

# INSTRUCTION MANUAL PELLET STORAGE WATER HEATER PELLET THERMO- STOVE

Models:

**SB 80**

**TEK 80**

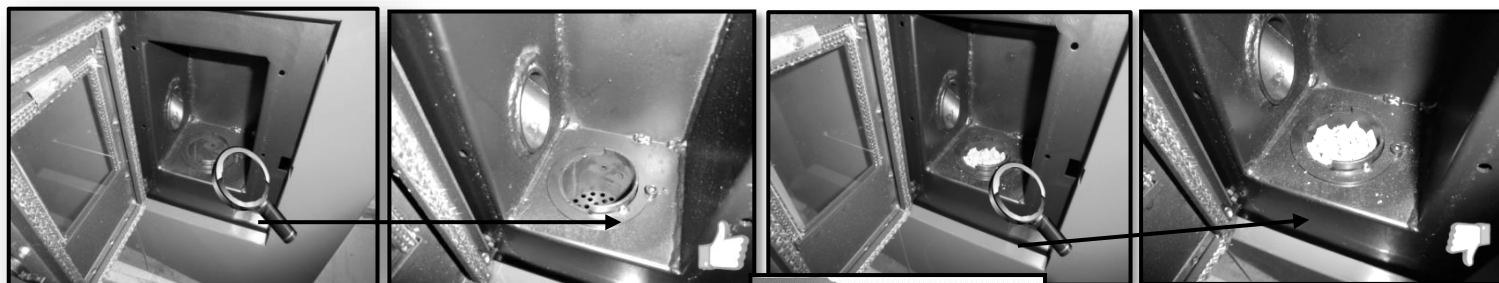




## IMPORTANT: PLEASE READ



1. Eva Stampaggi S.r.l. assumes no responsibility for damage to persons and/or property or for the malfunction of the stove resulting from non-compliance with the provisions of this Instruction Manual
2. The guarantee will remain valid for 1 year for professional operators and 2 years for consumers.
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 extremely important to use **GOOD QUALITY CERTIFIED PELLETS**. The manufacturer declines any liability for any malfunctions or damage to mechanical parts as a result of 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.



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## SAFETY WARNINGS

The stoves were built in compliance according to standard EN13240 (wood stoves), EN 14785 (pellet stoves), EN 12815 (wood-burning cookers and stoves) and EN 303-5:2012 (solid fuel stoves) using high quality, 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.

KEEP THE INSTRUCTION MANUAL FOR FUTURE REFERENCE  
FOR ANY REQUIREMENT OR CLARIFICATION PLEASE CONTACT  
THE AUTHORISED DEALER

- 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 flue pipe. Moreover, the emission of harmful substances is forbidden by the law.
- 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 manual.
- Do not modify the product.
- Using the item with the door open or with the glass broken is prohibited.
- Do not use the appliance as, for example, a clothes drying rack, a load-bearing surface or step etc.
- Do not install the stove in bedrooms or bathrooms if not certified as watertight.

**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 or EN plus 14961-2 A1 or PEFC/04-31-0220 ONORM M7135, or having the following specifications:

Min. calorific heat output 4.8 kWh/kg (4180 kcal/kg)

Density 630-700 kg/m<sup>3</sup>

Maximum humidity 10% of weight

Diameter: 6 ±0.5 mm

Ash percentage: max. 1% of weight

Length: min. 6mm - max. 30mm

Composition: 100% untreated wood from the industry of wood or post-consumption without the addition of binders, bark-free and compliant with current regulations.

