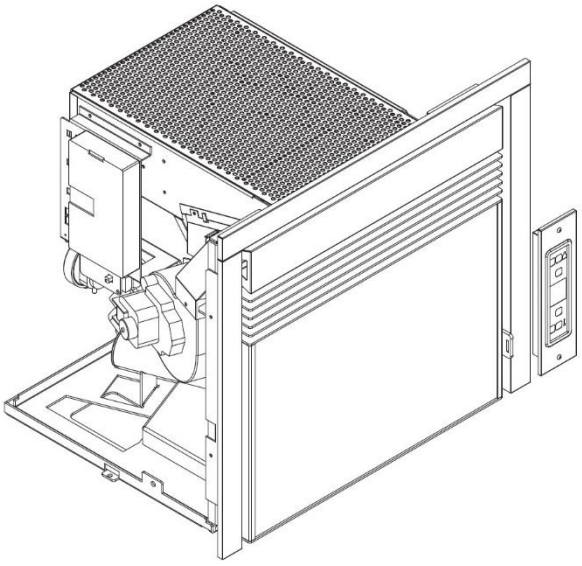
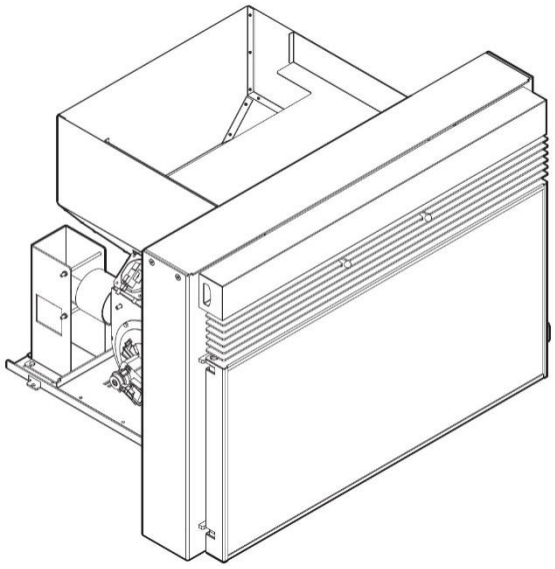
EN

INSTRUCTION MANUAL
PELLET INSERTS



7.5 KW

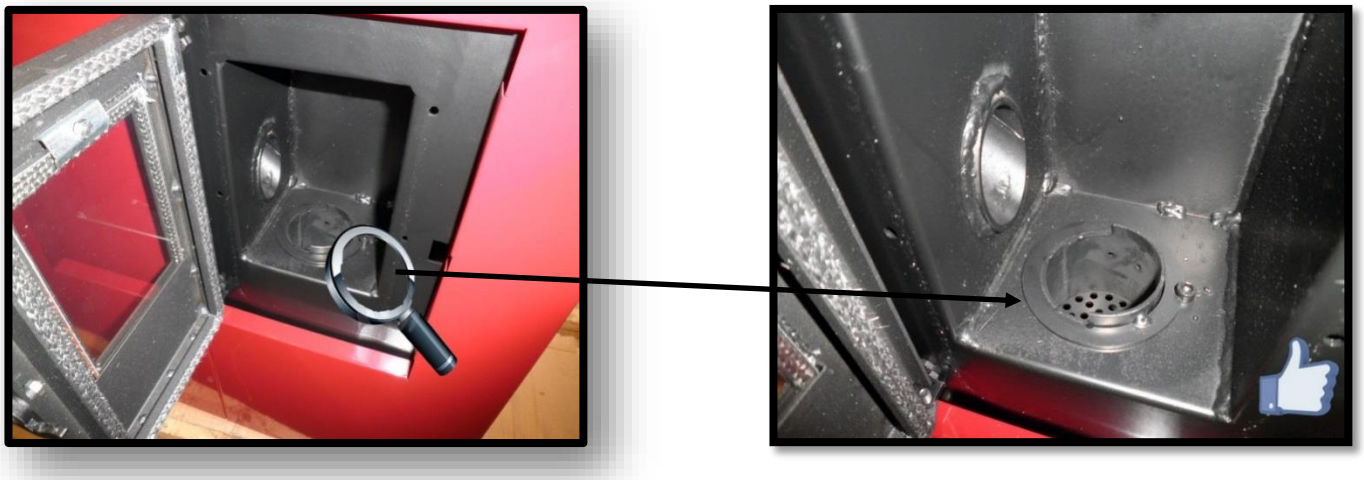


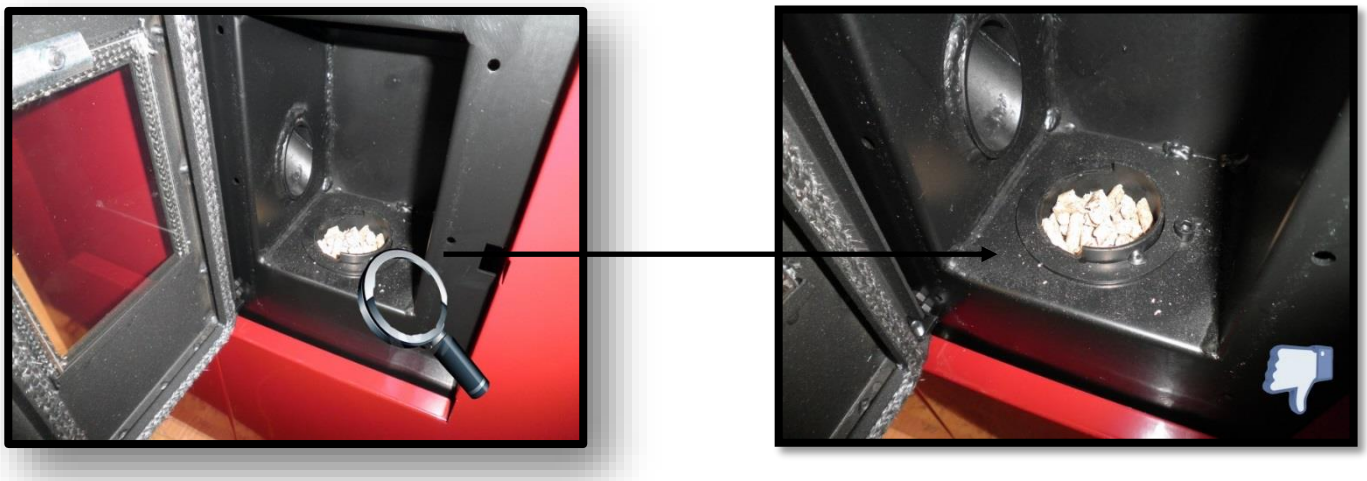
11 KW

EVA STAMPAGGI

IMPORTANT: ESSENTIAL TO READ

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.

TABLE OF CONTENTS

01. PRODUCT SAFETY

01.1 SAFETY WARNINGS

The stoves were built in compliance according to standard EN13240 (wood stoves), EN 14785 (pellet stoves) and EN 12815 (kitchens and wood-burning stoves) using high quality and non-polluting materials. To make better use of your stove it is advisable to follow the instructions in this booklet.

Read this manual carefully before use or any maintenance operation.

Eva Stampaggi aims to provide as much information as possible to ensure safer use and to avoid damage to persons, property or parts of the stove itself.

Each stove is subjected to internal testing before shipment and as such residues inside the appliance may be found.

RETAIN THIS MANUAL FOR FUTURE REFERENCE.

FOR ANY REQUIREMENT OR CLARIFICATION PLEASE CONTACT

THE AUTHORISED RETAILER

- Installation and connection must be carried out by qualified staff in compliance with local regulations, national and European standards (UNI 10683) and with the annexed installation instructions. Furthermore, these operations must be performed by personnel who are authorised and professionally trained for the task in question.
- 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 introduce into the stove an amount of fuel greater than that recommended in this booklet.
- Do not modify the product.
- It is forbidden to use the appliance with the door open or the glass broken.
- Do not use the appliance as, for example, a clothes drying rack, a bearing surface or step etc.
- Do not install the stove in bedrooms or bathrooms.

The pellets to be used are the following:

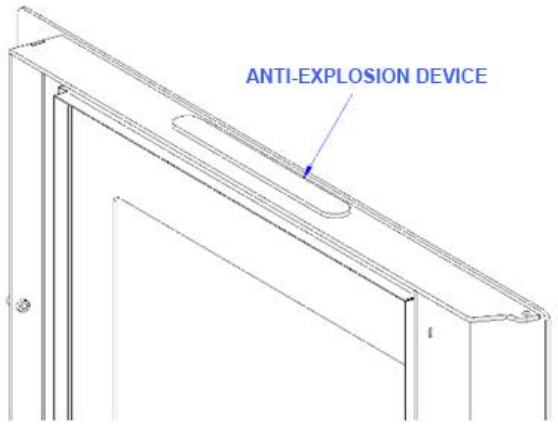
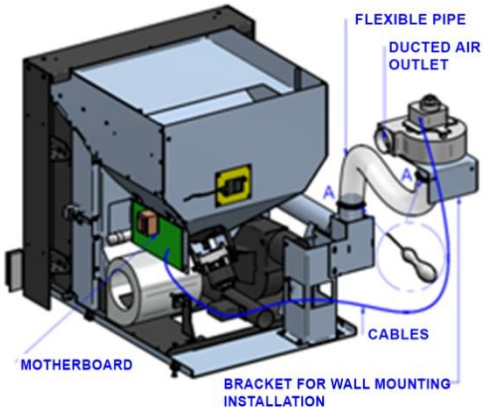
The pellet stoves operate exclusively with pellets made from various types of legislative-compliant wood.
DIN plus 51731 or EN plus 14961-2 A1 or PEFC/04-31-0220 or ONORM M7135 or having the following characteristics:
Min calorific value 4.8 kWh/kg (4180 kcal/kg)
Density 630-700 kg/m3
Maximum humidity 10% of the weight
Diameter: 6 ±0.5 mm
Percentage ash: max 1% of the weight
Length: min 6 mm- max 30 mm
Composition: 100% untreated wood from the industry of wood or post-consumption without the addition of binders, bark-free and compliant with current regulations.

01.2 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 on 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. The device is classified as type Y: the power supply cable may only be replaced by a qualified technician. 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.**
- **ATTENTION! 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 1,5 m away from the stove front and 30 cm from the stove sides and back.
- The stove that is 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.**
- 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. in a workshop or garage).
- 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.**
- **ATTENTION! These stoves operate exclusively on pellets and possibly also pits if the stove has this option; DO NOT USE OTHER FUELS: any other material that may be burnt will result in failure and malfunction of the appliance.**
- **Keep the pellets in a fresh dry place: storing pellets in a place that is damp or excessively cold may reduce the stove potential heat output. Be careful when storing and handling pellet bags to prevent pellet crushing and consequent sawdust production.**
- 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.
- **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.
- 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 using the appliance for the first few times, unpleasant odours may be given off due to the paint of the metal parts that is drying: this is in no way dangerous and in such case, simply ventilate the premises. After the first heating cycles, the paint will reach its maximum adhesion and all its chemical and physical features.
- The reload the hopper, simply open the access lid and pour in the pellets, 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 become completely empty, the appliance will be automatically switched off. It may take two separate ignitions to resume operation at ideal working conditions as the auger tube is very long.
- **ATTENTION! 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.**
- **ATTENTION! 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	Ducting system
	
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.	The devices which can be equipped with ducting systems are the 11KW inserts (without guide). After installing the insert, fix the bracket with the second blower to the wall in a comfortable position and if possible, not above the flexible pipe supplied with the product. Carefully tighten the clamps and connect the blower to another flexible pipe to channel the air into another room. See chapter 11 for instructions on how to adjust the second blower.

01.3 EC CERTIFICATE OF CONFORMITY

CE

EVA STAMPAGGI S.r.l.
Via Cal Longa Z.I.
31028 Vazzola (TV) - ITALY

14

Trademark: ----

EN 14785 :2006

Residential space heating appliances fired by wood pellet
Apparecchi per il riscaldamento domestico alimentato a pellet di legno

Type: ----

Model: INSERTO 7,5 KW

Distance to adjacent combustible materials *Distanza da materiali combustibile*	:	21 cm Rear 21 cm Sides	
Emission of CO in combustion products *Emissione di CO nei prodotti di combustione*	:	nominal heat output 0,016 % reduced heat output 0,058 %	
Maximum operating pressure *Massima pressione di esercizio*	:	-	
Flue gas temperature *Temperatura dei fumi*	:	195 °C at nominal heat output 127 °C at reduced heat output	
Nominal heat output *Potenza termica nominale*	:	6,5 kW	
Reduced heat output *Potenza termica ridotta*	:	3,3 kW	
Efficiency *Rendimento energetico*	:	nominal heat output 86,0 % reduced heat output 86,5 %	
Fuel type *Tipi di combustibile*	:	Wood pellet *Pellet di legno*	
Dust emission *Polveri*	:	8 mg/Nm^3 - mg/MJ	At 13% O_2 At 0% O_2
Electrical power supply *Potenza elettrica assorbita*	:	350 W	
Rated voltage *Tensione nominale*	:	230 V	
Rated frequency *Frequenza nominale*	:	50 Hz	

CE

EVA STAMPAGGI S.r.l.
Via Cal Longa Z.I.
31028 Vazzola (TV) - ITALY

15

Trademark: ----

EN 14785 :2006

Residential space heating appliances fired by wood pellet
Apparecchi per il riscaldamento domestico alimentato a pellet di legno

Type: ----

Model: INSERTO 11 KW

Distance to adjacent combustible materials *Distanza da materiali combustibile*	:	10 cm Rear 10 cm Sides 0,5 cm Floor	
Emission of CO in combustion products *Emissione di CO nei prodotti di combustione*	:	nominal heat output 0,012 % reduced heat output 0,047 %	
Maximum operating pressure *Massima pressione di esercizio*	:	-	
Flue gas temperature *Temperatura dei fumi*	:	203 °C at nominal heat output 96 °C at reduced heat output	
Nominal heat output *Potenza termica nominale*	:	9,5kW	
Reduced heat output *Potenza termica ridotta*	:	2,7 kW	
Efficiency *Rendimento energetico*	:	nominal heat output 85,2 % reduced heat output 87,5 %	
Fuel type *Tipi di combustibile*	:	Wood pellet *Pellet di legno*	
Dust emission *Polveri*	:	17 mg/Nm^3 - mg/MJ	At 13% O_2 At 0% O_2
Electrical power supply *Potenza elettrica assorbita*	:	380 W	
Rated voltage *Tensione nominale*	:	230 V	
Rated frequency *Frequenza nominale*	:	50 Hz	

7.5 kW Insert

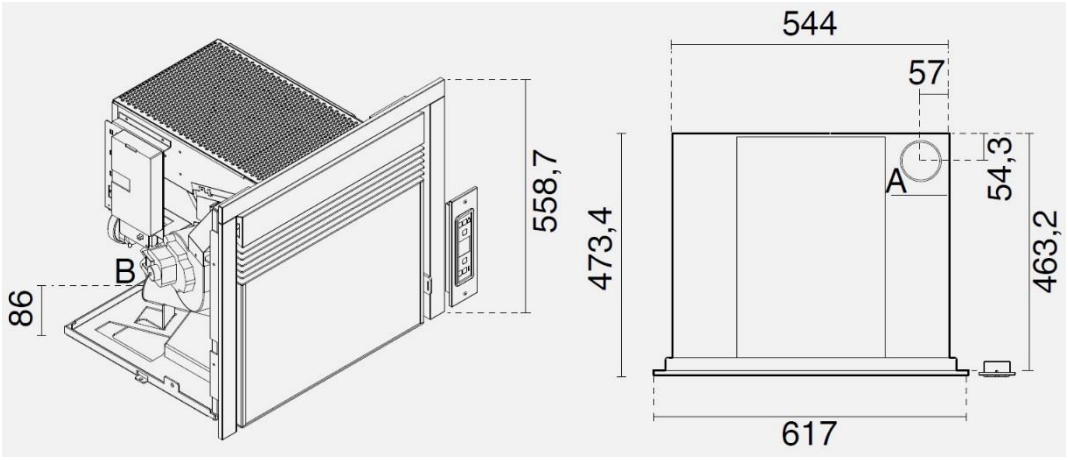
This product will furnish your home with few details and lots of character thanks to its compact size; a perfect combination between modernity and style. It is a compact but very powerful pellet insert, that can heat up to 150 mc, perfectly fitting all spaces and styles of furniture thanks to its clean design. Easy to load, the hopper loading drawer can be easily opened and the pellet slides smoothly on the inclined plane.

