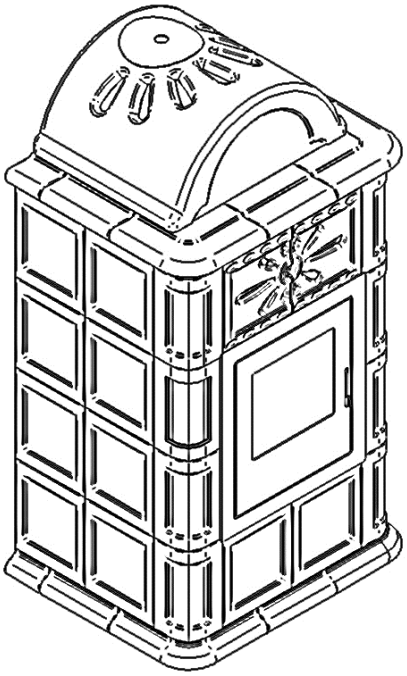
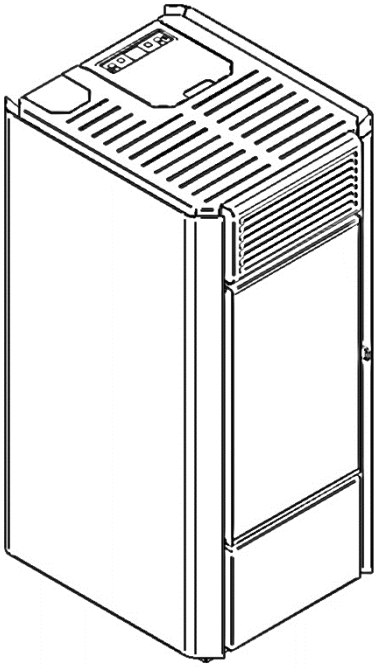
EN

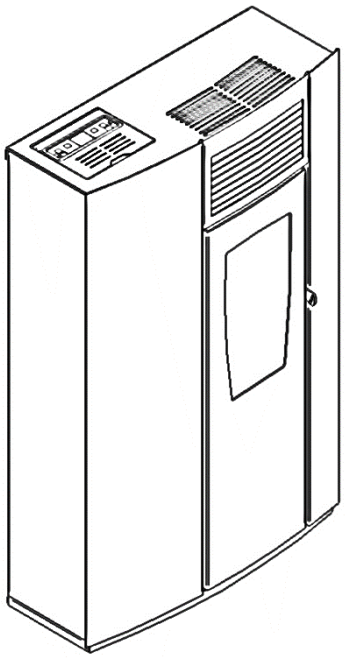
PELLET STOVES
INSTRUCTION MANUAL



MAJOLICA
LINE



PELLET
LINE

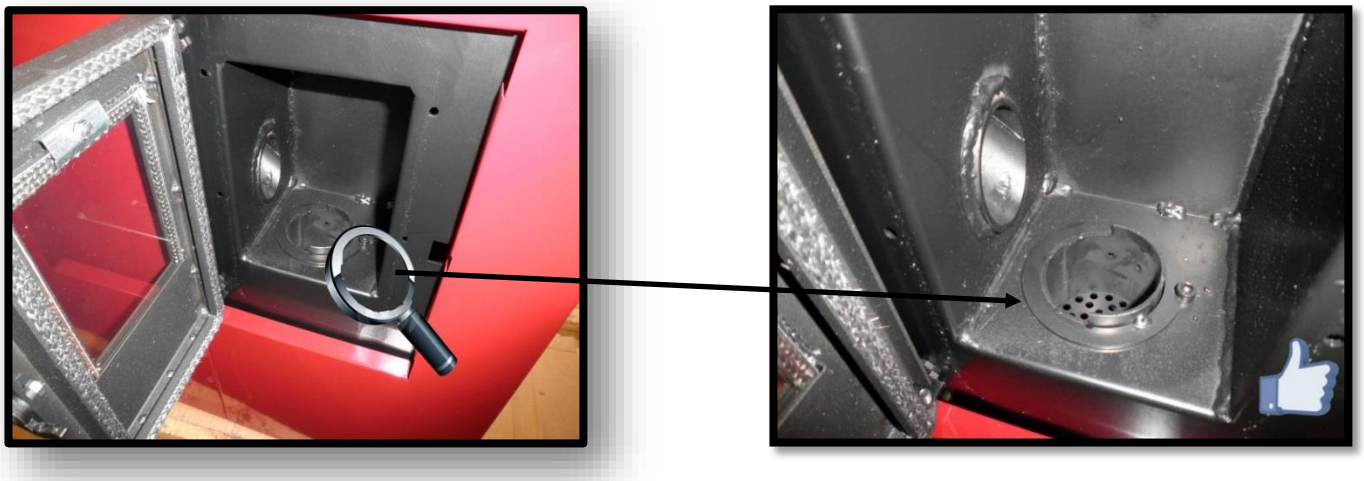


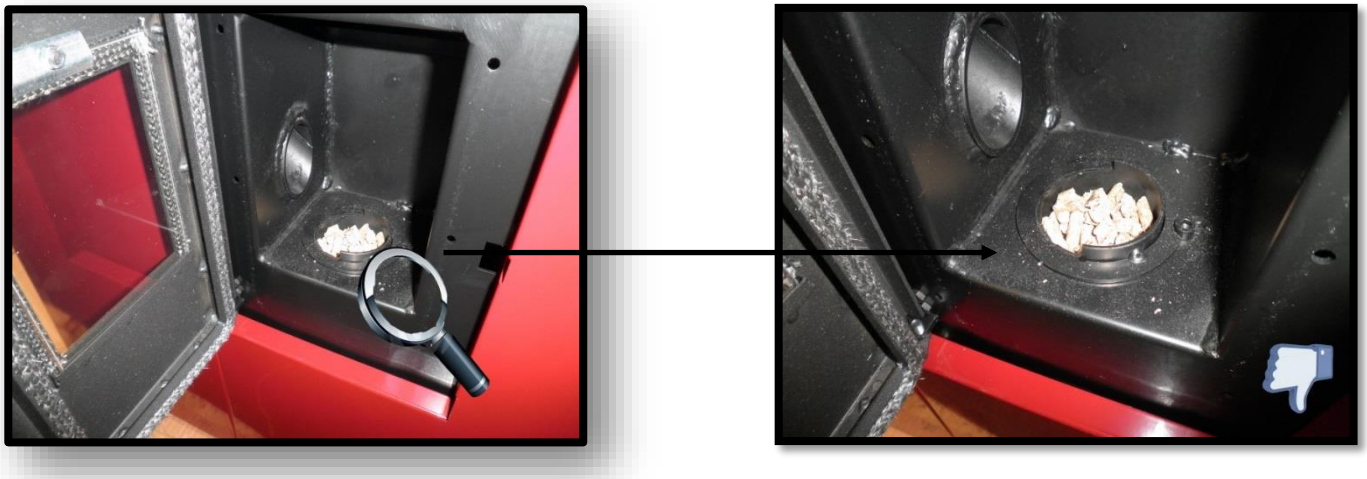
SLIM
LINE

STAMPAGGI

IMPORTANT:
READ THE FOLLOWING INFORMATION

1. The warranty is valid only if the FIRST IGNITION is carried out by an AUTHORISED TECHNICIAN.
2. DO NOT TURN THE PRODUCT UPSIDE DOWN or LAY IT IN A HORIZONTAL POSITION during transportation and installation.
3. Stove installation must be carried out by qualified staff and pursuant to the regulations in force in the relevant country.
4. EMPTY THE BURN POT before trying to switch the stove back on in case of ignition failure or power outage. Failure to do so may also result in the breaking of the door glass.





5. DO NOT POUR PELLETS BY HAND in the burn pot to facilitate stove's ignition.
6. Should any anomaly concerning the flame be detected or, however, in any other case, NEVER SWITCH OFF the stove by disconnecting it from the mains. Use the relevant button. Disconnecting the stove from the mains will prevent exhaust fumes from being extracted.
7. Should ignition phase take longer than expected (due to damp or poor quality pellets) generating excessive smoke in the combustion chamber, open the door to expel it, while remaining in a position that guarantees your safety.
8. It is highly important to use GOOD QUALITY CERTIFIED PELLETS. The manufacturer declines any liability for any malfunctioning or damage to mechanical parts due to the use of poor quality pellets.
9. The burn pot and the combustion chamber MUST BE CLEANED DAILY. The manufacturer declines any liability for any malfunctioning due to a failure to do so.

Eva Stampaggi S.r.l. declines any liability for any damage to persons or property arising from the failure to comply with the points mentioned above and from non-compliant product installation.

INDICE

01. SAFETY WARNING

Stoves are manufactured according the EN13240 (wood stoves), EN 14785 (Pellet stoves), EN 12815 (cook stoves and central heating cookers), using first grade and no-polluting raw materials and components. In order to use at best your stove, it is raccomanded to follow the instructions of the manual.

Carefully read this instructions manual before using or any maintenance intervent.

Eva Stampaggi is aimed to supply the most of information as possible, in order to grant a more sure utilization and to avoid injures and damages to the components of the stove itself.

Each stove undergoes an internal test before the shipment , therefore some burning residual can be found inside the burning chamber.

KEEP SAFE THE UNSTRUCTIONS MANUAL FOR FURTHER

INQUIRIES FOR ANY NEEDS APPLY TO

AUTHORIZED PERSONNEL

- 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.
- Do not put in the stove a quantity of wood bigger then the one stated on the instructions manual.
- Do not modify the product.
- It is forbidden to use the stove if the door is open or the door glass is broken.
- Do not use the stove as a clotheshorse, a support surface or stair etc.
- Do not install the stove in the bed room or in the bath room.

02. 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 no 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 stove works <u>exclusively</u> with pellets and walnut shells, if the stove is designed to. 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.

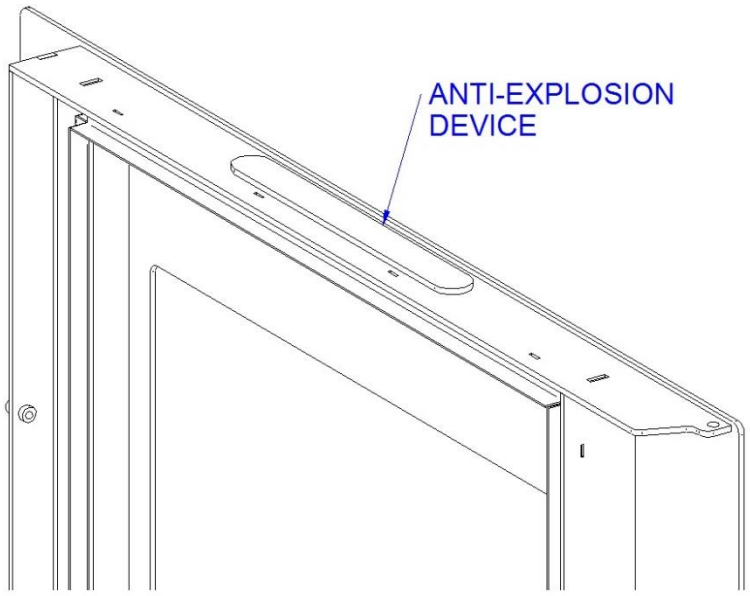
- The metal structure is coated using high temperature paints. When switching on the stove for the first times, unpleasant odours may be emitted as the paint starts to harden on the metal parts. The fumes emitted are not harmful. Ventilate the room to evacuate them. After the first heating cycles, the 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.

Anti-explosion

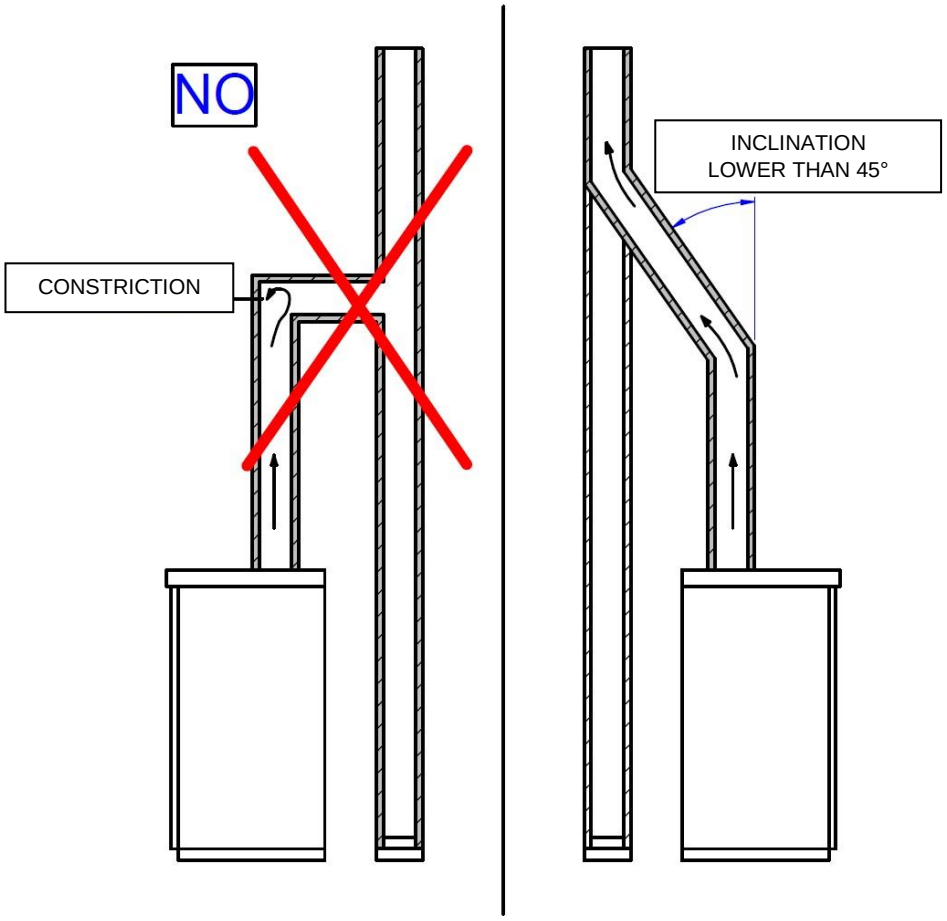
Some products are fitted with a safety device to prevent explosion. Before switching on the product or, in any case, after any cleaning operation, make sure that the device is correctly positioned in its seat. The device is located on the firebox door upper edge.



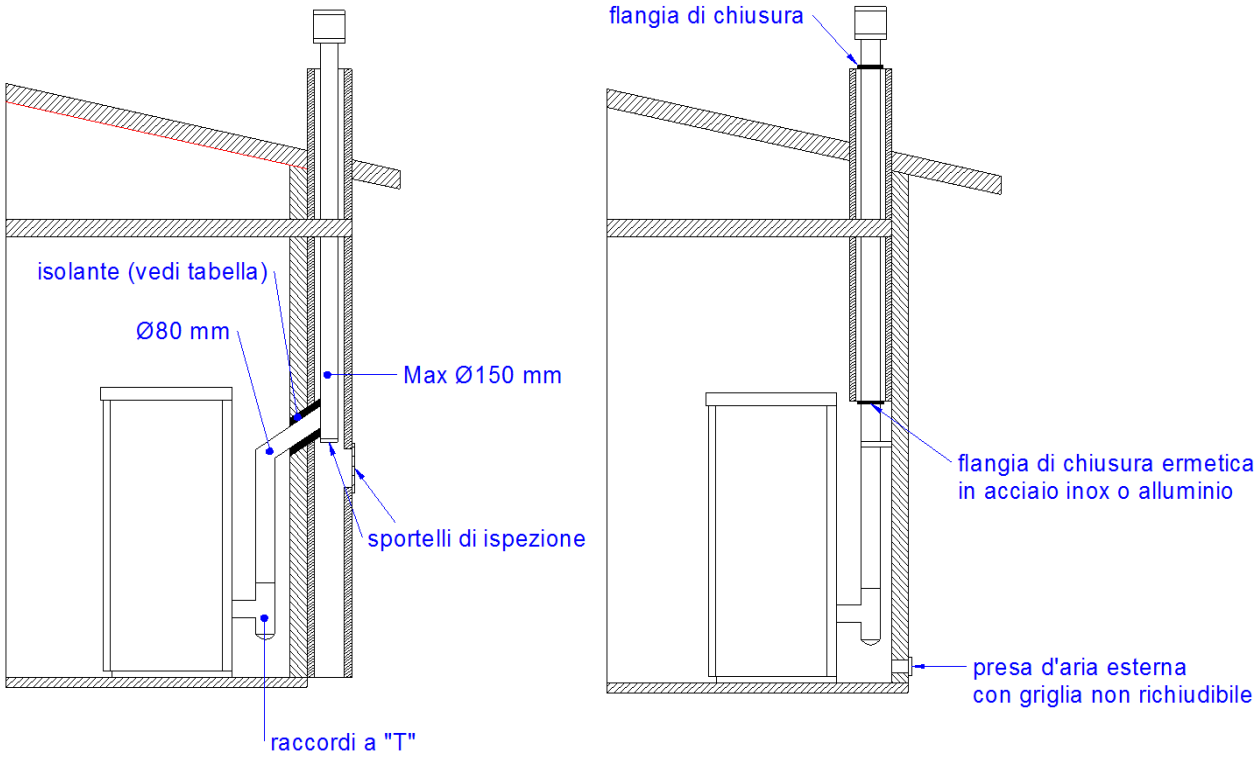
03. VENT PIPE

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 aluminized.

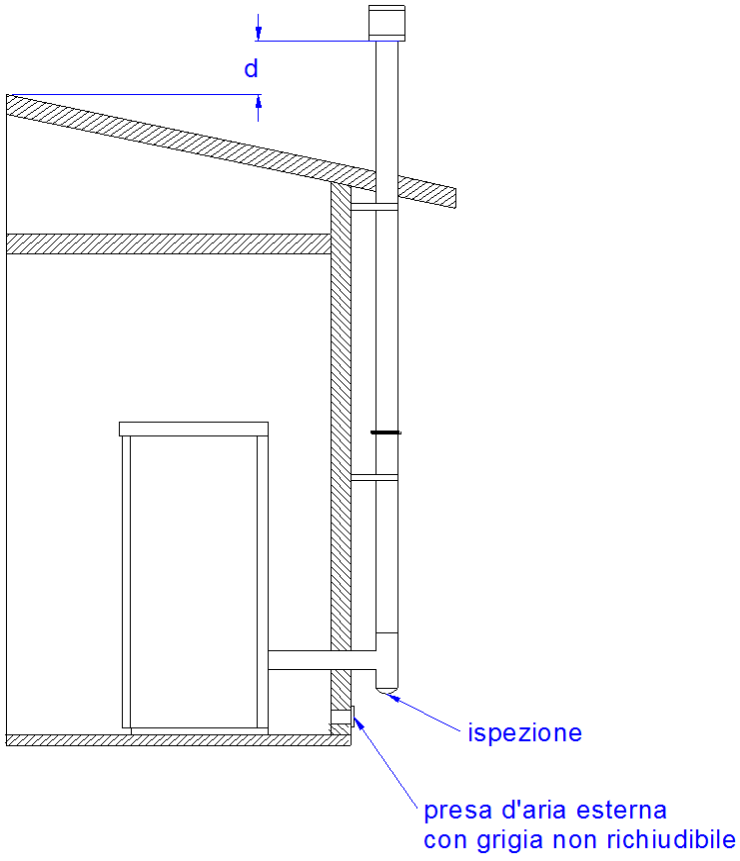
- The stove is fitted with a Φ 80mm rear round fume outlet and a joint connection to be connected to the vent pipe.
- Use telescopic joint connections to facilitate connection to the steel rigid vent pipe and counterbalance the thermal expansion of both the firebox and the vent pipe.
- Seal the vent 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.
- Flexible and length-adjustable metal pipes may not be used.



EXISTING VENT PIPE (TRADITIONAL)



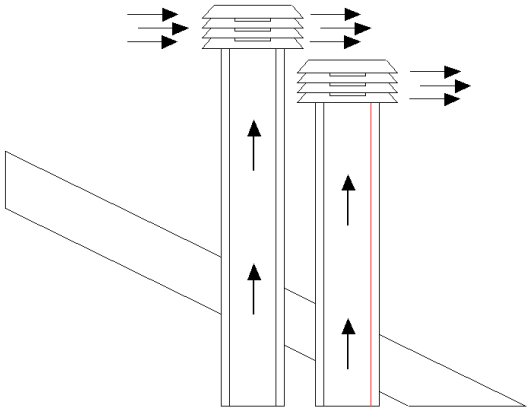
EXTERNAL VENT PIPE



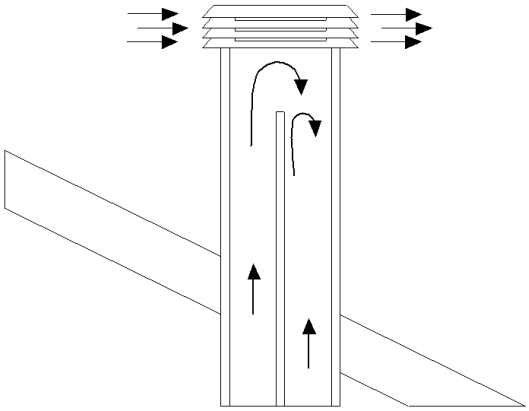
04. CHIMNEY COWL

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 150 cm above the roof top so that it is fully exposed to the wind.

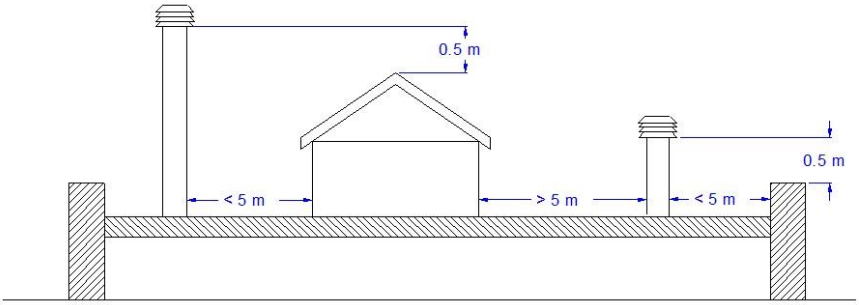
YES



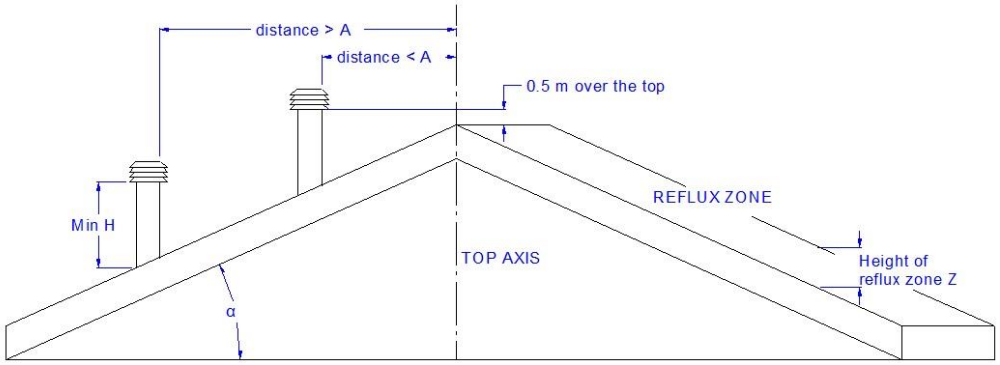
NO



A) Flat roof



B) Pitched roof



Roof pitch α [°]	Horizontal width of reflux zone measured from top A axis [m]	Minimum height from roof for ischarging exhaust fumes H min=Z+0.50m	Height of reflux zone Z [m]
15	1,85	1,00	0,50
30	1,50	1,30	0,80
45	1,30	2,00	1,50
60	1,20	2,60	2,10

05. 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.

06. STOVE EFFIENCY

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.