## 02. GENERAL SAFETY PRECAUTIONS

- Use the stove only as described in this manual. Any other use not recommended by the manufacturer may cause fires or accidents to people.
- Make sure that the electrical power available corresponds to the value indicated on the data plate (230V~/50Hz).
- This appliance is not a toy. Ensure 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.
- Do not touch the stove with wet hands; it contains electrical components.
- **Do not use the appliance with 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 and pose a fire hazard. Never use one single extension cable to power several appliances.
- **During normal functioning some parts of the stove may become extremely hot, such as the door, the glass or the handle. Be careful, especially with children. Do not touch any hot parts if not wearing adequate protective devices.**
- **CAUTION! DO NOT TOUCH the FIRE DOOR, the GLASS, the HANDLE or the FUME OUTLET DURING OPERATION when not wearing adequate protective clothing or devices as 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.
- There is a risk of fire during use if the stove is covered or if it comes into contact with **flammable** materials including curtains, drapery, covers, etc. **KEEP SUCH MATERIALS AWAY FROM THE ITEM.**
- Do not immerse the cable, plug or any other component of the appliance in water or other liquids.
- Do not use the stove in dusty environments or wherever inflammable gases 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 ANY MAINTENANCE.**
- **CAUTION! These stoves operate exclusively with pellets or olive pomace if the stove is designed for this particular use; DO NOT USE DIFFERENT COMBUSTIBLES: any other burned material will cause the apparatus to malfunction.**
- **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 dust 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.**
- The combustion chamber must be kept closed except when loading or removing residues in order to prevent smoke egress.
- Do not switch the stove on and off intermittently to prevent damaging its electrical or electronic components.
- Do not use the appliance as a waste incinerator or for any other purposes other than that for which it was designed.
- Do not use liquid fuels.

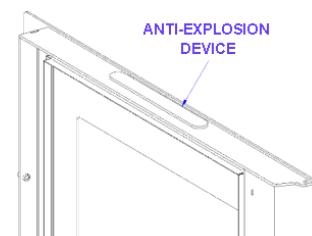
- Do not modify the appliance without prior authorisation.
- Use only original spare parts recommended by the manufacturer.
- Make sure that the stove is transported in compliance with safety regulations. Avoid any improper transfers or knocks that may damage the ceramics or the structure.
- The metal 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.
- To refill the hopper, simply lift the access cover and pour the pellets in, even when the machine is on, taking care not to spill outside of the hopper. Always refuel the hopper before leaving the operating stove unattended for long periods of time.
- Whenever the hopper and the Auger tube get completely empty, the appliance will be automatically switched off. It may take two separate ignitions to resume operation at ideal working conditions since the Auger tube is very long.
- **CAUTION! If the stove is not properly installed, power outages may result in fume egress into rooms. In some cases, it may be necessary to install an uninterruptible power supply.**
- **CAUTION! Being a heating appliance, some parts of the stove can become extremely hot. For precisely this reason, we advise that you take extreme care during operation.**

#### WHEN THE STOVE IS IN OPERATION:

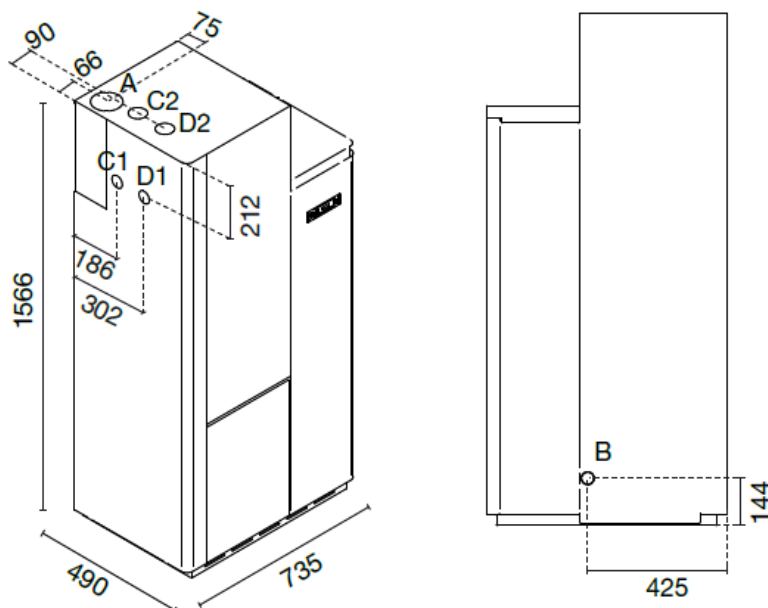
- do not open the door;
- do not touch the door glass since it becomes extremely hot;
- keep children away from it;
- do not touch the fume outlet;
- do not pour any liquid inside the firebox;
- do not perform any maintenance operations if the stove is not cold;
- only qualified technicians are allowed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

#### Anti-explosion device

Some products are equipped with anti-explosion safety devices. 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.