11 kW Insert

A compact and practical insert that can be loaded even during operation thanks to the front removable drawer (except for the insert with guides). The cast iron flue gas system ensures optimal performance and durability.
It is available in two versions: with frontal ventilation or ducted to transfer the warm air into another room, over a distance of 2/4 mt (except for the insert with guides).

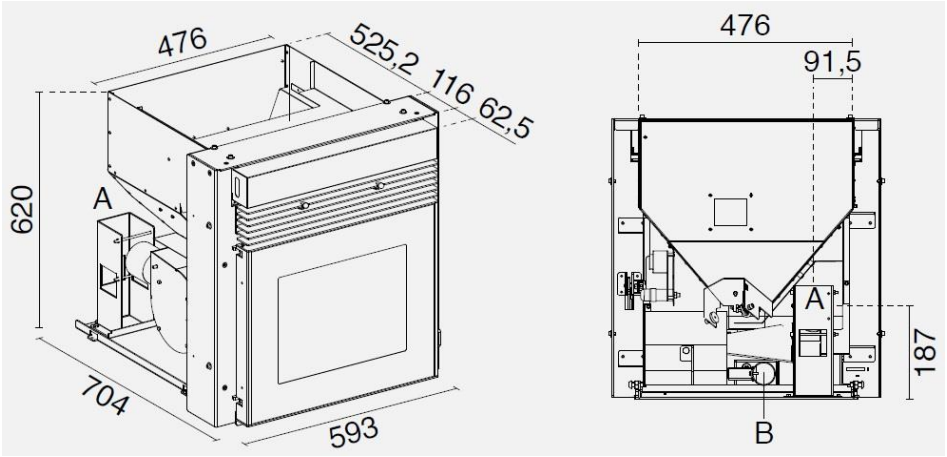
TECHNICAL DRAWING

7.5 KW INSERT



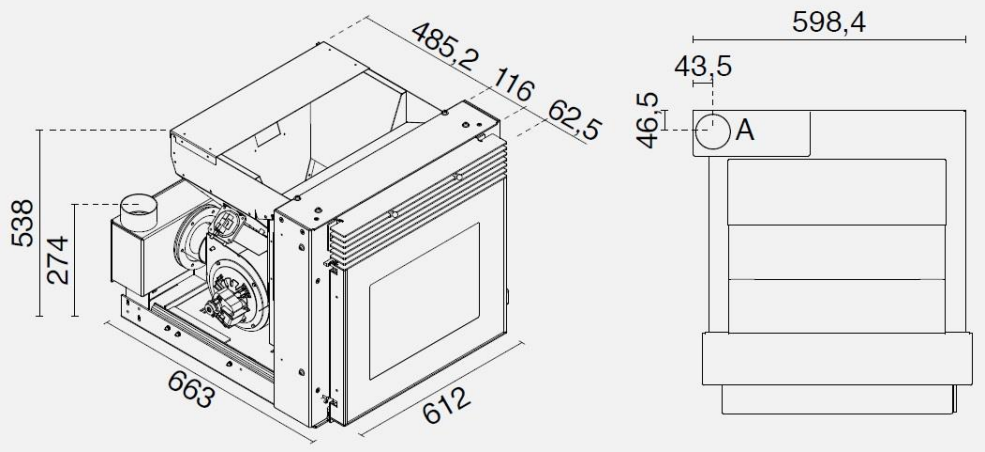
A = Ø 80 mm Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Odvod dimnih plinov
B = Ø 51 mm Aria combustione / Combustion air / Air de combustion / Verbrennungsluft / Aire para la combustión / Zrak za zgorevanje

11 KW INSER - STANDARD



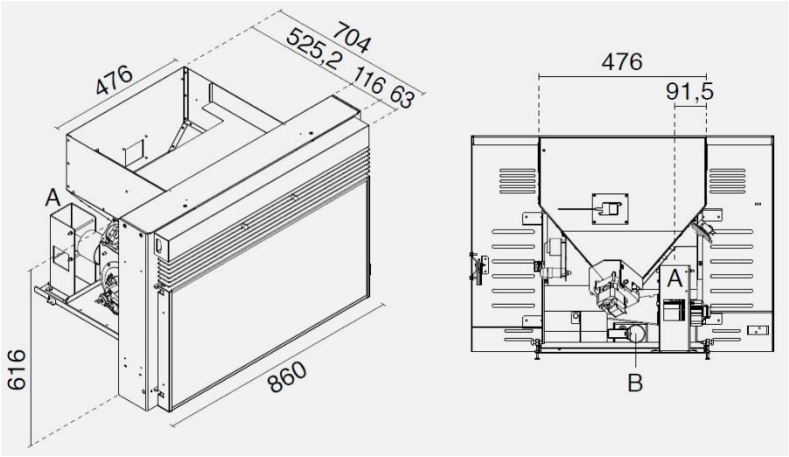
A = Ø 80 mm Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Odvod dimnih plinov
B = Ø 51 mm Aria combustione / Combustion air / Air de combustion / Verbrennungsluft / Aire para la combustión / Zrak za zgorevanje

11 KW INSERT – WITH GUIDES



A = Ø 80 mm Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Odvod dimnih plinov
B = Ø 51 mm Aria combustione / Combustion air / Air de combustion / Verbrennungsluft / Aire para la combustión / Zrak za zgorevanje

11 KW INSERT – LARGE GLASS



A = Ø 80 mm Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Odvod dimnih plinov
B = Ø 51 mm Aria combustione / Combustion air / Air de combustion / Verbrennungsluft / Aire para la combustión / Zrak za zgorevanje

03. PRODUCT INSTALLATION

TECHNICAL DATA

Technical data of the appliance: *Dati tecnici dell'apparecchio:*	7.5KW INSERT		11 KW INSERT	
Designation: *Designazione:*	**Nominal heat output** *Potenza termica nominale*	**Reduced heat output** *Potenza termica ridotta*	**Nominal heat output** *Potenza termica nominale*	**Reduced heat output** *Potenza termica ridotta*
Fuel throughput *Consumo orario (kg/h)*	1.6	0.8	2.4	0.6
Necessary flue draught *Requisiti minimi del tiraggio del camino (Pa)*	11	12	12	10
Flue gas temperature *Temperatura fumi (°C)*	195	127	203	96
Flue gas temperature at flue spigot or socket *Temperatura uscita fumi (°C)*	223	149	217	104
Flue gas mass flow *Flusso massico dei fumi (g/s)*	5.5	4.4	8.3	4.9
Efficiency *Rendimento (%)*	86.0	86.5	85.0	87.5
Total heating output *Potenza termica (Kw)*	6.5	3.3	9.5	2.7
Water heating output *Potenza termica resa all'acqua (Kw)*	-	-	-	-
Space heating output *Potenza termica resa all'ambiente (Kw)*	6.5	3.3	9.5	2.7
CO emission at 13% of O_2 *Emissioni di CO al 13% di O_2 (%)*	0.016	0.058	0.012	0.047
Maximum water operating pressure *Massima pressione di esercizio dell'acqua (bar)*	-	-	-	-
Discharge control operating temperature *Temperatura di intervento termostato sicurezza acqua (°C)*	-	-	-	-
Electrical power supply *Potenza elettrica assorbita (W)*	350	350	380	380
Rated voltage *Tensione nominale (V)*	230	230	230	230
Rated frequency *Frequenza nominale(Hz)*	50	50	50	50

ELECTRICAL CONNECTION

The electrical connection must be performed by qualified personnel who install circuit breakers upstream of the appliance.
Special attention should be paid when the operation is a supplementary action and all equipment must operate as planned.
Avoid installations with electric cables that run close to fume pipes or hot components that are suitably insulated.
The voltage is 230 V while the frequency is 50 Hz.
The electrical system where it is connected must be fitted with a conductor as required by the Regulations 73/23 EEC and 93/98 EEC.

03.1 INTRODUCTION

INSTALLATION WITH WALL FUME OUTLET IS PROHIBITED. INSTEAD THE FUME OUTLET MUST BE ROOF-TYPE AS PROVIDED FOR BY NATIONAL REGULATIONS.

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.

Install the stove according to the regulations in force in the country of use.
For example, in Italy this refers to UNI 10683: 2012, which dictates 4 points

1. preliminary activities - for which the retailer/installer is responsible and liable for at the time of the inspection before definitive installation. The preliminary activities include:

- installation site suitability verification;
- fume evacuation system suitability verification;
- external air inlet suitability verification;

At this stage it is necessary to check that the product can be safely operated and that it satisfies the relevant technical characteristics.
The **safety conditions** must be ascertained by means of a prior inspection.
Stoves and fireplaces are heating systems and must be installed safely and comply with the manufacturer's instructions!
2. Installation - responsibility of the installer. At this phase the aspects of **installation** of the product and of the fume evacuation system are taken into account and the following issues are addressed:

- **safety distance** from combustible materials;
- **chimney flue construction**, smoke ducts, intubated systems and chimney cowls.

3. issuing of additional documents - responsibility of the installer.
Issuing of the technical documentation must include:

- manual of use and maintenance of the appliance and of the components of the system (e.g smoke ducts, chimney flue, etc.);
- Photocopy or photograph of the chimney flue plate;
- system manual: (if applicable);
- Declaration of Conformity in relation to Ministerial Decree 37/08.

4. control and maintenance - responsibility of the maintenance technician who must oversee protection and maintenance of the product during its operation over time. The operator in charge of control and maintenance of the systems for winter and summer climate control performs these activities **to a professional standard** in accordance with the regulations in force. The operator, at the end of these operations, must draw up and sign a technical inspection report in accordance with the models provided by the provisions of this decree and the implementing rules, in relation to the type and capacity of the system, to be issued to the person who signs a copy thereby confirming receipt and reading thereof."

03.2 VENT PIPE

STOVE CHARACTERISTICS FOR SIZING OF THE VENT PIPE

The 7.5 Kw inserts have the following characteristics:

Chimney flue draught: 11 Pa
Fume temperature: 195 °C
Mass flow of fumes: 5.5 g/s

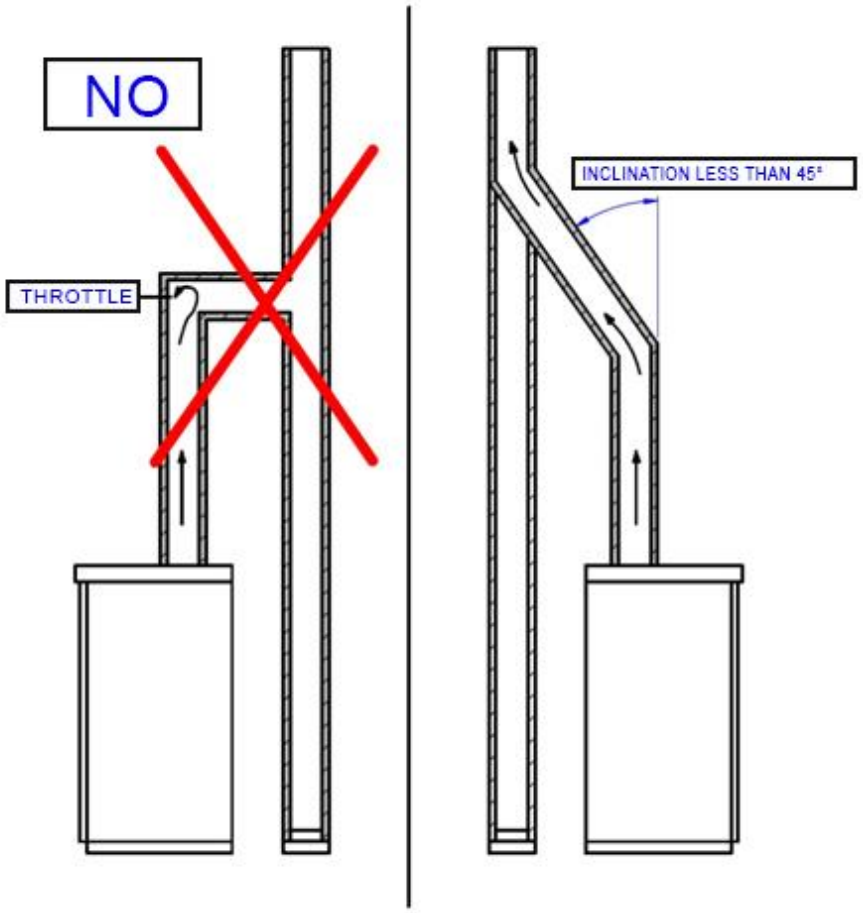
The 11 Kw inserts have the following characteristics:

Chimney flue draught: 12 Pa
Fume temperature: 203 °C
Mass flow of fumes: 8.3 g/s

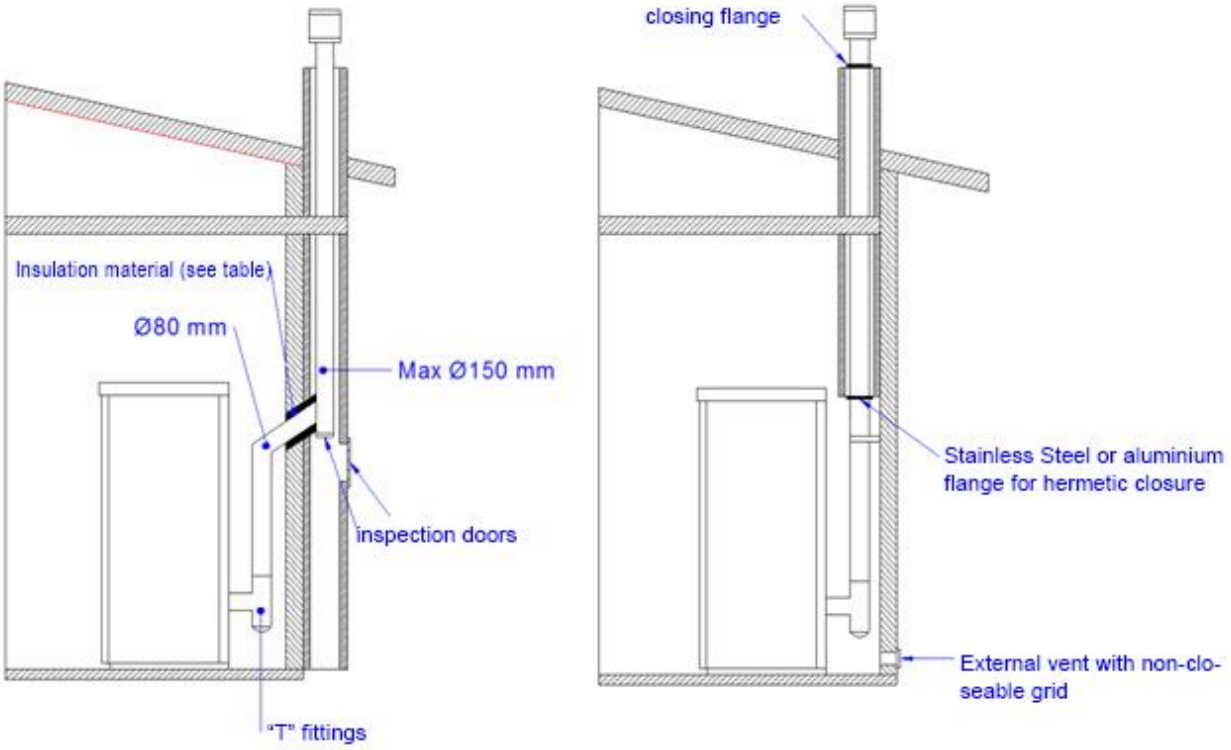
03. PRODUCT INSTALLATION

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

- The stove is fitted with a 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 the build-up of non-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.

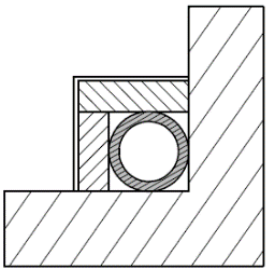
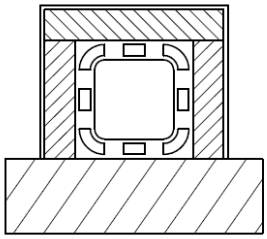
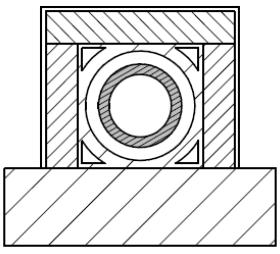
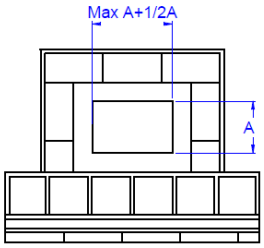


EXISTING VENT PIPE (TRADITIONAL)



Types of vent pipe

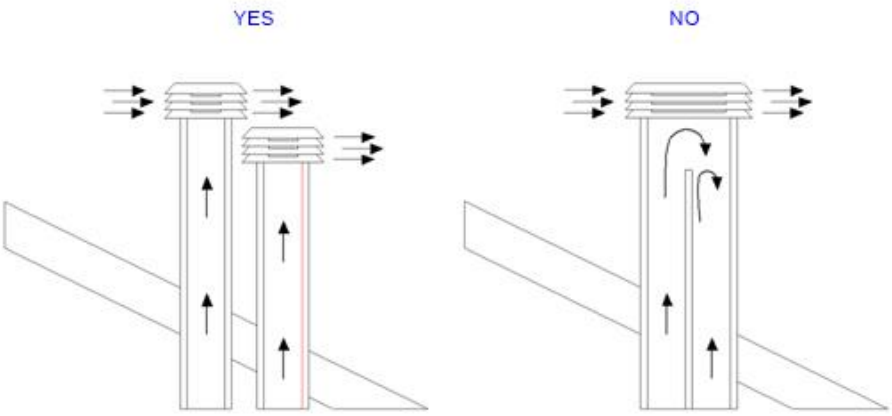
Examples of vent pipe

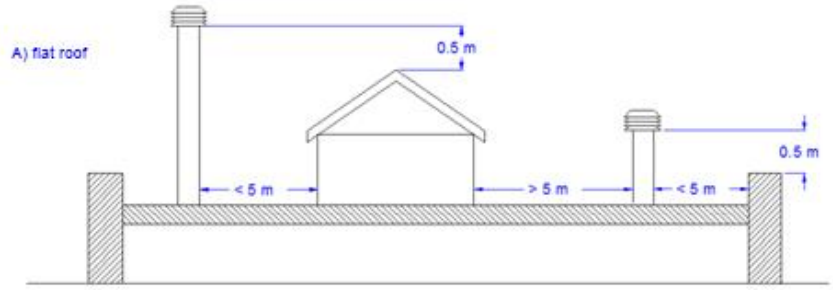
 Steel vent pipe with double chamber insulated with material resistant to 400°C. Optimum efficiency.	 Traditional clay vent pipe with cavities. Optimum efficiency.
 Refractory vent pipe with insulated double chamber and external coating in lightweight concrete. Optimum efficiency.	 Avoid vent pipes with internal rectangular section whose ratio between the larger and smaller side is greater than 1.5. Poor efficiency

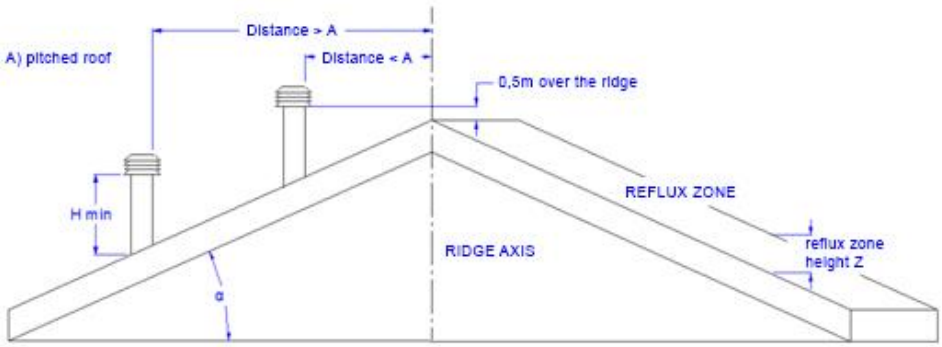
03.3 CHIMNEY COWL

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

- have useful outlet section that is at least twice that of the vent pipe.
- be made in such a way as to prevent the penetration of rain or snow.
- be constructed in such a way as to ensure, in the event of winds coming from any direction, the evacuation of combustion products.
- be free of mechanical intake auxiliaries.







Roof pitch α [°]	Horizontal width of reflux zone measured from top A axis [m]	Minimum height from roof for discharging 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

03.4 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 as 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 is 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.

In order to avoid excessive draught it is appropriate to use:

Draught regulator

03.5 STOVE EFFICIENCY

Highly efficient stoves may pose difficulties for fume extraction.

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

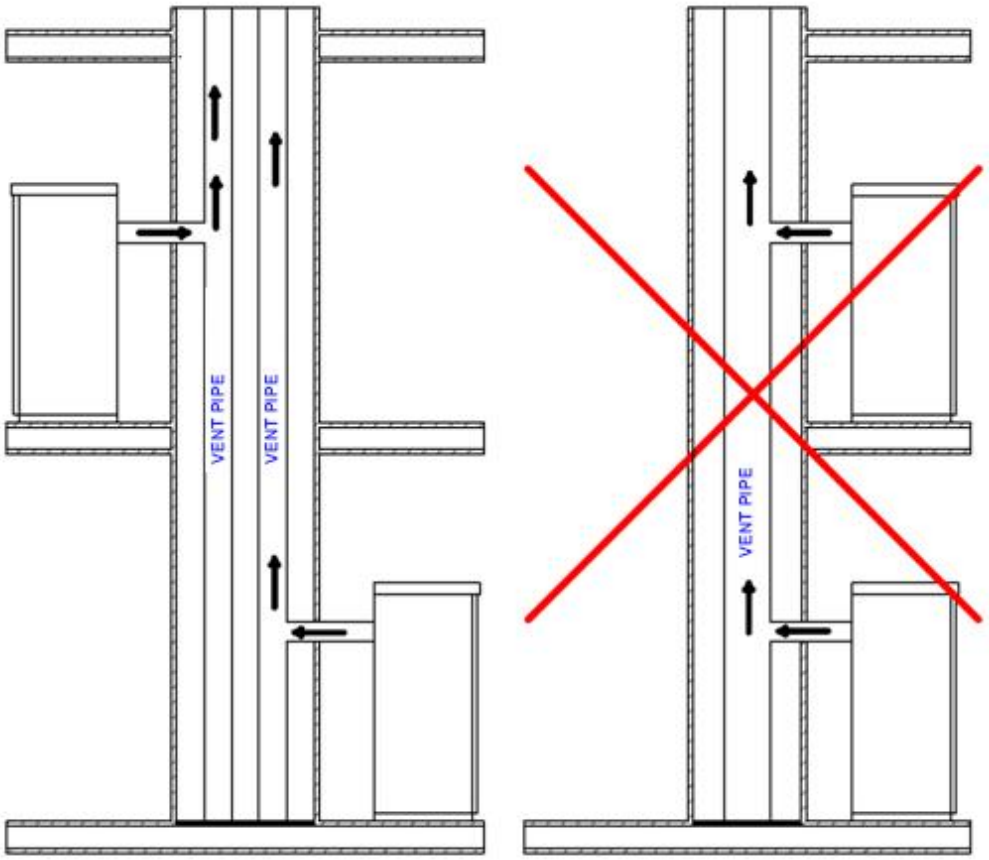
Importantly, the efficiency of a heater is determined by its ability to transfer most of the heat produced to the environment to be heated: consequently, the greater the efficiency of the stove, the "colder" the residual fumes of combustion, and consequently, the lower the "draft".

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.

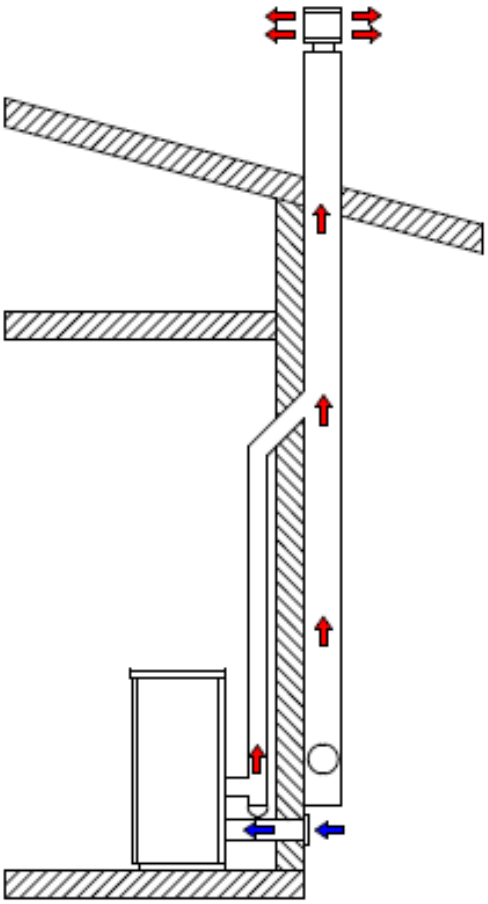
Poor draught results in the stove not operating when hot or in smoke spillage.

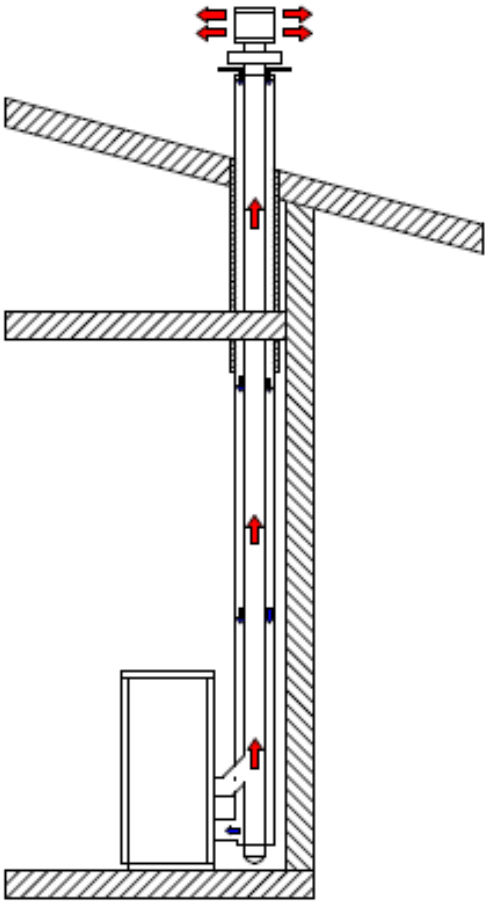
- Connecting the stove pipe to an existing chimney flue that has already been used with an old appliance is a common mistake. In this way two solid-fuel appliances share the same chimney flue, which is wrong and dangerous.
- If the two appliances are used simultaneously, the fume load might exceed the 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.



03.6 INSTALLATION

Using coaxial tubes the air will be pre-warmed contributing to improved combustion and lower emissions into the atmosphere.