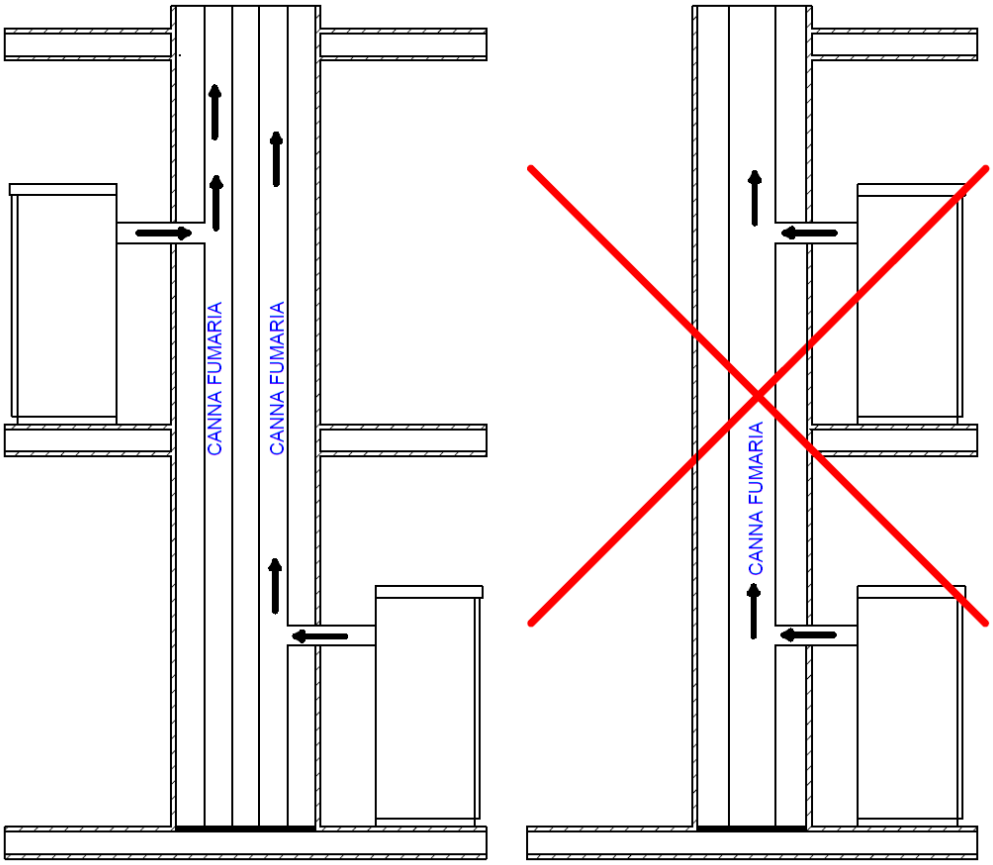
The stove efficiency instead depends on its capacity to deliver most of the generated heat to the surrounding environment. As a consequence the more efficient the stove, the colder the combustion exhaust fumes, resulting in a reduced draught.

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.

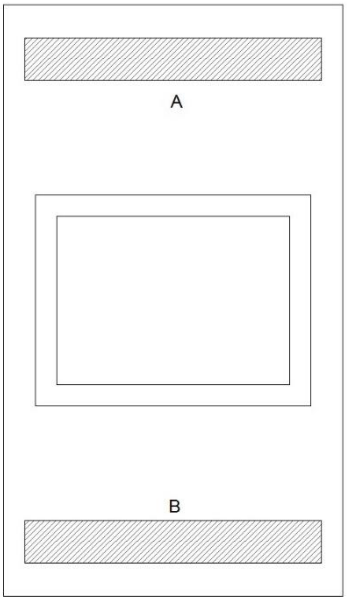


07. INSTALLATION INSTRUCTIONS

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 electical 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 must be connected directly to the outside or to adjacent rooms provided they are fitted with external air supply vents 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 cladding, etc.), the following minimum clearances must be complied with: ***"See stove data plate".***
- During installation, the installer must also take into consideration the **convective air sections**: the structure housing the appliance must be fitted with ventilation slots.



A = 740 cm²
B = 366 cm²

- Besides complying with the minimum clearances set above, we also recommend installing heat-resistant fireproof insulating panels (rock wool, cellular concrete, etc.).

  We recommend using the following model:

  Promasil 1000

  Classification temperature: 1000 °C

  Bulk density: 245 kg/m^3

  Shrinkage at reference temperature, 12 h: 1000°C / 1.3%

  Cold crushing strength: 1.4 MPa

  Bending strength: 0.5 MPa

  Reversible thermal expansion: 5.4x10^{-6} m/mK

  Specific heat capacity: 1.03 Kj/kg K

  Thermal conductivity λ:

  200 °C → 0.07 W/mK

  400 °C → 0.10 W/mK

  600 °C → 0.14 W/mK

  800 °C → 0.17 W/mK

  Thickness: 40 mm

- 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 or bathrooms.

INSTALLAZION CORNER STOVE

Pursuant to current regulations on installation, the corner stove must be placed in a well-ventilated place to guarantee efficient combustion and proper functioning. The room must have a volume equal to or higher than 20 m3. An air vent is required to guarantee efficient combustion (40 m3/h air). It can be connected directly to the outside or to adjacent rooms provided they are fitted with external air supply vent (⍰80mm) and are not used as a bedroom or bathroom or, whenever a fire hazard exists, as storage room, garage, combustible material warehouse, 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 cross-section.

When working the corner stove may create a negative pressure inside the room where it is fitted. 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 unless provided with their own air vent).

The corner stove must be installed far from curtains, armchairs, furniture or other inflammable materials.

The corner stove must not be installed in case of explosive atmospheres or in rooms that may become potentially explosive due to the presence of appliances, materials or powders causing gas leaks or catching fire easily from sparks. When installing a corner stove make sure to guarantee adequate clearance from all finishes or beams made from combustible materials, keeping them far from its irradiation area. Moreover, make sure to prevent heat build-up in the recess, which will result in the insert malfunctioning, by guaranteeing the required air space, i.e. by respecting minimum clearances and making ventilation slots with a total surface area of X cm2 cm as shown in the picture below.

07. INSTALLATION INSTRUCTIONS

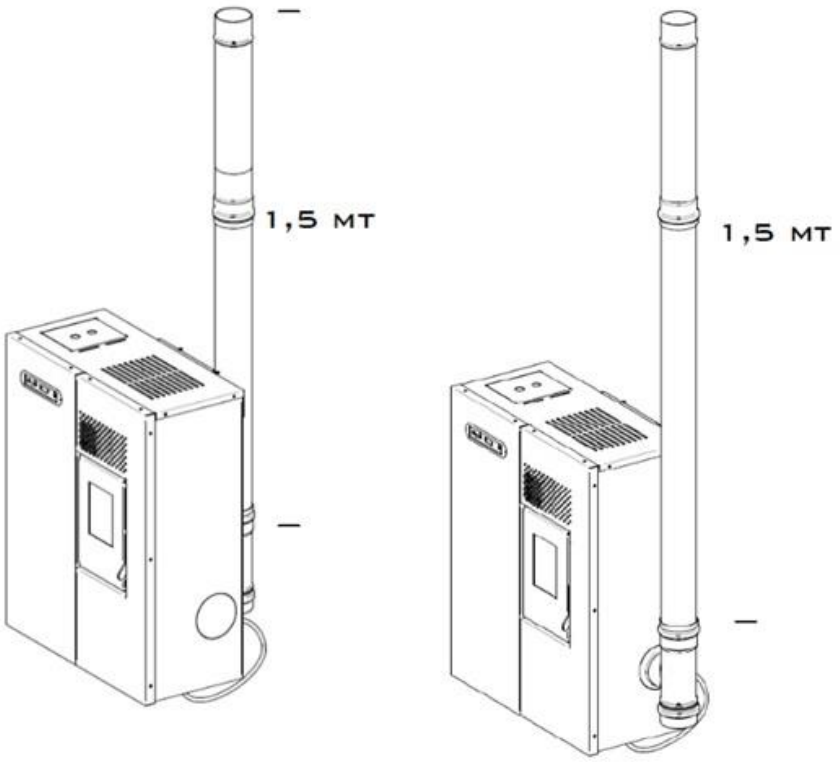
ATTENTION:

4.5 kW stoves must be fitted with a 1.5 m-long pipe (Φ 80 mm) certified to EN 1856-2 standard.

7,5 kW Slim stoves must be fitted with a 1 m-long pipe (Φ 80 mm) certified to EN 1856-2 standard.

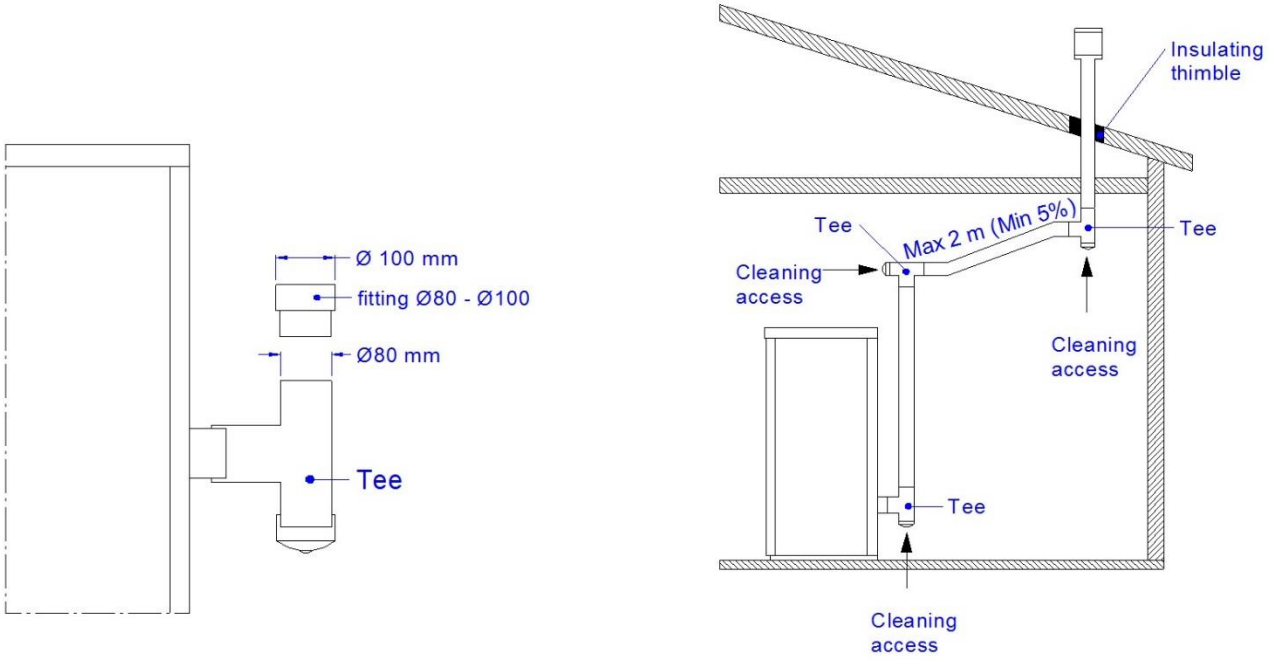
9 kW stoves must be fitted with a 1 m-long pipe (Φ 80 mm) certified to EN 1856-2 standard.

11 kW Slim stoves must be fitted with a 1 m-long pipe (Φ 80 mm) certified to EN 1856-2 standard.



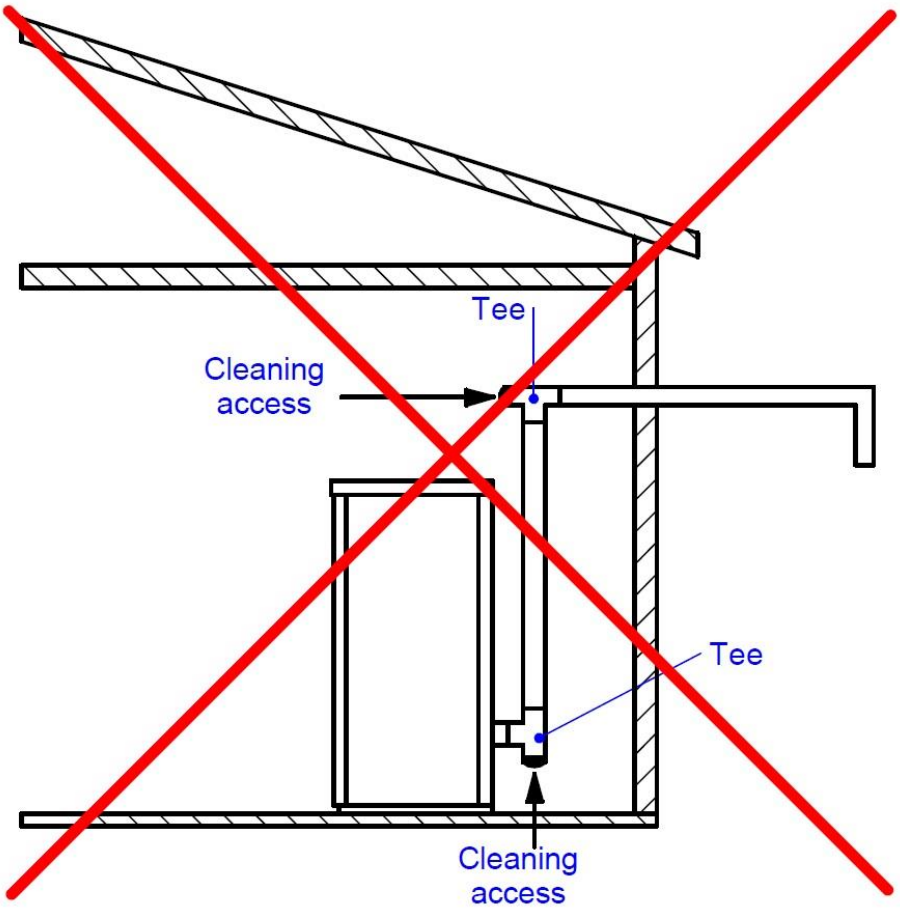
07. INSTALLATION INSTRUCTIONS

INSTALLATION EXAMPLE:



EXAMPLE OF INCORRECT INSTALLATION:

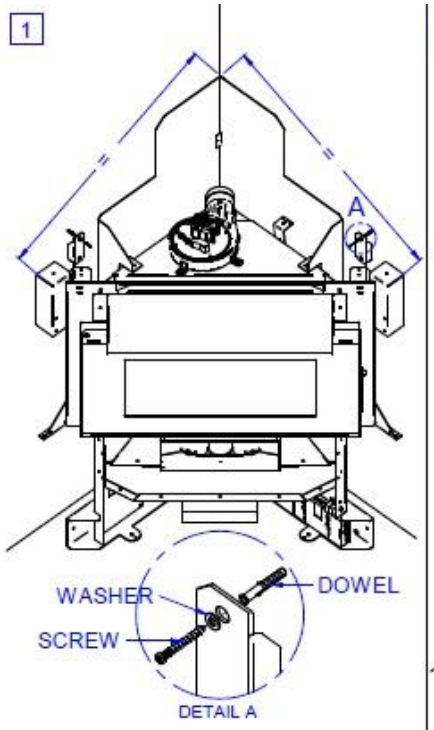
Exhaust pipes must never be fitted pointing downwards or horizontally so that fumes are discharged directly through the external wall.



12kW SHEET METAL CORNER STOVE

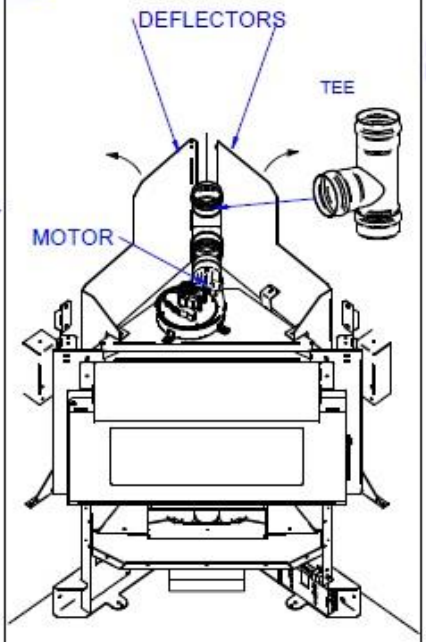
After making sure that the insert fits into the recess and there are a socket and a vent pipe

1



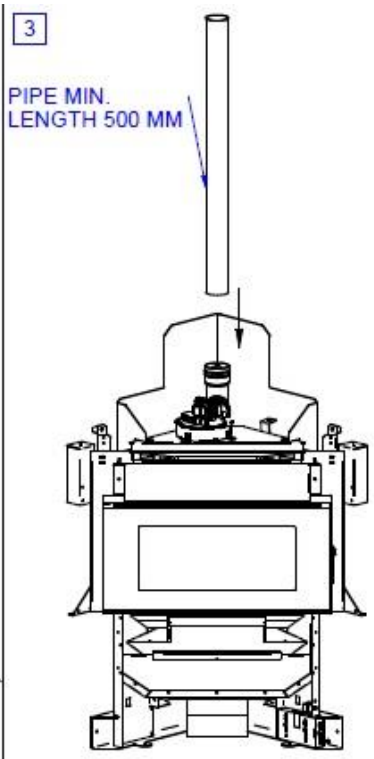
MAKE SURE THAT DISTANCE BETWEEN BRACKET AND WALL CORNER IS THE SAME ON BOTH SIDES.
FIX STRUCTURE USING SCREWS AND DOWELS (Ø 6).

2



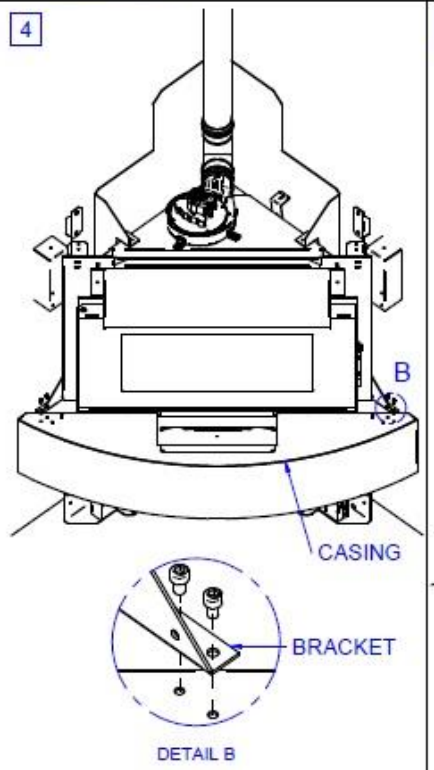
OPEN DEFLECTORS TO INSERT TEE IN EXHAUST MOTOR MORE EASILY.
THEN CLOSE THEM.

3



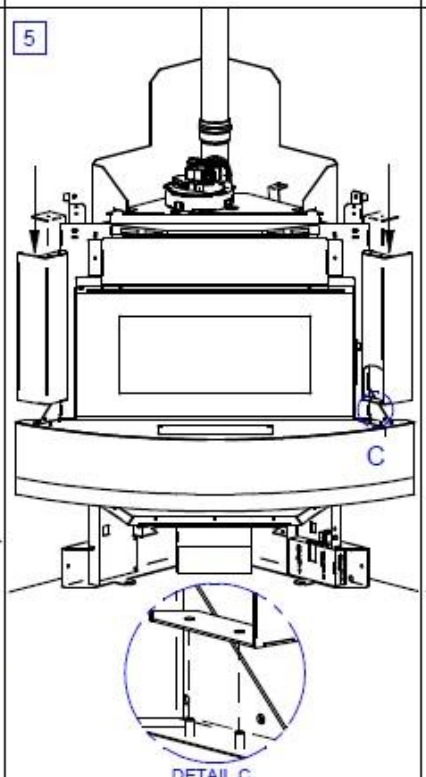
BEFORE CONNECTING TO VENT PIPE,
INSERT A PIPE (AT LEAST 500 MM-LONG) IN TEE.
THEN CONNECT POWER SUPPLY CABLE.

4



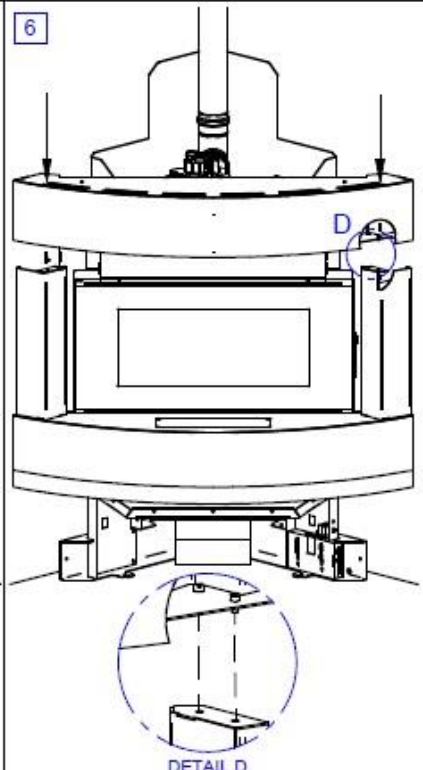
FIX LOWER CASING TO INSERT BRACKETS USING THE FOUR M6x10 SCREWS

5



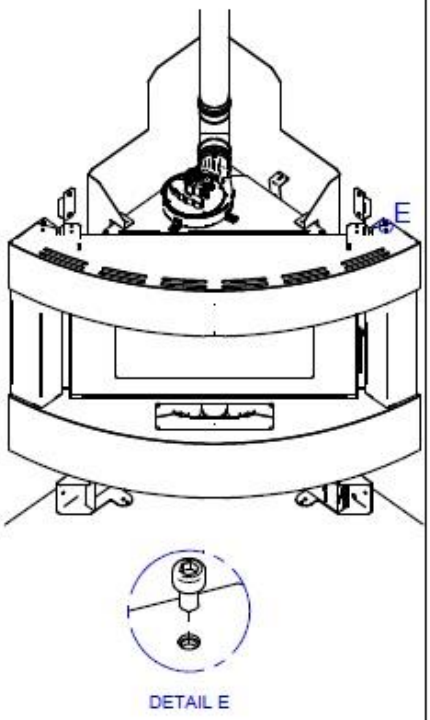
INSERT THE TWO SIDE COLUMNS MAKING SURE THAT HOLES CORRESPOND TO THE TWO LOWER CASING SCREWS

6



INSERT UPPER CASING MAKING SURE THAT SCREWS CORRESPOND TO SIDE COLUMN HOLES

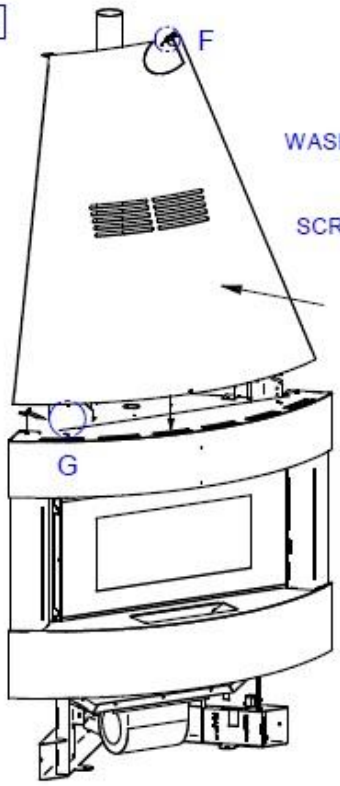
7

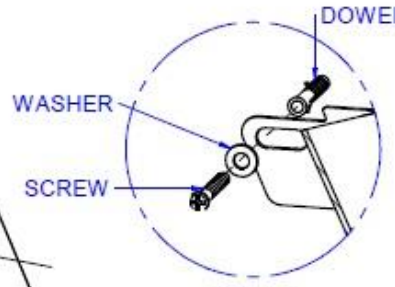


DETAIL E

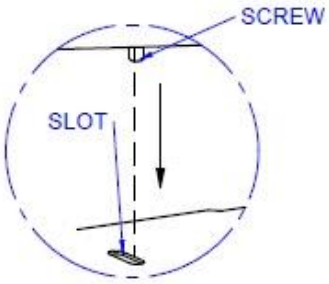
FIX UPPER CASING USING THE TWO M6x10 SCREWS