## TECHNICAL DRAWING



- A = Ø 80 mm Scarico fumi / Flue / Cheminée / Rauchabzug / Evacuación de humos / Descarga de fumos
- B = Ø 40 mm Aria combustione / Combustion air / Air de combustion / Verbrennungsluft / Aire para la combustión / Ar de combustão
- C1 = 1/2 Attacco acqua calda laterale / Side warm water connection / Raccordement eau chaude latérale / Seitlicher Warmwasseranschluss / Conexión lateral de agua caliente / Junta lateral de água quente
- D1 = 1/2 Attacco acqua fredda laterale / Side cold water connection / Raccordement eau froide latérale / Seitlicher Kaltwasseranschluss / Conexión lateral de agua fría / Junta lateral de água fria
- C2 = 1/2 Attacco acqua calda superiore / Top warm water connection / Raccordement eau chaude supérieur / Oberer Warmwasseranschluss / Conexión de agua caliente superior / Junta de água quente superior
- D2 = 1/2 Attacco acqua fredda superiore / Top cold water connection / Raccordement eau froide supérieur / Oberer Kaltwasseranschluss / Conexión de agua fría superior / Junta de água fria superior

## 03.2 TECHNICAL DATA

Technical data of the appliance: <i>Dati tecnici dell'apparecchio:</i>	SB 80 / TEK 80	
Name: <i>Designazione:</i>	Nominal heat output <i>Potenza termica nominale</i>	Reduced heat output <i>Potenza termica ridotta</i>
Fuel throughput <i>Consumo orario (kg/h)</i>	2.42	1.13
Minimum flue draught requirements <i>Requisiti minimi del tiraggio del camino (Pa)</i>	11	11
Flue gas temperature <i>Temperatura fumi (°C)</i>	202	115
Flue gas temperature at flue spigot or socket <i>Temperatura uscita fumi (°C)</i>	230	136
Flue gas mass flow <i>Flusso massico dei fumi (g/s)</i>	5.7	3.2
Efficiency <i>Rendimento (%)</i>	90.0	93.5
Total heat output <i>Potenza termica (Kw)</i>	10.2	5.0
Water heat output <i>Potenza termica resa all'acqua (Kw)</i>	8.0	3.4
Space heat output <i>Potenza termica resa all'ambiente (Kw)</i>	2.2	1.6
CO emission at 13% of O <sub>2</sub> <i>Emissioni di CO al 13% di O<sub>2</sub> (%)</i>	0.0179	0.0199
Maximum water operating pressure <i>Massima pressione di esercizio dell'acqua (bar)</i>	4	4
Discharge control operating temperature <i>Temperatura di intervento termostato sicurezza acqua (°C)</i>	-	-
Electrical power supply <i>Potenza elettrica assorbita (W)</i>	-	-
Rated voltage <i>Tensione nominale (V)</i>	230	230
Rated frequency <i>Frequenza nominale(Hz)</i>	50	50

## 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. assumes no responsibility for injury to persons and/or damage to property caused by the non-observance of the point highlighted above for non-compliant installed products.**

**Install the stove according to the regulations in force in the country of use.**

In Italy, for example, this refers to UNI 10683: 2012, which refers to 4 areas:

**a. preliminary activities** - are under the jurisdiction and are the responsibility of the reseller/installer at the time of the pre-installation inspection. Preliminary procedures include:

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

At this stage, the product needs to be checked in order that it can be safely operated and that the relevant technical specifications are met.

**Safety conditions must be assessed with a preventive inspection.**

**Stoves and fireplaces are heating systems and must be installed safely and comply with the manufacturer's instructions!**

**b. installation** - under the responsibility of the installer. In this phase the **installation** of the product and the smoke exhaustion system are considered as well as the handling of topics such as:

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

**c. issuance of supplementary documentation** - the responsibility of the installer.

The release of 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](#).

**d. control and maintenance** - the responsibility of the maintenance technician who must oversee protection and maintenance of the product during its operation over time. The operator responsible for checking and maintaining the systems for winter and summer climate control carries out tasks in **a workmanlike manner** and in observance of applicable regulations. 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.