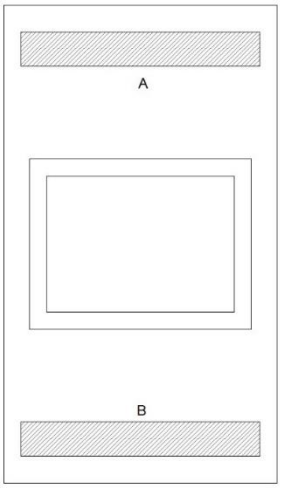


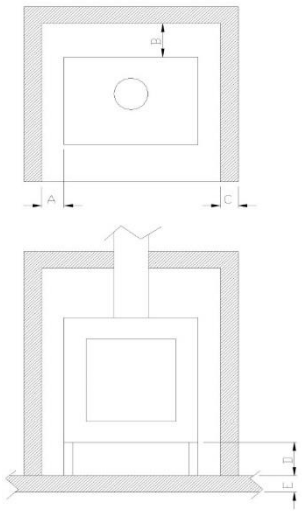
Follow th

Select the position where the stove is to be installed and:

- Arrange the connection to the vent pipe for fume extraction
- Arrange the external air intake (combustion air)
- Arrange the connection to the earthed mains
- The electrical system of the room where the stove is to be installed must be earthed, otherwise the control board may not work properly.
- Place the stove on the floor in a convenient position for the connection to the vent pipe and close to the combustion air intake.
- The appliance must be installed on a floor with an adequate load-bearing capacity.
- Should the existing floor not comply with the requirement above, proper measurements must be taken (for instance, the installation of a load distribution plate).
- All the structures which could 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 must therefore be made from coated steel or stainless steel, with a diameter of 8cm and fitted with adequate gaskets

- The combustion air intake (Φ 50mm) must be connected directly to the outside or to adjacent rooms provided they are fitted with external air supply vents (Φ 50mm) 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:





	11 KW INSERTS	7.5 KW INSERTS
A	500	450
B	500	450

	11 KW INSERTS	7.5 KW INSERTS
REAR	100	180
LATERAL	100	180
FRONT	1500	1000
FLOOR	50	10

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

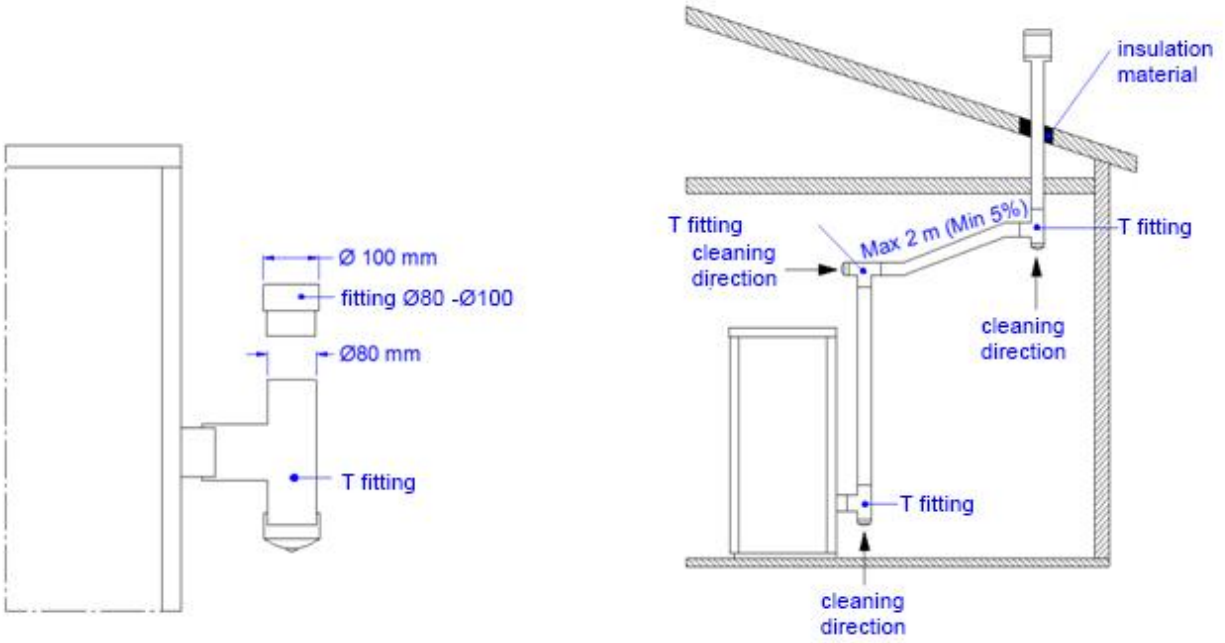
  The following is recommend:

  Promasil 1000
  Classification temperature: 1000 °C
  Density: 245 kg/m^3
  Shrinkage at reference temperature, 12 h: 1.3/1000°C %
  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/kgK
  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 it is operational, the stove can cause a negative pressure in the room where it is installed. Therefore there should not be in the same room other naked flame devices, with the exception only of type c stoves (airtight).
- Make sure that the stove can draw the necessary quantity of combustion air: this must be 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.
- Unpack the stove: be careful not to damage the product at the time of unpacking.
- Check the stove's legs and adjust them so that the stove is stable.
- Place the stove so that the door and any window openings are not against the walls.
- After connecting the stove to the combustion air inlet join the coupling device to the vent pipe.

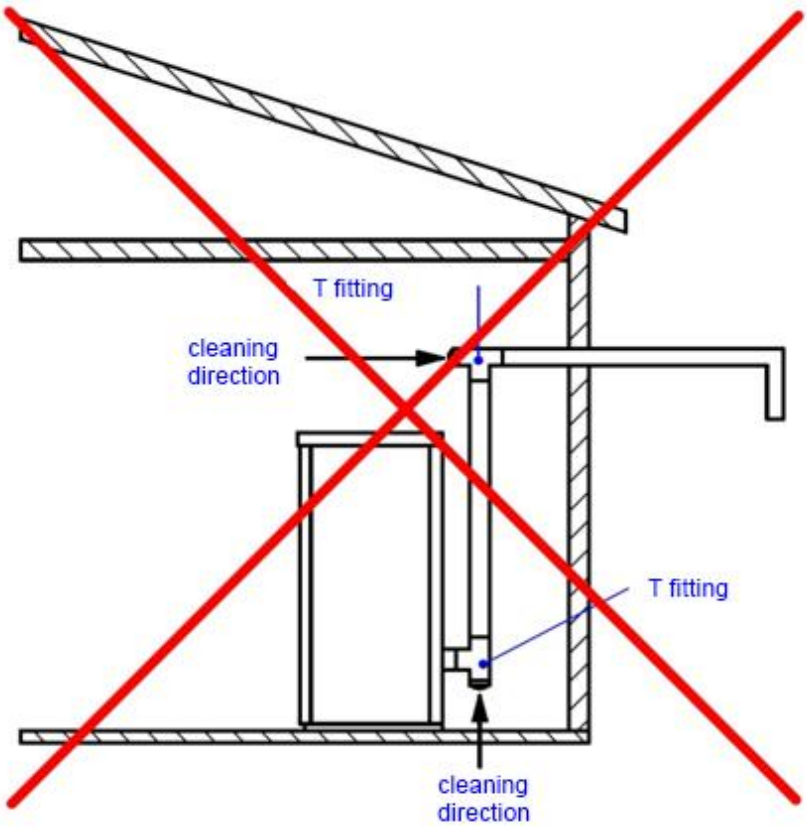
03. INSTALLING THE PRODUCT

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.



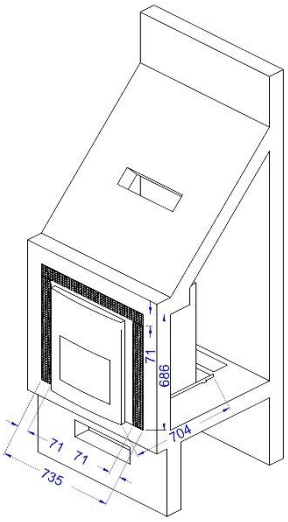
03. INSTALLING THE PRODUCT

INSTALLATION

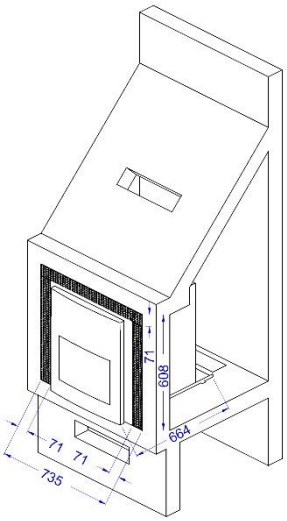
In compliance with the current regulations for installation, the pellet inserts should be installed in a ventilated place with air that is sufficient to ensure correct combustion and therefore good operation. The room must have a volumetry of no less than 20 m3 and to ensure good combustion (40 m3/h of air), there must be a "combustion air intake" that must reach a wall that connects to the outside or to adjacent rooms provided they are fitted with external air supply vents (Ø80mm) and are not used as bedrooms or bathrooms or, whenever a fire hazard exists, as storage rooms, garages, combustible material warehouses, etc. These 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.
When it is operational, the pellet insert can cause a negative pressure in the room where it is installed. Therefore there should not be in the same room other naked flame devices, with the exception only of type c stoves (air tight) unless they are fitted with their own air flow.
They must not be positioned close to curtains, armchairs, furniture or to other flammable materials.
They must not be installed in explosive or potentially explosive environments which may become explosive due to the presence of machinery, materials or dust that can cause greenhouse gas emissions or which can easily ignite with sparks. Before attempting to install the insert, bear in mind that all fixtures or any beams made of combustible material must be placed at a safe distance and outside the radiation area of the stove itself. Also consider that in order not to compromise the correct operation of the appliance, it is essential to create an air circulation inside its casing. To prevent overheating respect the minimum distances and create ventilation holes with a surface of X cm2.