8





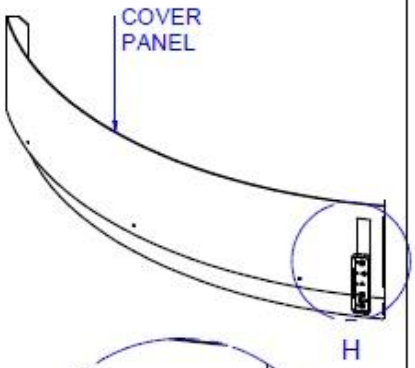
DETAIL F

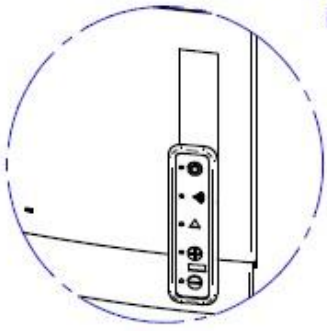


DETAIL G

INSERT HOOD MAKING SURE THAT THE TWO SCREWS CORRESPOND TO UPPER CASING SLOTS

9

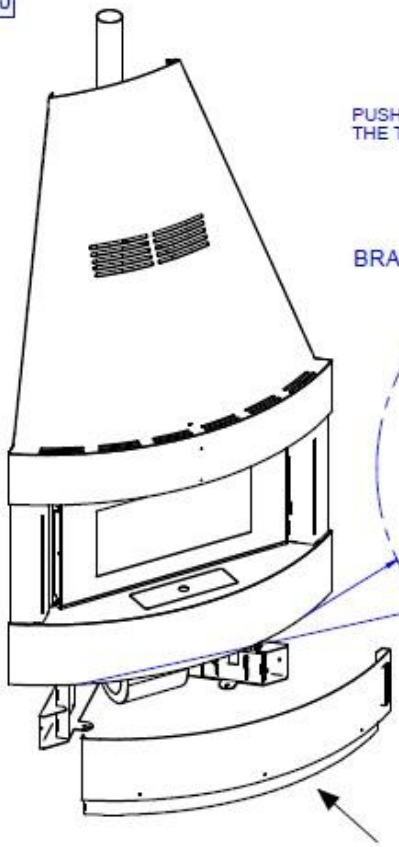




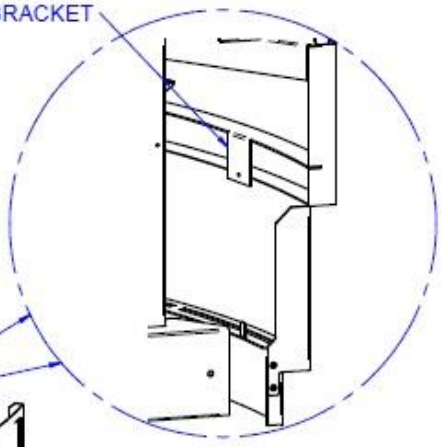
DETAIL H

ATTACH ADHESIVE DISPLAY ON RELEVANT SEAT IN COVER PANEL

10



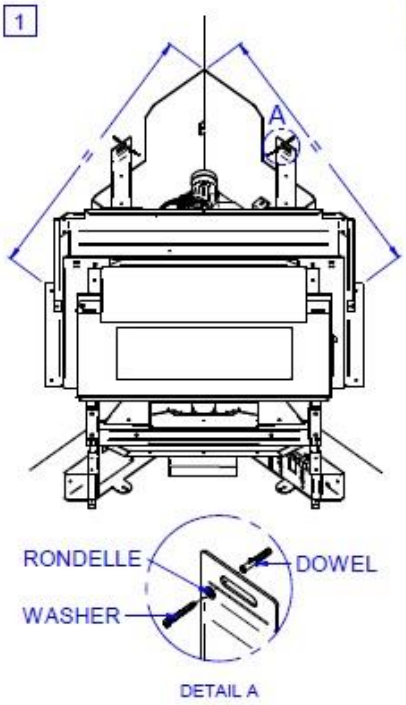
PUSH COVER PANEL UNTIL IT RESTS ON THE TWO LOWER CASING BRACKETS



12kW STONE CORNER INSERTS

After making sure that the insert fits into the recess and there are a socket and a vent pipe

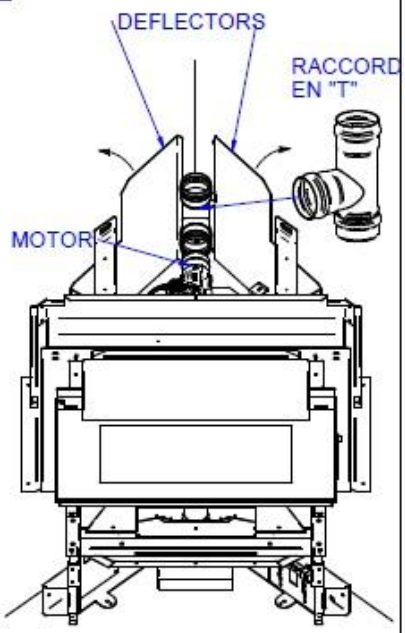
1



DETAIL A

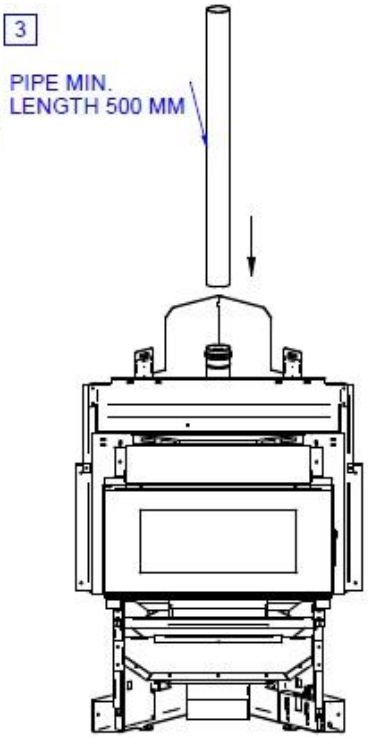
MAKE SURE THAT DISTANCE BETWEEN BRACKET AND WALL CORNER IS THE SAME ON BOTH SIDES.
FIX STRUCTURE USING SCREWS AND DOWELS (Ø 6 - NOT SUPPLIED).

2



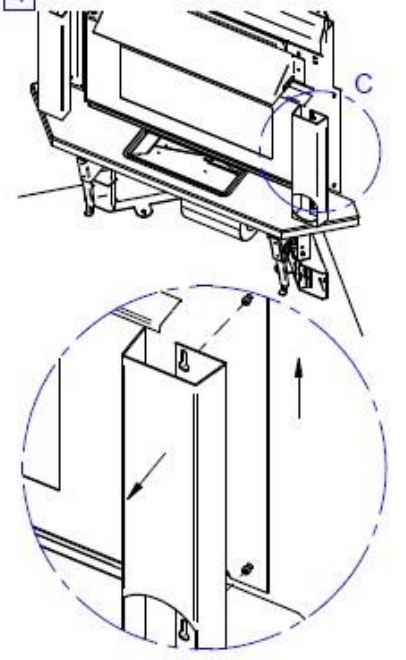
OPEN DEFLECTORS TO INSERT TEE (NOT SUPPLIED) IN EXHAUST MOTOR MORE EASILY.

3



BEFORE CONNECTING TO VENT PIPE, INSERT A PIPE (AT LEAST 500 MM LONG–NOT SUPPLIED) IN TEE. THEN CONNECT POWER SUPPLY CABLE

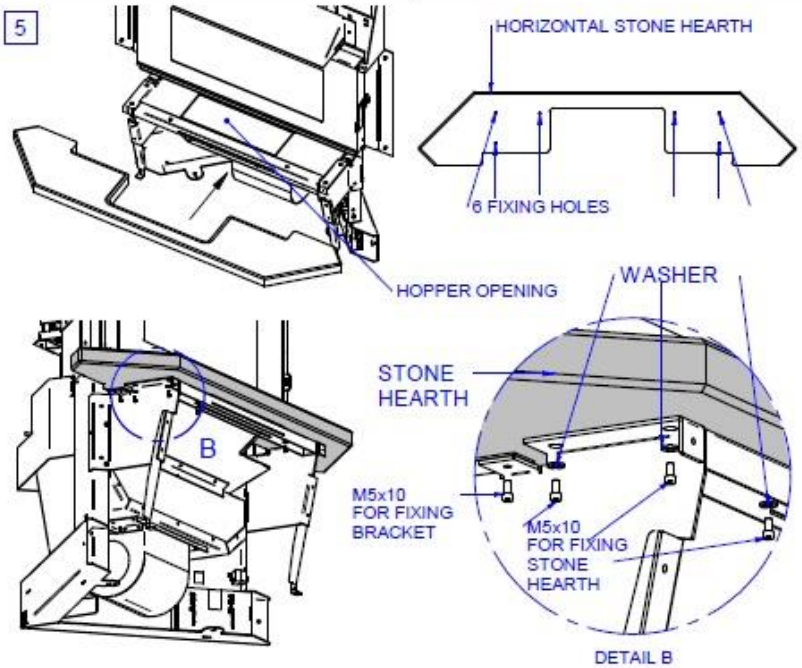
4



DETAIL C

REMOVE THE TWO SIDE COLUMNS BY PULLING THEM UPWARDS

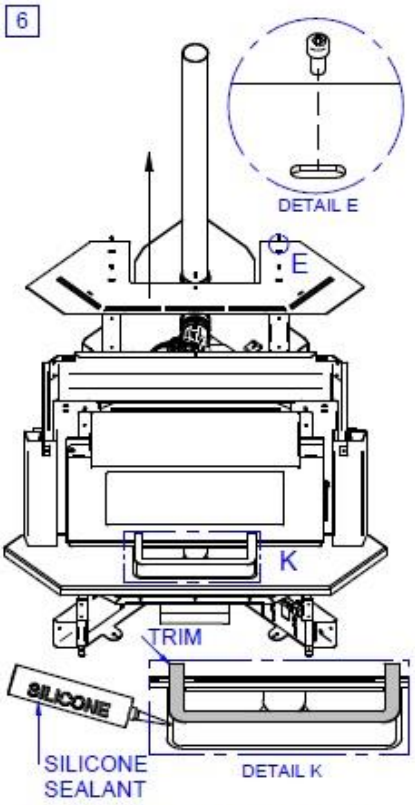
5



DETAIL B

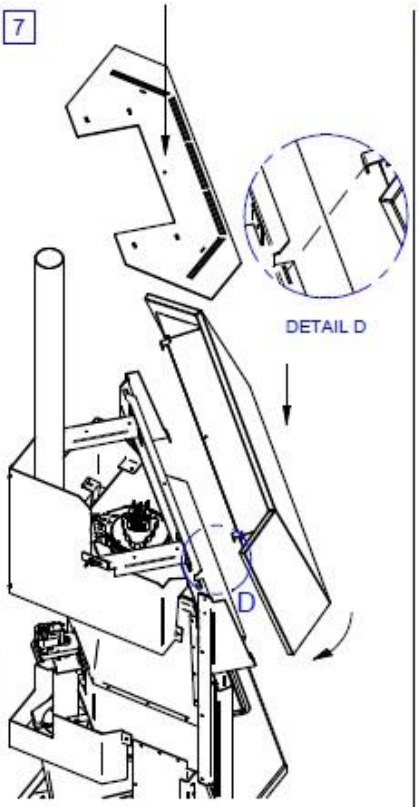
INSERT STONE HEARTH CENTERING IT WITH RESPECT TO HOPPER OPENING AND FIX IT INTO PLACE USING THE SIX M5x10 SCREWS.
FIX BRACKET BY TIGHTENING THE TWO M5x10 SCREWS (LOCATED TOWARDS THE REAR PART OF THE INSERT).
PUT SIDE COLUMNS (PREVIOUSLY REMOVED) BACK INTO PLACE.

6



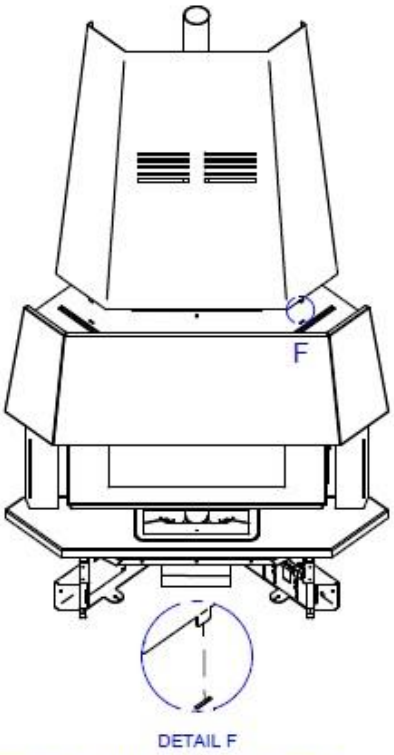
FIX GALVANISED INFILL TRIM, LOCATED BETWEEN HOPPER AND STONE, USING SILICONE SEALANT.
REMOVE THE FOUR M5x10 SCREWS TO REMOVE METAL UPPER TOP.

7



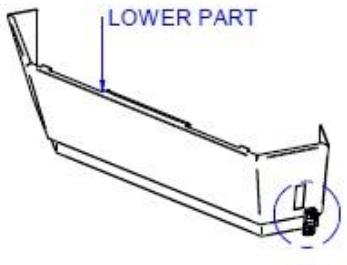
INSERT STONE FRONT PANEL HOOKS IN STRUCTURE SLOTS. REST FRONT PANEL CAREFULLY ON STRUCTURE. FIX METAL UPPER TOP BACK INTO PLACE USING THE 4 SCREWS.

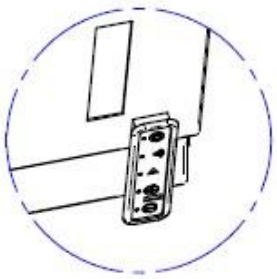
8



INSTALL HOOD MAKING SURE THAT THE 2 LUGS CORRESPOND TO METAL UPPER TOP SLOTS AND REST IT ON WALL.

9

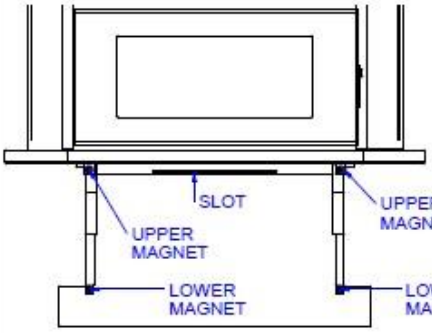


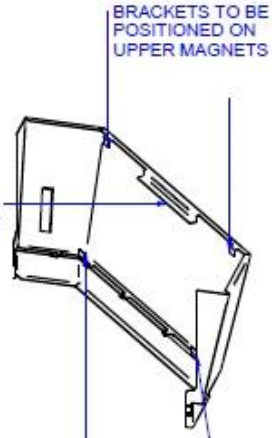


REMOVE FILM FROM BACK OF DISPLAY AND ATTACH IT ON LOWER PART SEAT.

10

PUSH LOWER PART TOWARDS STRUCTURE MAKING SURE FLANGE CORRESPOND TO SLOT AND BRACKETS TO MAGNETS





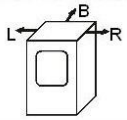
CE 14

Potenza Bruciata Puissance brulee Burnt power Potencia quemada	massima/maximale maxim/máxima minima/minimale minimum/mínima	5,6 kW 2,3 kW
Potenza resa in riscaldamento Puissance chauffee Heating capacity Potencia suministrada al entorno	massima/maximale maxim/máxima minima/minimale minimum/mínima	4,5 kW 2,0 kW
CO misurato (al 13% di O) a potenza CO mesure (avec 13% di O) a puissance CO measured (13% of O) power CO medido (a 13% de O) con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	0,010% 0,023%
Rendimento misurato a potenza Rendement mesure a puissance Performance measured power Rendimiento medido con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	86,0% 88,5%
Tensione nominale/Tension nominale Rated voltage/Voltaje nominal		230 V
Frequenza nominale/Frequence nominale Nominal frequency/Frecuencia nominal		50 Hz
Potenza nominale/Puissance nominale Rated power/Potencia nominal		320 W

Modello/Model/Model/Modelo: 4,5 KW

Norma/Norme/Norms/Normas:EN14785:2006

Distanza minima da materiali infiammabili.
Distance minimale materiaux inflammables.
Minimum distance from flammable materials.
Distancia mínima de materiales inflamables.



R= 300 mm
B= 40 mm
L= 300 mm

Leggere e seguire le istruzione d'uso.
Lire et suivre les instructions du manuel utilisateur.
Read and follow the operating instructions.
Leer y seguir las instrucciones.

Usare solo i combustibili raccomandati.
Utiliser uniquement le combustible recommande.
Use only recommended fuels.
Use sólo los combustibles recomendados.

CE 10

Potenza Bruciata Puissance brulee Burnt power Potencia quemada	massima/maximale maxim/máxima minima/minimale minimum/mínima	7,0 kW 3,5 kW
Potenza resa in riscaldamento Puissance chauffee Heating capacity Potencia suministrada al entorno	massima/maximale maxim/máxima minima/minimale minimum/mínima	6,0 kW 3,2 kW
CO misurato (al 13% di O) a potenza CO mesure (avec 13% di O) a puissance CO measured (13% of O) power CO medido (a 13% de O) con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	0,018% 0,040%
Rendimento misurato a potenza Rendement mesure a puissance Performance measured power Rendimiento medido con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	86% 91%
Tensione nominale/Tension nominale Rated voltage/Voltaje nominal		230 V
Frequenza nominale/Frequence nominale Nominal frequency/Frecuencia nominal		50 Hz
Potenza nominale/Puissance nominale Rated power/Potencia nominal		380 W

Modello/Model/Model/Modelo: 7 KW

Norma/Norme/Norms/Normas:EN14785:2006

Distanza minima da materiali infiammabili.
Distance minimale materiaux inflammables.
Minimum distance from flammable materials.
Distancia mínima de materiales inflamables.

R= 300 mm
B= 200 mm
L= 300 mm

Leggere e seguire le istruzione d'uso.
Lire et suivre les instructions du manuel utilisateur.
Read and follow the operating instructions.
Leer y seguir las instrucciones.

Usare solo i combustibili raccomandati.
Utiliser uniquement le combustible recommande.
Use only recommended fuels.
Use sólo los combustibles recomendados.

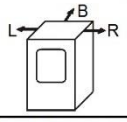
CE 14

Potenza Bruciata Puissance brulee Burnt power Potencia quemada	massima/maximale maxim/máxima minima/minimale minimum/mínima	7,6 kW 3,4 kW
Potenza resa in riscaldamento Puissance chauffee Heating capacity Potencia suministrada al entorno	massima/maximale maxim/máxima minima/minimale minimum/mínima	6,5 kW 3,0 kW
CO misurato (al 13% di O) a potenza CO mesure (avec 13% di O) a puissance CO measured (13% of O) power CO medido (a 13% de O) con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	0,010% 0,028%
Rendimento misurato a potenza Rendement mesure a puissance Performance measured power Rendimiento medido con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	88,5% 90,5%
Tensione nominale/Tension nominale Rated voltage/Voltaje nominal		230 V
Frequenza nominale/Frequence nominale Nominal frequency/Frecuencia nominal		50 Hz
Potenza nominale/Puissance nominale Rated power/Potencia nominal		360 W

Modello/Model/Model/Modelo: 7,5 KW

Norma/Norme/Norms/Normas: EN14785:2006

Distanza minima da materiali infiammabili.
Distance minimale materiaux inflammables.
Minimum distance from flammable materials.
Distancia mínima de materiales inflamables.



R= 300 mm
B= 100 mm
L= 300 mm

Leggere e seguire le istruzione d'uso.
Lire et suivre les instructions du manuel utilisateur.
Read and follow the operating instructions.
Leer y seguir las instrucciones.

Usare solo i combustibili raccomandati.
Utiliser uniquement le combustible recommande.
Use only recommended fuels.
Use sólo los combustibles recomendados.

CE 14

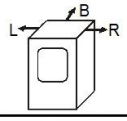
Potenza bruciata Puissance brulee Burnt power Potencia quemada	massima/maximale maxim/maxima minima/minimale minimum/mínima	8,8 kW 2,8 kW
Potenza resa in riscaldamento Puissance chauffee Heating capacity Potencia suministrada al entorno	massima/maximale maxim/maxima minima/minimale minimum/mínima	8,0 kW 2,5 kW
CO misurato (al 13% di O) a potenza CO mesure (avec 13% di O) a puissance CO measured (13% of O) power CO medido (a 13% de O) con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	0,016% 0,013%
Rendimento misurato a potenza Rendement mesure a puissance Performance measured power Rendimiento medido con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	85,5% 90,0%
Tensione nominale/Tension nominale Rated voltage/Voltaje nominal		230 V
Frequenza nominale/Frequence nominale Nominal frequency/Frecuencia nominal		50 Hz
Potenza nominale/Puissance nominale Rated power/Potencia nominal		320 W

Tipo/Type/Type/Tipo: SPCT7,5

Modello/Model/Model/Modelo: 9 KW

Norma/Norme/Norms/Normas: EN14785:2006

Distanza minima da materiali infiammabili.
Distance minimale materiaux inflammables.
Minimum distance from flammable materials.
Distancia mínima de materiales inflamables.



R= 250 mm
B= 100 mm
L= 250 mm

Leggere e seguire le istruzione d'uso.
Lire et suivre les instructions du manuel utilisateur.
Read and follow the operating instructions.
Leer y seguir las instrucciones.

Usare solo i combustibili raccomandati.
Utiliser uniquement le combustible recommande.
Use only recommended fuels.
Use sólo los combustibles recomendados.

CE 15

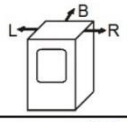
Potenza Bruciata Puissance brulee Burnt power Potencia quemada	massima/maximale maxim/maxima minima/minimale minimum/mínima	10,4 kW 3,5 kW
Potenza resa in riscaldamento Puissance chauffee Heating capacity Potencia suministrada al entorno	massima/maximale maxim/maxima minima/minimale minimum/mínima	9,0 kW 3,2 kW
CO misurato (al 13% di O) a potenza CO mesure (avec 13% di O) a puissance CO measured (13% of O) power CO medido (a 13% de O) con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	0,012% 0,020%
Rendimento misurato a potenza Rendement mesure a puissance Performance measured power Rendimiento medido con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	86,5% 90,5%
Tensione nominale/Tension nominale Rated voltage/Voltaje nominal		230 V
Frequenza nominale/Frequence nominale Nominal frequency/Frecuencia nominal		50 Hz
Potenza nominale/Puissance nominale Rated power/Potencia nominal		330 W

Tipo/Type/Type/Tipo: SPV-M9

Modello/Model/Model/Modelo: 11 KW

Norma/Norme/Norms/Normas: EN14785:2006

Distanza minima da materiali infiammabili.
Distance minimale materiaux inflammables.
Minimum distance from flammable materials.
Distancia mínima de materiales inflamables.



R= 300 mm
B= 200 mm
L= 300 mm

Leggere e seguire le istruzione d'uso.
Lire et suivre les instructions du manuel utilisateur.
Read and follow the operating instructions.
Leer y seguir las instrucciones.

Usare solo i combustibili raccomandati.
Utiliser uniquement le combustible recommande.
Use only recommended fuels.
Use sólo los combustibles recomendados.

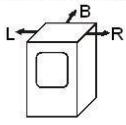
CE 14

Potenza Bruciata Puissance brulee Burnt power Potencia quemada	massima/maximale maxim/máxima minima/minimale minimum/mínima	12,0 kW 4,0 kW
Potenza resa in riscaldamento Puissance chauffee Heating capacity Potencia suministrada al entorno	massima/maximale maxim/máxima minima/minimale minimum/mínima	10,5 kW 3,3 kW
CO misurato (al 13% di O) a potenza CO mesure (avec 13% di O) a puissance CO measured (13% of O) power CO medido (a 13% de O) con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	0,012% 0,053%
Rendimento misurato a potenza Rendement mesure a puissance Performance measured power Rendimiento medido con la potencia	massima/maximale maxim/máxima minima/minimale minimum/mínima	89% 89%
Tensione nominale/Tension nominale Rated voltage/Voltaje nominal		230 V
Frequenza nominale/Frequence nominale Nominal frequency/Frecuencia nominal		50 Hz
Potenza nominale/Puissance nominale Rated power/Potencia nominal		410 W

Modello/Model/Model/Modelo:
STUFA 12 KW AD ANGOLO

Norma/Norme/Norms/Normas: EN14785:2006

Distanza minima da materiali infiammabili.
Distance minimale materiaux inflammables.
Minimum distance from flammable materials.
Distancia mínima de materiales inflamables.



R= 60 mm
B= 60 mm
L= 60 mm

Leggere e seguire le istruzione d'uso.
Lire et suivre les instructions du manuel utilisateur.
Read and follow the operating instructions.
Leer y seguir las instrucciones.

Usare solo i combustibili raccomandati.
Utiliser uniquement le combustible recommande.
Use only recommended fuels.
Use sólo los combustibles recomendados.

CE13

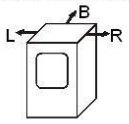
Potenza Bruciata Puissance brulee Burnt power Potencia quemada	massima/maximale maxim/máxima	12,9kW
	minima/minimale minimum/mínima	4,0 kW
Potenza resa in riscaldamento Puissance chauffee Heating capacity Potencia suministrada al entorno	massima/maximale maxim/máxima	11 kW
	minima/minimale minimum/mínima	3,5 kW
CO misurato (al 13% di O) a potenza CO mesure (avec 13% di O) a puissance CO measured (13% of O) power CO medido (a 13% de O) con la potencia	massima/maximale maxim/máxima	0,013%
	minima/minimale minimum/mínima	0,049%
Rendimento misurato a potenza Rendement mesure a puissance Performance measured power Rendimiento medido con la potencia	massima/maximale maxim/máxima	85%
	minima/minimale minimum/mínima	87,5%
Tensione nominale/Tension nominale Rated voltage/Voltaje nominal		230 V
Frequenza nominale/Frequence nominale Nominal frequency/Frecuencia nominal		50 Hz
Potenza nominale/Puissance nominale Rated power/Potencia nominal		320 W

Tipo/Type/Type/Tipo:SPV-M11

Modello/Model/Model/Modelo: 13,5 KW

Norma/Norme/Norms/Normas:EN14785:2006

Distanza minima da materiali infiammabili.
Distance minimale materiaux inflammables.
Minimum distance from flammable materials.
Distancia mínima de materiales inflamables.