In addition to what is specifically provided for in the following paragraphs of this Instruction Manual, the Purchaser must comply with the following minimum installation requirements:

- a) Do not invert or place the stove horizontally on one side;
- b) The heat output of the stove must be adapted to the size of the room where it is to be installed and the room must be ventilated from the outside;
- c) The assembly of the flue pipe must be carried out in a workmanlike manner and according to European (UNI 10683) and national regulations, local regulations and the technical specifications and warnings contained in this Instruction Manual;
- d) The smoke outlet must be connected to the flue pipe by means of telescopic fittings;
- e) The diameter of the flue must be less than 150 mm.
- f) The connection to the flue pipe must be made with an inclination connection of less than 45°;
- g) The flue pipe must be suitably insulated;
- h) The minimum length of the horizontal section must be greater than 2 metres;
- i) The minimum slope of the horizontal section must be 5%;
- j) The chimney and/or flue pipe must be waterproofed;
- k) The flue shall not have more than two changes of direction;
- l) The flue gas must be discharged directly into the flue pipe;
- m) The flue gas duct must have a length of less than 6.0 m before the flue, with a maximum horizontal section of 3.0 m;
- n) The flue and flue duct must not narrow in width from the initial diameter for its entire length. The initial diameter shall be that of the exhaust outlet of the stove body;
- o) The minimum ventilation duct opening must be 80 cm<sup>2</sup>;
- p) The distance of the flammable walls must be respected, as prescribed on the "stove data plate";
- q) The burn pot must be cleaned before each ignition of the stove.

The Buyer must not make any structural changes to the stove and must not make any operating changes to the electrical board.

Installation and connection must be carried out by the Purchaser and by qualified technical personnel, in compliance with European (UNI 10683) and national regulations, local regulations and assembly instructions contained in this Instruction Manual.

Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect, for damage to persons or property resulting from non-compliance with the aforementioned provisions of law, assembly instructions, warnings and general safety rules indicated in this Instruction Manual.

Failure to comply with the installation requirements and/or tampering with the stove may result in: inadequate heat output and/or abnormal product behaviour, poor flue gas draught, clogging of the burn pot, slow combustion, hopper fire, overheating and fire hazard of the stove, fire hazard of the flue gas duct, or lack of oxygen in the environment where the stove is located.

Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect for the malfunction of the stove and for damage to persons or property caused by non-compliance with the requirements for installation of the stove and/or tampering with it.

The Buyer must request and retain the certification of compliance of the installation, and the connection of the stove, with the provisions of law. In the absence of such certification Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect for the malfunction of the stove and for damage caused to persons or property, resulting from the use of the product.

**Caution: in the event of ignition fault or power outage, the burn pot must be emptied before repeating the operation. Failure to follow this procedure may result in glass breakage.**

## FLUE PIPE SPECIFICATIONS

SB 80 stoves have the following specifications:

Chimney flue draught: 11 Pa

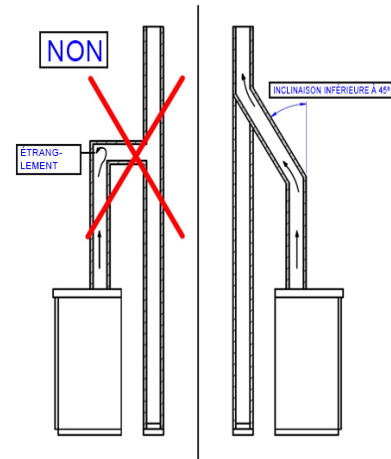
Fume temperature: 230 °C

Mass flow of fumes: 5.7 g/s

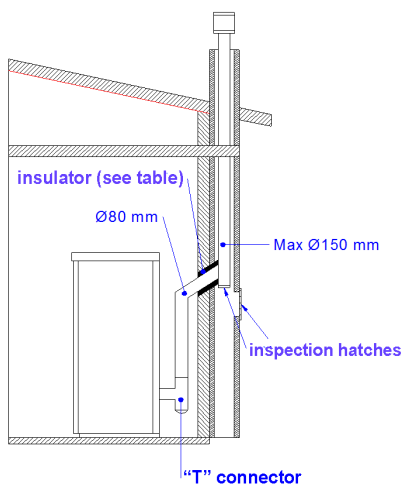
Use a flue pipe and an anti-corrosion fume connection to the flue pipe. The temperature of the fumes and the pellet stove is very low. It could create condensation and corrode the fume exhaust.

