) by modifying UT10. This parameter is active when UT01 is set to the weekly mode.

Press P2  button to select the day of the week and then enable (ON)/disable (OFF) stove switching on/off according to PROGRAMME 2 by means of P1  button

In the example below, the stove switches on in the afternoon only on working days.

Day 1 Monday	Day 2 Tuesday	Day 3 Wednesday	Day 4 Thursday	Day 5 Friday	Day 6 Saturday	Day 7 Sunday
On 1	On 2	On 3	On 4	On 5	Off 6	Off 7

## Example: TIMER PROGRAMMING

UT01 --- CURRENT DAY SETTING (DAY 7 = SUNDAY)

### PROGRAMME 1

UT05 --- 1<sup>st</sup> SWITCHING ON ( e.g. 07:00am)

UT06 --- 1<sup>st</sup> SWITCHING OFF TIME( e.g. 09:00am)

UT07 --- DAY CONFIRMATION( e.g. Day 1 -off / Day2-off/Day3-off/Day4-off/Day5-off/Day6-on/Day7-on )

### PROGRAMME 2

UT08 --- 2<sup>nd</sup> SWITCHING ON ( e.g. 06:00pm)

UT09 --- 2<sup>nd</sup> SWITCHING OFF TIME( e.g. 12:00am)

UT10 --- DAY CONFIRMATION( e.g. Day 1-on / Day2-on/Day3-on/Day4-on/Day5-on/Day6-off/Day7-off)

## 9.5.Alarms

The board is fitted with a control system that shows on the display where the failure occurred to inform the user in case of malfunctioning. Press P4  button to CLEAR the message on the display.

Alarm	Display shows
Fume temperature sensor	ALARM SOND FUMI
Fume overheating	ALARM HOT TEMP
Ignition failure	ALARM NO FIRE
Power outage	ALARM NO RETE
General safety thermostat	ALARM SIC
Clogged chimney	ALARM DEP

The meaning of these alarm messages is explained in detail below.

### 9.5.1 Fume temperature sensor alarm

The alarm is triggered when the fume temperature sensor is damaged or disconnected. The exhaust and exchanger blower speed is increased to its maximum value and the Auger motor is switched off, interrupting pellet loading. The blower remains on for approximately 10 minutes.

### 9.5.2 Fume overheating alarm

The alarm is triggered whenever the fume sensor detects a temperature exceeding 220°C. The message “alarm hot temp” appears on the display. The exhaust blower speed is increased to its maximum value and the Auger tube motor is switched off, interrupting pellet loading. The blower remains on for approximately 10 minutes.

### 9.5.3 Ignition failure alarm

The alarm is triggered at the second ignition failure, i.e. when the stove does not reach the required ignition temperature twice (a 3°C/ minute gradient is necessary). The message “alarm no fire” appears on the display. The stove enters the switching off phase which is completed in approximately 10 minutes, as with the other alarms described above.

### 9.5.4 Stove switching-off during working mode alarm

The alarm is triggered when the flame goes out and the fume temperature falls below the stove minimum working threshold. The message “alarm no fire” appears on the display and the stove switches off.

### 9.5.5 Negative pressure alarm

The alarm is triggered when the chimney or the fume outlet are clogged.

### 9.5.6 General safety thermostat alarm

If the general safety thermostat detects a value exceeding the trigger threshold, it immediately switches off the Auger tube (to which it is connected in series), while the control board acquires this change in status through the AL1 clamp in CN4. The message **ALARM SIC** is displayed.

Unscrew the black cap on the back of the stove and press the button to reset the contact.



# 10.Micronova electronics with LCD display

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# 10.1. Proper functioning and control adjustment devices

## 10.1.1 Control panel

The control panel shows the information concerning the stove status. Several types of data can be displayed and the settings available according to the access level can be modified by entering the menu. Depending on the selected mode and on their position on the display, the data visualised may acquire different meanings.

Figure 2 shows an example with the stove switched off or on.

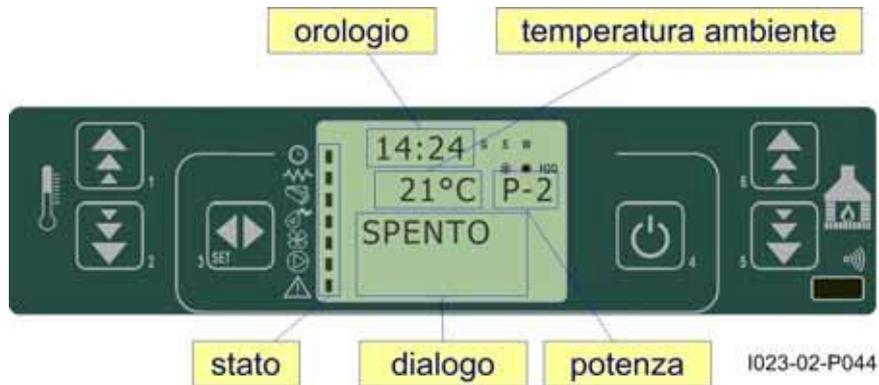


fig.2

Figure 3 describes the meaning of the status indicators appearing on the display left side. When one of the devices included in the list is activated, the relevant segment on the display status area switches on.



fig.3

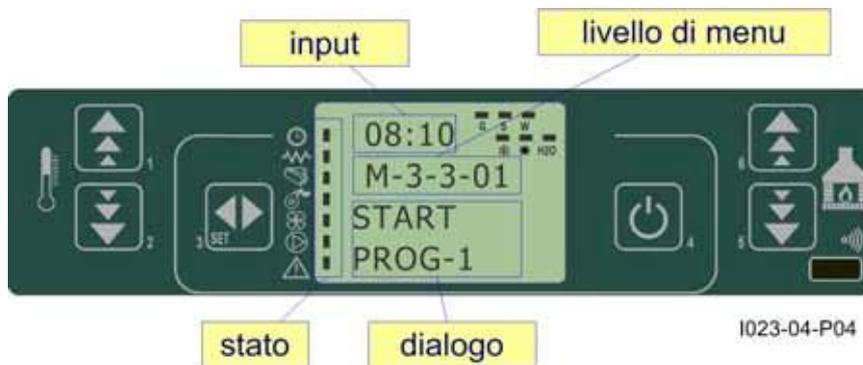


fig.4

Figure 4 describes the position of the messages visualised during working parameter programming or setting phase. In particular:

- 1.The input area shows the entered programming values
- 2.The menu level area displays the current menu level. See chapter dedicated to menu.

## 10.1.2 Panel description



**BUTTON 1 (P1) - Temperature increase:**

When in programming mode, use this button to modify/increase the selected menu value. When in working mode/switched off, use instead this button to increase the room thermostat temperature value.



**BUTTON 2 (P2) - Temperature decrease:**

When in programming mode, use this button to modify/decrease the selected menu value. When in working mode/switched off, use instead this button to decrease the room thermostat temperature value.



**BUTTON 3 (P3) - Set/menu:**

Use this button to access temperature setting and user and technician parameter menu. After entering the menu, use this button to access the next sub-menu or set the value and move to the next menu item when in programming mode.