R= 300 mm
B= 200 mm
L= 300 mm

Leggere e seguire le istruzione d'uso.
Lire et suivre les instructions du manuel utilisateur.
Read and follow the operating instructions.
Leer y seguir las instrucciones.

Usare solo i combustibili raccomandati.
Utiliser uniquement le combustible recommande.
Use only recommended fuels.
Use sólo los combustibles recomendados.

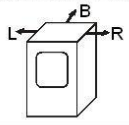
CE11

Potenza Bruciata Puissance brulee Burnt power Potencia quemada	massima/maximale maxim/máxima	14,5 kW
	minima/minimale minimum/mínima	5,9 kW
Potenza resa in riscaldamento Puissance chauffee Heating capacity Potencia suministrada al entorno	massima/maximale maxim/máxima	13 kW
	minima/minimale minimum/mínima	5,4 kW
CO misurato (al 13% di O) a potenza CO mesure (avec 13% di O) a puissance CO measured (13% of O) power CO medido (a 13% de O) con la potencia	massima/maximale maxim/máxima	0,017%
	minima/minimale minimum/mínima	0,026%
Rendimento misurato a potenza Rendement mesure a puissance Performance measured power Rendimiento medido con la potencia	massima/maximale maxim/máxima	88%
	minima/minimale minimum/mínima	89,5%
Tensione nominale/Tension nominale Rated voltage/Voltaje nominal		230 V
Frequenza nominale/Frequence nominale Nominal frequency/Frecuencia nominal		50 Hz
Potenza nominale/Puissance nominale Rated power/Potencia nominal		360 W

Modello/Model/Model/Modelo: 14, 5 KW

Norma/Norme/Norms/Normas:EN14785:2006

Distanza minima da materiali infiammabili.
Distance minimale materiaux inflammables.
Minimum distance from flammable materials.
Distancia mínima de materiales inflamables.



R= 300 mm
B= 200 mm
L= 300 mm

Leggere e seguire le istruzione d'uso.
Lire et suivre les instructions du manuel utilisateur.
Read and follow the operating instructions.
Leer y seguir las instrucciones.

Usare solo i combustibili raccomandati.
Utiliser uniquement le combustible recommande.
Use only recommended fuels.
Use sólo los combustibles recomendados.

CE13

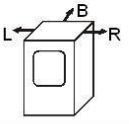
Potenza Bruciata Puissance brulee Burnt power Potencia quemada	massima/maximale maxim/máxima	15,4kW
	minima/minimale minimum/mínima	5,2 kW
Potenza resa in riscaldamento Puissance chauffee Heating capacity Potencia suministrada al entorno	massima/maximale maxim/máxima	13 kW
	minima/minimale minimum/mínima	4,6 kW
CO misurato (al 13% di O) a potenza CO mesure (avec 13% di O) a puissance CO measured (13% of O) power CO medido (a 13% de O) con la potencia	massima/maximale maxim/máxima	0,012%
	minima/minimale minimum/mínima	0,039%
Rendimento misurato a potenza Rendement mesure a puissance Performance measured power Rendimiento medido con la potencia	massima/maximale maxim/máxima	85%
	minima/minimale minimum/mínima	88,5%
Tensione nominale/Tension nominale Rated voltage/Voltaje nominal		230 V
Frequenza nominale/Frequence nominale Nominal frequency/Frecuencia nominal		50 Hz
Potenza nominale/Puissance nominale Rated power/Potencia nominal		340 W

Tipo/Type/Type/Tipo:SPV-M13

Modello/Model/Model/Modelo: 15 KW

Norma/Norme/Norms/Normas:EN14785:2006

Distanza minima da materiali infiammabili.
Distance minimale materiaux inflammables.
Minimum distance from flammable materials.
Distancia mínima de materiales inflamables.



R= 300 mm
B= 200 mm
L= 300 mm

Leggere e seguire le istruzione d'uso.
Lire et suivre les instructions du manuel utilisateur.
Read and follow the operating instructions.
Leer y seguir las instrucciones.

Usare solo i combustibili raccomandati.
Utiliser uniquement le combustible recommande.
Use only recommended fuels.
Use sólo los combustibles recomendados.

09.1 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.

09.1.1 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.

09.2 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.

09.3 The displays

Status/Heat Output/Paramenter 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.

09.4 User functions

09.4.1 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.

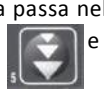
09.4.2 Pellet manual loading

Press P5  and P6  buttons simultaneously to load the pellets. This function is available only when the stove is switched off and cold.

09.4.3 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.

09.4.4 Working mode

Dopo che la temperatura dei fumi ha raggiunto e superato il valore contenuto in PR13 e lo ha mantenuto per almeno un tempo PR02, la stufa passa nella modalità lavoro che è quella normale di esercizio. Il display superiore visualizza la potenza impostata con i tasti P5  e P6 e  quello inferiore la temperatura ambiente.

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.

09.4.5 Changing set heat output

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

09.4.6 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.

09.4.7 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.

09.4.8 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.

09.4.9 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 pm
UT03	Current time minute setting	From 00 to 60
UT04	ONLY FOR TECHNICIANS – DO NOT enter any setting	
UT05	PROGRAMME 1 switching-on time setting	From 00:00 to 11:50 pm by 10'
UT06	PROGRAMME 1 switching-off time setting	From 00:00 to 11:50 pm by 10'
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'
UT09	PROGRAMME 2 switching-off time setting	From 00:00 to 11:50 pm by 10'
UT10	Day selection with stove switching on according to PROGRAMME 2	On/off for days from 1 to 7
UT11	PROGRAMME 3 switching-on time setting	From 00:00 to 11:50 pm by 10'
UT12	PROGRAMME 3 switching-off time setting	From 00:00 to 11:50 pm by 10'
UT13	Day selection with stove switching on according to PROGRAMME 3	On/off for days from 1 to 7
UT14	PROGRAMME 4 switching-on time setting	From 00:00 to 11:50 pm by 10'
UT15	PROGRAMME 4 switching-off time setting	From 00:00 to 11:50 pm by 10'
UT16	Day selection with stove switching on according to PROGRAMME 4	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 Wednesda	Day 4 Thursda	Day 5 Friday	Day 6 Saturda	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.
UT010
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.
PROGRAMME 2 SWITCHING ON/OFF (afternoon)

Day 1 Monday	Day 2 Tuesday	Day 3 Wednesda	Day 4 Thursda	Day 5 Friday	Day 6 Saturda	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)
PROGRAMME1
UT05 --- 1st SWITCHING ON (e.g. 07:00am)
UT06 --- 1st 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 --- 2nd SWITCHING ON (e.g. 06:00pm)
UT09 --- 2nd 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)

09.5 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
Alarm	Display shows

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

09.5.1 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.

09.5.2 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.
.

09.5.3 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.

09.5.4 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.

09.5.6 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.

09.5.7 No electrical supply alarm

The lack of electrical supply during the work, stops the functioning of electrical components of the stove. When the electrical supply is restored the stove shows the alarm “NO RETE” and it is necessary to switch on again. Then after waiting for a cooling period , **COOL FIRE,** till when the smoke temperature goes below the limit temperature set at parameter Pr13.

09.5.8 Damage exhaust blower alarm

In case the exhaust blower (smoke fan) gets broken, the stove switches off and it is displayed the message **ALARM FAN FAIL.**

09.6 Stoves with ducting system (only 14.5 kW models)

9.6.1 Fan no. 2 speed setting

To set the speed of the second exchanger, press P3 (SET) button and then P6 repeatedly to select the desired value.

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.

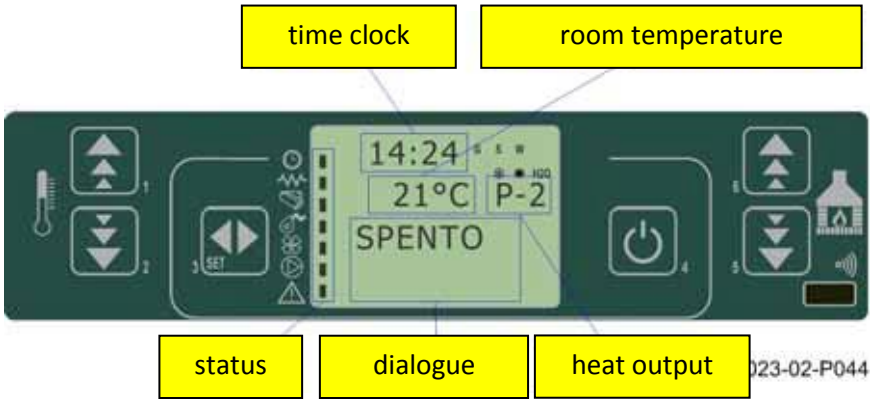


fig.2

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.

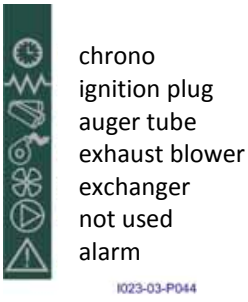


fig.3

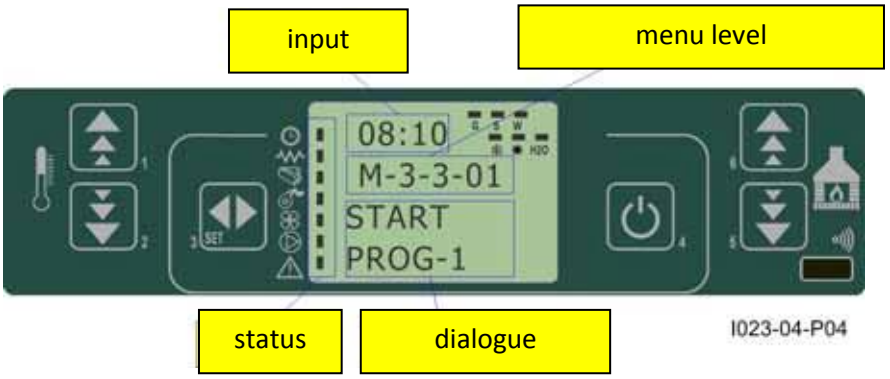


fig.4

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 programmino 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.

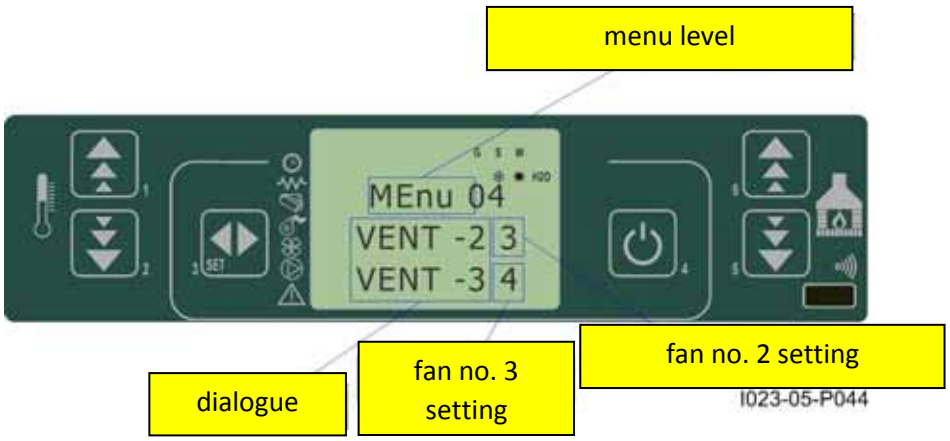
level 1	level 2	level 3	level 4	value
01 – fan adjustment				select value
02 - time clock setting				
	01 - day			week day
	02 - hours			hour
	03 - minutes			minute
	04 - day			day month
	05 - month			month
	06 - year			year
03 – chrono setting				
	01 – enable chrono			
		01 - enable chrono		on/off
	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

level 1	level 2	level 3	level 4	value
		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		
04 – select language				
	01 - Italian			set
	02 - French			set
	03 - English			set
	04 - German			set
05 - stand-by mode				on/off
06 - buzzer				on/off
07 – initial load				set
08 – stove status				-

10.2.2 Menu 01-fan adjustment

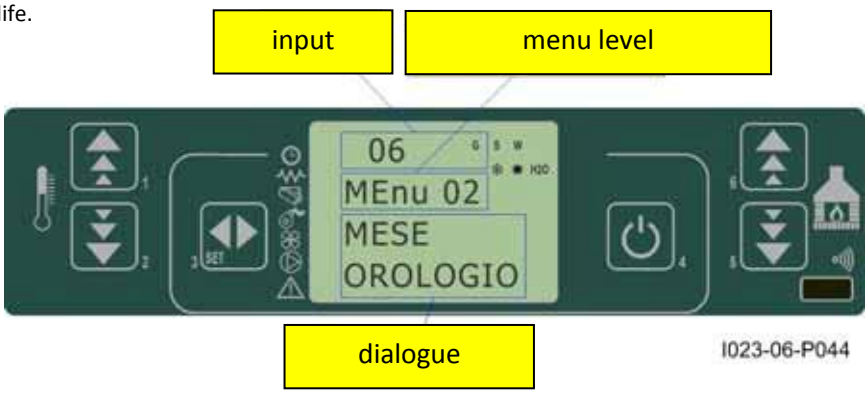
Use this function to independently adjust the two additional blowers.
The settings available for each blower are listed in the table below. Press P1  (fan 2) and P2  (fan 3) to select setting.

setting	blower 2	blower 3
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



10.2.3 Menu 02 - time clock setting

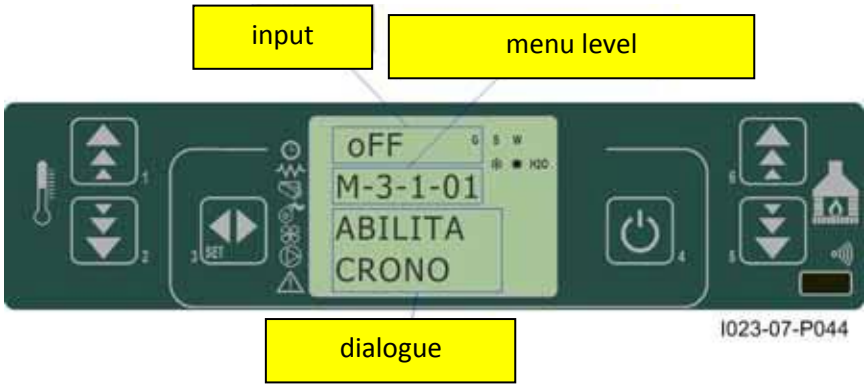
Use this function to set current time and date. The control board is equipped with a lithium battery guaranteeing the internal time clock a 3/5 year-long life.



10.2.4 Menu 03 - chrono setting

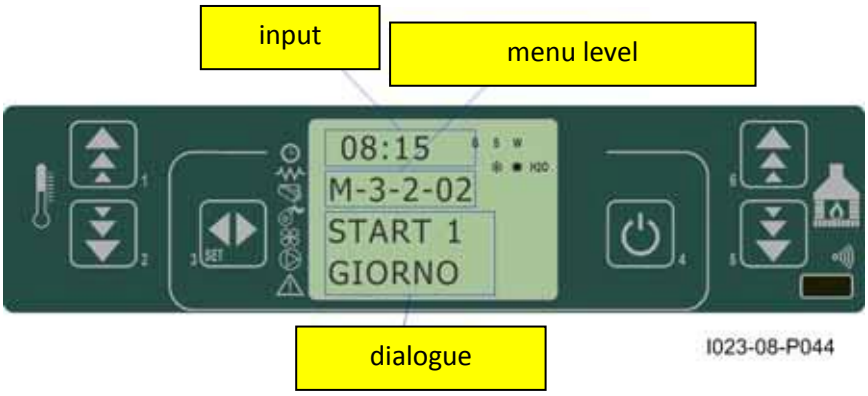
Sub-menu 03 - 01 – enable chrono

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.

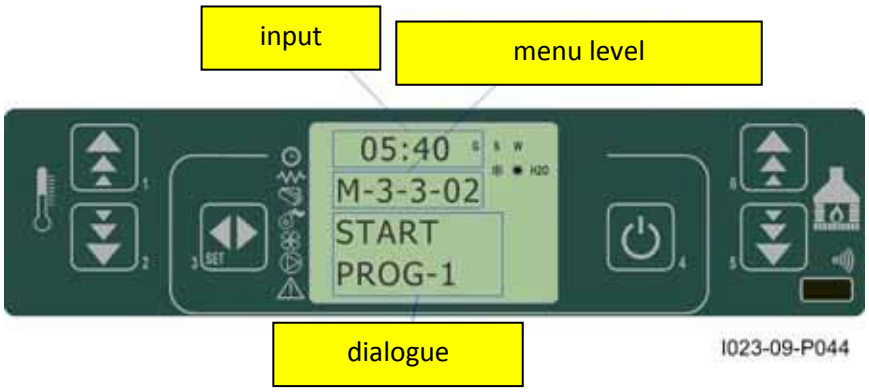


It is possible to set two on/off times defined by the times set according to the table below. If the value is set to OFF, the time clock ignores the control.

setting	meaning	available values
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 ingnores 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.

PROGRAMME 1			
menu level	**setting**	**meaning**	**available values**
03-03-02	START PROG 1	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

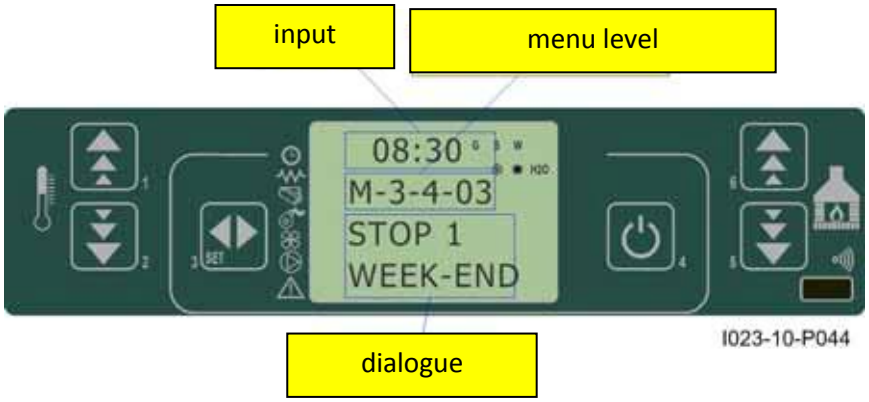
PROGRAMME 2			
menu level	***setting***	***meaning***	***available values***
03-03-11	START PROG 2	switching on time	ora - OFF
03-03-12	STOP PROG 2	switching off time	ora - OFF
03-03-13	MONDAY PROG 2	reference day	on/off
03-03-14	TUESDAY PROG 2		on/off
03-03-15	WEDNESDAY PROG 2		on/off
03-03-16	THURSDAY 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

PROGRAMME 3			
menu level	***setting***	***meaning***	***available values***
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

PROGRAMME 4			
menu level	***setting***	***meaning***	***available values***
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).



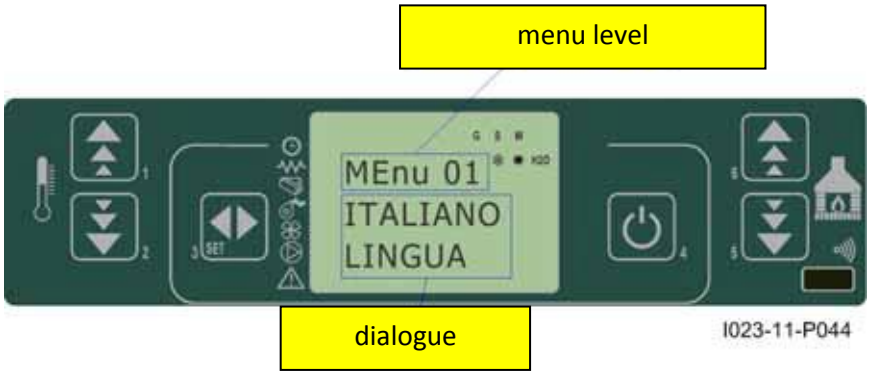
TIP: if you still do not know exactly the result you want to obtain, enable only one programme at a time to avoid confusion and unwanted stove switching on and off.

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, set by Pr44, during which the room temperature remained at a value higher than the SET temperature.

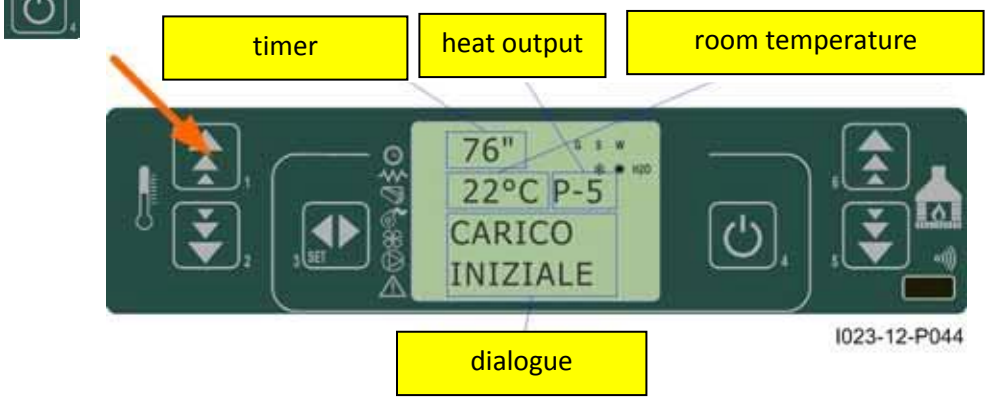
Only if the following condition occurs - $T_{SET} < (T_{ambiente} - Pr43)$, it is then possible to switch the stove back on.

10.2.7 Menu 06 - buzzer mode

Set it to “OFF” to disable the buzzer.

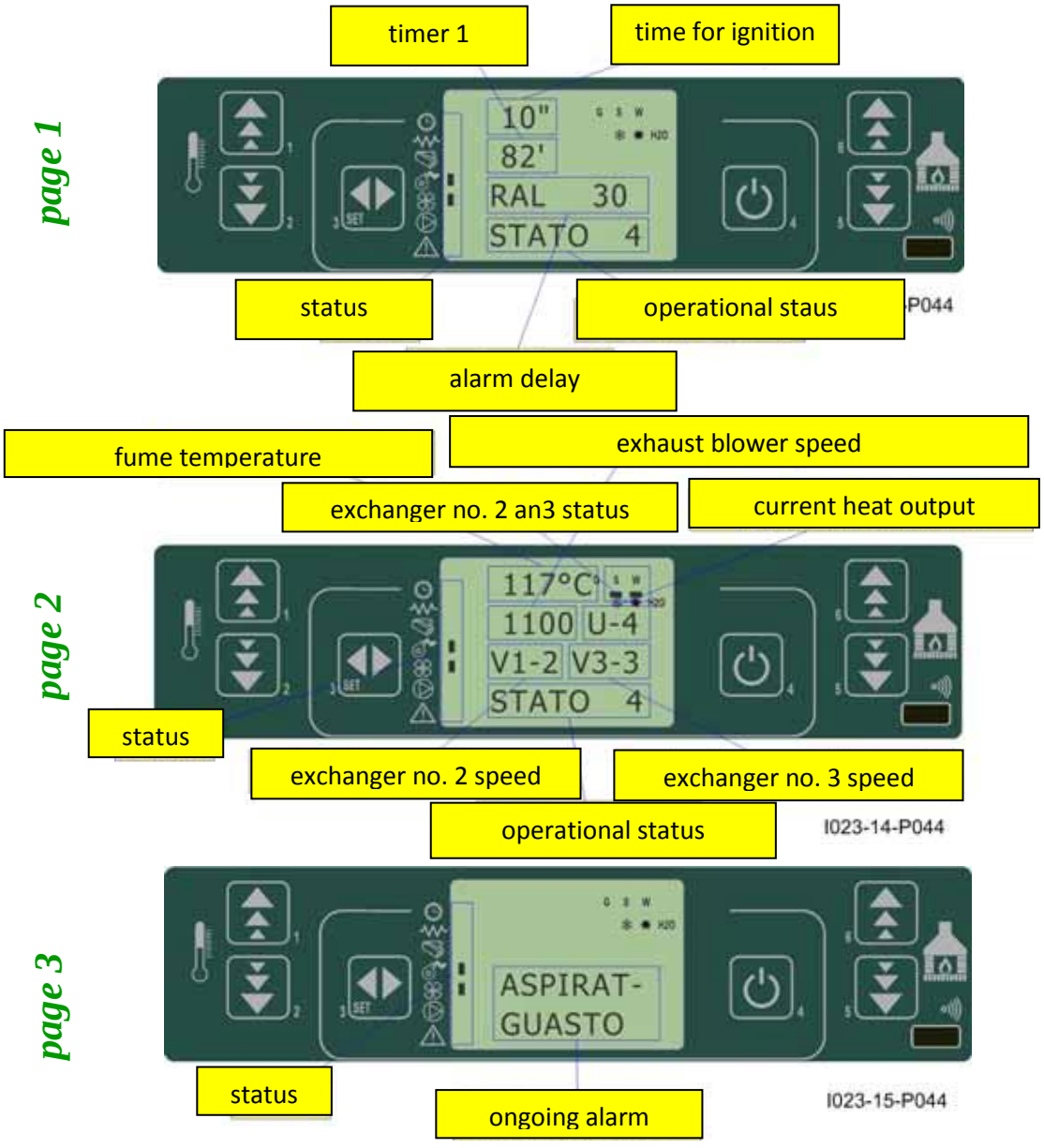
10.2.8 Menu 07 - initial load

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.