11 KW INSERTS

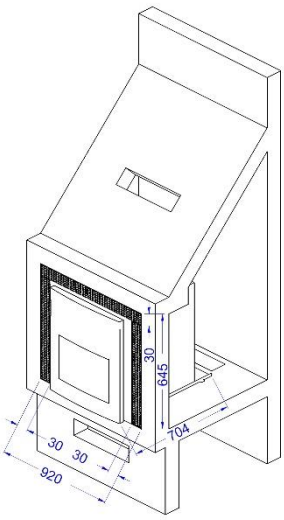
STANDARD INSERT



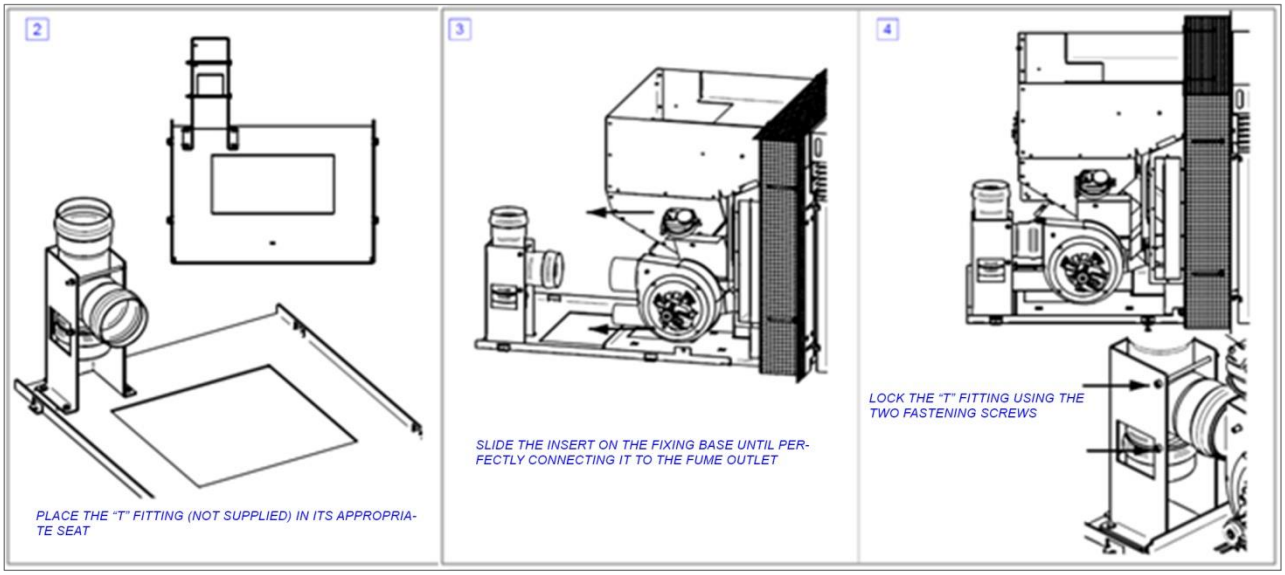
INSERT WITH GUIDES

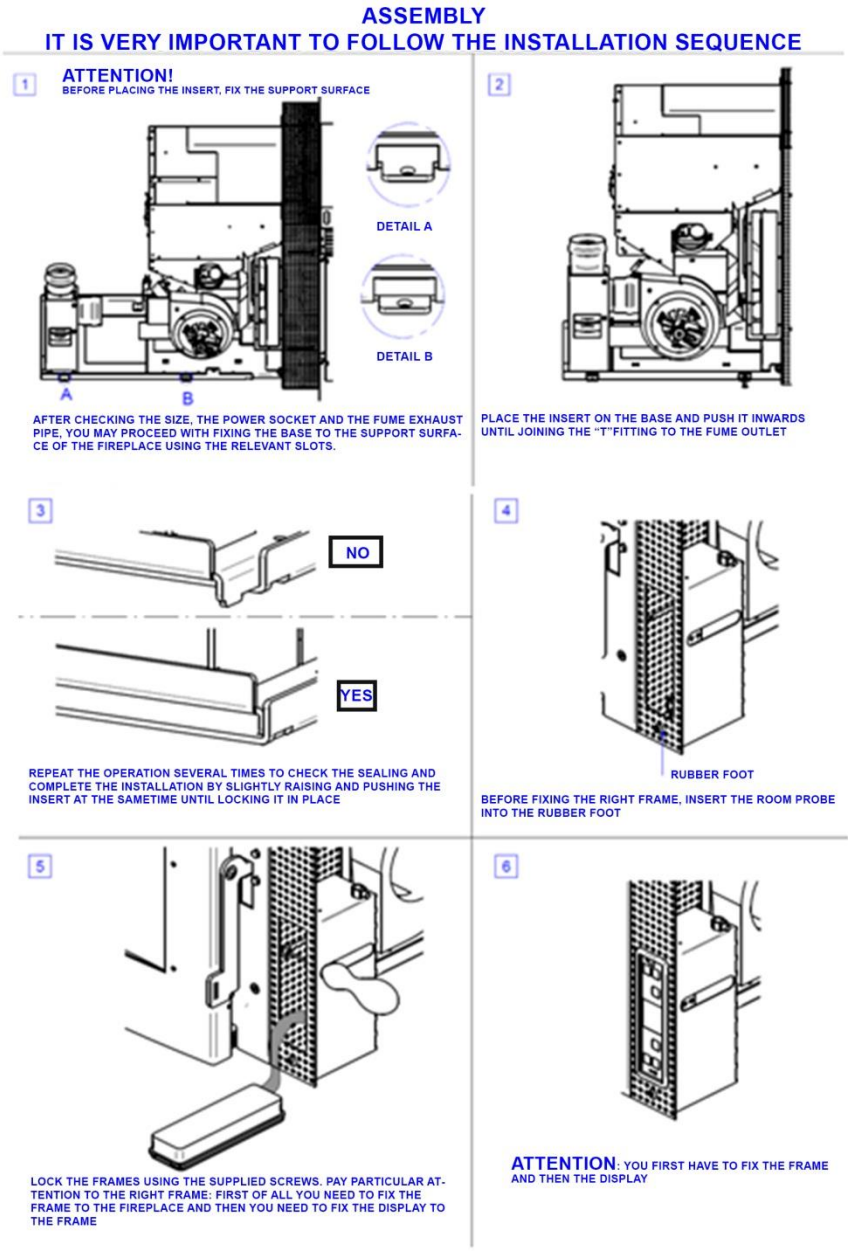


LARGE GLASS INSERT



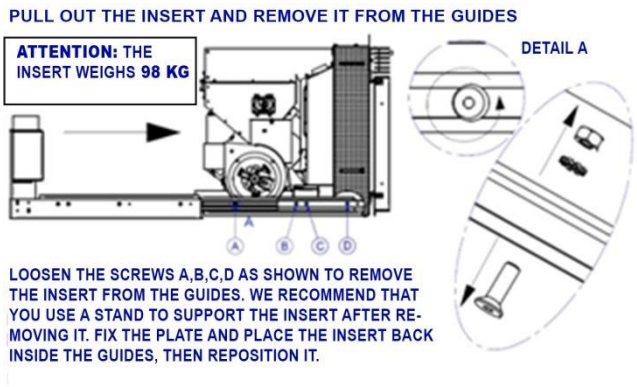
PREASSEMBLY





Suitably isolated the beam above the insert if present. Any extraordinary maintenance operations shall be carried out by authorised staff, with the insert switched off, after slightly lifting its front side and pulling it out.

Pellet feeding: remove the upper drawer and fill it with pellet. This operation can also be performed while the insert is running.



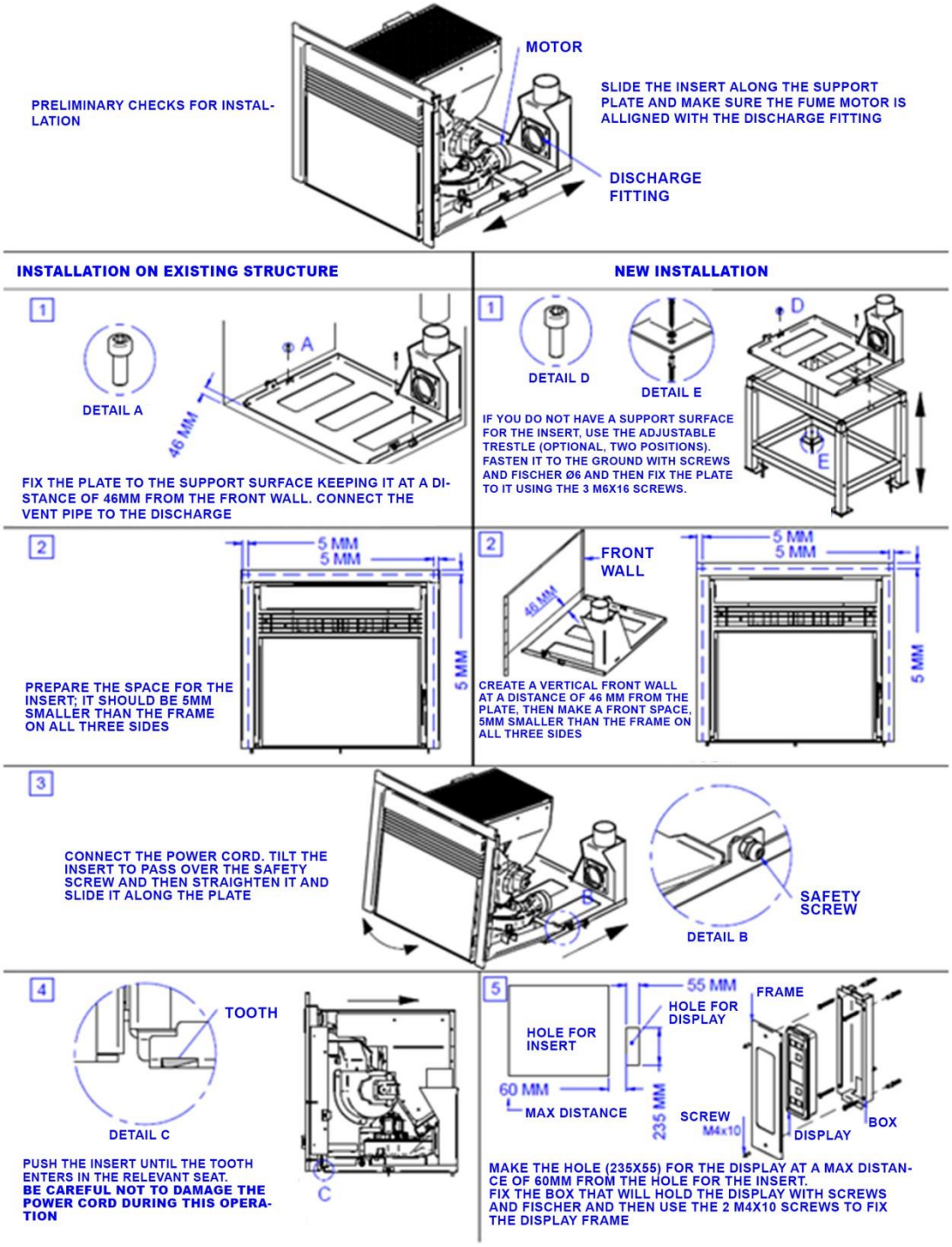
11 KW INSERT WITH GUIDES

After fixing the insert, lock the grids with the supplied screws and fasten the display.

Pellet feeding: to load the pellet you need to switch off the machine and pull it out.

ATTENTION: the insert it equipped with an electrical safety device: when pulled out, the safety device cuts off the power supply. YOU MUST switch off the device to load the pellet (OFF). By doing so, you will prevent any fumes inside the chamber from being released into the room.

7.5 KW INSERTS
THE CHIMNEY FLUE MUST BE INSTALLED WITH 0.5m OF PIPE OF Ø80mm
CERTIFIED TO EN 1856-2
Make sure the sizes are correct and also check for the presence of an electrical socket and of the flue pipe



Suitably isolated the beam above the insert if present. Any extraordinary maintenance operations shall be carried out by authorised staff, with the insert switched off, after slightly lifting its front side and pulling it out.
Pellet feeding: remove the upper drawer and fill it with pellet. This operation can also be performed while the insert is running.

ELECTRONICS WITH 6-BUTTON LED DISPLAY

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.

Description of Panel

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 Release:
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.
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.

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. This occurs during START-UP and WORKING 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.

The Displays

Status/Heat Output/Parameter label Display (D1):
It shows the board status during start-up phase.
During working mode, it shows the heat output set by the user.
When modifying user/technician parameters, it shows the label of the parameter in question.

Status/Time/Temperature/Parameter value Display (D2):
It shows the board status during start-up phase.
During working mode, it shows the temperature set by the user.
When modifying user/technician parameters, it shows the value of the parameter in question.

User functions

Stove ignition

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. The stove 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.

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.

Fire on

Once fume temperature has reached and exceeded PR13 parameter value, the stove goes into the switching on mode. In this phase temperature 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.

Stove operational

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

N.B.: you can jump directly to working mode by holding down P6  button for approx. 2 seconds.

Press P1  button to display fume temperature and exhaust blower speed.

Changing set heat output

During the normal operating mode (stove running) the user can change the heating capacity by means of the buttons P6  (increase) and P5  (decrease). The set heating capacity is displayed on the top screen.

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).
It will remain on the display for about 2 seconds.

Stove switch 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.

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.

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

PROGRAMME 2 SWITCHING ON/OFF (afternoon)

UT08 - UT9
Set the PROGRAMME 2 stove switching on and off times by modifying these two parameters. Their value can be set if UT01 parameter is set to the daily or weekly mode.

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 (afternoon) by means of P1  button. In the example below, the stove switches on in the afternoon only on working days.

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

The same applies to UT11 - UT12 - UT13 - UT14 - UT15 - UT16.

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)

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 FIREBOX
Clogged chimney	ALARM DEP
Damaged exhaust blower	ALARM FAN FAIL

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

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.

Fume overtemperature 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.

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.

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.

Negative pressure alarm

The alarm is triggered when the chimney or the fume outlet are clogged (**ALARM DEP**)

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 FAIL is displayed.**
Unscrew the black cap on the back of the stove and press the button to reset the contact.

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.

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.**

Ducting system (only 11 KW models)

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.

04.2 ELECTRONICS WITH 6-BUTTON LCD DISPLAY

Proper functioning and control adjustment devices

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.

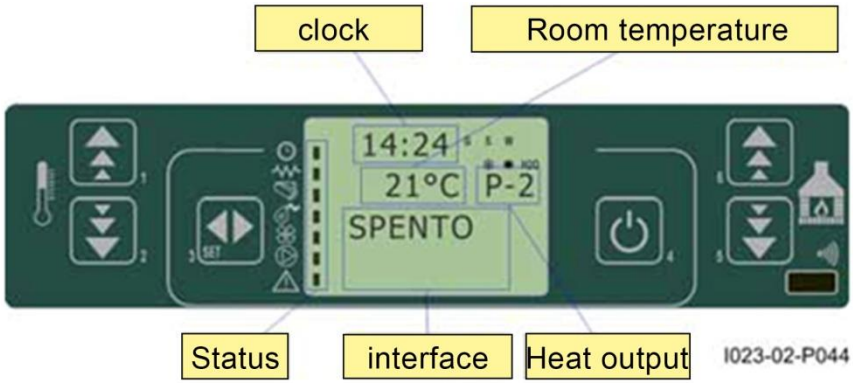


fig.2

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

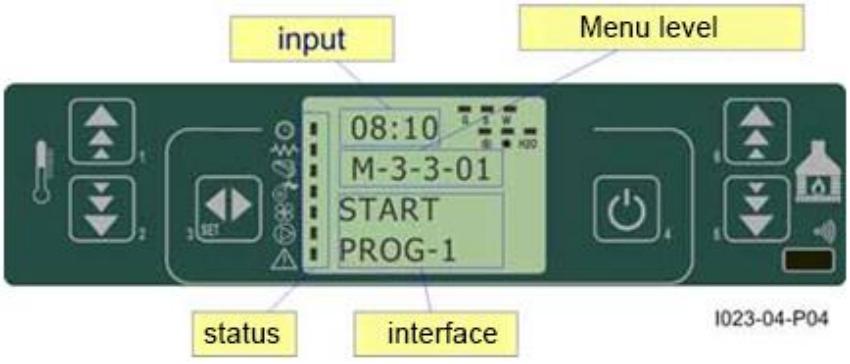


Fig. 4.

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.

Description of Panel

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.

The 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.

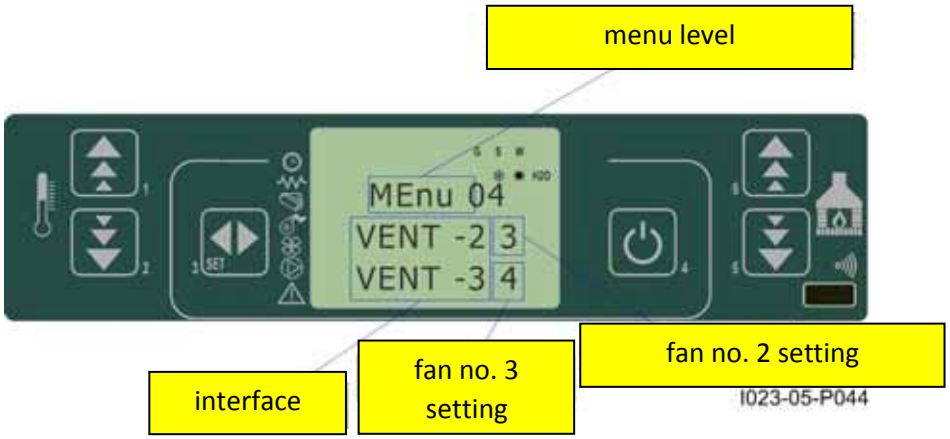
Level 1	*Level 2*	*Level 3*	*level 4*	*Value*
01 – fan adjustment				select value
02 - time clock setting				
	01 - day			week day
	02 - hours			hour
	03 - minutes			minute
	04 - day			day month
	05 - month			month
	06 - year			year
03 – chrono setting				
	01 – enable chrono			
		01 - enable chrono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

Menu 01-fan adjustment

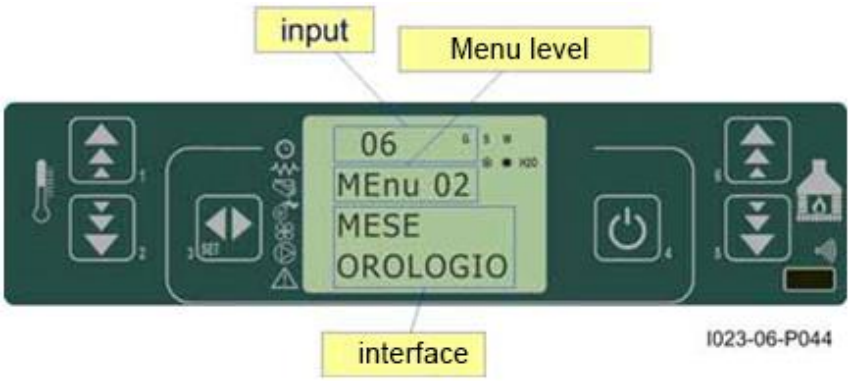
Use this function to independently adjust the two additional blowers.
The settings available for each blower are listed in the table below. Press P1  (fan 2) and P2  (fan 3) to select setting.