**BUTTON 4 (P4) - ON/OFF Unlocking:**

Hold this button down for two seconds to manually switch the stove on or off respectively depending on its initial status (switched on or off).

Should have any alarm blocked the stove, press this button to unlock it and subsequently switch it off. After entering the menu or during the programming phase, use this button to access the upper menu level. Any change is automatically saved



**BUTTON 5 (P5) - Heat output decrease:**

When in working mode, use this button to decrease the heat output value.

In menu mode, use this button to move to the next menu item or, in programming mode, to go back to the subsequent sub-menu item. Any change is automatically saved.



**BUTTON 6 (P6) - Heat output increase:**

When in working mode, use this button to modify the exchanger speed. In menu mode, use this button to go back to the previous menu item or, in programming mode, to go back to the previous sub-menu item.

Any change is automatically saved.

## 10.2.Menu

Press P3 (MENU) button to access the menu.

It includes several items and levels to access settings and control board programming.

The menu items providing access to the technical setting are protected by access code.

### 10.2.1 User Menu

The table below briefly describes the menu structure, focussing in particular on the functions available to users.

The menu item 01-fan adjustment is available only if the corresponding function was enabled.

<i>level 1</i>	<i>level 2</i>	<i>level 3</i>	<i>level 4</i>	<i>value</i>
<b>01 – fan adjustment</b>				select value
<b>02 - time clock</b>				
	01 - day			week day
	02 - hours			hour
	03 - minutes			minute
	04 - day			day month
	05 - month			month
	06 - year			year
<b>03 – chrono setting</b>				
	01 – enable chrono			
		01 - enable chrono		on/off
	02 – day programming			
		01 – day chrono		on/off
		02 - start 1 day		hour
		03 - stop 1 day		hour
		04 - start 2 day		hour
		05 - stop 2 day		hour
	03 – week programming			
		01 – week chrono		on/off
		02 - start prog 1		hour
		03 - start prog 1		hour
		04 - Monday prog 1		on/off
		05 - Tuesday prog 1		on/off
		06 - Wednesday prog 1		on/off
		07 - Thursday prog 1		on/off
		08 - Friday prog 1		on/off
		09 - Saturday prog 1		on/off
		10 - Sunday prog 1		on/off
		11 - start prog 2		hour
		12 - stop prog 2		hour
		13 - Monday prog 2		on/off
		14 - Tuesday prog 2		on/off
		15 - Wednesday prog 2		on/off
		16 - Thursday prog 2		on/off
		17 - Friday prog 2		on/off
		18 - Saturday prog 2		on/off
		19 - Sunday prog 2		on/off
		20 - start prog 3		hour
		21 - stop prog 3		hour
		22 - Monday prog 3		on/off
		23 - Tuesday prog 3		on/off
		24 - Wednesday prog 3		on/off
		25 - Thursday prog 3		on/off
		26 - Friday prog 3		on/off
		27 - Saturday prog 3		on/off
		28 - Sunday prog 3		on/off

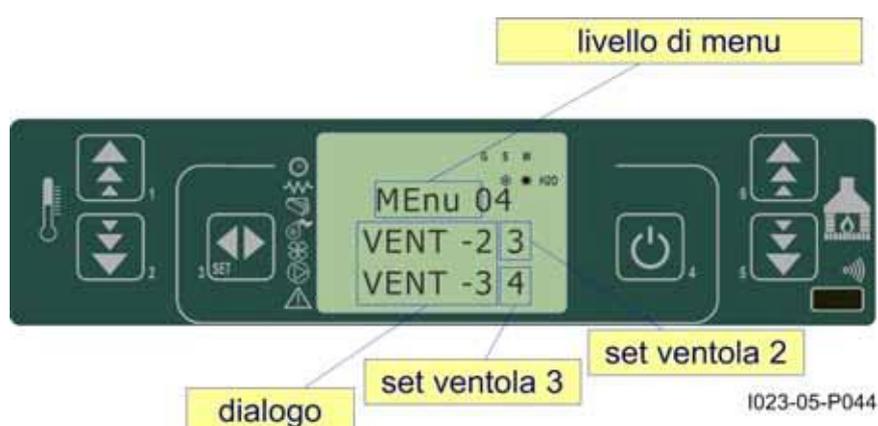
<i>level 1</i>	<i>level 2</i>	<i>level 3</i>	<i>level 4</i>	<i>value</i>
		29 - start prog 4		hour
		30 - stop prog 4		hour
		31 - Monday prog 4		on/off
		32 - Tuesday prog 4		on/off
		33 - Wednesday prog 4		on/off
		34 - Thursday prog 4		on/off
		35 - Friday prog 4		on/off
		36 - Saturday prog 4		on/off
		37 - Sunday prog 4		on/off
	04 - week-end program			
		01 - week-end chrono		
		02 - start 1		
		03 - stop 1		
		04 - start 2		
		05 - stop 2		
<b>04 – select language</b>				
	01 - Italian			set
	02 - French			set
	03 - English			set
	04 - German			set
<b>05 - stand-by mode</b>				on/off
<b>06 - buzzer</b>				on/off
<b>07 – initial load</b>				set
<b>08 – stove status</b>				-

### 10.2.2 Menu 01-fan adjustment

Use this function to independently adjust the two additional blowers.

The settings available for each blower are listed in the table below. Press P1 (fan 2) and P2 (fan 3) to select setting.

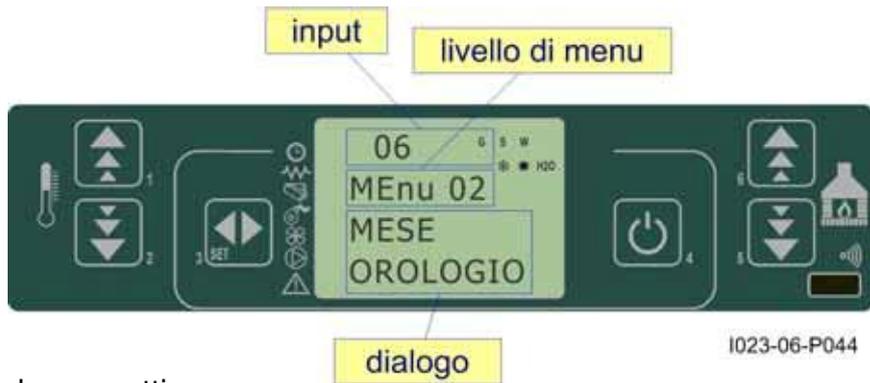
<i>setting</i>	<i>blower 2</i>	<i>blower 3</i>
A	corresponding to the selected heat output	corresponding to the selected heat output
0	disabled fan	disabled fan
1	Pr57 fixed speed	Pr62 fixed speed
2	Pr58 fixed speed	Pr63 fixed speed
3	Pr59 fixed speed	Pr64 fixed speed
4	Pr60 fixed speed	Pr65 fixed speed
5	Pr61 fixed speed	Pr66 fixed speed