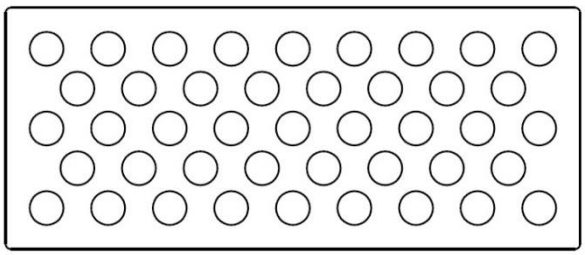
10.2.9 Menu 08 - stove status

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

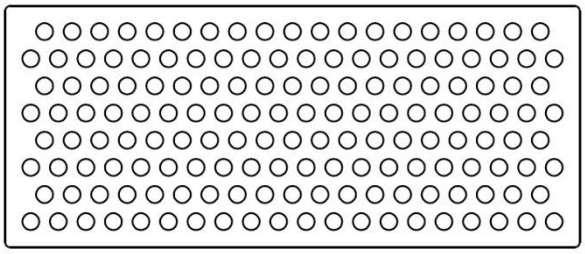


10.2.10 Menù 09 – Kind of fuel

BURNER FOR PELLET



BURNER FOR WALNUT SHELL



Important: do not inter change the two different bottom of the burner

Choise of the kind of fuel from the main menù.

- Kind of fuel 1 = PELLET
- Kind of fuel 2 = NOCCIOLINO (WALNUT SHELL)

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*.

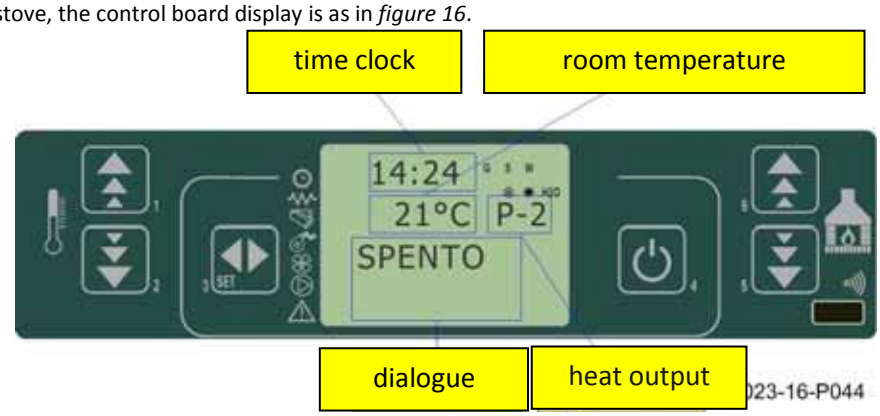


fig. 16

10.3.1 Stove switching on

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

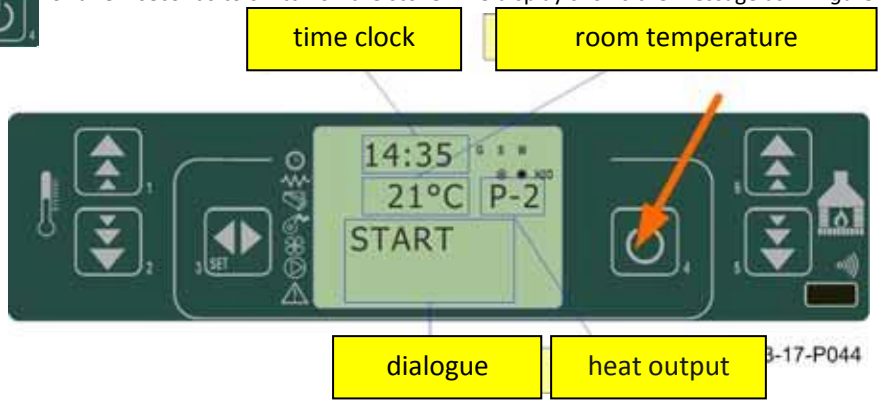


fig. 17

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.

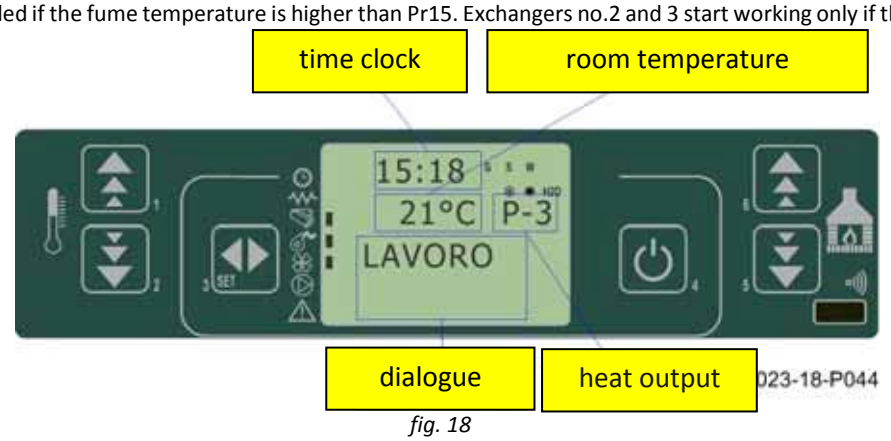


fig. 18

10.3.5 Changing set room temperature

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

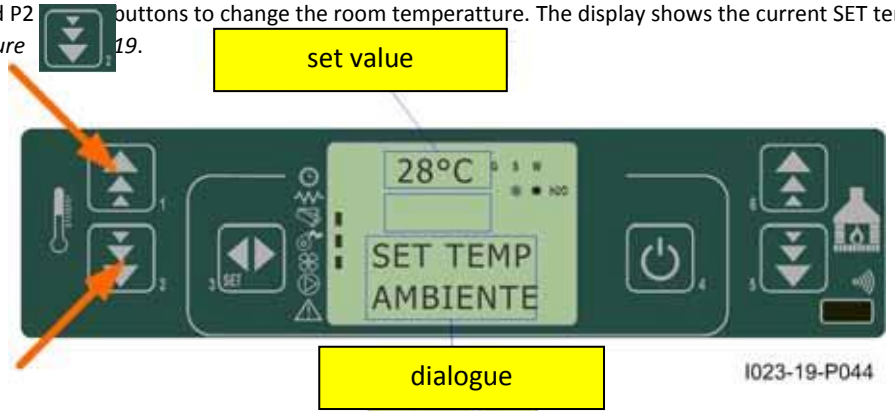


fig. 19

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*

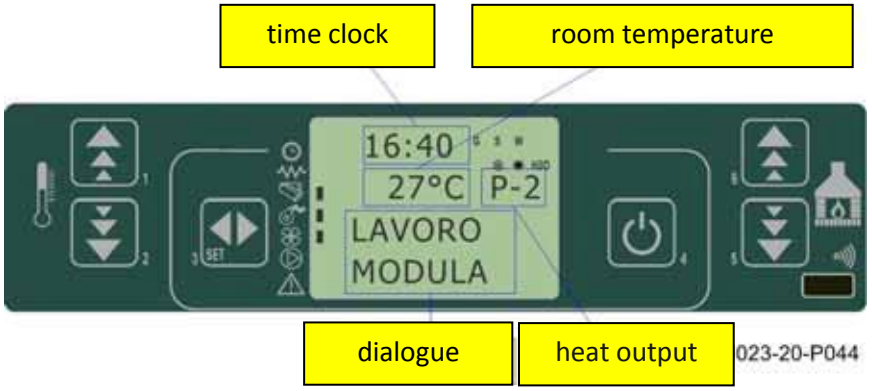


fig. 20

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 - $T_{ambiente} > (T_{SET} + Pr43)$, 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.

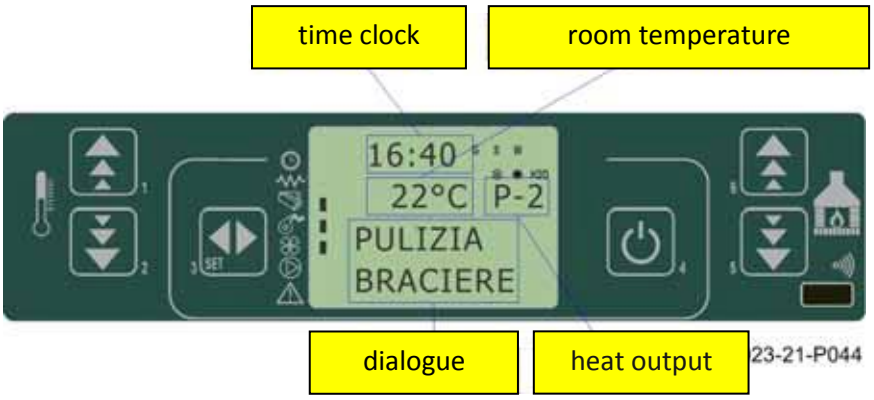


fig. 21

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.

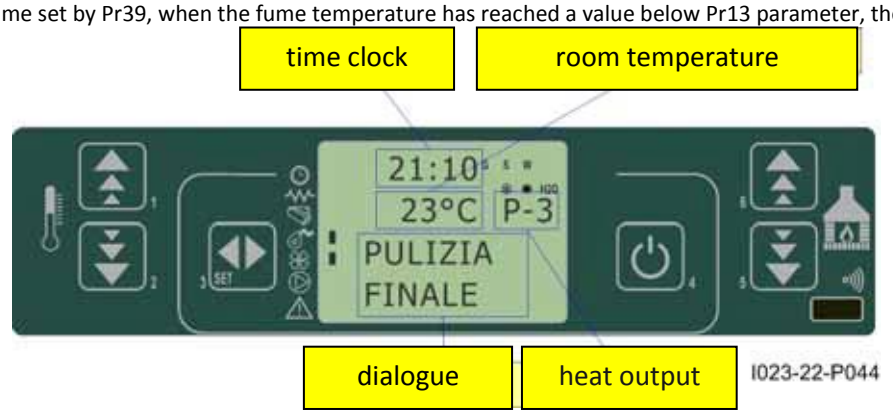


fig. 22

10.3.10 Stove switched off

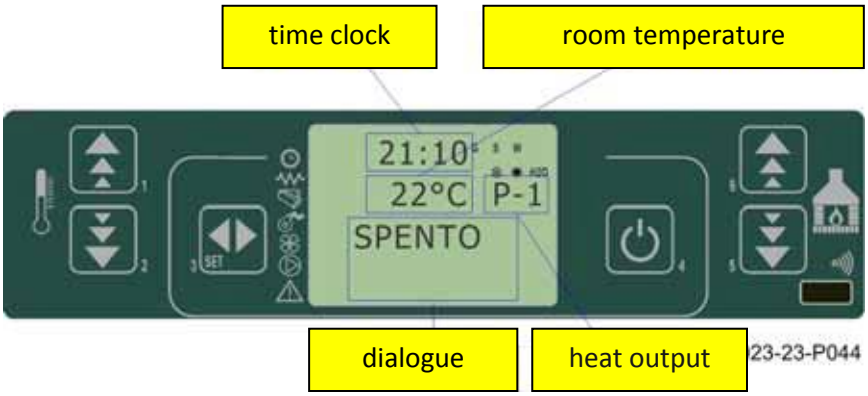


fig. 23

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.

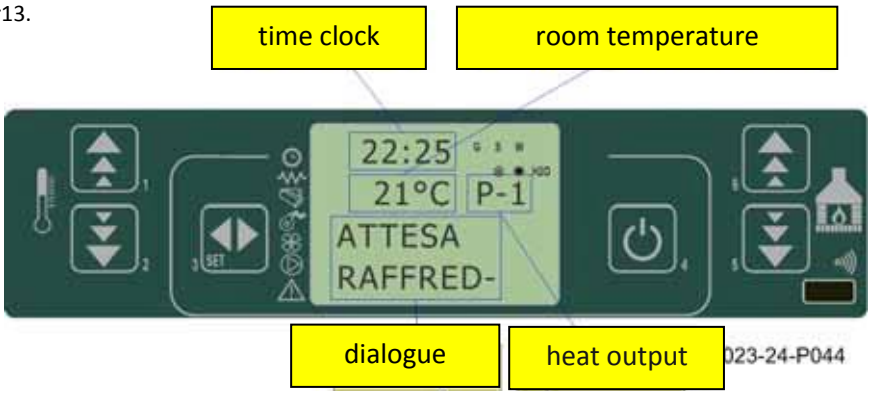


fig. 24

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:

previous status	outage duration	new status
switched off	any	switched off
ignition	< T	ignition
pellet loading without pre-load	< 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.

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

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

fig. 32 I023-32-P044

10.5.7 Damaged exhaust blower alarm

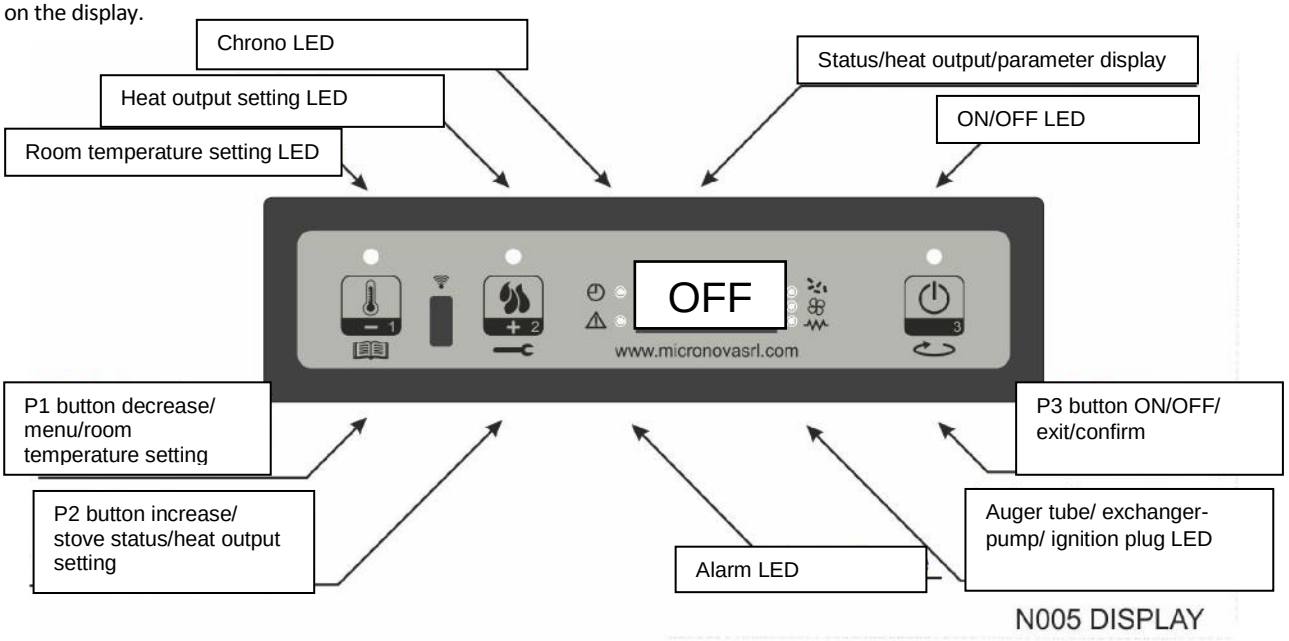
Whenever the exhaust blower stops working properly, the stove switches off immediately and the message **ALARM FAN FAIL** appears on the display.The stove switching off phase starts immediately.

fig. 33 I023-33-P044

11.1 Proper functioning and control adjustment devices

11.1.1 Control panel

The control board can be managed by simply pressing a few buttons on the control panel. A display and the LED indicators inform about the stove operational status. When in programming mode all the parameters that can be modified using the buttons are shown on the display.



11.1.2 LED indicators

LED	*Meaning when switched on*
ROOM TEMP SETTING	Room temperature value setting
HEAT OUTPUT SETTING	Heat output value setting
CHRONO	Chrono enabled
ALARM	Stove in alarm
IGNITION PLUG	Ignition plug switching on
AUGER TUBE ON	Auger tube moving
EXCHANGER-PUMP	Exchanger \ pump switched on
ON\OFF	Working status

Display

display	*function*	*status*	*display shows*
DISPLAY	status heat output parameter label	OFF	OFF+ROOM TEMPERATURE
		SWITCHING ON	ACCENDE+ROOM TEMPERATURE
		FEEDING	CARICA PELLET
		WORKING	ROOM TEMPERATURE+HEAT OUTPUT+TIME
		PROGRAMMING	SELECTED PARAMETER

11.2 Menu

Hold P1 button down to access the menu.

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

11.2.1 User Menu

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

level 1	*level 2*	*level 3*	*value*
M1 – time clock setting			-
	Week day		M-T-W-Th-F-S-Su
	Time clock hours		0-11
	Time clock minutes		0-59
	Time clock day		1-31
	Time clock month		1-12
	Time clock year		00-99
M2 – Chrono setting			
	M2-1 - enable chrono		
		01 – enable chrono	on/off
	M2-2 – daily programming		
		01 – day chrono	on/off
		02 - start 1 day	OFF-0-11:50 pm
		03 - stop 1 day	OFF-0-11:50 pm
		04 - start 2 day	OFF-0-11:50 pm
		05 - stop 2 day	OFF-0-11:50 pm
	M2-3 - weekly programming		
		01 - weekly programming	on/off
		02 - start Prog 1	OFF-0-11:50 pm
		03 - stop Prog 1	OFF-0-11:50 pm
		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	OFF-0-11:50 pm
		12 - stop Prog 2	OFF-0-11:50 pm
		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	OFF-0-11:50 pm
		21 - stop Prog 3	OFF-0-11:50 pm
		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
		29 - start Prog 4	OFF-0-11:50 pm
		30 - stop Prog 4	OFF-0-11:50pm
		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

	M2-4 – weekend programming		
		01 – weekend chrono	on/off
		02 - start weekend 1	OFF-0-11:50 pm
		03 - stop weekend 1	OFF-0-11:50pm
		04 - start weekend 2	OFF-0-11:50 pm
		05 - stop weekend 2	OFF-0-11:50 pm
	M2-5 - exit		set
M3 – select language			
	01 – Italian		set
	02 – English		set
	03 – French		set
	03 - German		set
M4 - stand-by			
	01 - stand – by		on/off
MS – Buzzer			
	01 – buzzer		On/off
M6 – First load			
	01 – First load		90”
M7 – Stove status			
	01 – Stove status		
		01 – Auger tube status	info
		02 – T minutes	info
		03 – Thermostat status	Info
		04 – Fume status	Info
		05 – Exhaust blower rev. status rpm	Info
M8 - Technician settings			
	01 - Password		set
M9 - Exit			
	01 - Exit		set

11.2.2 Menu M01 – time clock setting

Use this function to set current time and date. The control board is equipped with a lithium battery guaranteeing the time clock a life longer than 3/5 years.

Hold P1 button down for 2 seconds to access the general programming menu. Press P1 (decrease) or P2 (increase) button to select M1 item. The message “M1 set orologio” will scroll on the display. *(figure 13a)*

Figure 13 a

Figure 13 b

Select the desired day and press P3 button *(figure 13b)*. Then set the hour *(figure 13c)*, minutes *(figure 13d)*, day *(figure 13e)*, month *(figure 13f)* and year *(figure 13g)* by pressing P1 (decrease) and P2 (increase) buttons. Press P3 button to confirm the desired value.

figura 13c

figura 13d

figura 13e

figura 13f

figura 13g

11.2.3 Menu M02 – chrono setting

Sub-menu M2 – 1 – Enable chrono

All programmable thermostat functions can be disabled and enabled by means of the menu that appears on the display "M2 set crono" (M2 chrono set). Press P3 button and then P1 or P2, for selecting On or Off respectively, to enable the programmable thermostat. Press P3 button to confirm. (*figure 14a*)

figure 14a

Sob-menu M2 - 2 – Daily programming

After selecting menu "M2-2 day programm", press P3 button to scroll through the different programming parameters available for the daily programmable thermostat, including the possibility of enabling it (*figure 14b*).

figure 14b

It is possible to set two on/off times (the first with **START1 Day** and **STOP1 Day** and the second with **START2 Day** and **STOP2 Day**) defined by the times set according to the table below. If the value is set to OFF, the time clock ignores the control. Use P1 (decrease) and P2 (increase) buttons to modify the value and P3 to confirm.

DAILY PROGRAMMING			
Menu level	***setting***	***meaning***	***Available values***
M2-2-01	DAY CHRONO	Enable daily chrono	ON/OFF
M2-2-02	START 1 Day	Switching-on time	OFF-0-11:50
M2-2-03	STOP 1 Day	Switching-off time	OFF-0-11:50
M2-2-04	START 2 Day	Switching-on time	OFF-0-11:50
M2-2-05	STOP 2 Day	Switching-off time	OFF-0-11:50

Sub-menu M2 - 3 – Weekly programming

The weekly programmable thermostat functions can be enabled/disabled and set using the menu "M2-3 Program Settim-" (M2-3 Week Programm). The weekly programming function features 4 independent programmes. Moreover, if the time is set to OFF, the time clock ignores the corresponding control.

The weekly programming function is briefly described in the tables below. Press P3 to confirm the value and pass to the following function. Hold P3 button down to exit the menu.

ENABLING WEEKLY CHRONO			
menu level	***setting***	***meaning***	***available values***
M2-3-01	WEEKLY CHRONO	Enable weekly chrono	ON/OFF

PROGRAMME 1			
menu level	***setting***	***meaning***	***available values***
M2-3-02	START PRG 1	switching-on time	OFF-0-11:50
M2-3-03	STOP PRG 1	switching-off time	OFF-0-11:50
M2-3-04	MONDAY PRG 1		on/off
M2-3-05	TUESDAY PRG 1		on/off
M2-3-06	WEDNESDAY PRG 1		on/off
M2-3-07	THURSDAY PRG 1		on/off
M2-3-08	FRIDAY PRG 1		on/off
M2-3-09	SATURDAY PRG 1		on/off
M2-3-10	SUNDAY PROG 1		on/off
PROGRAMME 2			
menu level	***setting***	***meaning***	***available values***
M2-3-1 1	START PRG 2	switching-on time	OFF-0-11:50
M2-3-12	STOP PRG 2	switching-off time	OFF-0-11:50
M2-3-13	MONDAY PRG 2		on/off
M2-3-14	TUESDAY PRG 2		on/off
M2-3-15	WEDNESDAY PRG 2		on/off
M2-3-16	THURSDAY PRG 2		on/off
M2-3-17	FRIDAY PRG 2		on/off
M2-3-18	SATURDAY PRG 2		on/off
M2-3-19	SUNDAY PROG 2		on/off
PROGRAMME 3			
menu level	***setting***	***meaning***	***available values***
M2-3-20	START PRG 3	switching-on time	OFF-0-11:50
M2-3-21	STOP PRG 3	switching-off time	OFF-0-11:50
M2-3-22	MONDAY PRG 3		on/off
M2-3-23	TUESDAY PRG 3		on/off
M2-3-24	WEDNESDAY PRG 3		on/off
M2-3-25	THURSDAY PRG 3		on/off
M2-3-26	FRIDAY PRG 3		on/off
M2-3-27	SATURDAY PRG 3		on/off
M2-3-28	SUNDAY PROG 3		on/off
PROGRAMME 4			
menu level	***setting***	***meaning***	***available values***
M2-3-29	START PRG 4	switching-on time	OFF-0-11:50
M2-3-30	STOP PRG 4	switching-off time	OFF-0-11:50
M2-3-31	MONDAY PRG 4		on/off
M2-3-32	TUESDAY PRG 4		on/off
M2-3-33	WEDNESDAY PRG 4		on/off
M2-3-34	THURSDAY PRG 4		on/off
M2-3-35	FRIDAY PRG 4		on/off
M2-3-36	SATURDAY PRG 4		on/off
M2-3-37	SUNDAY PROG 4		on/off

Sub-menu M2 - 4 – weekend programming

The programmable thermostat functions can be enabled/disabled and set for the weekend (days 6 and 7, or Saturday and Sunday). Select "crono fine-sett" (weekend chrono) item and press P3 button to enable it. Then select "on" using P1 (decrease) or P2 (increase) button. Set **Start 1 fine - sett** (Start 1 weekend)and **Stop 1 fine – sett** (Stop 1 weekend) times to define the stove operating period concerning **Saturday** and (Start 2 weekend) and (Stop 2 weekend) times to define the stove operating period concerning **Sunday**.