The flue 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 flue pipes are made of steel, either stainless steel or aluminised.

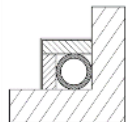
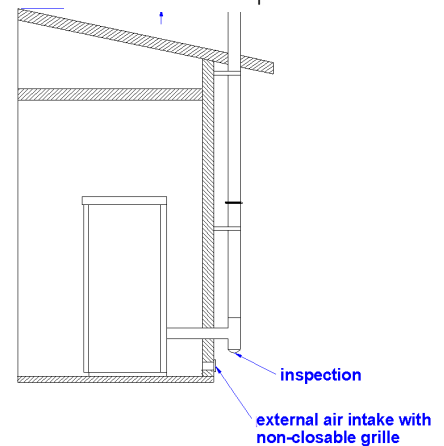
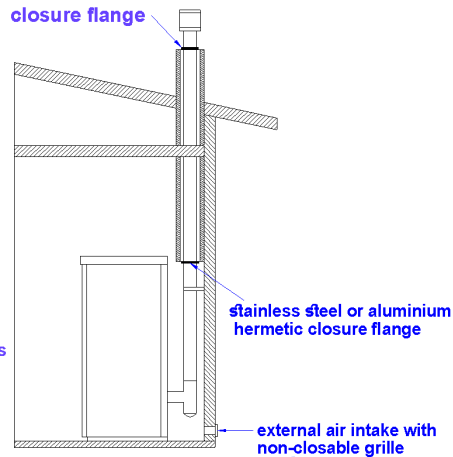
- The stove is fitted with a  $\Phi$  80mm rear round fume outlet and a joint connection to be connected to the vent pipe.
- In order to facilitate connection to the rigid steel flue, it is advisable to use telescopic fittings which, in addition to facilitating the procedure, also compensate for the thermal expansion of both the firebox and the flue itself.
- 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. The angle with respect to the vertical must never exceed 45° (see figure to the side) and there can be no chokes.
- When passing through floors, a 10 cm insulating sleeve must be inserted.
- The flue pipe must be insulated along its entire length. The insulation will make it possible to maintain a high fume temperature. To optimise the draught, avoid condensation and reduce deposits of unburnt particles on the walls of the flue. Use proper insulating materials (glass wool, ceramic fibre, Class A1 non-combustible materials).
- The flue must be weatherproof and must not make more than two changes of direction.
- Flexible and length-adjustable metal pipes may not be used.



## EXISTING VENT PIPE

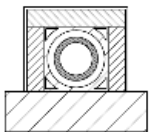


## EXTERNAL VENT PIPE

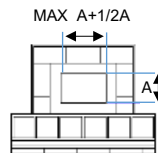


## Types of vent pipe

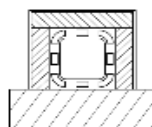
Steel flue pipe with double chamber insulated with material resistant to 400°C. Optimum efficiency.



Refractory flue pipe with insulated double chamber and external coating in lightweight concrete. Optimal efficiency.



Avoid flue pipes with internal rectangular section whose ratio between the larger and smaller side is greater than 1.5. Poor efficiency



Traditional clay flue pipe with cavities. Optimal efficiency.