1023-05-P044

### 10.2.3 Menu 02 - time clock setting

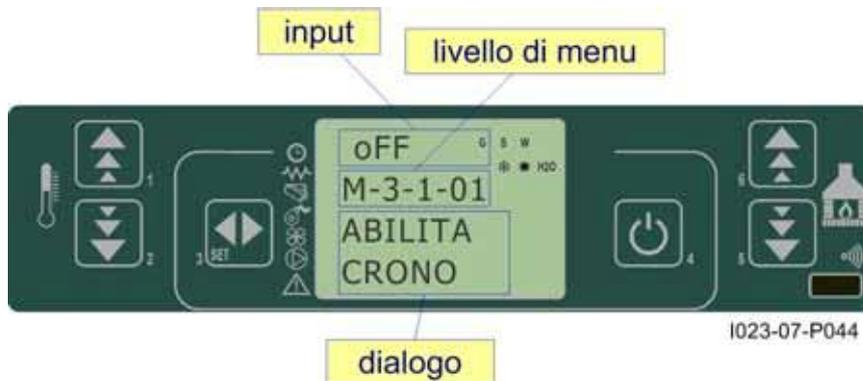
Use this function to set current time and date. The control board is equipped with a lithium battery guaranteeing the internal time clock a 3/5 year-long life.



### 10.2.4 Menu 03 - chrono setting

Sub-menu 03 - 01 – enabling chrono

The programmable thermostat functions can be disabled and enabled.



Sub-menu 03 - 02 – daily program

The daily programmable thermostat functions can be enabled, disabled and set.



It is possible to set two on/off times defined by the times set according to the table below. If the value is set to OFF, the time clock ignores the control.

<b>setting</b>	<b>meaning</b>	<b>available values</b>
START 1	switchin on time	time - OFF
STOP 1	switching off time	time - OFF
START 2	switchin on time	time - OFF
STOP 2	switching off time	time - OFF

### Sub-menu 03 - 03 – weekly program

The weekly programmable thermostat functions can be enabled, disabled and set.



The weekly programmer consists of 4 independent programmes which can be combined together in different ways. The weekly programmer can be enabled or disabled.

Moreover, if the time is set to OFF, the time clock ignores the corresponding control.

N.B.: set the programming carefully in order to avoid overlapping of switching on and/or off times of different programmes on the same day.

<b>PROGRAMME 1</b>			
<i>menu level</i>	<i>setting</i>	<i>meaning</i>	<i>available values</i>
03-03-02	1 - start prog	switchin on time	time - OFF
03-03-03	STOP PROG 1	switching off time	time - OFF
03-03-04	MONDAY PROG 1	reference day	on/off
03-03-05	TUESDAY PROG 1		on/off
03-03-06	WEDNESDAY PROG 1		on/off
03-03-07	THURSDAY PROG 1		on/off
03-03-08	FRIDAY PROG 1		on/off
03-03-09	SATURDAY PROG 1		on/off
03-03-10	SUNDAY PROG 1		on/off

<b>PROGRAMME 2</b>			
<i>menu level</i>	<i>setting</i>	<i>meaning</i>	<i>available values</i>
03-03-11	START PROG 2	switching on time	time - OFF
03-03-12	STOP PROG 2	switching off time	time - OFF
03-03-13	MONDAY PROG 2	reference day	on/off
03-03-14	TUESDAY PROG 2		on/off
03-03-15	WEDNESDAY PROG 2		on/off
03-03-16	THURSDAY PROG 2		on/off
03-03-17	FRIDAY PROG 2		on/off
03-03-18	SATURDAY PROG 2		on/off
03-03-19	SUNDAY PROG 2		on/off

<b>PROGRAMME 3</b>			
<i>menu level</i>	<i>setting</i>	<i>meaning</i>	<i>available values</i>
03-03-20	START PROG 3	switching on time	time - OFF
03-03-21	STOP PROG 3	switching off time	time - OFF
03-03-22	MONDAY PROG 3	reference day	on/off
03-03-23	TUESDAY PROG 3		on/off
03-03-24	WEDNESDAY PROG 3		on/off
03-03-25	THURSDAY PROG 3		on/off
03-03-26	FRIDAY PROG 3		on/off
03-03-27	SATURDAY PROG 3		on/off
03-03-28	SUNDAY PROG 3		on/off

<b>PROGRAMME 4</b>			
<i>menu level</i>	<i>setting</i>	<i>meaning</i>	<i>available values</i>
03-03-29	START PROG 4	switching on time	time - OFF
03-03-30	STOP PROG 4	switching off time	time - OFF
03-03-31	MONDAY PROG 4	reference day	on/off
03-03-32	TUESDAY PROG 4		on/off
03-03-33	WEDNESDAY PROG 4		on/off
03-03-34	THURSDAY PROG 4		on/off
03-03-35	FRIDAY PROG 4		on/off
03-03-36	SATURDAY PROG 4		on/off
03-03-37	SUNDAY PROG 4		on/off

### Sub-menu 03 - 04 - week-end program

The programmable thermostat functions can be enabled, disabled and set for the week-end (days 5 and 6, or Saturday and Sunday).



TIP: if you still do not know exactly the result you want to obtain, enable only one programme at a time to avoid confusion and unwanted stove switching on and off.

Disable the daily programme if you want to use the weekly programme. If you use the weekly programme for 1, 2, 3 and 4 programmes, never enable the week-end programme.

Always disable the weekly programme before enabling the week-end programme.

### 10.2.5 Menu 04 – Select language

Use this function to select one of the languages available.



### 10.2.6 Menu 05 - stand-by mode

If you select the "STAND-BY" mode, the stove switches off after a period of time, set by Pr44, during which the room temperature remained at a value higher than the SET temperature.

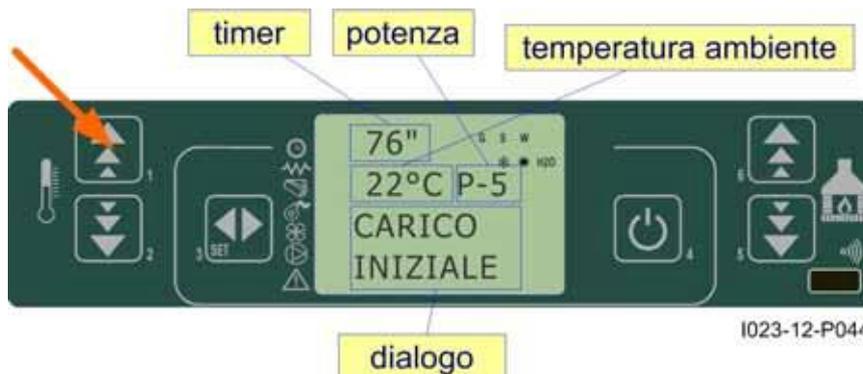
Only if the following condition occurs -  $T_{SET} < (T_{ambiente} - Pr43)$ , it is then possible to switch the stove back on.

### 10.2.7 Menu 06 - buzzer mode

Set it to "OFF" to disable the buzzer.