WEEKEND PROGRAMMING			
menu level	***setting***	***meaning***	***available values***
M2-4-01	WEEKEND CHRONO	Enable weekend chrono	ON/OFF
M2-4-02	START 1 WEEKEND	switching-on time	OFF-0-11:50
M2-4-03	STOP 1 WEEKEND	switching-off time	OFF-0-11:50
M2-4-04	START 2 WEEKEND	switching-on time	OFF-0-11:50
M2-4-05	STOP 2 WEEKEND	switching-off time	OFF-0-11:50

11.2.4 Menu M03 – select language

Use this function to select one of the languages available (*figure 15*). Press P2 (increase) and P1 (decrease) buttons to scroll through the options and press P3 button to confirm.

figure 15

11.2.5 Menu M04 – stand-by

Use this function to enable or disable the Stand-by mode (*figure 16).* Press P3 button to select menu M4 and then P1 (decrease) or P2 (increase) button to select the ON or OFF status. Refer to the section concerning the stand-by mode for more details on its functioning.

figure 16

11.2.6 Menu M05 – buzzer mode

Use this function to enable or disable the control board buzzer during alarms (*figure 17*). Press P1 or P2 button to enable or disable this function and P3 button to confirm.

figure 17

11.2.7 Menu M06 – first load

This function is available only when the stove is switched **OFF**. It allows the Auger tube to be loaded upon the first stove start-up when the pellet hopper is empty. After selecting menu M6, the message "Premere più" (*figure 18a*) will scroll on the display. Then press P2 (increase). The exhaust blower switches on at the maximum speed and the Auger tube (Auger tube LED on) starts working. They will switch off once the period of time indicated on the display (*figure 18b*) has elapsed or after pressing P3 button.

figure 18°

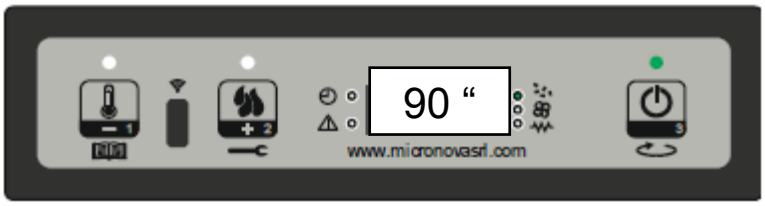


figure 18b

11.2.8 Menu M07 – stove status

After entering menu M7 by pressing P3 button, the status of a few parameters with stove in working mode scrolls on the display. The table below contains an example of the values scrolling on the display together with their meaning.

Displayed status	***meaning***
3.1”	Auger tube pellet feeding status
52’	Max. time for ignition phase
Toff	Thermostat status
106°	Fume temperature
1490	Exhaust blower speed

11.2.9 Menu M08 – technician settings

This menu item is reserved to the stove installer. After entering the password (*figure 19*), P1 (decrease) and P2 (increase) buttons allow all the stove working parameters to be set.

figure 19

11.2.10 Menù M09 – exit

Select this item by pressing P3 button (*figure 20*) to exit the menu and go back to the previous status.

figure 20

11.3 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.

Before switching on the stove, the control board display is as in *figure 3*.

figure 3

11.3.1 Stove switching on

Hold P3 button down for a few seconds to switch on the stove. The message "Accende" (as in figure 4) appears on the display and the ON/OFF LED starts flashing if the stove has successfully switched on. This phase lasts for the period of time set by PR0 1 parameter.

During this phase the stove goes into the pre-heating status: the ignition plug (as indicated by the relevant LED) and the exhaust blower switch on. *(figure 4)*

Any problem detected during the switching-on phase is indicated on the display and the stove goes into the alarm status.

figure 4

11.3.2 Pellet feeding

The pellet feeding phase starts after approx. 1 minute: the message "Carica pellet" scrolls on the display and the ON/OFF LED starts flashing.

During the first stage the Auger tube feeds the pellets to the burn pot during a period of time set by PR40 parameter (Auger tube LED on), the exhaust blower speed is set by PR42 parameter and the ignition plug is still on (ignition plug LED on).

During the second stage, once the period of time set by PR40 parameter has elapsed, the Auger tube switches off (Auger tube LED off) during a period of time set by PR4 1 parameter, while the exhaust blower speed remains as in the previous status. The ignition plug is still on. In case of ignition failure at the end of this phase, the Auger tube switches back and remains on during the period of time set by PR04 parameter, the exhaust blower speed is set by PR1 6 parameter and the ignition plug is still on. *(figure 5)*

figure 5

11.3.3 Fire on

Once fume temperature has reached and exceeded PR13 parameter value, the stove goes into the ignition mode: the message "Fuoco presente" appears on the display and the ON/OFF LED starts flashing.
During this phase the temperature remains stable for a period of time preset by PR02 parameter.
The exhaust blower speed is set by PR17 parameter, the Auger tube remains on for a period of time set by PR05 parameter (Auger tube LED flashing) and the ignition plug is off (ignition plug LED off). *(figure 6)*
Any problem during this phase will cause the control board to stop and the stove to go into error state.

figure 6

11.3.4 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 message "Lavoro" appears on the display and the ON/OFF LED is on. Hold P2 button down to set the heat output and press P1 button to set the room temperature. (*figure 7a*)
If fume temperature reaches the threshold set by PR1 5 parameter, the air exchanger fan will switch on (as the exchanger LED).

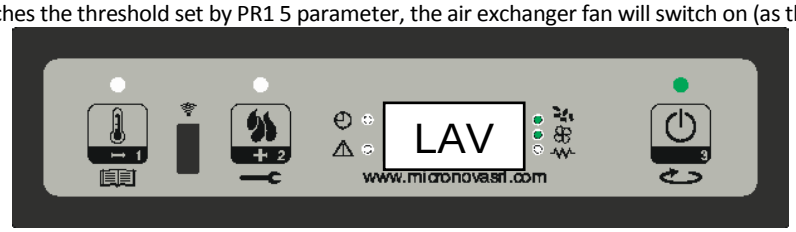


figure 7a

During this phase, after a period of time set by PR03 parameter, the stove cleans the burn pot. The message "Pul-braciere" scrolls on the display, the Auger tube is on (as the relevant LED) at a speed set by PR09 parameter and the exhaust blower at a speed set by PR08 parameter. (*figure 7b*)
Once the period of time set by PR12 parameter has elapsed, the stove goes back to the working mode.

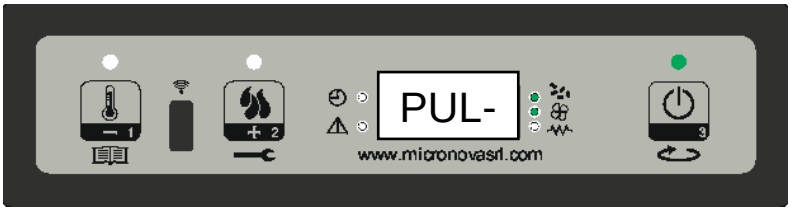


figure 7b

11.3.5 Changing set heat output

During stove normal operation (“Lavoro” – working mode), the heat output can be changed by using P2 button (Heat output setting LED on).
Press P2 button again to increase the heat output and P1 button to decrease it. The display will show the set heat output. *(figure 8)*
Do not press any button for 5 seconds or press P3 button to exit the setting mode.

figure 8

11.3.6 Changing set room temperature

Press P1 button to change the set room temperature.
The display shows the set room temperature (SET temperature value). Press P1 and P2 buttons to decrease or increase, respectively, the temperature value. The value is saved after approx. 5 seconds and the display goes back to normal. Otherwise, press P3 to exit. (*figure 9)*

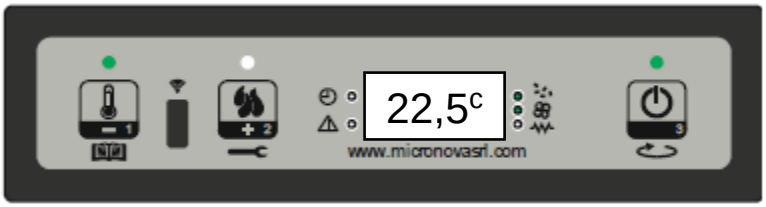


figure 9

11.3.7 Room temperature reaches set value (SET temperature value)

Once the set room temperature value has been reached, the stove heat output is automatically set to the minimum value. During this phase the display shows the message "Modula". *(figure 10)*
If room temperature falls below the set value (Set temperature value), the stove will go back to the "Lavoro" mode and to the previously set heat output (Set heat output value).

figure 10

11.3.8 Stand-by

When enabled in the menu, the Stand-by function allows the stove to be switched off after complying with the following conditions.
It is enabled if the room temperature exceeds the relevant set value (Set room temperature value) during the period of time set by PR44 parameter to which PR43 parameter must be added. The message "Go-standby" appears on the display followed by the minutes left. *(figure 11a)*

figure 11a

At the end of the period of time set by PR44 parameter the message "Attesa raffredda" will appear on the display. During this phase the Auger tube is off (Auger tube LED off), the exchanger switches off once the threshold set by PR1 5 parameter has been reached and the ON/OFF LED flashes. *(figure 11b)*

figure 11b

When fume temperature reaches the threshold set by PR13 parameter, the stove goes into the Stand-by mode and the message "Stop eco temp good" scrolls on the display.
The Auger tube (Auger tube LED off), the exchanger (exchanger LED off) and the exhaust blower are off. *(figure 11c)*

figure 11c

If room temperature falls below the set value (Set room temperature value) plus the threshold set by PR43 parameter, the stove switches back on.

11.3.9 Stove switching off

Hold P3 button down to switch off the stove. The display shows the message "Pul-Finale". *(figure 12a)*
The Auger tube motor switches off (Auger tube LED off), the exhaust blower speed is set by PR08 parameter and the ON/OFF LED flashes.

figure 12a

The exchanger blower remains on (exchanger LED on) until the fume temperature falls below the value set by PR1 5 parameter. If, at the end of the period of time set by PR39 parameter, the fume temperature remains below the threshold set by PR1 0 parameter, the stove will switch off and the message "Off" appears on the display. *(figure 12b)*

figure 12b

11.4 Alarms

Should any malfunctioning be detected, the control board reports the problem in question: the alarm LED switches on (alarm LED on) and the buzzer goes off.

The possible alarm messages are listed below:

Cause	Display shows
Power outage	**AL 1 ALAR AL 1BLAC-OUT**
Fume temperature sensor	**AL 2 ALAR AL2 SONDA FUMI**
Fume overheating	**AL 3 ALAR AL3 HOT FUMI**
Faulty fume encoder	**AL 4 ALAR AL 4 ASPIRAT-GUASTO**
Ignition failure	**AL 5 ALAR AL 5 MANCATA ACCENS-**
No pellets	**AL 6 ALAR AL 6 MANCANO PELLET**
Thermal safety overheating	**AL 7 ALAR AL 7 SICUREC– TERMICA**
No neg. pressure	**AL 8 ALAR AL 8 MANCA DEPRESS-**

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

EXCEPT FOR THE POWER OUTAGE ALARM, the alarm status is reached at the end of the period of time set by PR1 1 parameter and can be cleared by holding P3 button down. Whenever an alarm is cleared, the stove starts a switching-off phase for safety reasons. The alarm LED (alarm LED on) will remain on and the buzzer, if enabled, will sound intermittently during the entire alarm phase. Should the alarm not be cleared, the stove will in any case be switched off and the alarm message will remain on the display.

11.4.1 Power outage alarm

Power outage may occur with stove in working mode. When power resumes, if the power outage period has been lower than the value set by PR48 parameter, the stove will restart in the **WORKING** mode. Otherwise the relevant alarm will be triggered. The message "Al 1 alar al 1 Blac-out" (*figure 21*) scrolls on the display and the stove switches off.

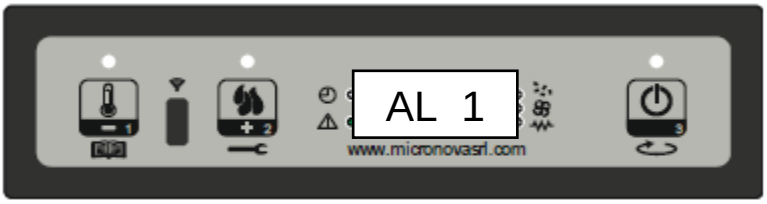


figure 21

11.4.2 Fume temperature sensor alarm

The alarm is triggered in case of faulty fume sensor. The stove goes into the alarm status and the alarm LED switches on (alarm LED on). The message "Al 2 alar al 2 Sonda fumi" (*figure 22*) will scroll on the display and the stove will switch off.

figure 22

11.4.3 Fume overheating alarm

The alarm is triggered whenever the fume sensor detects a temperature higher than a fixed set value, which may not be modified by means of a parameter. The message "Al 3 alar al 3 Hot fumi" *(figure 23)* appears on the display and the stove switches off.

figure 23

11.4.4 Faulty fume encoder alarm

The alarm is triggered in case of exhaust blower failure. The stove goes into the alarm status and the message “Al 4 alar al 4 Aspirat– guasto” (*figure 24*) will scroll on the display.

figure *24*

11.4.5 Ignition failure alarm

The alarm is triggered in case of ignition phase failure. This occurs when fume temperature does not exceed the value set by PR1 3 parameter at the end of the period of time set by PR0 1 parameter. The message “Al 5 alar al 5 Mancata accens" scrolls on the display and the stove goes into the alarm status (*figure 25*).

figure 25

11.4.6 No pellet alarm

The alarm is triggered when fume temperature falls below the value set by PR13 parameter with stove in working mode. The message “Al 6 alar al 6 mancano pellet" scrolls on the display and the stove goes into the alarm status (*figure 26*).

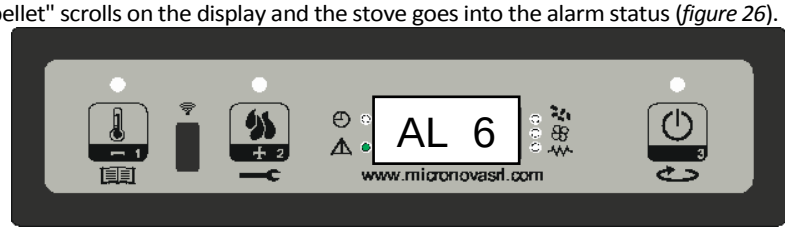


figure 26

11.4.7 Thermal safety overheating alarm

The alarm is triggered whenever the general safety thermostat detects a temperature exceeding the trigger threshold. The thermostat switches off the Auger tube, being connected in series to its power supply, the control board reports the alarm status (alarm LED on) by showing the message “Al 7 alar al 7 Sicurec– termica” on the display (*figure 27*) and the stove switches off.

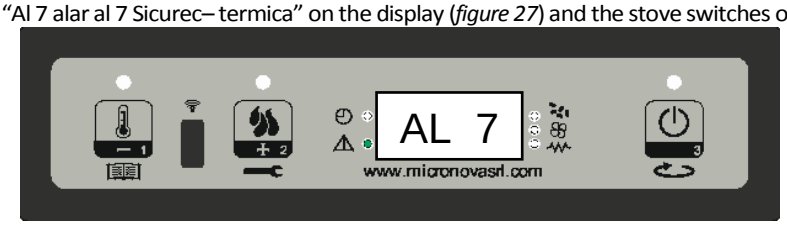


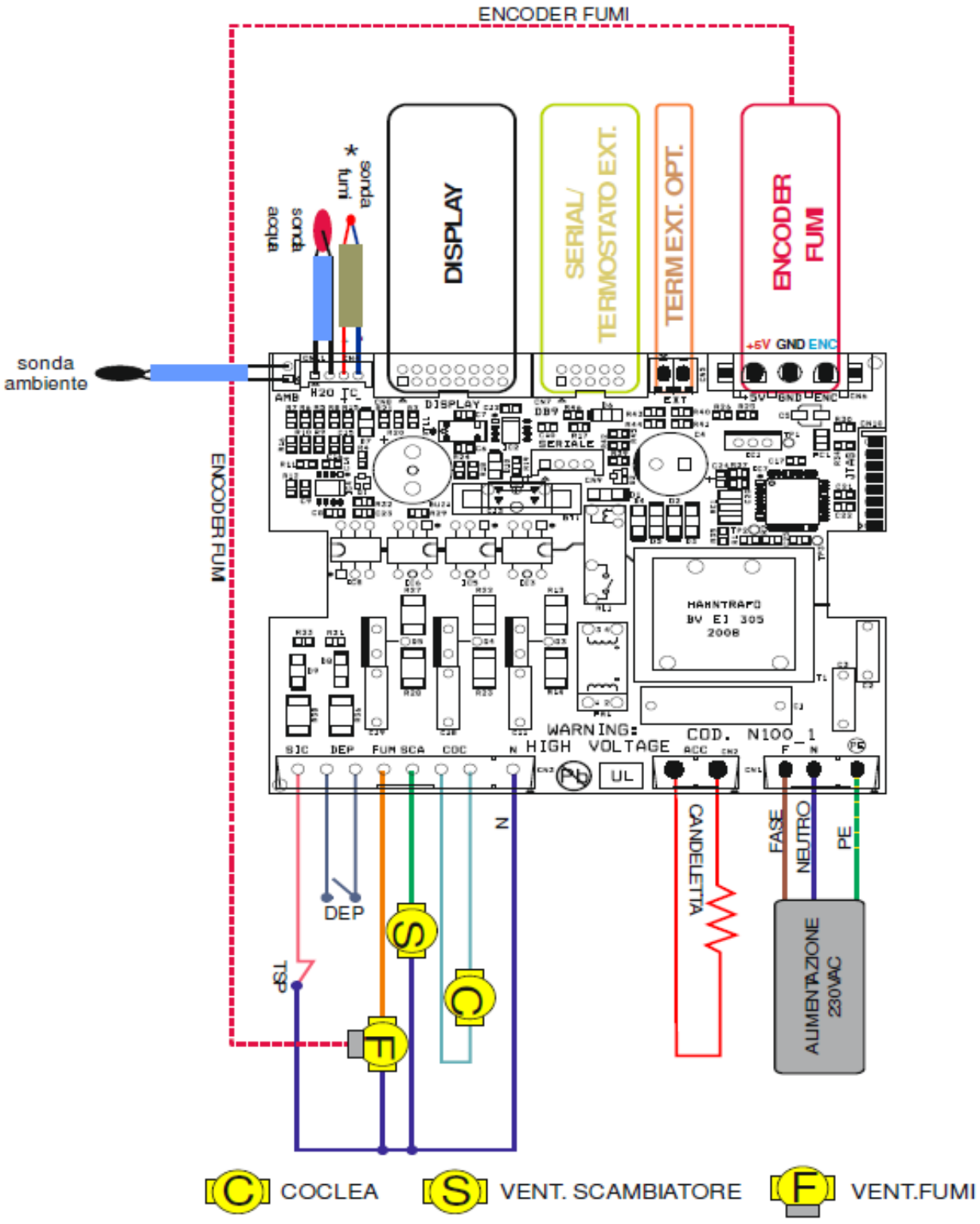
figure 27

11.4.8 No negative pressure alarm

The alarm is triggered whenever the external pressure switch detects a pressure/negative pressure value below the trigger threshold. The pressure switch switches off the Auger tube, being connected in series to each other, and the control board reports the alarm status (alarm LED on) by showing the message “Al 8 alar al 8 Manca depress-” on the display (*figure 28*). The stove switches off.

figure 28

11.5 Connections



DEP= DEPRESSIMETRO

TSP=TERMOSTATO SICUREZZA VANO PELLET

* PER IL CORRETTO FUNZIONAMENTO
RISPETTARE LA POLARITA' DELLA TERMOCOPPIA

figura1

12.1 Proper functioning and control adjustment devices

12.1.1 Control panel

The control board can be managed by simply pressing a few buttons on the control panel. A display and the LED indicators inform about the stove operational status. When in programming mode all the parameters that can be modified using the buttons are shown on the display.

P1	Increase of room temperature
P2	Decrease of room temperature
P3	Set / menù
P4	On / Off
P5	Deacrease of power
P6	Increase of power

12.1.2 Significato dei LED

LED	Meaning when switched on
L1 CRONO	Chrono enabled
L2 COCLEA ON	Auger working
L3 TELECOMANDO	Remote control reception
L4 SET AMBIENTE	Thermostat active
L5 SET	Blinking during temperature setting or when actinc in the menù

Display

Display (D1):
During the start phase , it shows the room temperature and the time.
During the working phase, it shows the heating power set by the user.
During the change of user/technician parameters , it shows the parameter to be modified.

Display (D2):
During the start phase , it shows the status of the motherboard.
During the working phase, it shows the temperature set by the user.
During the change of user/technician parameters, it shows the Label of the parameter to be modified.

12.2 Menu

Hold P1 button down to access the menu.

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

12.2.1 User Menu

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

level 1	*level 2*	*level 3*	*value*
M1 – time clock setting			-
	Week day		M-T-W-Th-F-S-Su
	Time clock hours		0-11
	Time clock minutes		0-59
	Time clock day		1-31
	Time clock month		1-12
	Time clock year		00-99
M2 – Chrono setting			
	M2-1 - enable chrono		
		01 – enable chrono	on/off
	M2-2 – daily programming		
		01 – day chrono	on/off
		02 - start 1 day	OFF-0-11:50 pm
		03 - stop 1 day	OFF-0-11:50 pm
		04 - start 2 day	OFF-0-11:50 pm
		05 - stop 2 day	OFF-0-11:50 pm
	M2-3 - weekly programming		
		01 - weekly programming	on/off
		02 - start Prog 1	OFF-0-11:50 pm
		03 - stop Prog 1	OFF-0-11:50 pm
		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	OFF-0-11:50 pm
		12 - stop Prog 2	OFF-0-11:50 pm
		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	OFF-0-11:50 pm
		21 - stop Prog 3	OFF-0-11:50 pm
		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
		29 - start Prog 4	OFF-0-11:50 pm
		30 - stop Prog 4	OFF-0-11:50pm
		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

	M2-4 – weekend programming		
		01 – weekend chrono	on/off
		02 - start weekend 1	OFF-0-11:50 pm
		03 - stop weekend 1	OFF-0-11:50pm
		04 - start weekend 2	OFF-0-11:50 pm
		05 - stop weekend 2	OFF-0-11:50 pm
	M2-5 - exit		set
M3 – select language			
	01 – Italian		set
	02 – English		set
	03 – French		set
	03 - German		set
M4 - stand-by			
	01 - stand – by		on/off
M5 – First load			
	01 – First load		90”
M6 – Stove status			
	01 – Stove status		
		01 – Auger tube status	info
		02 – T minutes	info
		03 – Thermostat status	Info
		04 – Fume status	Info
		05 – Exhaust blower rev. status rpm	Info
M8 - Technician settings			
	01 - Password		set

12.2.2 Menu M01 – time clock setting

Use this function to set current time and date. The control board is equipped with a lithium battery guaranteeing the time clock a life longer than 3/5 years.Hold P3 button down for 2 seconds to access the general programming menu. Press P5 (decrease) or P6 (increase) button to select M1 item. The message “M1 set orologio” will scroll on the display. Select the desired day and press P3 button. Then set the hour, minutes, day, month and year by pressing P1 (decrease) and P2 (increase) buttons. Press P3 button to confirm the desired value.

12.2.3 Menu M02 – chrono setting

Sub-menu M2 – 1 – Enable chrono

All programmable thermostat functions can be disabled and enabled by means of the menu that appears on the display "M2 set crono” (M2 chrono set). Press P3 button and then P1 or P2, for selecting On or Off respectively, to enable the programmable thermostat. Press P3 button to confirm.