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



Menu 02 - time clock setting

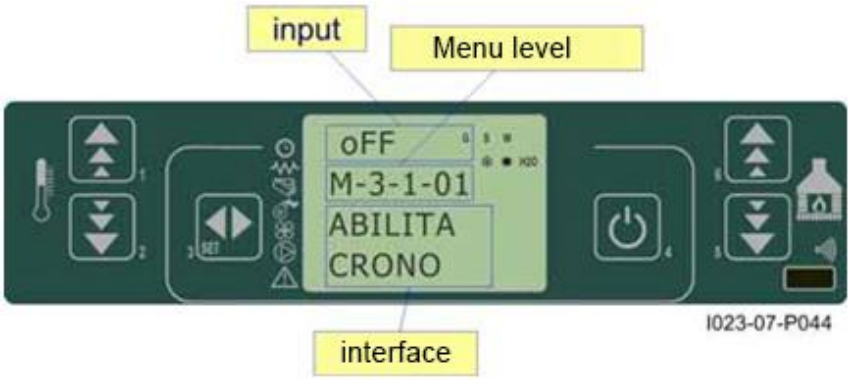
Use this function to set current time and date. The control board is equipped with a lithium battery guaranteeing the internal time clock a 3/5 year-long life.



Menu 03 - chrono setting

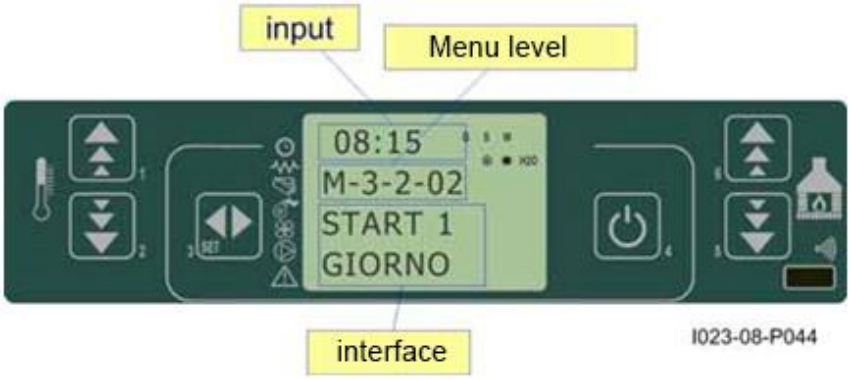
Sub-menu 03 - 01 – enable chrono

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.

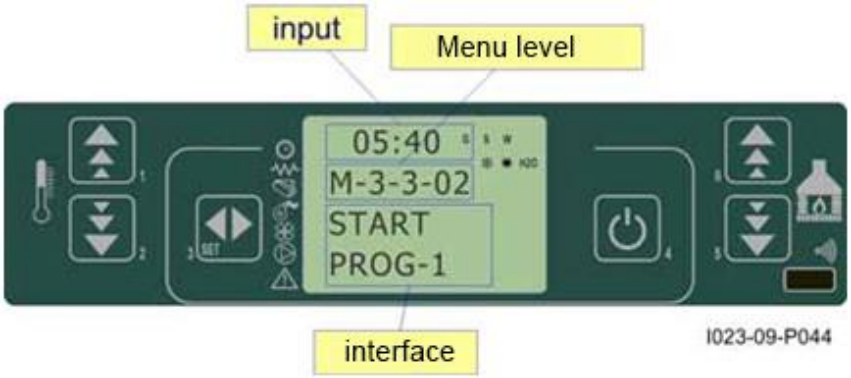


It is possible to set two on/off times defined by the times set according to the table below. If the value is set to OFF, the time clock ignores the control.

Selection	*Meaning*	*Available values*
START 1	switching-on time	time - OFF
STOP 1	switching-off time	time - OFF
START 2	switching-on time	time - OFF
STOP 2	switching-off time	time - OFF

Sub-menu 03 - 03 – weekly programme

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



The weekly programmer consists of 4 independent programmes which can be combined together in different ways.
The weekly programmer can be enabled or disabled.
Moreover, if the time is set to OFF, the time clock ignores the corresponding control.
N.B.: set the programming carefully in order to avoid overlapping of switching on and/or off times of different programmes on the same day.

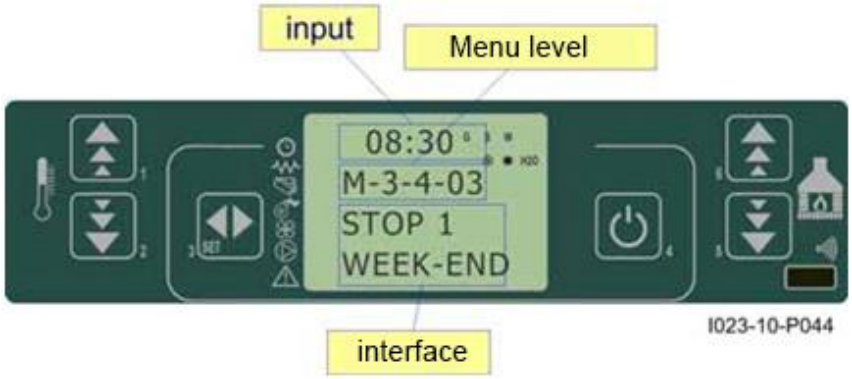
PROGRAMME 1			
menu level	***setting***	***meaning***	***available values***
03-03-02	START PROG 1	switching-on time	time - OFF
03-03-03	STOP PROG 1	switching-off time	time - OFF
03-03-04	MONDAY PROG 1	reference day	on/off
03-03-05	TUESDAY PROG 1		on/off
03-03-06	WEDNESDAY PROG 1		on/off
03-03-07	THURSDAY 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	time - OFF
03-03-12	STOP PROG 2	switching-off time	time - OFF
03-03-13	MONDAY PROG 2	reference day	on/off
03-03-14	TUESDAY PROG 2		on/off
03-03-15	WEDNESDAY PROG 2		on/off
03-03-16	THURSDAY PROG 2		on/off
03-03-17	FRIDAY PROG 2		on/off
03-03-18	SATURDAY PROG 2		on/off
03-03-19	SUNDAY PROG 2		on/off

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

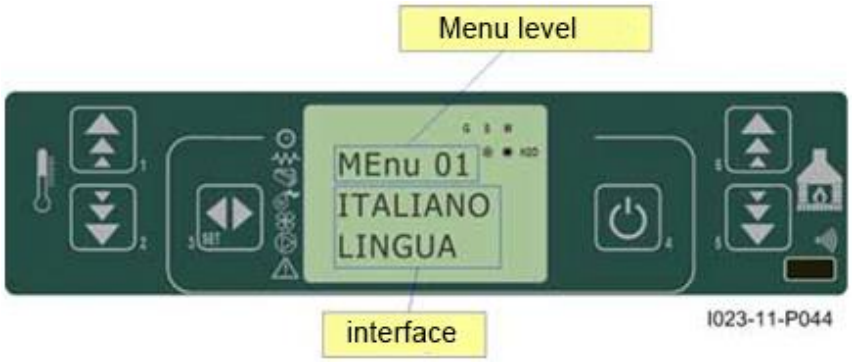
Sub-menu 03 - 04 - week-end program
The programmable thermostat functions can be enabled, disabled and set for the week-end (days 5 and 6, or Saturday and Sunday).



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.

Menu 04 – select language

Use this function to select one of the languages available.



Menu 05 - stand-by mode

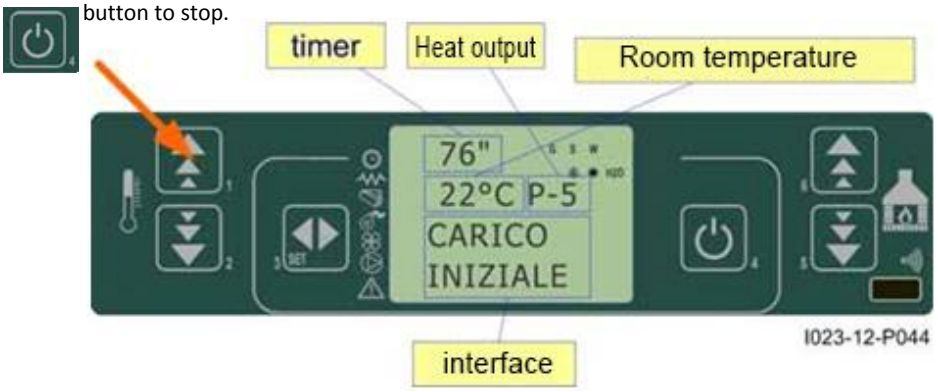
If you select the “STAND-BY” mode, the stove switches off after a period, set by Pr44, during which the room temperature remained at a value higher than the SET temperature.
Only if the following condition occurs - $T_{SET} < (T_{ambiente} - Pr43)$, it is then possible to switch the stove back on.

Menu 06 - buzzer mode

Set it to “OFF” to disable the buzzer

Menu 07 – initial load

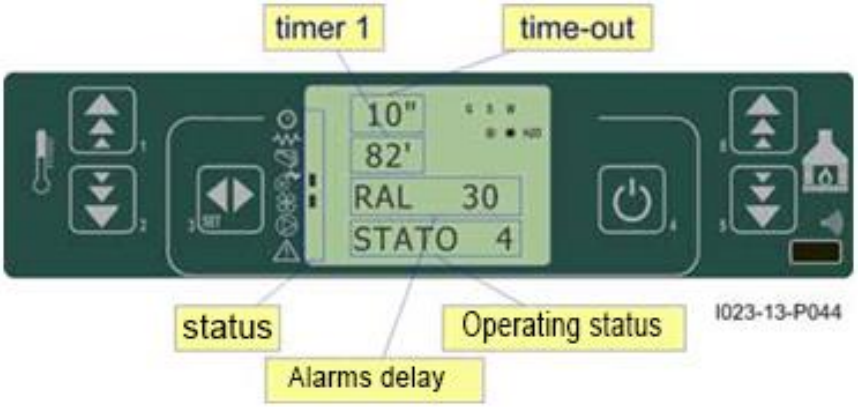
Use this function to load pellets for a period of 90 seconds when the stove is switched off and cold. Press P1 button to start and P4 button to stop.



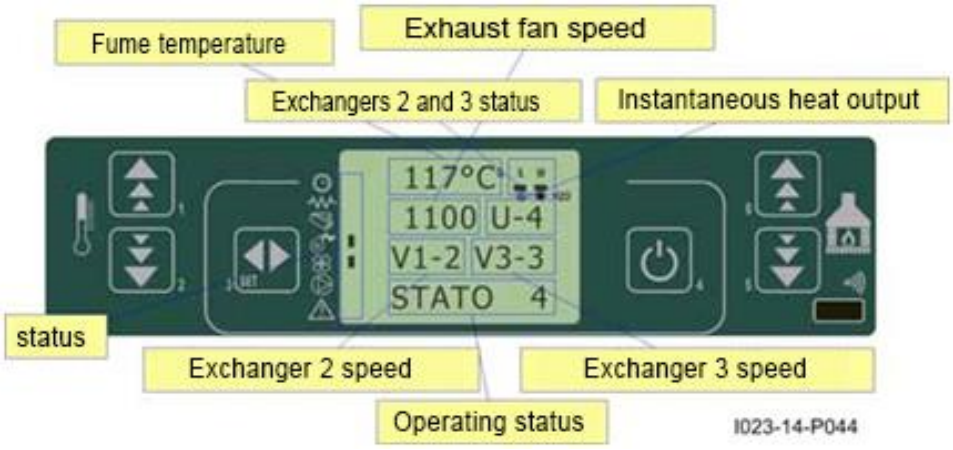
Menu 08 – stove status

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

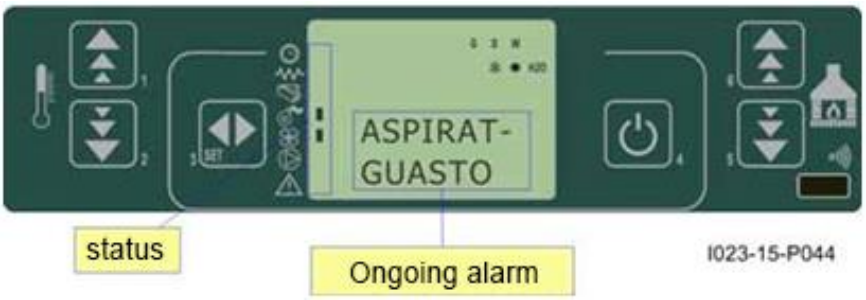
page 1



page 2

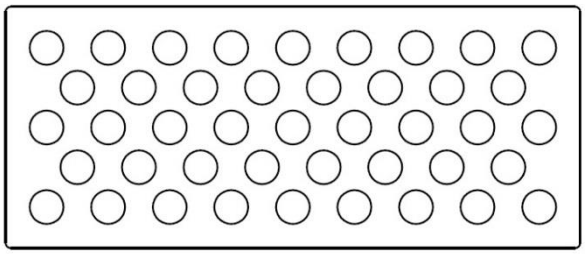


page 3

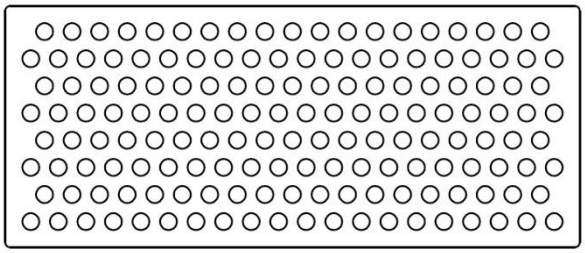


Menù 09 – Kind of fuel

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)

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*.

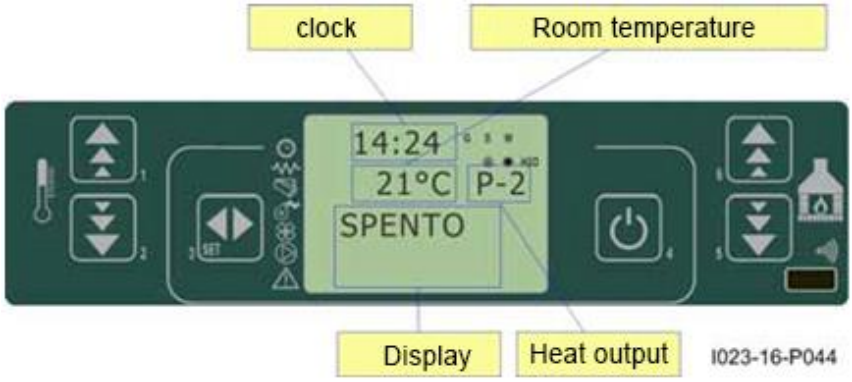


fig. 16

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.