### 10.2.8 Menu 07 - initial load

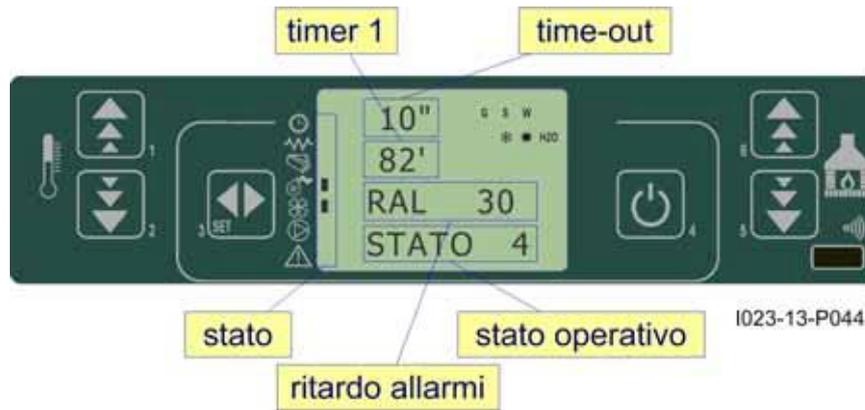
Use this function to load pellets for a period of 90 seconds when the stove is switched off and cold. Press P1 button to start and P4 button  to stop.



## 10.2.9 Menu 08 - stove status

This function displays the current status of all the devices connected to the stove. A few examples are included in the following pages.

*pagina 1*



*pagina 2*



*pagina 3*



## 10.3. User functions

Standard functioning of a control board properly installed on a forced air pellet stove is described below with reference to the functions available to users. The indications listed below refer to a control board fitted with programmable thermostat. The technical setting mode is described in detail in the following sections. Before switching on the stove, the control board display is as in *figure 16*.

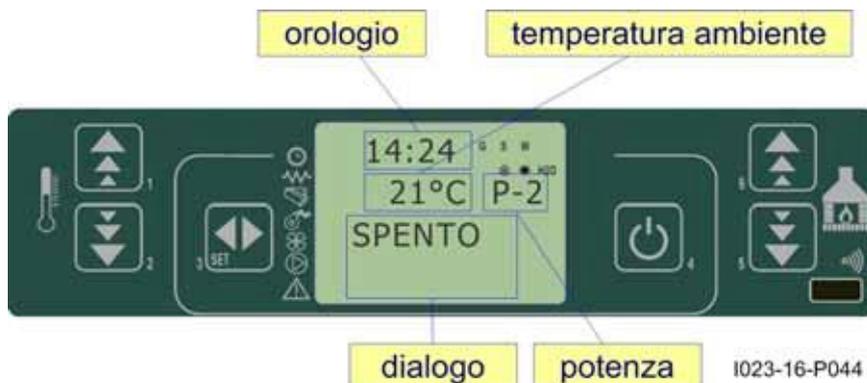


fig. 16

### 10.3.1 Stove switching on

Hold down the stove is



P4 for a few seconds to switch on the stove. The display shows the message as in *Figure 17* when on.

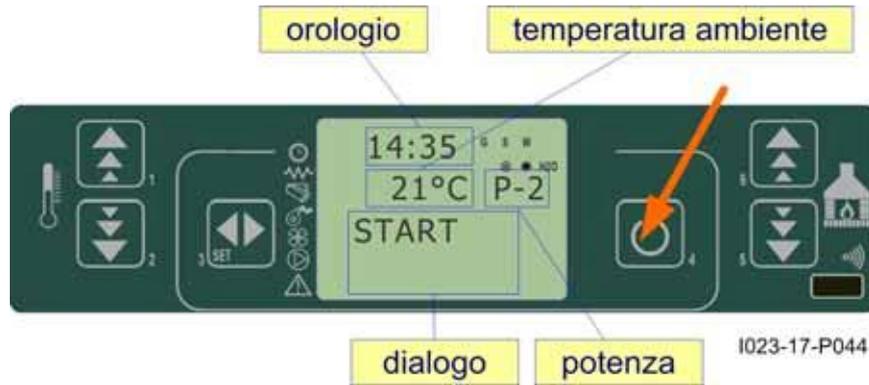


fig. 17

### 10.3.2 Start-up phase

The stove performs all the steps of the start-up phase according to the parameters concerning its levels and times.

### 10.3.3 Ignition failure

The alarm is triggered when, after the period of time set by Pr01, the fume temperature has not reached the minimum value admitted (Pr13 parameter) with a gradient equal to 2°C/min.

### 10.3.4 Working mode

At the end of the start-up phase, if no problems occurred, the stove enters its normal working mode. Exchangers are enabled if the fume temperature is higher than Pr15. Exchangers no.2 and 3 start working only if they were previously enabled.



fig. 18

### 10.3.5 Changing set room temperature

Press P1 and P2 buttons to change the room temperature. The display shows the current SET temperature value as in *figure 19*.



fig. 19

### 10.3.6 External thermostat/programmable thermostat

If you want to use an external programmable thermostat, connect it to the TERM clamps (connector CN7 pin 7-8).

- **external thermostat:** set the stove SET temperature to 7°C.
- **external programmable thermostat:** set the stove SET temperature to 7°C and disable the chrono functions from 03-01 menu.

The stove external thermostat is enabled when the contact is closed with stove on.

### 10.3.7 Room temperature reaches set value (SET temperature)

When the set room temperature value is reached or the fume temperature has reached the Pr13 value, the stove heat output is set automatically to the minimum value (MODULATION mode). See *figure 20*



*fig. 20*

If the stove is in the STAND-BY mode, it switches off after the period of time set by Pr44 and after reaching the SET temperature. If the following condition occurs -  $T_{\text{ambiente}} > (T_{\text{SET}} + Pr43)$ , it is then possible to switch the stove back on.

### 10.3.8 Burn pot cleaning

When the stove is in the working mode, the "BURN POT CLEANING" mode is activated for the period set by Pr12 parameter at the intervals set by Pr03 parameter.



*fig. 21*

### 10.3.9 Stove switching off

Hold down  P4 button for approx. 2 seconds to switch off the stove. The Auger tube stops immediately and the exhaust blower reaches its maximum speed value. The FINAL CLEANING phase is performed. At the end of the period of time set by Pr39, when the fume temperature has reached a value below Pr13 parameter, the exhaust blower stops.