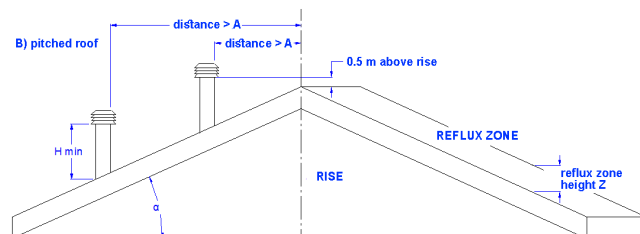
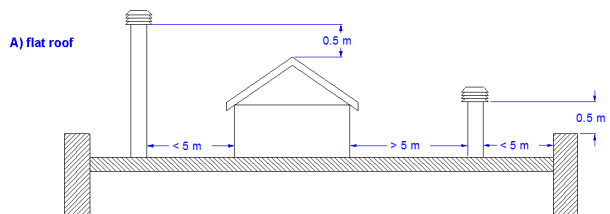


## 05.1 CHIMNEY COWL

A properly installed chimney cowl ensures optimum stove operation. The anti-downdraught chimney cowl consists of a number of components whose outlet section sum always doubles the flue pipe section. Make sure the chimney cowl is at least 150cm above the roof rise 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 flue 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 $\alpha$ [°]	Horizontal width of reflux zone measured from rise A [m]	Minimum height from roof for discharging exhaust fumes $H_{\min} = Z + 0.50\text{m}$	Height of reflux zone Z [m]
15	1.85	1.00	0.50
30	1.50	1.30	0.80
45	1.30	2.00	1.50
60	1.20	2.60	2.10

## 05.2 DRAUGHT

As they heat up, the gases formed during combustion undergo an increase in volume and, as a result, have a lower density than the cooler surrounding air. This difference in temperature between the inside and outside of the flue results in a negative pressure which increases proportionally with the flue 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 flue pipe. There are many meteorological factors that influence the operation of a flue pipe, rain, fog, snow, altitude, but the most important is the wind, which can cause negative thermal pressure as well as dynamic negative pressure.

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

- An ascending wind always results in increasing the pressure and draught.
- A horizontal wind results in an increased negative pressure as long as the chimney cowl is properly installed.
- A descending wind always reduces the negative pressure, and sometimes inverts it.

Excess draught causes an increase in the combustion temperature and consequently a loss in stove efficiency. Some of the combustion gases, as well as small particles of combustible material, are drawn into the flue pipe before being burned, reducing the stove's efficiency, increasing the consumption of pellets and causing the emission of polluting smoke. At the same time, the high fuel temperature, due to an excess of oxygen, wears the combustion chamber prematurely.

A poor draught, however, slows combustion resulting in a decrease in the stove temperature, fume egress inside rooms, a loss of stove efficiency and hazardous build-up in the flue pipe.

To avoid excessive draughts, it is advisable to use a draught regulator (see figure to the side).



## 05.3 EFFICIENCY OF THE HYDRO/BOILER STOVE

Paradoxically, highly efficient stoves may pose difficulties for fume extraction.

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

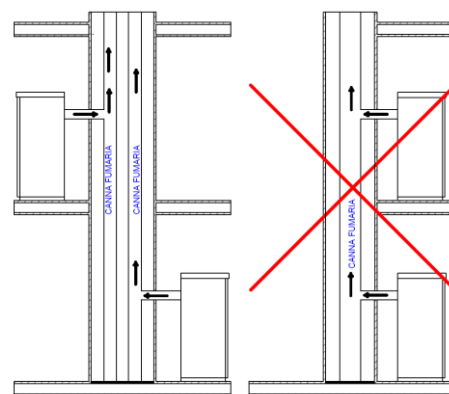
The efficiency of a stove is then determined by its ability to transfer most of the heat produced into the room to be heated: it follows that the greater the efficiency of the stove, the cooler the combustion smoke residues are and, as a result, the weaker the draught.

A traditional chimney flue, with an approximate design and insulation, is more efficient when 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 total fume load might exceed the existing chimney flue capacity resulting in downdraught. If only one appliance is used, the fume heat will facilitate the draught but the cold air from the other appliance not in use will cool down exhaust fume temperature again choking 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.