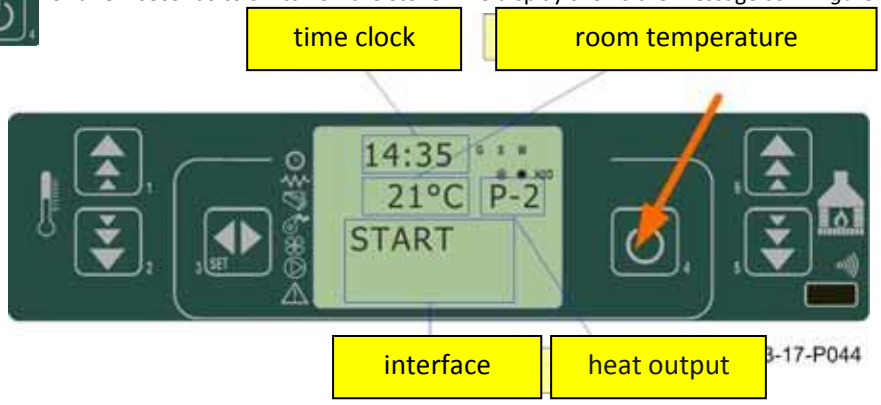


fig. 17

Start-up phase

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

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 Stove ignition

Make sure that there are pellets in the hopper, that the burn pot is correctly positioned and clean from any combustion residues and then close the door.

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

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.

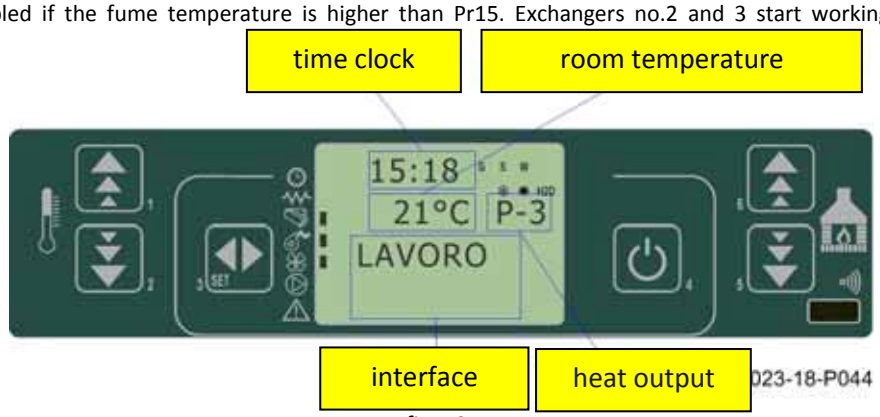


fig. 18

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*.

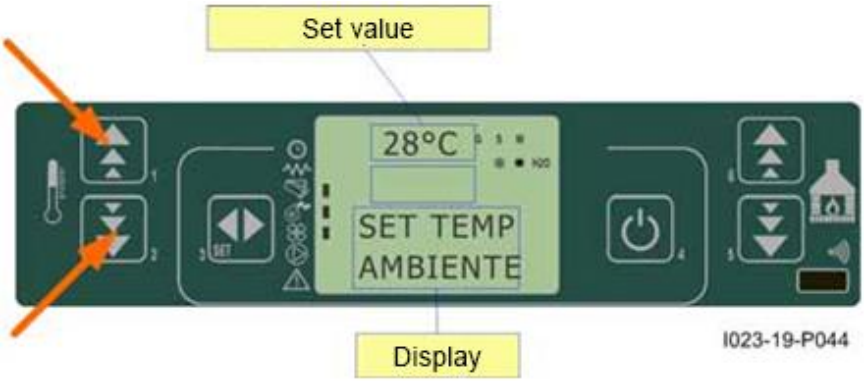


fig. 19

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.

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*

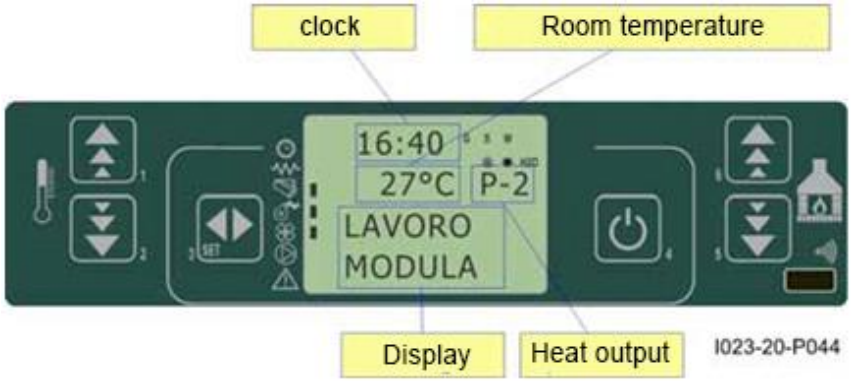


fig. 20

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.

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.

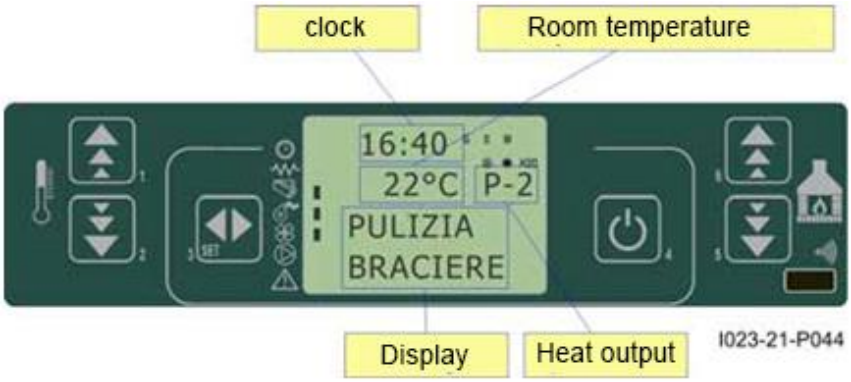


fig. 21

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.

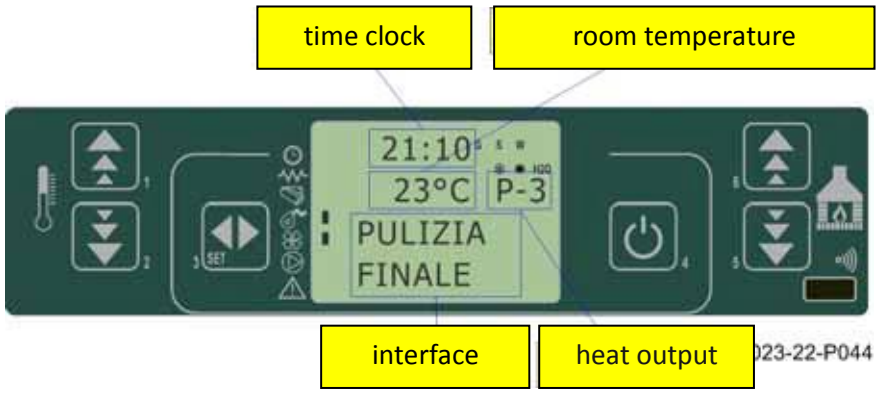


fig. 22

Stove switched off

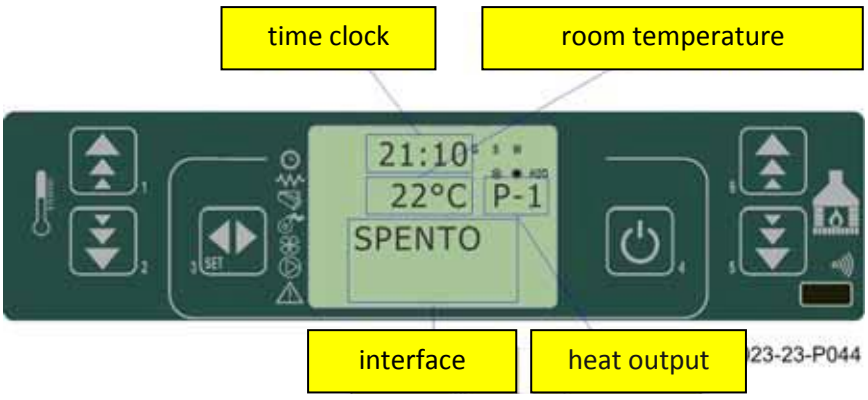


fig. 23

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.

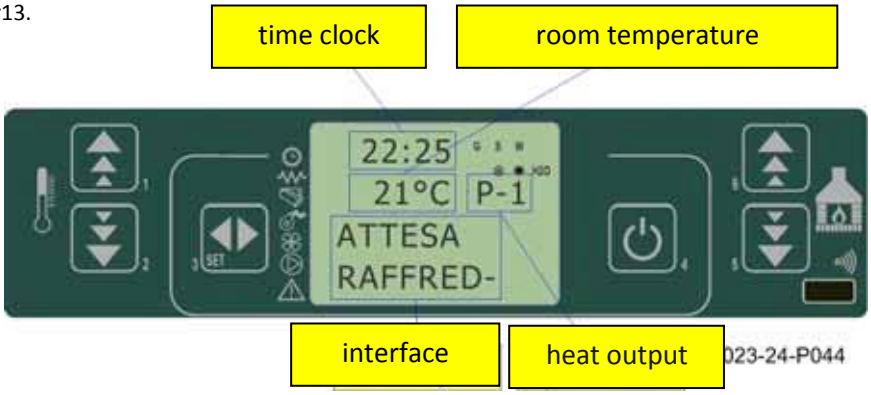


fig. 24

What happens in case of...

Pellet ignition failure

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

fig. 25

Power outage (black-out)

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	***black-out duration***	***new status***
off	any	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	< T	working
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.

Alarms

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

Cause	Display shows
Fume temperature sensor	**FUME SENSOR ALARM**
Fume overheating	**ALARM HOT TEMP**
Ignition failure	**ALARM NO FIRE**
Switches off when inworking mode	**ALARM NO FIRE**
Power outage	**COOL FIRE**
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 always immediately switched off.
The alarm status is reached after a set period of time Pr11 and can be cleared by pressing the P4 button. 

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

Fume overtemperature alarm

Is triggered whenever the fume sensor detects a temperature exceeding 280°C. The display shows the message shown in *figure 28*.

fig. 28 I023-28-P044

The stove switching-off phase starts immediately.

Ignition failure alarm

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

fig. 29 I023-29-P044

Stove switching-off during working mode alarm

If during normal working mode, the flame goes out and the fume temperature falls below the minimum threshold (Pr13 parameter), the alarm is activated as shown in *figure 30*. The stove switching-off phase starts immediately.

fig. 30 I023-30-P044

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

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** is displayed and the system shuts down. Unscrew the black cap behind the stove and press the button to reset the contact.

fig. 32 I023-32-P044

Damage 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

04.3 ELECTRONICS WITH SLIDING DISPLAY

Proper functioning and control adjustment devices

Console

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	Room temperature increase
P2	Room temperature decrease
P3	Set / menu
P4	On / Off
P5	Heat output decrease
P6	Heat output increase

Meaning of the LED

LED	***Meaning when switched on***
L1 CHRONO	Chrono enabled
L2 AUGER TUBE ON	Auger tube moving
L3 REMOTE CONTROL	Remote control receiver
L4 ROOM TEMP SETTING	Thermostat on
L5 SET	Flashing during temperature setup or when inside menus

Display

Display (D1):

It displays the detected room temperate and the time at start-up.

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

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

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 label of the parameter in question.

The menu

Press P3 button to access the menu.

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

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-T-F-S-S
	Time clock hours		0-23
	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-0-23:50
		03 - stop 1 day	OFF-0-23:50
		04 - start 2 day	OFF-0-23:50
		05 - stop 2 day	OFF-0-23:50
	M2-3 - weekly programming		
		01 - weekly programming	on/off
		02 - start Prog 1	OFF-0-23:50
		03 - stop Prog 1	OFF-0-23:50
		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 Prg 1	on/off
		11 - start Prg 2	OFF-0-23:50
		12 - stop Prg 2	OFF-0-23:50
		13 - Monday Prog 2	on/off
		14 - Tuesday Prg 2	on/off
		15 - Wednesday Prg 2	on/off
		16 - Thursday Prg 2	on/off
		17 - Friday Prg 2	on/off
		18 - Saturday Prg 2	on/off
		19 - Sunday Prg 2	on/off
		20 - start Prg 3	OFF-0-23:50
		21 - stop Prg 3	OFF-0-23:50
		22 - Monday Prg 3	on/off
		23 - Tuesday Prg 3	on/off
		24 - Wednesday Prg 3	on/off
		25 - Thursday Prg 3	on/off
		26 - Friday Prg 3	on/off
		27 - Saturday Prg 3	on/off
		28 - Sunday Prg 3	on/off
		29 - start Prg 4	OFF-0-23:50
		30 - stop Prg 4	OFF-0-23:50
		31 - Monday Prog 4	on/off
		32 - Tuesday Prg 4	on/off
		33 - Wednesday Prg 4	on/off
		34 - Thursday Prog 4	on/off
		35 - Friday Prg 4	on/off
		36 - Saturday Prg 4	on/off
		37 - Sunday Prog 4	on/off

	M2-4 – weekend programming		
		01 – weekend chrono	on/off
		02 - start weekend 1	OFF-0-23:50
		03 - stop weekend 1	OFF-0-23:50
		04 - start weekend 2	OFF-0-23:50
		05 - stop weekend 2	OFF-0-23:50
	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
M7 – Technician settings			
	01 - Password		set

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 3/5 year-long autonomy. To access the general programming menu, press the P3 button. Press P5 (decrease) or P6 (increase) button to select M1 item. The message “M1 set clock” will scroll on the display”. Press P3 again, select the desired day and press P3 button. Then set the hour, minutes, day, month and year by pressing P1 (increase) and P2 (decrease) buttons. Press P3 button to confirm the desired value.

Menu M02 - time clock 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.

Sub-menu M2 - 2 – Daily programming

After selecting menu “M2-2 day programm”, press P5 and P6 buttons 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	***setting***	***meaning***	***Available values***
M2-2-01	DAY CHRONO	Enable daily chrono	ON/OFF
M2-2-02	START 1 Day	Switching-on time	OFF-0-23:50
M2-2-03	STOP 1 Day	Switching-off time	OFF-0-23:50
M2-2-04	START 2 Day	Switching-on time	OFF-0-23:50
M2-2-05	STOP 2 Day	Switching-off time	OFF-0-23:50

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 P4 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-0-23:50
M2-3-03	STOP PRG 1	switching-off time	OFF-0-23:50
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-0-23:50
M2-3-12	STOP PRG 2	switching-off time	OFF-0-23:50
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 PRG 2		on/off
PROGRAMME 3			
menu level	***setting***	***meaning***	***available values***
M2-3-20	START PRG 3	switching-on time	OFF-0-23:50
M2-3-21	STOP PRG 3	switching-off time	OFF-0-23:50
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 PRG 3		on/off
PROGRAMME 4			
menu level	***setting***	***meaning***	***available values***
M2-3-29	START PRG 4	switching-on time	OFF-0-23:50
M2-3-30	STOP PRG 4	switching-off time	OFF-0-23:50
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 (increase) or P2 (decrease) button. Set Start 1 weekend and Stop 1 weekend times to define the stove operating period concerning Saturday and the 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-0-23:50
M2-4-03	STOP 1 WEEKEND	switching-off time	OFF-0-23:50
M2-4-04	START 2 WEEKEND	switching-on time	OFF-0-23:50
M2-4-05	STOP 2 WEEKEND	switching-off time	OFF-0-23:50

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.