*fig. 22*

### 10.3.10 Stove switched off

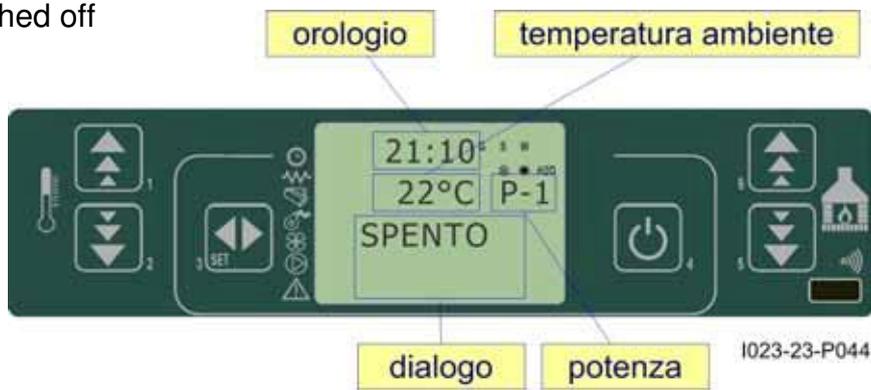


fig. 23

### 10.3.11 Switching on the stove again

It will be possible to switch the stove back on only at the end of the safety period of time set by Pr38 and if the fume temperature has reached a value below Pr13.



fig. 24

## 10.4 What happens in case of...

### 10.4.1 Pellet ignition failure

If pellets do not ignite, the display shows the alarm message "NO ACC" as shown in figure 25.



fig. 25

### 10.4.2 Power outage

#### Pr48 = 0

When the power is resumed after an outage, the stove enters the FINAL CLEANING phase and waits until the fume temperature reaches a value below Pr13.



fig. 26

#### Pr48 = T seconds

After a power outage, one of the following conditions may occur depending on the stove previous status:

<i>previous status</i>	<i>outage duration</i>	<i>new status</i>
switched off	any	switched off
ignition	< T	ignition
pellet loading without pre-	< T	pellet loading
pellet loading with pre-load	any	switching off
waiting for flame	< T	waiting for flame
working mode	< T	working mode
burn pot cleaning	< T	burn pot cleaning
switching off	< T	switching off

If the power outage duration is longer than T, the stove switches off.

## 10.5. Alarms

In case of malfunctioning the control board reports the problem and activates various procedures depending on the type of alarm. Possible alarm messages are listed below.

<b>Cause</b>	<b>Display shows</b>
Fume temperature sensor	<b>ALARM SOND FUMI</b>
Fume overheating	<b>ALARM HOT TEMP</b>
Ignition failure	<b>ALARM NO FIRE</b>
Switches off when in working mode	<b>ALARM NO FIRE</b>
Power outage	<b>COOL FIRE (see sect. 9.2)</b>
Auger tube safety pressure switch	<b>ALARM DEP FAIL</b>
General safety thermostat	<b>ALARM SIC FAIL</b>
Damaged exhaust blower	<b>ALARM FAN FAIL</b>

In case of alarm, the stove is immediately switched off.

The alarm status is reached after a set period of time (Pr11) and can be cleared by pressing  P4 button.

### 10.5.1 Fume temperature sensor alarm

The alarm is triggered when the fume temperature sensor is not working properly or is disconnected. During the alarm, the stove switches off.



fig. 27

I023-27-P044

### 10.5.2 Fume overheating alarm

The alarm is triggered when the fume sensor registers a temperature exceeding 280°C. The message shown in figure 28 appears.



fig. 28

I023-28-P044

The stove switching-off phase starts immediately.

### 10.5.3 Ignition failure alarm

The alarm is triggered whenever ignition fails. The stove switching-off phase starts immediately.



fig. 29

I023-29-P044

### 10.5.4 Stove switching-off during working mode alarm

The alarm is triggered when, during normal working mode, the flame goes out and the fume temperature falls below the minimum threshold set by Pr13 parameter (see figure 30). The stove switching-off phase starts immediately.



fig. 30

I023-30-P044

### 10.5.5 Auger tube safety pressure switch alarm

If the pressure switch (meter pressure) detects a value below the trigger threshold, it immediately switches off the Auger tube (to which it is connected in series) while the control board acquires this change in status through the AL2 clamp in CN4. The message "Alarm Dep Fail" appears on the display and the stove is immediately switched off.



fig. 31

I023-31-P044

### 10.5.6 General thermostat alarm

If the general safety thermostat detects a value exceeding the trigger threshold, it immediately switches off the Auger tube (to which it is connected in series), while the control board acquires this change in status through the AL1 clamp in CN4. The message **ALARM SIC FAIL** appears on the display and the stove is immediately switched off.



fig. 32

I023-32-P044

### 10.5.7 Damaged exhaust blower alarm

Whenever the exhaust blower stops working properly, the stove switches off immediately and the message **ALARM FAN FAIL** appears on the display. The stove switching off phase starts immediately.



fig. 33

I023-33-P044

## 10.5.8 General thermostat alarm

If the general safety thermostat detects a value exceeding the trigger threshold, it immediately switches off the Auger tube (to which it is connected in series), while the control board acquires this change in status through the AL1 clamp in CN4. Unscrew the black cap on the back of the stove and press the button to reset the contact.

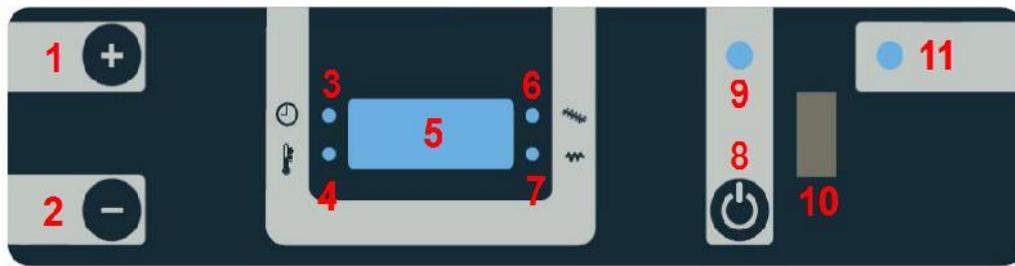


# 11. Duepi electronics with LED display

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## 11.1. The Stove Panel



There are two displays available with different sizes but the same functions.

### 11.1.1 Panel description.

- 1)  Use this button to enter the working programme setting. During setting, press it to move to the next menu item or increase the displayed value.
- 2)  Use this button to enter the working temperature setting. During setting, press it to go back to the previous menu item or decrease the displayed value.
- 3) TIMER LED: It is on when the programmer timer setting is enabled.
- 4) TEMP OK LED: It is on when the stove reaches the room temperature. The stove then continues the heating in ECO mode.
- 5) DISPLAY LED: It indicates the stove working status and the setting menu.
- 6) AUGER TUBE LED: It is on when the Auger tube is working.
- 7) IGN LED: It is on when the ignition plug is on.
- 8)  ON/OFF: It is the stove switching on/off button. Keep it down for a few seconds to switch the stove on. Press it also to clear the alarm displayed. During temperature setting, press it to enter the technical menu.
- 9) LED ON: It is on when the stove is switching on or heating. It flashes when the stove is in the cooling phase or error.
- 10) IR: Optional IR remote control sensor.
- 11) AL: It is on or flashes if the pressure switch or the safety thermostat were triggered.

## 11.2. User functions

The board automatically controls the stove working parameters. Users can manually switch the stove on or off and use the advanced functions, such as the weekly programmer or the timer.

### 11.2.1 First ignition

Upon switching on the board, the display shows the resident software version and then the stove status (OFF in case of first ignition).

### 11.2.2 Temperature setting

Press button  2 to enter the temperature setting and then buttons 1  and 2  to set temperature from a minimum of 7 to a maximum of 40°C. During temperature setting, press button 8  to enter the technical menu.