Sob-menu M2 - 2 – Daily programming

After selecting menu “M2-2 day programm”, press P3 button to scroll through the different programming parameters available for the daily programmable thermostat, including the possibility of enabling it. It is possible to set two on/off times (the first with **START1 Day** and **STOP1 Day** and the second with **START2 Day** and **STOP2 Day**) defined by the times set according to the table below. If the value is set to OFF, the time clock ignores the control. Use P5 (decrease) and P6 (increase) buttons to modify the value and P3 to confirm.

DAILY PROGRAMMING			
Menu level	***Menu level***	***Menu level***	***Menu level***
M2-2-01	M2-2-01	M2-2-01	M2-2-01
M2-2-02	M2-2-02	M2-2-02	M2-2-02
M2-2-03	M2-2-03	M2-2-03	M2-2-03
M2-2-04	M2-2-04	M2-2-04	M2-2-04
M2-2-05	M2-2-05	M2-2-05	M2-2-05

Sub-menu M2 - 3 – Weekly programming

The weekly programmable thermostat functions can be enabled/disabled and set using the menu “M2-3 Program Settim-” (M2-3 Week Programm). The weekly programming function features 4 independent programmes. Moreover, if the time is set to OFF, the time clock ignores the corresponding control.

The weekly programming function is briefly described in the tables below. Press P4 to confirm the value and pass to the following function. Hold P3 button down to exit the menu.

ENABLING WEEKLY CHRONO			
menu level	***setting***	***meaning***	***available values***
M2-3-01	WEEKLY CHRONO	Enable weekly chrono	ON/OFF

PROGRAMME 1			
menu level	***setting***	***meaning***	***available values***
M2-3-02	START PRG 1	switching-on time	OFF-0-11:50
M2-3-03	STOP PRG 1	switching-off time	OFF-0-11:50
M2-3-04	MONDAY PRG 1		on/off
M2-3-05	TUESDAY PRG 1		on/off
M2-3-06	WEDNESDAY PRG 1		on/off
M2-3-07	THURSDAY PRG 1		on/off
M2-3-08	FRIDAY PRG 1		on/off
M2-3-09	SATURDAY PRG 1		on/off
M2-3-10	SUNDAY PROG 1		on/off
PROGRAMME 2			
menu level	***setting***	***meaning***	***available values***
M2-3-1 1	START PRG 2	switching-on time	OFF-0-11:50
M2-3-12	STOP PRG 2	switching-off time	OFF-0-11:50
M2-3-13	MONDAY PRG 2		on/off
M2-3-14	TUESDAY PRG 2		on/off
M2-3-15	WEDNESDAY PRG 2		on/off
M2-3-16	THURSDAY PRG 2		on/off
M2-3-17	FRIDAY PRG 2		on/off
M2-3-18	SATURDAY PRG 2		on/off
M2-3-19	SUNDAY PROG 2		on/off
PROGRAMME 3			
menu level	***setting***	***meaning***	***available values***
M2-3-20	START PRG 3	switching-on time	OFF-0-11:50
M2-3-21	STOP PRG 3	switching-off time	OFF-0-11:50
M2-3-22	MONDAY PRG 3		on/off
M2-3-23	TUESDAY PRG 3		on/off
M2-3-24	WEDNESDAY PRG 3		on/off
M2-3-25	THURSDAY PRG 3		on/off
M2-3-26	FRIDAY PRG 3		on/off
M2-3-27	SATURDAY PRG 3		on/off
M2-3-28	SUNDAY PROG 3		on/off
PROGRAMME 4			
menu level	***setting***	***meaning***	***available values***
M2-3-29	START PRG 4	switching-on time	OFF-0-11:50
M2-3-30	STOP PRG 4	switching-off time	OFF-0-11:50
M2-3-31	MONDAY PRG 4		on/off
M2-3-32	TUESDAY PRG 4		on/off
M2-3-33	WEDNESDAY PRG 4		on/off
M2-3-34	THURSDAY PRG 4		on/off
M2-3-35	FRIDAY PRG 4		on/off
M2-3-36	SATURDAY PRG 4		on/off
M2-3-37	SUNDAY PROG 4		on/off

Sub-menu M2 - 4 – weekend programming
The programmable thermostat functions can be enabled/disabled and set for the weekend (days 6 and 7, or Saturday and Sunday). Select "crono fine-sett" (weekend chrono) item and press P3 button to enable it. Then select "on" using P1 (decrease) or P2 (increase) button. Set **Start 1 fine - sett** (Start 1 weekend)and **Stop 1 fine – sett** (Stop 1 weekend) times to define the stove operating period concerning **Saturday** and (Start 2 weekend) and (Stop 2 weekend) times to define the stove operating period concerning **Sunday**.

WEEKEND PROGRAMMING			
menu level	***setting***	***meaning***	***available values***
M2-4-01	WEEKEND CHRONO	Enable weekend chrono	ON/OFF
M2-4-02	START 1 WEEKEND	switching-on time	OFF-0-11:50
M2-4-03	STOP 1 WEEKEND	switching-off time	OFF-0-11:50
M2-4-04	START 2 WEEKEND	switching-on time	OFF-0-11:50
M2-4-05	STOP 2 WEEKEND	switching-off time	OFF-0-11:50

12.2.4 Menu M03 – select language
Use this function to select one of the languages available. Press P1 (increase) and P2 (decrease) buttons to scroll through the options and press P4 button to confirm.

11.2.5 Menu M04 – stand-by
Use this function to enable or disable the Stand-by mode. Press P3 button to select menu M4 and then P1 or P2 button to select the ON or OFF status. Refer to the section concerning the stand-by mode for more details on its functioning.

12.2.6 Menu M05 – first load
This function is available only when the stove is switched **OFF**. It allows the Auger tube to be loaded upon the first stove start-up when the pellet hopper is empty. After selecting menu M5, the message "Premere più" will scroll on the display. Then press P1 (increase). The exhaust blower switches on at the maximum speed and the Auger tube (Auger tube LED on) starts working. They will switch off once the period of time indicated on the display has elapsed or after pressing P4 button.

12.2.7 Menu M06 – stove status
After entering menu M6 by pressing P3 button, the status of a few parameters with stove in working mode scrolls on the display. The table below contains an example of the values scrolling on the display together with their meaning.

Displayed status	***meaning***
3.1"	Auger tube pellet feeding status
52'	Max. time for ignition phase
Toff	Thermostat status
106°	Fume temperature
1490	Exhaust blower speed

12.2.8 Menu M07 – technician settings
This menu item is reserved to the stove installer. After entering the password, P1 (decrease) and P2 (increase) buttons allow all the stove working parameters to be set.

12.3 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.Before switching on the stove, the control board display.

12.3.1 Stove switching on

Hold P4 button down for a few seconds to switch on the stove. The message "Accende" appears on the display and the ON/OFF LED starts flashing if the stove has successfully switched on. This phase lasts for the period of time set by PR0 1 parameter.

During this phase the stove goes into the pre-heating status: the ignition plug (as indicated by the relevant LED) and the exhaust blower switch on.

Any problem detected during the switching-on phase is indicated on the display and the stove goes into the alarm status.

12.3.2 Pellet feeding

The pellet feeding phase starts after approx. 1 minute: the message "Carica pellet" scrolls on the display and the ON/OFF LED starts flashing. During the first stage the Auger tube feeds the pellets to the burn pot during a period of time set by PR40 parameter (Auger tube LED on), the exhaust blower speed is set by PR42 parameter and the ignition plug is still on (ignition plug LED on). During the second stage, once the period of time set by PR40 parameter has elapsed, the Auger tube switches off (Auger tube LED off) during a period of time set by PR4 1 parameter, while the exhaust blower speed remains as in the previous status. The ignition plug is still on. In case of ignition failure at the end of this phase, the Auger tube switches back and remains on during the period of time set by PR04 parameter, the exhaust blower speed is set by PR1 6 parameter and the ignition plug is still on.

12.3.3 Fire on

Once fume temperature has reached and exceeded PR13 parameter value, the stove goes into the ignition mode: the message "Fuoco presente" appears on the display and the ON/OFF LED starts flashing.
During this phase the temperature remains stable for a period of time preset by PR02 parameter.
The exhaust blower speed is set by PR17 parameter, the Auger tube remains on for a period of time set by PR05 parameter (Auger tube LED flashing) and the ignition plug is off (ignition plug LED off).
Any problem during this phase will cause the control board to stop and the stove to go into error state.

12.3.4 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 message "Lavoro" appears on the display and the ON/OFF LED is on. Hold P5, P6 buttons down to set the heat output and press P1,P2 buttons to set the room temperature.
If fume temperature reaches the threshold set by PR1 5 parameter, the air exchanger fan will switch on (as the exchanger LED). During this phase, after a period of time set by PR03 parameter, the stove cleans the burn pot. The message "Pul-braciere" scrolls on the display, the Auger tube is on (as the relevant LED) at a speed set by PR09 parameter and the exhaust blower at a speed set by PR08 parameter. Once the period of time set by PR12 parameter has elapsed, the stove goes back to the working mode.

12.3.5 Changing set heat output

During stove normal operation (“Lavoro” – working mode), the heat output can be changed by using P5, P6 buttons (Heat output setting LED on). Press P6 button again to increase the heat output and P5 button to decrease it. The display will show the set heat output. Do not press any button for 5 seconds or press P4 button to exit the setting mode.

12.3.6 Changing set room temperature

Press P1, P2 buttons to change the set room temperature. The display shows the set room temperature (SET temperature value). Press P1 and P2 buttons to decrease or increase, respectively, the temperature value. The value is saved after approx. 5 seconds and the display goes back to normal. Otherwise, press P4 to exit. “Man” too, so the stove works in manual way at a fix power. Or “T-E”, to chose when an external thermostat has been connected.

12.3.7 Room temperature reaches set value (SET temperature value)

Once the set room temperature value has been reached, the stove heat output is automatically set to the minimum value. During this phase the display shows the message "Modula". If room temperature falls below the set value (Set temperature value), the stove will go back to the "Lavoro" mode and to the previously set heat output (Set heat output value). When an external thermostat is connected and it has been set the room temperature in “T-E” , if the thermostat is open , it moves to MODULATION Mode, while if it closed , it moves back to the set power.

12.3.8 Stand-by

When enabled in the menu, the Stand-by function allows the stove to be switched off after complying with the following conditions. It is enabled if the room temperature exceeds the relevant set value (Set room temperature value) during the period of time set by PR44 parameter to which PR43 parameter must be added. The message "Go-standby" appears on the display followed by the minutes left. At the end of the period of time set by PR44 parameter the message "Attesa raffredda" will appear on the display. During this phase the Auger tube is off (Auger tube LED off), the exchanger switches off once the threshold set by PR1 5 parameter has been reached and the ON/OFF LED flashes.
When fume temperature reaches the threshold set by PR13 parameter, the stove goes into the Stand-by mode and the message "Stop eco temp good" scrolls on the display. The Auger tube (Auger tube LED off), the exchanger (exchanger LED off) and the exhaust blower are off.

12.3.9 Spegnimento della stufa

Hold P4 button down to switch off the stove. The display shows the message "Pul-Finale”. The Auger tube motor switches off (Auger tube LED off), the exhaust blower speed is set by PR08 parameter and the ON/OFF LED flashes. The exchanger blower remains on (exchanger LED on) until the fume temperature falls below the value set by PR1 5 parameter. If, at the end of the period of time set by PR39 parameter, the fume temperature remains below the threshold set by PR1 0 parameter, the stove will switch off and the message "Off" appears on the display.

12.4 Alarms

Should any malfunctioning be detected, the control board reports the problem in question: the alarm LED switches on (alarm LED on) and the buzzer goes off.

The possible alarm messages are listed below:

Cause	Display shows
Power outage	**AL 1 ALAR AL 1BLAC-OUT**
Fume temperature sensor	**AL 2 ALAR AL2 SONDA FUMI**
Fume overheating	**AL 3 ALAR AL3 HOT FUMI**
Faulty fume encoder	**AL 4 ALAR AL 4 ASPIRAT-GUASTO**
Ignition failure	**AL 5 ALAR AL 5 MANCATA ACCENS-**
No pellets	**AL 6 ALAR AL 6 MANCANO PELLET**
Thermal safety overheating	**AL 7 ALAR AL 7 SICUREC– TERMICA**
No neg. pressure	**AL 8 ALAR AL 8 MANCA DEPRESS-**

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

EXCEPT FOR THE POWER OUTAGE ALARM, the alarm status is reached at the end of the period of time set by PR1 1 parameter and can be cleared by holding P4 button down. Whenever an alarm is cleared, the stove starts a switching-off phase for safety reasons. The alarm LED (alarm LED on) will remain on and the buzzer, if enabled, will sound intermittently during the entire alarm phase. Should the alarm not be cleared, the stove will in any case be switched off and the alarm message will remain on the display.

12.4.1 Power outage alarm

Power outage may occur with stove in working mode. When power resumes, if the power outage period has been lower than the value set by PR48 parameter, the stove will restart in the **WORKING** mode. Otherwise the relevant alarm will be triggered. The message “Al 1 alar al 1 Blac-out” scrolls on the display and the stove switches off.

12.4.2 Fume temperature sensor alarm

The alarm is triggered in case of faulty fume sensor. The stove goes into the alarm status and the alarm LED switches on (alarm LED on). The message “Al 2 alar al 2 Sonda fumi” will scroll on the display and the stove will switch off.

12.4.3 Fume overheating alarm

The alarm is triggered whenever the fume sensor detects a temperature higher than a fixed set value, which may not be modified by means of a parameter. The message “Al 3 alar al 3 Hot fumi” appears on the display and the stove switches off.

12.4.4 Faulty fume encoder alarm

The alarm is triggered in case of exhaust blower failure. The stove goes into the alarm status and the message “Al 4 alar al 4 Aspirat–guasto” will scroll on the display.

12.4.5 Ignition failure alarm

The alarm is triggered in case of ignition phase failure. This occurs when fume temperature does not exceed the value set by PR1 3 parameter at the end of the period of time set by PR0 1 parameter. The message “Al 5 alar al 5 Mancata accens" scrolls on the display and the stove goes into the alarm status.

12.4.6 No pellet alarm

The alarm is triggered when fume temperature falls below the value set by PR13 parameter with stove in working mode. The message “Al 6 alar al 6 mancano pellet" scrolls on the display and the stove goes into the alarm status.

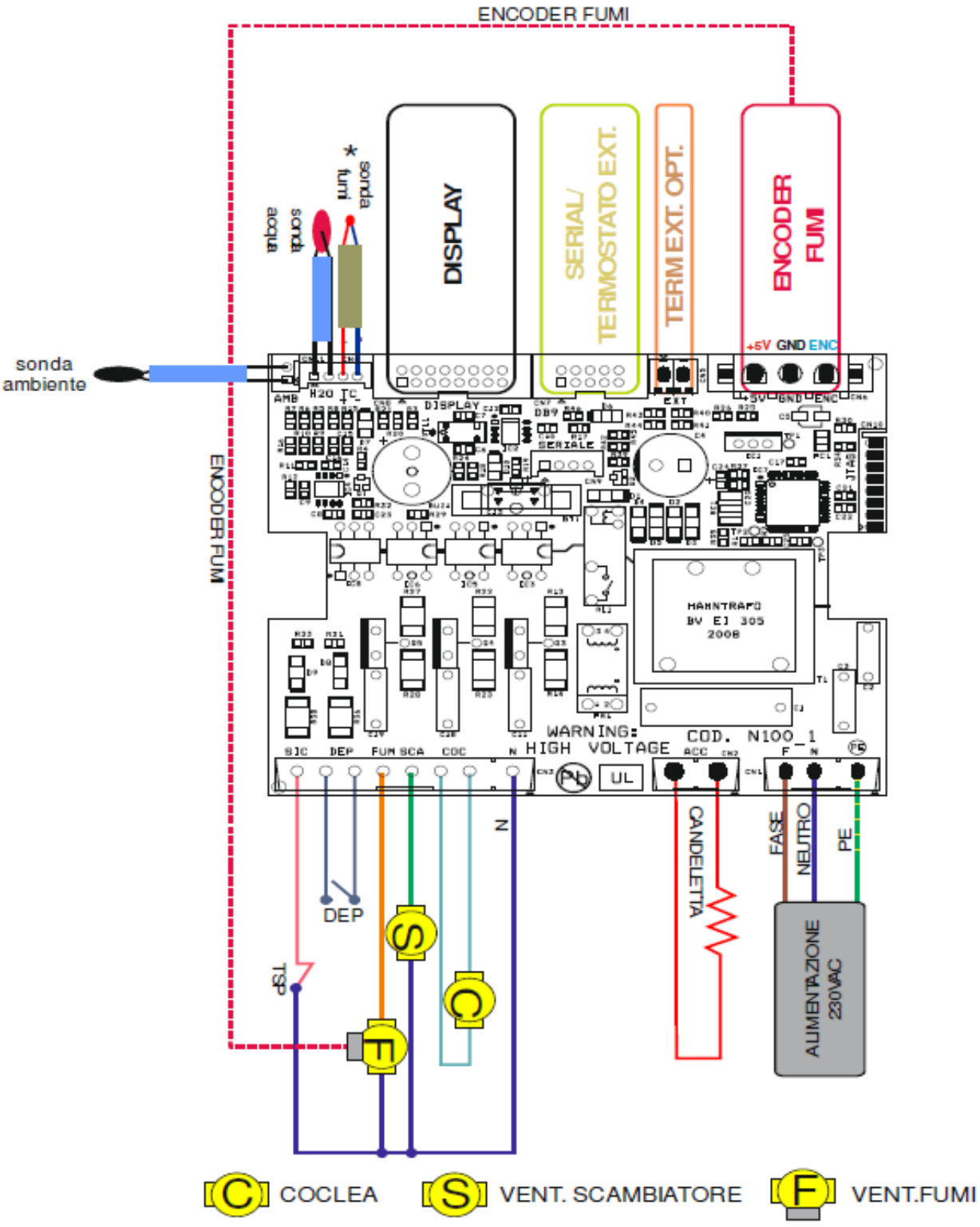
12.4.7 Thermal safety overheating alarm

The alarm is triggered whenever the general safety thermostat detects a temperature exceeding the trigger threshold. The thermostat switches off the Auger tube, being connected in series to its power supply, the control board reports the alarm status (alarm LED on) by showing the message “Al 7 alar al 7 Sicurec– termica” on the display and the stove switches off.

12.4.8 No negative pressure alarm

The alarm is triggered whenever the external pressure switch detects a pressure/negative pressure value below the trigger threshold. The pressure switch switches off the Auger tube, being connected in series to each other, and the control board reports the alarm status (alarm LED on) by showing the message “Al 8 alar al 8 Manca depress-” on the display. The stove switches off.

12.5 Connections



DEP= DEPRESSIMETRO

TSP=TERMOSTATO SICUREZZA VANO PELLET

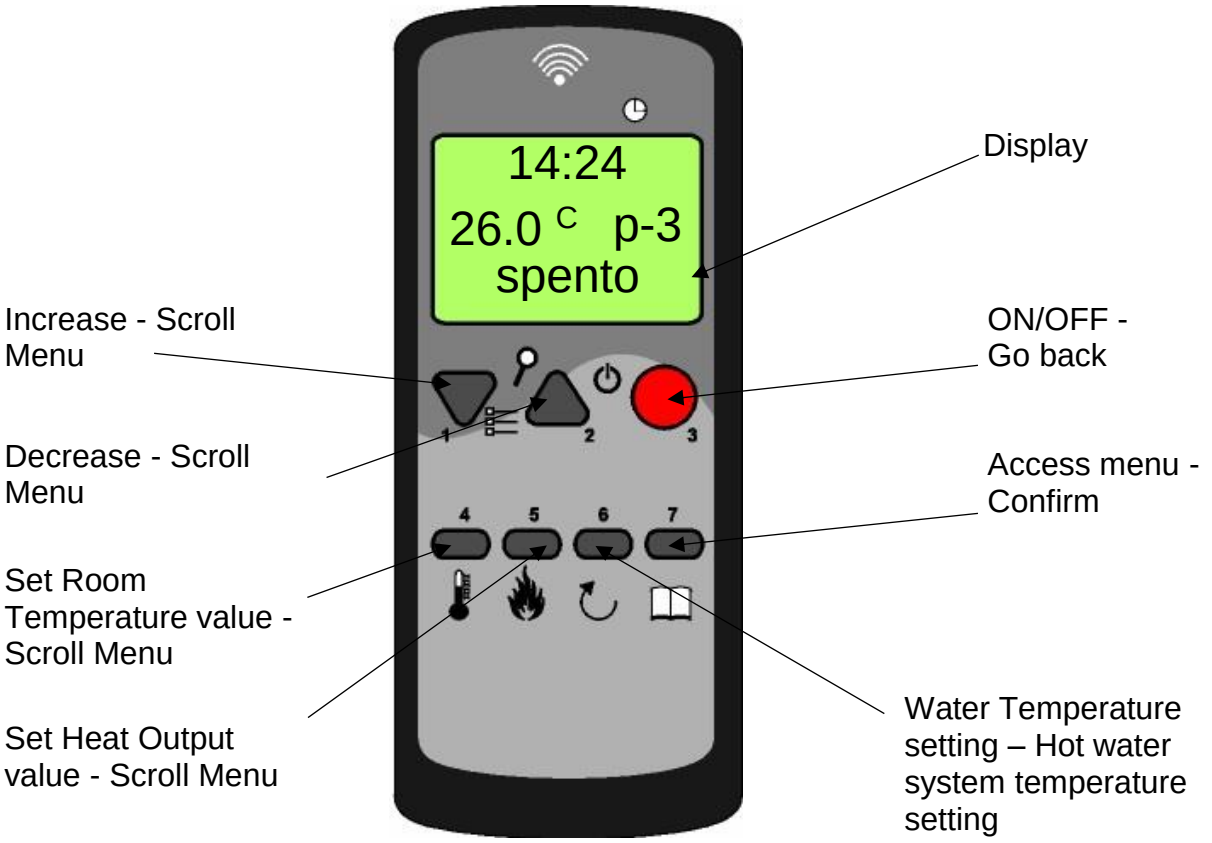
* PER IL CORRETTO FUNZIONAMENTO RISPETTARE LA POLARITA' DELLA TERMOCOPPIA

figura1

13.1 Proper functioning and control adjustment devices

13.1.1 Control panel

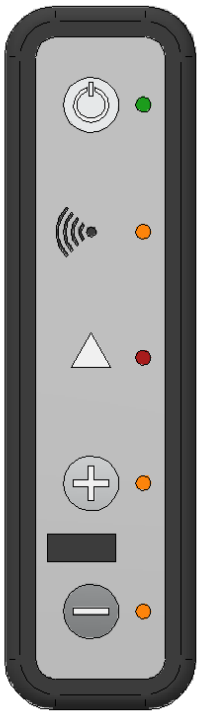
The control panel shows the information concerning the stove status. Several types of data can be displayed and the settings available according to the access level can be modified by entering the menu.
Depending on the selected mode and on their position on the display, the data visualised may acquire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



13.1.2 Panel description

BUTTON 1 - 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 or the stove heat output.
BUTTON 2 - 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 or stove heat output.
BUTTON 3 - 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).
Press it once to go back to the previous menu and up to the initial screen.
Should have any alarm blocked the stove, press this button to unlock the stove and subsequently switch it off.
BUTTON 4 – Set Room Temperature value:
When in working mode, use this button to access the set room temperature value. 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.
BUTTON 5 (P5) – Set Heat Output value:
When in working mode, use this button to access the heat output value. In menu mode, use this button to move to the next menu item, while, in programming mode, to move to the subsequent sub-menu item. Any change is automatically saved.
BUTTON 6 – Water Temperature setting:
Press this button to access boiler water and hot water temperature setting.
BUTTON 7 - Set/menu:
Use this button to access user and technician parameter menu. After entering the menu, use this button to access the next sub-menu level or set the value and move to the next menu item when in programming mode.
.

13.1.3 Emergency panel



ON/OFF button: to manually switch the stove on or off

Signal LED: it confirms that signal has been received

Alarm LED: it indicates the stove alarm status. Clear using on/off button

\+ button: heat output increase

\- button: heat output decrease

13.2 Menu

Press P7 (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.

13.2.1 User Menu

Il prospetto seguente descrive sinteticamente la struttura del menu soffermandosi in questo paragrafo alle sole selezioni disponibili per l'utente.