Menu M04 – stand-by

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

Menu M05 – first Load

This function is only available 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 "P1 to load" 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.

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

Menu M07 – Technical calibration

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

User functions

Standard functioning of a control board properly installed on an air stove is described below with reference to the functions available to users.

Stove ignition

Hold P4 button down for a few seconds to switch on the stove. The display shows the message "Switching on" when the stove is on.

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.

Pellet feeding

The pellet feeding phase starts after approx. 1 minute: the message “Load pellet" scrolls on the display. During the first stage the auger tube feeds the pellets to the burn pot for a fixed period of time. During the second stage the auger tube switches off (auger tube LED off), while the exhaust blower speed and the ignition plug remain as in the previous status. In case of ignition failure at the end of this phase, the auger tube and the ignition plug remain on.

Fire present

Once fume temperature has reached and exceeded a pre-set threshold, the stove goes into the ignition mode and the message “Fire Present” appears on the display.
The exhaust blower speed is fixed, the auger tube remains on for a determined period of time (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.

Stove operational

Once fume temperature has reached a given value, maintaining it for a pre-set period of time, the stove enters the normal working mode. The upper display shows the time and room temperature, while the lower display shows the heat output set and the actual heat output of the stove. Press buttons P5 and P6 to set the heat output and buttons P1 and P2 to set the room temperature. If fume temperature reaches the threshold set, the air exchanger fan will switch on
During this phase, the stove performs a cleaning of the burn pot. The message “Cl-burn pot” scrolls on the display, the Auger tube is on (as the relevant LED) and the exhaust blower is on. Once the set period of time has elapsed, the stove goes back to the working mode.

Changing set heat output

During stove normal operation (working mode), the heat output can be changed by using the P5, P6 buttons. 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.

Changing set room temperature

Press P1 and P2 buttons to change the room temperature. The display shows the set room temperature (SET temperature value). Press P1 and P2 buttons to increase or decrease, respectively, the temperature value. The value is saved after approx. 5 seconds and the display goes back to normal. Otherwise, press P4 to exit. You can also set “Man”; the stove will operate in manual mode, at a fixed heat output. Or t-e, if you connected an external thermostat.

Room temperature reaches set value (SET temperature value)

When the set room temperature value is reached, the stove heat output is automatically set to the minimum value. During this phase the display shows the message “Modulate”. If room temperature falls below the set value (Set temperature value), the stove will go back to “Working” mode and to the previously set heat output (Set heat output value). If there is an external thermostat and the room temperature has been set to t-e, if the thermostat is open it will begin modulation and if closed, it will return to the heat output set.

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) plus a pre-set temperature delta for a certain period of time. The message "Go-standby" appears on the display followed by the minutes left. At the end of the period of time set, the message "Wait for cooling" will appear on the display. During this phase the auger tube is off (Auger tube LED off) and the exchanger switches off. When fume temperature reaches the relevant threshold, the stove goes into the Stand-by mode and the message “Stop eco temp scrolls on the display. The Auger tube (Auger tube LED off), the exchanger (exchanger LED off) and the exhaust blower are off.
If room temperature falls below the set value (Set room temperature value) plus the threshold set by the temperature delta, the stove switches back on.

Stove switch off

Hold P4 button down to switch off the stove. The display shows the message “Cl-Final”. The Auger tube motor stops (Auger tube LED off) and the exhaust blower speed is pre-set.The fan of the exchanger (exchanger LED on) remains active until the fume temperature falls below the pre-set value. After a given time, if the fume temperature is below the given threshold, the stove switches off, displaying the message “Off”.

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 1 POWER OUTAGE**
Fume temperature sensor	**AL 2 ALAR AL2 FUMES SENSOR**
Fume overheating	**AL 3 ALAR AL3 HOT FUMES**
Faulty fume encoder	**AL 4 ALAR AL 4 EXH-FAILURE**
Ignition failure	**AL 5 ALAR AL 5 IGNITION FAILURE**
No pellets	**AL 6 ALAR AL 6 NO PELLETS**
Thermal safety overheating	**AL 7 ALAR AL 7 THERMAL SAFETY**
No neg. pressure	**AL 8 ALAR AL 8 NO NEGATIVE PRESSURE**

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

EXC**EPT FOR THE POWER OUTAGE ALARM**, the alarm status is reached after a given time 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.

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. The message “Al 1 alar al 1 Power outage”
scrolls on the display and the stove switches off.

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 Fumes sensor” will scroll on the display and the stove will switch off.

Fume overtemperature 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 fumes” appears on the display and the stove switches off.

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 Exh-failure” will scroll on the display.

Ignition failure alarm

The alarm is triggered in case of ignition phase failure. This happens if after the relevant given time, the fume temperature does not exceed a given threshold. The message “Al 5 alar al 5 no pellet" scrolls on the display and the stove goes into the alarm status.

No pellet alarm

The alarm is triggered when fume temperature falls below a given parameter. The message “Al 6 alar al 6 no pellet" scrolls on the display and the stove goes into the alarm status.

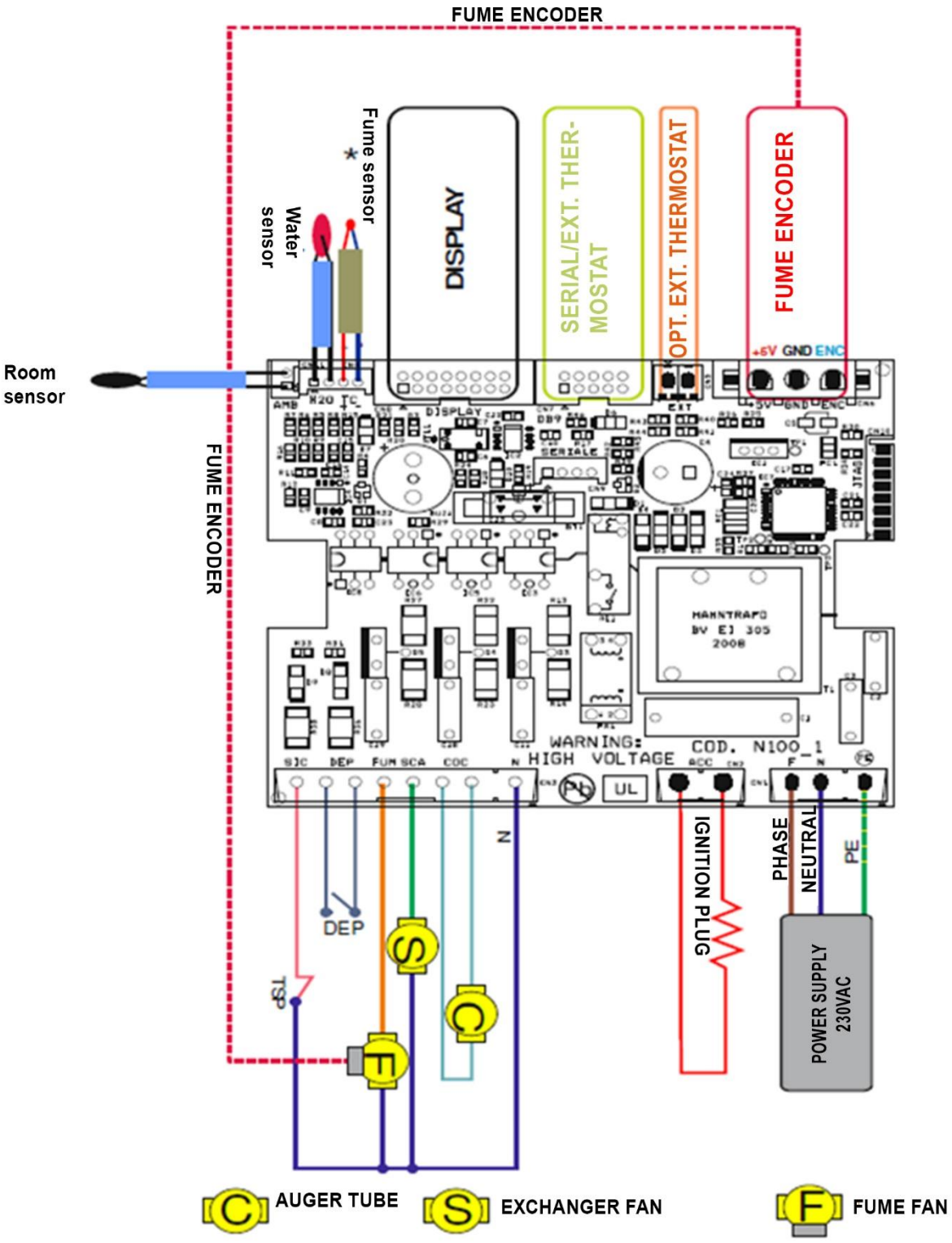
Thermal safety overheating alarm

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 Thermal– safety” on the display and the stove switches off.

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 No negative pressure-” on the display. The stove switches off.

Connections



MP= METER PRESSURE

PST= PELLET COMPARTMENT SAFETY THERMOSTATPELLET

* RESPECT THE POLARITY OF THE THERMOCOUPLE FOR THE ROPER OPERATION OF THE STOVE

figura 1

IR Remote control (OPTIONAL)

The stove control panel is set up to receive certain functions via remote control.

- Ignition/shutoff function: pressing the 1 and 6 buttons at the same time turns the stove on or off.
- Power regulation: during normal operation, pressing the 5 and 6 buttons, labelled with the flame, lets you set one of the stove power levels.
- Temperature regulation: during normal operation, pressing the 2 button and then the 1 and 2 buttons, labelled with the thermometer, lets you set the temperature.

05.1 INTRODUCTION

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.**

ALSO TO PREVENT THIS TYPE OF FAULT YEARLY CLEANING OF THE VENT PIPE IS ESSENTIAL, REMOVING DEPOSITS OR ANY POCKETS OR OBSTRUCTIONS.

ATTENTION:

- **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 BECOMING CLOGGED BY SAWDUST RESIDUES THAT HAVE SOLIDIFIED DUE TO MOISTURE.**

05.2 DAILY CLEANING

Any cleaning operation must be performed when the stove is completely cold:

- Empty the ash drawer: vacuum it out or dispose of the ashes in a waste bin.
- Vacuum the combustion chamber: check that there are no embers that may still be lit. In this case your ash vacuum cleaner will catch fire.
- Remove the ash inside firebox and on door.
- Wipe the glass with a damp cloth or a damp ball of newspaper dipped into the ash. If the operation is performed with the stove hot there is a risk of the glass exploding.

ATTENTION: USE A DRY CLOTH TO CLEAN THE STOVE EXTERNALLY DO NOT USE ABRASIVE MATERIALS OR PRODUCTS THAT MAY CORRODE OR LIGHTEN THE SURFACES.

05.3 MANUFACTUTER 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.
- insufficient maintenance;
- the use of spare parts that are not original or which are not specific to the model.

Period of inactivity

06. TROUBLESHOOTING

PROBLEM		CAUSE	SOLUTION
FIRST START-UP		**IT MAY BE NECESSARY TO REPEAT THE FIRST LOAD PHASE A FEW TIMES TO FACILITATE THE APPLIANCE INITIAL START-UP AS THE AUGER TUBE IS COMPLETELY EMPTY AND IT MAY TAKE A SPECIFIC PERIOD OF TIME TO FILL.**	
DISPLAY SWITCHED OFF		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	CHECK HOPPER
		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.

ALARM SIC FIREBOX OVERHEATING	LET STOVE COOL DOWN, MANUALLY RESET THERMOSTAT ON BACK.	LET STOVE COOL DOWN, MANUALLY RESET THERMOSTAT ON BACK. 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.
FUME SENSOR ALARM	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 NOT CONNECTING (FIELD SEATCH)	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.

CERTIFICATE OF INSTALLATION AND TESTING

CUSTOMER: _____

ROAD: _____

CITY: _____

POSTAL CODE: _____

PROVINCE: _____

TEL: _____

Delivery date:_____

Delivery note: :_____

Equipment mod.: _____

Serial number:

Year:

Retailer's Stamp:

Installer's stamp:

First name:
_____
Last name: _____
Address: _____Postal code:
Location: _____
Tel:

The customer acknowledges that, upon completion of the installation of the device, the works were carried out professionally and in accordance with the instructions in this user manual. The same also states that they acknowledge perfect functioning and are aware of the information needed to correctly use, operate and perform maintenance on the appliance.

Signature of the CUSTOMER Signature of the RETAILER / INSTALLER

Copy of the retailer or installer

CERTIFICATE OF INSTALLATION AND TESTING

CUSTOMER: _____

ROAD: _____

CITY: _____

POSTAL CODE: _____

PROVINCE: _____

TEL: _____

Delivery date:_____

Delivery note: _____

Equipment mod.: _____

Serial number:

Year:

Retailer's Stamp:

Installer's stamp:

First name: _____
Last name: _____
Address: _____Postal code:
Location: _____
Tel:

The customer acknowledges that, upon completion of the installation of the device, the works were carried out professionally and in accordance with the instructions in this user manual. The same also states that they acknowledge perfect functioning and are aware of the information needed to correctly use, operate and perform maintenance on the appliance.

Signature of the CUSTOMER Signature of the RETAILER / INSTALLER

08. YEARLY SCHEDULED MAINTENANCE

Date 1st maintenance _____ / _____ /

(Technical Assistance Centre stamp)

Date 2nd maintenance _____ / _____ /

(Technical Assistance Centre stamp)

Date 3rd maintenance _____ / _____ /

(Technical Assistance Centre stamp)

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 (Legislative Decree no. 24, February 2 2002) and **one** year if it was purchased by a company or by a professional (subject to VAT).

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 **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 **T**echnical **S**upport **S**ervice 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

The warranty shall not cover:

- **Non-compliant installation or installation carried out by non-qualified staff (UNI10683 and UNI EN 1443);**
- **Initial 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 will 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 in ceramic or majolica surrounds;**
- **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.**

Attention: 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