### 11.2.3 Working programme setting

The working programme actually corresponds to the stove heat output. Press button 1  to enter the setting and then buttons  1 and 2  to set the programme from a minimum of 1 to 5. 

Hold button 1  down to visualise the measured fume temperature and then the fume motor speed in revolutions per minute, if  the encoder is connected.

### 11.2.4 Stove switching on

Hold button 8  down for a few seconds to switch on the stove. The stove automatically performs the ignition and heating phases. Upon the first ignition and therefore the first pellet loading, several ignition cycles need to be carried out in order for the pellets to enter the feeding system.

### 11.2.5 Stove switching off

Press button  8 to switch off the stove. After a system-controlled cooling phase, the stove is switched off.

### 11.2.6 Clearing System Errors

The stove shows any malfunctioning detected through the relevant error code and message. Hold button  8 down for approx. 3 seconds and until the error message disappears from the LED display to clear any error and  then switch the stove back on.

### 11.2.7 Pellet economy

If during the heating phase the room temperature exceeds the set value, the LED 4 switches on and the stove limits its heat output to maintain the set temperature. If the stove temperature further increases by the T value set in the system parameters, the stove enters the pellet economy mode, then the cooling phase. The stove automatically resumes operation if room temperature reaches a value below the set value for at least 1 minute.

## 11.3. User programming

Press button  2 and then button  8 to access the user's programming menu. The following technical menu appears:

MENU	DESCRIPTION	
UT0 1	Current day	
UT02	Current hour	
UT03	Current minutes	
UT04	Access to technical parameters	
UT05	Timer ON 1	Programme 1
UT06	Timer OFF 1	Programme 1
UT07	Timer 1 ON/OFF	Programme 1 enabling
UT08	Timer ON 2	Programme 2
UT09	Timer OFF 2	Programme 2
UT10	Timer 2 ON/OFF	Programme 2 enabling

Press button  2 and  button 8 immediately after to access the menu.

Press button  8 again to move to the next menu.

### 11.3.1 Current day setting

Set UT02 menu as follows:

DISPLAY SHOWS	DAY:
DAY 1	Monday
DAY2	Tuesday
DAY3	Wednesday
DAY4	Thursday
DAY5	Friday
DAY6	Saturday
DAY7	Sunday
OFF	Control not considered

### 11.3.2 Current hour setting

Press button  2 and then button  8 repeatedly to select UT02.

Press then statuses  1 and  2 to set the current hour.

Upon finishing, press button  8 repeatedly to exit the technical menu or wait 20 seconds.

### 11.3.3 Current minute setting

Press button  2 and then button  8 repeatedly to select UT03.

Press then statuses  1 and  2 to set the current hour. Upon finishing, press button  8 repeatedly to exit the technical menu or wait 20 seconds.

### 11.3.4 Technical menu

Press button  2 and then button  8 repeatedly to select UT04. Press then statuses  1 and  2 to select the menu as in the section.

Upon finishing, press button  8 repeatedly to exit the technical menu or wait 20 seconds.

### 11.3.5 Timer ON 1 switching on 1 hours minutes

Press button  2 and then button  8 repeatedly to select UT05. Press then statuses  1 and  2

to set timer hours and minutes. Upon finishing, press button  8 repeatedly to exit the technical menu or wait 20 seconds.

### 11.3.6 Timer OFF 1 switching off 1 hours minutes

Press button  2 and then button  8 repeatedly to select UT06. Press then statuses  1 and  2 to set timer hours and minutes. Upon finishing, press button  8 repeatedly to exit the technical menu or wait 20 seconds.

### 11.3.7 Enabling Timer 1

Press button  2 and then button  8 repeatedly to select UT07. Press then statuses  1 and  2 to enable (On) or disable (Off) the timer. LED 3 switches on upon completing timer enabling. Upon finishing, press button  8 repeatedly to exit the technical menu or wait 20 seconds.

### 11.3.8 Timer ON 2 switching on 2 hours minutes

Press button **2**  and then button **8**  repeatedly to select UT08.

Press then statuses **1**  and **2** 

to set timer hours and minutes. Upon finishing, press button **8**  repeatedly to exit the technical menu or wait 20 seconds.

### 11.3.9 Timer OFF 2 switching off 2 hours minutes

Press button **2**  and then button **8**  repeatedly to select UT09. Press then statuses **1**  and **2** 

to set timer hours and minutes. Upon finishing, press button **8**  repeatedly to exit the technical menu or wait 20 seconds.

### 11.3.10 Enabling Timer 2

Press button **2**  and then button **8**  repeatedly to select UT10. Press then statuses **1**  and **2** 

to enable (On) or disable (Off) the timer. LED **3** switches on upon completing timer enabling. Upon finishing, press button **8**  repeatedly to exit the technical menu or wait 20 seconds.

### 11.3.11 Parameter percentage adjustment

The pellet load and fume exhaustion percentages can be modified using parameter Cpel and Casp respectively:

- CASP is the fume exhaustion percentage variation.
- CPEL is the pellet load percentage variation. Modify the parameters as follows:
  - Enter the UT04 technical menu.
  - Press buttons **1**  and **2**  repeatedly until the display shows “c9”. Hold the buttons down to move more rapidly.
  - Press button **8**  to confirm.
  - Press button **8**  to select Cpel or Casp.
  - Press buttons **1**  and **2**  to modify the value.
  - Cpel and Casp values range from -5 to +5. Each step corresponds to a variation equal to  $\pm 5\%$  with respect to the basic value. (PR06 ÷ PR10 for pellet loading and PR18 ÷ PR22 for fume exhaust blower).
  - The default values are:

**Cpel = 0**

**Casp = 0**

## 11.4.Alarms

### 11.4.1 “NO ACC” alarm.

The alarm is triggered when the fume temperature does not increase by a gradient equal to 3 °C/min during the **LOAD WOOD** or **FIRE ON** phases and does not reach the temperature set by PR13 within the time set by PR01:

- The switching-on phase is interrupted and the stove switches off.
- The display shows the message “ALAR/ No/ Acc”.
- Use the control panel or remote control to clear the alarm (hold on/off button down for at least 2 seconds).

### 11.4.2 “NO FIRE” alarm.

If the stove switches off during the working mode (the fume temperature reaches a value below the PR13 parameter), the stove enters the switching-off phase.

- The display shows the message “ALAR/No/Fire”.
- Use the control panel or remote control to clear the alarm (hold on/off button down for at least 2 seconds).

### 11.4.3 “COOL FIRE” alarm.

It is triggered only in case of power outage. When power resumes, the stove enters a switching off phase.

- The display shows the message “CooL Fire”.
- Upon completing the switching-off cycle, the stove automatically resumes operation.

### 11.4.4 “FAN FAIL” alarm.

The alarm is triggered when the exhaust blower revolutions are not detected. The stove enters the switching-off phase.

- The display shows the message “Alar /Fan/Fail”.
- Use the control panel or remote control to clear the alarm (hold on/off button down for at least 2 seconds).