La voce di menu 01-regola ventole è presente solamente se la funzione corrispondente è stata abilitata.

level 1	*level 2*	*level 3*	*level 4*	*value*
01 – fan adjustment				select value
02 - time clock setting				
	01 - day			week day
	02 - hours			hour
	03 - minutes			minute
	04 - day			day month
	05 - month			month
	06 - year			year

03 – chrono setting				
	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
		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		
04 – select language				
	01 - Italian			set
	02 - French			set
	03 - English			set
	04 - German			set
05 - stand-by mode				on/off
06 - buzzer				on/off
07 – initial load				set
08 – stove status				-

13.2.2 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.

setting	*blower 2*	*blower 3*
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

13.2.3 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.

13.2.4 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.

setting	*meaning*	*available values*
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.

13. MICRONOVA ELETRONICS WHIT REMOTE CONTROL

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 ingnores 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.

PROGRAMME 1			
menu level	***setting***	***meaning***	***available values***
M2-3-02	START PRG 1	switching-on time	OFF-0-11:50
M2-3-03	STOP PRG 1	switching-off time	OFF-0-11:50
M2-3-04	MONDAY PRG 1		on/off
M2-3-05	TUESDAY PRG 1		on/off
M2-3-06	WEDNESDAY PRG 1		on/off
M2-3-07	THURSDAY PRG 1		on/off
M2-3-08	FRIDAY PRG 1		on/off
M2-3-09	SATURDAY PRG 1		on/off
M2-3-10	SUNDAY PROG 1		on/off
PROGRAMME 2			
menu level	***setting***	***meaning***	***available values***
M2-3-1 1	START PRG 2	switching-on time	OFF-0-11:50
M2-3-12	STOP PRG 2	switching-off time	OFF-0-11:50
M2-3-13	MONDAY PRG 2		on/off
M2-3-14	TUESDAY PRG 2		on/off
M2-3-15	WEDNESDAY PRG 2		on/off
M2-3-16	THURSDAY PRG 2		on/off
M2-3-17	FRIDAY PRG 2		on/off
M2-3-18	SATURDAY PRG 2		on/off
M2-3-19	SUNDAY PROG 2		on/off
PROGRAMME 3			
menu level	***setting***	***meaning***	***available values***
M2-3-20	START PRG 3	switching-on time	OFF-0-11:50
M2-3-21	STOP PRG 3	switching-off time	OFF-0-11:50
M2-3-22	MONDAY PRG 3		on/off
M2-3-23	TUESDAY PRG 3		on/off
M2-3-24	WEDNESDAY PRG 3		on/off
M2-3-25	THURSDAY PRG 3		on/off
M2-3-26	FRIDAY PRG 3		on/off
M2-3-27	SATURDAY PRG 3		on/off
M2-3-28	SUNDAY PROG 3		on/off
PROGRAMME 4			
menu level	***setting***	***meaning***	***available values***
M2-3-29	START PRG 4	switching-on time	OFF-0-11:50
M2-3-30	STOP PRG 4	switching-off time	OFF-0-11:50
M2-3-31	MONDAY PRG 4		on/off
M2-3-32	TUESDAY PRG 4		on/off
M2-3-33	WEDNESDAY PRG 4		on/off
M2-3-34	THURSDAY PRG 4		on/off
M2-3-35	FRIDAY PRG 4		on/off
M2-3-36	SATURDAY PRG 4		on/off
M2-3-37	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.

13.2.5 Menu 04 – select language

Use this function to select one of the languages available.

13.2.6 Menu 05 – select sensor

Use this menu to select the internal or the remote control sensor

13.2.7 Menu 06 - modo stand-by

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.

13.2.8 Menu 07 - buzzer mode

Set it to "OFF" to disable the buzzer.

13.2.9 Menu 08 - Initial load

Use this function to pre-load pellets for a period of 90 seconds when the stove is switched off and cold. Press P1 button to start and P3 button to stop. The initial load phase must be carried out 5-6 times in case of 12kW corner inserts. The initial load phase will be carried out also when the hopper gets completely empty during insert normal operation. The auger tube empties completely and the initial load phase must be repeated.

13.2.10 Menu 09 - 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.

13.3 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*.

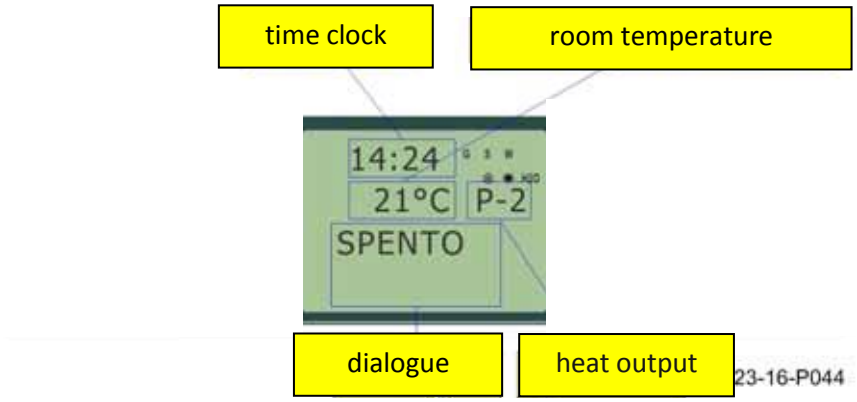


fig. 16

13.3.1 Start-up phase

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

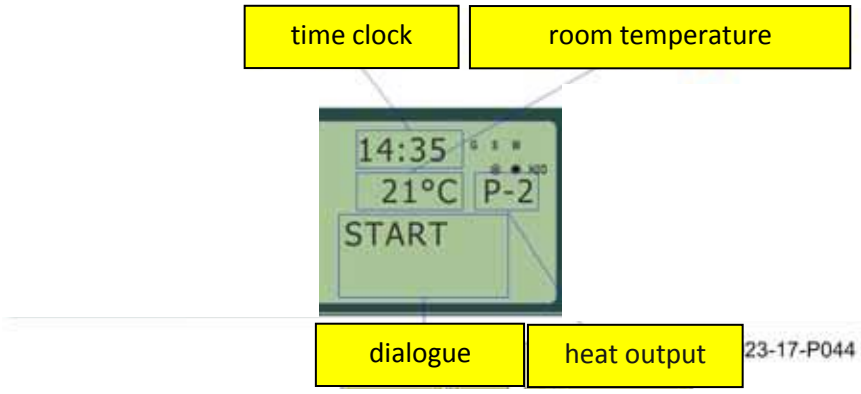


fig. 17

13.3.2 Start-up phase

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

13.3.3 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.

13.3.4 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.

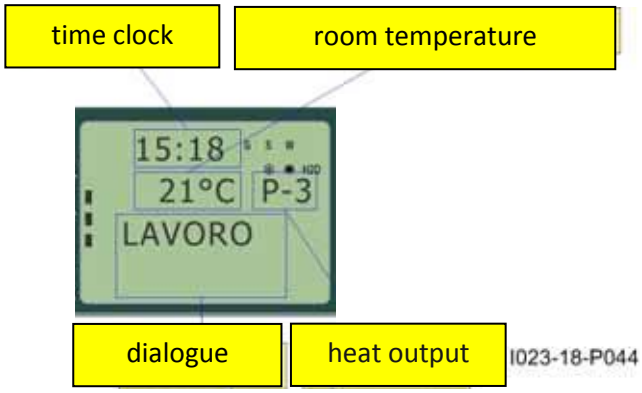


fig. 18

13.3.5 Changing set room temperature

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

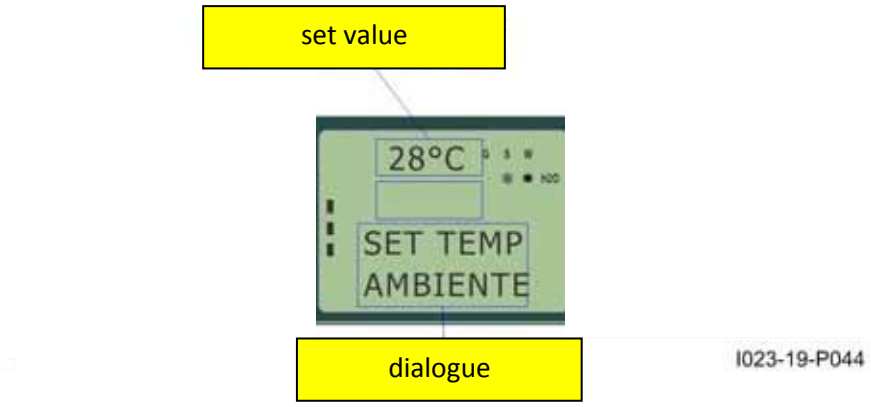


fig. 19

13.3.6 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.

13.3.7 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*

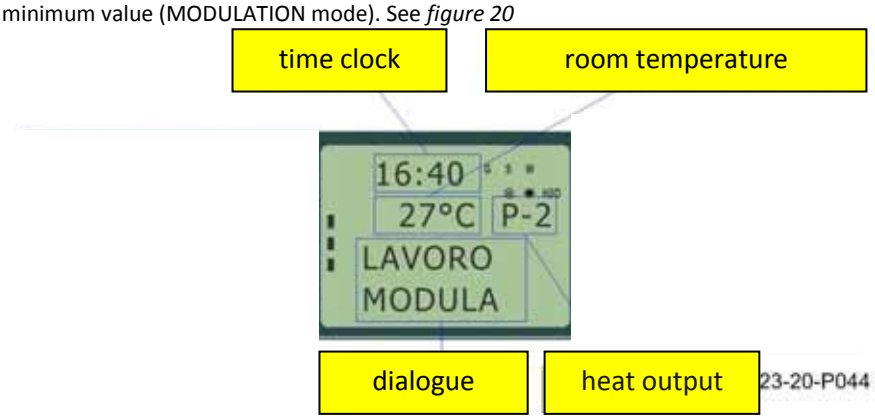
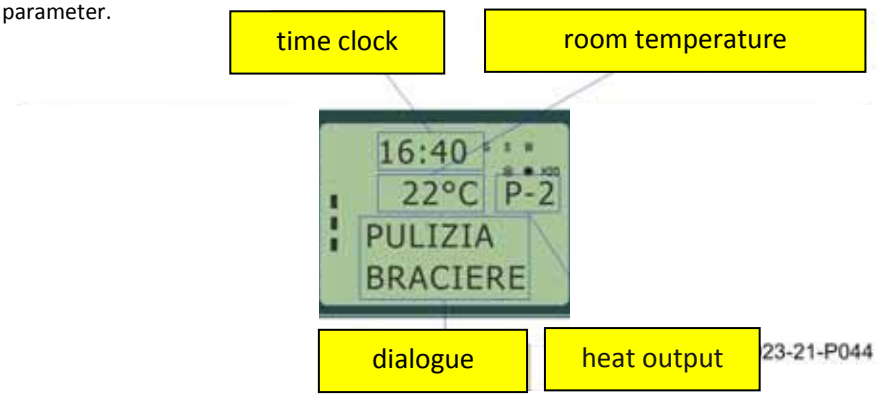


fig. 20

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 - $T_{ambiente} > (T_{SET} + Pr43)$, it is then possible to switch the stove back on.

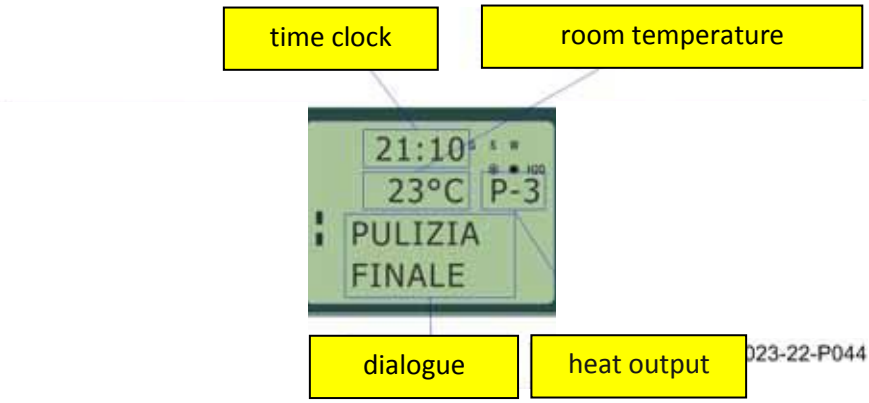
13.3.8 Burn pot cleaning

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.

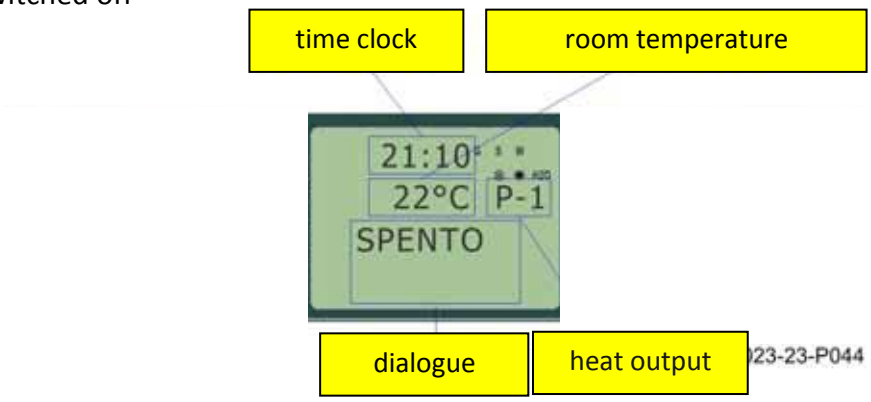


13.3.9 Stove switching off

Hold P3 button down 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.
The Auger tube stops immediately and the exhaust blower reaches its maximum speed value. The FINAL CLEANING phase is performed.

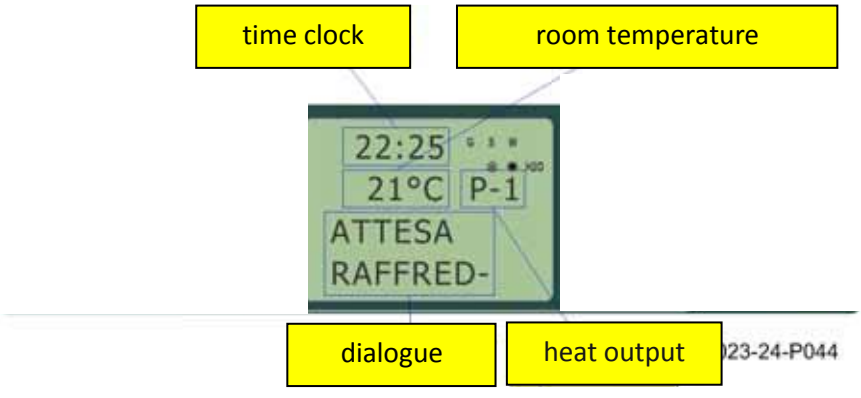


13.3.10 Stove switched off



13.3.11 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.



13.4 What happens in case of …

13.4.1 Pellet ignition failure

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

fig. 25

13.4.2 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:

previous status	***outage duration***	***new status***
switched off	any	switched off
ignition	< T	ignition
pellet loading without pre-load	< 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.

13.5 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.

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

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 P3 button.

13.5.1 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.

13.5.2 Fume overheating alarm

The alarm is triggered when the fume sensor registers a temperature exceeding 280°C.
The stove switching-off phase starts immediately.

13.5.3 Ignition failure alarm

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

13.5.4 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. The stove switching-off phase starts immediately.

13.5.5 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.

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

13.5.7 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.

13.5.8 Trying to connect

This message appears when the remote control cannot connect to the emergency panel. Make sure that board is powered or that the emergency panel (receiver) is connected properly.

14. CLEANING AND MAINTENANCE

14.1 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 FUNTAMENTAL 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.**

14.2 Daily cleaning

Operations to carry out when the stove is fully cold:

- Emptying the ash drawer : by means of a vacuum cleaner or throwing the ash in the dustbin .
- Vacuum the burning chamber: be careful there are not yet hot embers. In this case , the vacuum cleaner can strt burning.
- Take off the ash inside the burner and the door.
- Wipe off the door glass by means of a wet cloth or a balled newspaper, wet and smeared with ash. If this operation were carried out when the stove is still hot, the glass could explode.

N.B. :USE A DRY CLOTH TO CLEAN THE STOVE EXTERNALLY

14.3 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.

15. TROUBLESHOOTING

PROBLEM		CAUSE	SOLUTION
FIRST START-UP		**IT MAY BE NECESSARY TO REPEAT THE FIRST LOAD PHASE A FEW TIMES TO FACILITATE THE APPLIANCE FIRST START-UP SINCE THE AUGER TUBE IS COMPLETELY EMPTY AND IT MAY TAKE A SPECIFIC PERIOD OF TIME TO FILL.**	
DISPLAY NOT WORKING		POWER OUTAGE	CHECK PLUG AND POWER SUPPLY
		FAULTY ELECTRICAL CABLE	CALL TECHNICAL ASSISTANCE.
		INTERRUPTED FUSE IN CONTROL BOARD	CALL TECHNICAL ASSISTANCE.
		FAULTY CONTROL BOARD	CALL TECHNICAL ASSISTANCE.
		FAULTY DISPLAY	CALL TECHNICAL ASSISTANCE.
ALARM NO FIRE	**PELLETS NOT FED TO BURN POT**	NO PELLETS	ALARM NO FIRE
		SAFETY THERMOSTAT TRIGGERED	MANUALLY RESET THE THERMOSTAT LOCATED ON STOVE BACK.
		AUGER TUBE BLOCKED BY FOREIGN BODY	DISCONNECT PLUG, EMPTY HOPPER, REMOVE ANY FOREIGN BODY, SUCH AS NAILS, ETC.
		FAULTY AUGER TUBE MOTOR	CALL TECHNICAL ASSISTANCE.
		ACTIVE ALARM	SEE ALARM SECTION.
	PELLETS FALL BUT NOT LIT	DIRTY BURN POT	CLEAN BURN POT.
		TEMPERATURE TOO COLD	REPEAT SWITCHING-ON PHASE SEVERAL TIMES, EMPTYING THE BURN POT UPON EACH TIME.
		DAMP PELLETS	CHECK PELLET STORAGE LOCATION.
		FAULTY IGNITION PLUG	CALL TECHNICAL ASSISTANCE.
		FAULTY FUME SENSOR	CALL TECHNICAL ASSISTANCE.
		FAULTY EXHAUST BLOWER	CALL TECHNICAL ASSISTANCE.
		FAULTY CONTROL BOARD	CALL TECHNICAL ASSISTANCE.
	STOVE SWITCHES OFF DURING NORMAL FUNCTIONING	POWER OUTAGE	CHECK PLUG AND POWER SUPPLY.
		NO PELLETS	CHECK HOPPER
		AUGER TUBE BLOCKED BY FOREIGN BODY	DISCONNECT PLUG, EMPTY HOPPER, REMOVE ANY FOREIGN BODY, SUCH AS NAILS, ETC.
		POOR QUALITY PELLETS	CHANGE PELLET TYPE.
		INSUFFICIENT PELLET SET VALUE AT MINIMUM HEAT OUTPUT	CALL TECHNICAL ASSISTANCE.
		ACTIVE ALARM	SEE ALARM SECTION.
POOR FLAME		ANTI-EXPLOSION DEVICE PLUG MISSING OR NOT CORRECTLY POSITIONED.	
		PARTIALLY CLOGGED VENT PIPE	CLEAN VENT PIPE IMMEDIATELY.
		COMBUSTION AIR NOT SUFFICIENT	CLOGGED AIR INTAKE.
		CLOGGED STOVE	CLEAN BURN POT AND ASH DRAWER.
		FAULTY / DIRTY EXHAUST BLOWER	GET IT CLEANED BY A SPECIALISED TECHNICIAN CALL TECHNICAL ASSISTANCE
		INADEQUATE COMBUSTION AIR SET VALUE	CALL TECHNICAL ASSISTANCE.
ALARM NO RETE		POWER OUTAGE	SWITCH STOVE ON AND OFF, CHECK PLUG.
RiS / ECO		SET ROOM TEMPERATURE REACHED / STOVE WORKS PROPERLY	
DISPLAY DOES NOT WORK		SET ROOM TEMPERATURE REACHED	INCREASE SET ROOM TEMPERATURE SO THAT APPLIANCE GOES BACK TO "WORKING" MODE.
STOP FIRE		PERIODIC CYCLE OF BURN POT CLEANING	STOVE WORKS PROPERLY
ALARM DEP		EXCESSIVE OR INADEQUATE VENT PIPE LENGTH	NON-COMPLIANT VENT PIPE
		CLOGGED OUTLET	CLEAN VENT PIPE / CALL AUTHORISED TECHNICIAN.
		BAD WEATHER CONDITIONS	STRONG WIND.

15. TROUBLESHOOTING

ALARM SIC	FIREBOX OVERHEATING	LET STOVE COOL DOWN, MANUALLY RESET THERMOSTAT ON BACK. SWITCH STOVE ON 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 STOVE ON AGAIN.
	FAULTY EXCHANGER BLOWER	CALL TECHNICAL ASSISTANCE.
	FAULTY THERMOSTAT WITH RESET	CALL TECHNICAL ASSISTANCE.
	FAULTY CONTROL BOARD	CALL TECHNICAL ASSISTANCE.
ALARM SOND FUMI	FAULTY FUME SENSOR	CALL TECHNICAL ASSISTANCE.
	FUME SENSOR DISCONNECTED	CALL TECHNICAL ASSISTANCE.
ALARM HOT TEMP	FAULTY FUME SENSOR	CALL TECHNICAL ASSISTANCE.
	FAULTY CONTROL BOARD	CALL TECHNICAL ASSISTANCE.
	FAULTY EXCHANGER BLOWER	CALL TECHNICAL ASSISTANCE.
	EXCESSIVE PELLET SET VALUE AT MAXIMUM HEAT OUTPUT	CALL TECHNICAL ASSISTANCE.
REMOTE CONTROL DOES NOT WORK (CERCA CAMPO - TRYING TO CONNECT)	POSSIBLE INTERFERENCE	TRY DISCONNECTING FROM THE MAINS SUPPLY ANY HOUSEHOLD APPLIANCE OR ANY OTHER APPLIANCE THAT MAY GENERATE ELECTROMAGNETIC FIELDS.
REMOTE CONTROL DOES NOT SWITCH ON	DISPLAY SWITCHED OFF	CHECK BATTERY / FAULTY REMOTE CONTROL.

16. ANNUAL MAINTENANCE SCHEDULE

Date of 1st maintenance operation _____ / _____ / _____

(Technical Support Service Stamp)

Date of 2nd maintenance operation _____ / _____ / _____

(Technical Support Service Stamp)

Date of 3rd maintenance operation _____ / _____ / _____

(Technical Support Service Stamp)

INSTALLATION AND TESTING CERTIFICATE

CLIENT: _____

ADDRESS: _____

CITY: _____

POSTCODE: _____

PROVINCE: _____

TELEPHONE: _____

Delivery date:_____

Delivery document: _____

Product mod.: _____

Serial number: Year:

Dealer's Stamp:

Installation Technician's Stamp:

Name: _____
Surname: _____
Address: _____ Postcode.:
City: _____
Telephone:

After Product installation, the client hereby declares that the work has been carried out properly and in accordance with the instructions of this manual. Moreover, the client declares to have checked the perfect operation and to be aware of the instructions required for correct use and correct management and maintenance of the Product.

CLIENT'S Signature DEALER'S/INSTALLATION TECHNICIAN'S

Copy for the dealer or the installation technician

INSTALLATION AND TESTING CERTIFICATE

CLIENT: _____

ADDRESS: _____

CITY: _____

POSTCODE: _____

PROVINCE: _____

TELEPHONE: _____

Delivery date:_____

Delivery document: _____

Product mod.: _____

Serial number: Year:

Dealer's Stamp:

Installation Technician's Stamp:

Name: _____
Surname: _____
Address: _____ Postcode.:
City: _____
Telephone:

After Product installation, the client hereby declares that the work has been carried out properly and in accordance with the instructions of this manual. Moreover, the client declares to have checked the perfect operation and to be aware of the instructions required for correct use and correct management and maintenance of the Product.

CLIENT'S Signature DEALER'S/INSTALLATION TECHNICIAN'S

18. WARRANTY CERTIFICATE

Congratulations! Thank you for purchasing an Eva Stampaggi 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* info@evacalor.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 Support Service 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

18. WARRANTY CERTIFICATE

The warranty shall not cover:

- **Non-compliant installation or installation carried out by non-qualified staff (UNI10683 and UNI EN 1443);**
- **First ignition not carried out by an authorised technician;**
- **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.
Via Cal Longa Z.I.
I - 31028 Vazzola (Treviso - Italy)
Tel. +39.0438.740433 rollover lines
Fax +39.0438.740821
E-mail: info@evacalor.it

Retailer Stamp and Signature