### 11.4.5 “SIC DEP FAIL” alarm.

The alarm is triggered when the pressure switch or the safety thermostat are activated:

- The stove enters the switching-off phase.
- The display shows the message “Alar /Dep/ Sic /FAiL”
- ALF and ALC LEDs flash
- Use the control panel or remote control to clear the alarm (hold on/off button down for at least 2 seconds).

## 11.5. Alarm log

The system alarm log registers the last 5 alarms triggered and it is accessible by entering the “E9” code in the UT04 menu. Enter the password “99” in the UT04 menu to clear the alarms.

### 11.5.1 Alarm visualisation.

- Enter the UT04 technical menu.

• Press buttons 1  and 2  repeatedly until message “E9” appears on the display. Hold the buttons down to move more rapidly.

- Press button 8  to confirm.

• The display shows the error number and the type of alarm alternatively. Press button 8 again to move to the other alarms.



### 11.5.2 Clearing Alarms.

- Enter the UT04 technical menu.

• Press buttons 1  and 2  repeatedly until the display shows “99”. Hold the buttons down to move more rapidly.

- 

Press button 8 to  confirm and clear the log.

# 12. Cleaning and maintenance

## 12.1 Forewords

The stove requires a simple yet constant cleaning to guarantee top efficiency and proper functioning.

Constant maintenance by a qualified technician is recommended.

The stove should be cleaned before the cold season because it can sometimes get clogged during the summer (by nests for example) preventing exhaust fumes to flow regularly.

At the beginning of the season and in case of wind, a build-up of residue in the pipe may lead to fires. Should this happen, find below a few pieces of advice to follow:

- **Block air supply to the pipe immediately;**
- **Throw sand or kitchen salt, and not water, to extinguish fire and coals;**
- **Keep objects and furniture away from the burning pipe.**

**THE YEARLY CLEANING OF THE VENT PIPE IS THEREFORE FUNDAMENTAL TO PREVENT THIS FROM HAPPENING**

**N.B.:**

- **USE A DRY CLOTH TO CLEAN THE STOVE EXTERNALLY**
- **THE AUGER TUBE MUST BE COMPLETELY EMPTIED FROM PELLETS WHEN USING THE STOVE FOR THE LAST TIME AT THE END OF THE SEASON. THE AUGER TUBE MUST REMAIN EMPTY TO PREVENT IT FROM GET CLOGGED BY SAWDUST RESIDUES SOLIDIFIED DUE TO MOISTURE.**

## 12.2 Daily cleaning

Any cleaning operation must be performed when the stove is completely cold. Remove the ash inside firebox and on door. Lift up and remove the burn pot. Then empty and clean it.

**N.B.**

**USE A DRY CLOTH  
TO CLEAN THE STOVE  
EXTERNALLY**



## 12.3 Manufacturer liability

**The manufacturer shall not be held liable against any direct and/or indirect, criminal and/or third party liability arising from:**

- failure to abide by the instructions contained herein.
- non authorised repair operations or changes.
- use not compliant with safety rules.
- installation not compliant with national current regulations and safety rules.
- lack of maintenance.
- use of non original spare parts or spare parts not suitable for the stove model. extraordinary circumstances.

# 13.Troubleshooting

PROBLEM	CAUSE	SOLUTION
<b>DISPLAY NOT WORKING</b>	POWER OUTAGE	CHECK PLUG AND POWER SUPPLY
	REAR SWITCH OFF FAULTY DISPLAY	TURN ON REAR SWITCH
	FAULTY ELECTRICAL CABLE	CALL TECHNICAL ASSISTANCE
	INTERRUPTED FUSE IN CONTROL BOARD	CALL TECHNICAL ASSISTANCE
	FAULTY CONTROL BOARD	CALL TECHNICAL ASSISTANCE
<b>ALARM NO FIRE</b>	PELLET HOPPER EMPTY	CHECK AND LOAD HOPPER IF NECESSARY
<b>STOVE DOES NOT TURN ON</b>	AUGER TUBE BLOCKED BY FOREIGN BODY	DISCONNECT PLUG, EMPTY HOPPER, REMOVE ANY FOREIGN BODIES, SUCH AS NAILS, ETC.
	DIRTY BURN POT	CLEAN BURN POT
	TEMPERATURE TOO COLD	TRY SWITCHING ON REPEATEDLY.
	DAMP PELLETS	CHECK PELLET STORAGE LOCATION.
	FAULTY AUGER TUBE MOTOR	CALL TECHNICAL ASSISTANCE
	FAULTY IGNITION PLUG	CALL TECHNICAL ASSISTANCE
	FAULTY TEMPERATURE SENSOR	CALL TECHNICAL ASSISTANCE
	FAULTY CONTROL BOARD	CALL TECHNICAL ASSISTANCE
	FAULTY EXHAUST BLOWER	CALL TECHNICAL ASSISTANCE
<b>FLAME BURNS OUT</b>	POWER OUTAGE	CHECK PLUG AND POWER SUPPLY
	PELLET HOPPER EMPTY	CHECK AND LOAD HOPPER IF NECESSARY
	AUGER TUBE BLOCKED BY FOREIGN BODY POOR QUALITY PELLETS	DISCONNECT PLUG, EMPTY HOPPER, REMOVE ANY FOREIGN BODIES, SUCH AS NAILS, ETC.
	POOR QUALITY PELLETS	CHANGE PELLET TYPE.
	PELLET PARAMETER TOO LOW	SOME TYPES OF PELLET MAY REQUIRE PELLET FEED RATE DURING PHASE 1 TO BE INCREASED BY A TECHNICIAN
	ACTIVE ALARM	SEE ALARM SECTION
<b>POOR FLAME</b>	VENT PIPE PARTIALLY CLOGGED	CLEAN VENT PIPE IMMEDIATELY
	COMBUSTION AIR NOT SUFFICIENT	AIR INTAKE CLOGGED.
	STOVE CLOGGED	CLEAN BURN POT AND ASH DRAWER
	FAULTY EXHAUST BLOWER	GET STOVE CLEANED BY SPECIALISED TECHNICIAN CALL TECHNICAL ASSISTANCE
<b>ALARM NO RETE</b>	POWER OUTAGE	SWITCH STOVE ON AND OFF, CHECK PLUG
<b>riS/ ECO</b>	STOVE WORKS PROPERLY	
<b>ALARM DEP</b>	BAD WEATHER CONDITIONS	STRONG WIND
	DOOR NOT CLOSED PROPERLY	CHECK DOOR
	CHIMNEY FLUETOO LONG	LONGER THAN 6 mt. / NOT COMPLIANT CHIMNEY FLUE.
	OUTLET CLOGGED	CLEAN CHIMNEY FLUE / CALL AUTHORISED TECHNICIAN
<b>ALARM SIC</b>	FIREBOX OVERHEATING	LET STOVE COOL DOWN, MANUALLY RESET THERMOSTAT ON BACK. SWITCH ON STOVE AGAIN AND DECREASE STOVE HEAT OUTPUT IF NECESSARY. IF THE PROBLEM REMAINS UNSOLVED, CONTACT A SPECIALISED TECHNICIAN.
	TEMPORARY POWER OUTAGE	LET STOVE COOL DOWN, MANUALLY RESET THERMOSTAT ON BACK. SWITCH THE STOVE ON AGAIN.
	FAULTY EXCHANGER BLOWER	CALL TECHNICAL ASSISTANCE
	FAULTY THERMOSTAT WITH RESET	CALL TECHNICAL ASSISTANCE
	FAULTY CONTROL BOARD	CALL TECHNICAL ASSISTANCE
<b>ALARM SOND</b>	FAULTY FUME SENSOR	CALL TECHNICAL ASSISTANCE
<b>FUMES</b>	FUME SENSOR DISCONNECTED	CALL TECHNICAL ASSISTANCE
<b>ALARM HOT TEMP</b>	FAULTY FUME SENSOR	CALL TECHNICAL ASSISTANCE
	FAULTY CONTROL BOARD	CALL TECHNICAL ASSISTANCE
	FAULTY EXCHANGER BLOWER	CALL TECHNICAL ASSISTANCE
	PELLET PARAMETER TOO HIGH	SOME TYPES OF PELLET MAY REQUIRE PELLET FEED RATE DURING PHASE 5 TO BE DECREASED BY A TECHNICIAN

## ATTESTATO D'INSTALLAZIONE E COLLAUDO

CLIENTE: \_\_\_\_\_

Timbro del Rivenditore:

VIA: \_\_\_\_\_

CITTA': \_\_\_\_\_

Timbro dell' Installatore:

CAP: \_\_\_\_\_

PROVINCIA : \_\_\_\_\_

TEL: \_\_\_\_\_

Nome: \_\_\_\_\_

Cognome: \_\_\_\_\_

Indirizzo: \_\_\_\_\_ Cap.: \_\_\_\_\_

Località: \_\_\_\_\_

Tel. \_\_\_\_\_

Data di consegna: \_\_\_\_\_

Documento di consegna: \_\_\_\_\_

Apparecchio mod.: \_\_\_\_\_

Matricola: \_\_\_\_\_ Anno: \_\_\_\_\_

Il cliente dichiara, al termine dell'installazione dell' Apparecchio, che i lavori sono stati eseguiti a regole d'arte ed in accordo con le istruzioni del presente manuale d'uso. Dichiara inoltre, di aver preso visione del perfetto funzionamento e di essere a conoscenza delle indicazioni necessarie per effettuare il corretto uso e la corretta conduzione e manutenzione dell'Apparecchio.

Firma del CLIENTE

Firma del RIVENDITORE / INSTALLATORE

----- ✂  
**Copia del rivenditore o installatore**

## ATTESTATO D'INSTALLAZIONE E COLLAUDO

CLIENTE: \_\_\_\_\_

Timbro del Rivenditore:

VIA: \_\_\_\_\_

CITTA': \_\_\_\_\_

Timbro dell' Installatore:

CAP: \_\_\_\_\_

PROVINCIA : \_\_\_\_\_

Nome: \_\_\_\_\_

Cognome: \_\_\_\_\_

Indirizzo: \_\_\_\_\_ Cap.: \_\_\_\_\_

Località: \_\_\_\_\_

Tel. \_\_\_\_\_

TEL: \_\_\_\_\_

Data di consegna: \_\_\_\_\_

Documento di consegna: \_\_\_\_\_

Apparecchio mod.: \_\_\_\_\_

Matricola: \_\_\_\_\_ Anno: \_\_\_\_\_

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Firma del CLIENTE

Firma del RIVENDITORE / INSTALLATORE

# Manutenzione Programmata Annuale

Data 1° manutenzione \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

( Timbro CAT )

Data 2° manutenzione \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

( Timbro CAT )

Data 3° manutenzione \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

( Timbro CAT )

# Warranty certificate



**Congratulations! Thank you for purchasing an Eva Calòr product.**

## **Warranty**

The warranty period is **two** years if the product was purchased by a private customer (must be proven in the relevant tax document pursuant to the Italian Legislative Decree no. 24, February 2 2002) and **one** year if it was purchased by a company or by a professional (subject to VAT - as per relevant invoice).

The tax document referred to the product purchase gives validity to the warranty and the date on it shall be used to calculate the warranty period.

### **The warranty provided shall be subject to the following terms and conditions:**

You can contact the staff in charge of the **after-sale** procedure by calling **+39 0438 35469** or by sending an email to [evacalor@libero.it](mailto:evacalor@libero.it).

Our qualified staff will provide you with information concerning technical, installation or maintenance problems.

Should it prove impossible to solve the issue over the phone, our staff will forward it to the **Technical Assistance Centre** closest to you, which will guarantee assistance from a technician within 5 working days.

Any parts replaced during the warranty period shall be covered for the remaining period of the purchased product warranty.

The manufacturer shall not pay the customer any indemnities for the inconvenience of not being able to use the product during the period required for repairing.

Should it be necessary to replace the product, the manufacturer will deliver it to the retailer who will then deliver it to the end user following the same procedure as for the product purchase.

This warranty is valid within Italy. Should the product be sold or installed abroad the warranty shall be recognised by the distributor in charge of the relevant territory.

This warranty covers the repair or replacement of faulty parts or components or of the entire product at our sole discretion.

### **Whenever you require assistance, you may be asked to provide:**

- Serial number
- Stove model
- Purchase date
- Purchase location
- Warranty activation certificate filled in by an authorised Technical Assistance Centre

# Warranty certificate



The warranty shall not cover:

- Non-compliant installation or installation carried out by non-qualified staff (UNI10683 and UNI EN 1443);
- Improper use, such as keeping the stove switched on for too long at maximum heat output;
- Annual stove maintenance carried out by someone other than one of our authorised Technical Assistance Centres;
- Vent pipe cleaning not carried out;

The warranty shall not cover the following differences due to the natural features of the covering materials:

Veining is a main feature of stone guaranteeing its uniqueness; Any small cracks or cracking in ceramic or majolica surrounds; Any shade or tone differences on ceramic / majolica covering; Door glass; Gaskets; Ignition plug heating elements (warranty period: 1 year); The warranty does not cover masonry works; Damage to chromed and/or anodised and/or painted metal parts or on any other treated surfaces due to rubbing or bumping with other metal parts; Damage to chromed and/or anodised and/or painted metal parts or on any other treated surfaces due to improper maintenance and/or cleaning using chemical products or agents (said parts must be cleaned using only water); Damage to mechanical components or parts due to improper use or to installation carried out by non-qualified staff or not in compliance with the instructions provided with the product; Damage to electrical or electronic parts or components due to improper use or to installation carried out by non-qualified staff or not in compliance with the instructions provided with the product.

**N.B.:** after purchase, please keep this warranty certificate together with the original package, installation and testing certificate and the retailer receipt.

Eva Stampaggi S.r.l.

Signature

Via Cal Longa Z.I.

I - 31028 Vazzola (Treviso - Italy)

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Fax +39.0438.740821

E-mail: [info@evacalor.it](mailto:info@evacalor.it)

Retailer Stamp and