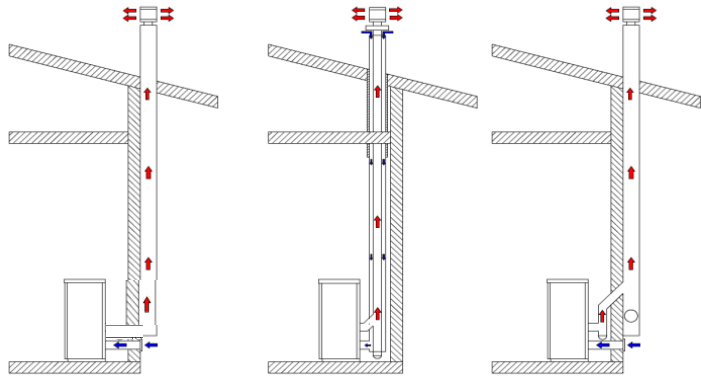


## 06. INSTALLATION WARNINGS

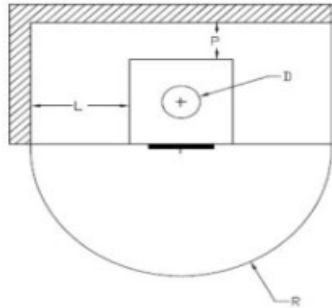
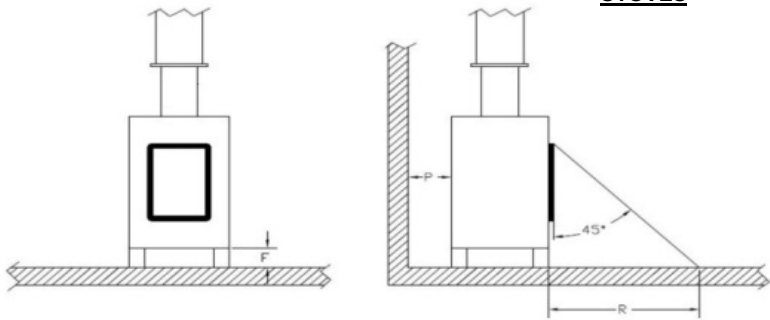
By using coaxial tubes, the air will be pre-warmed contributing to improved combustion and lower emissions into the atmosphere.

Before installing, the following indications must be met:  
Select the position where the stove is to be installed and:

- Arrange the connection to the flue 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 flue pipe and close to the combustion air intake.
- The appliance must be installed on a floor with an adequate loading-bearing capacity.
- Should the existing floor not comply with the requirement above, proper measurements must be taken (for instance, the installation of a load distribution plate).
- All items 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).
- Installation of the appliance must ensure easy access to clean the stove, exhaust ducts and flue pipe.
- This appliance is not suitable to be installed on a shared flue pipe.
- During normal operation, the stove draws air from the room where it is installed. An external air intake must therefore be positioned at the same height as the pipe located on the rear of the stove. Exhaust fume pipes must be suitable for pellet stoves and therefore made from coated steel or stainless steel, with a diameter of 8cm and fitted with adequate gaskets.
- The “air combustion” duct must reach an external wall or a wall of an adjacent room with external ventilation, as long it is not a bedroom or bathroom, nor at risk of fire such as garages, storage rooms for combustible materials, etc. These air intakes must be created in such a way that they cannot be obstructed either internally or externally and must be protected by a grille, wire mesh or other suitable guards provided that they do not reduce the minimum cross section.
- If the stove/boiler 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:



**STOVES**



**FLAMMABLE**

REAR WALL P =	200 mm
SIDE WALL L =	400 mm
FLOOR F =	0 mm
FRONT R =	700 mm

**NON FLAMMABLE**

REAR WALL P =	150 mm
SIDE WALL L =	200 mm
FLOOR F =	0 mm
FRONT R =	700 mm

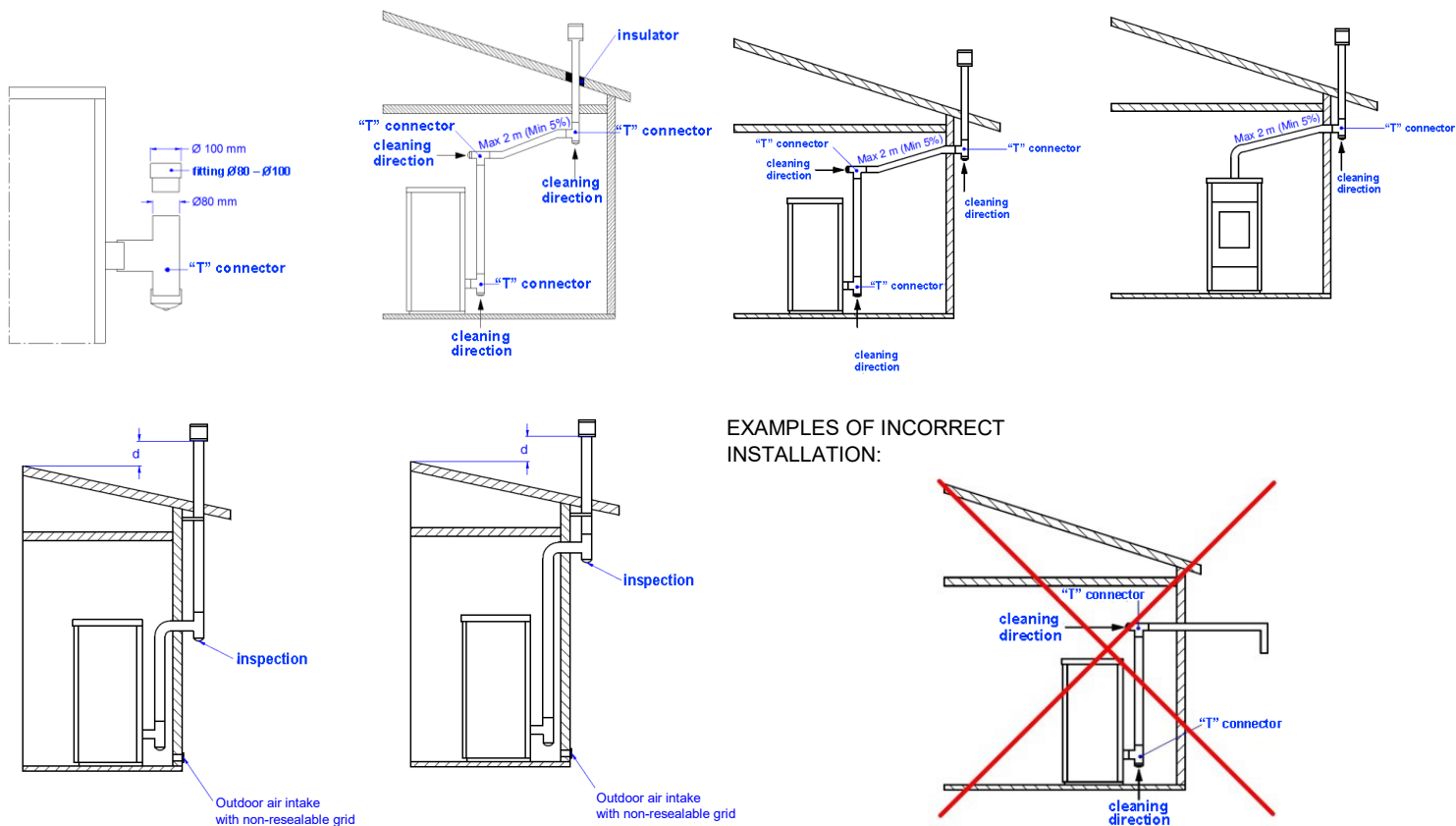
It is, however, advisable, in addition to observing the minimum distances, to install the fireproof, heat-resistant insulating panels (rock wool, aerated concrete, etc.).  
The following is recommend:

Promasil 1000  
Classification temperature: 1000°C  
Density: 245 kg/m³  
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<sup>-6</sup> m/mK

Specific heat capacity: 1.03 kJ/kg K  
Thermal conductivity λ:  
200 °C → 0.07 W/mK  
400 °C → 0.10 W/mK  
600 °C → 0.14 W/mK  
800 °C → 0.17 W/mK  
Thickness: 40 mm

- When the stove is on, it can create a depression in the room where it is installed, therefore there must not be any open flame apparatus in the same room, with the exception of type C boilers (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.
- **The stove can be installed in bedrooms or bathrooms using coaxial pipes or by using external air for combustion.**
- Unpack the stove: be careful not to damage the product at the time of unpacking.
- Check the supporting feet of the stove and adjust them so that the item is stable.
- Position 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 flue pipe.

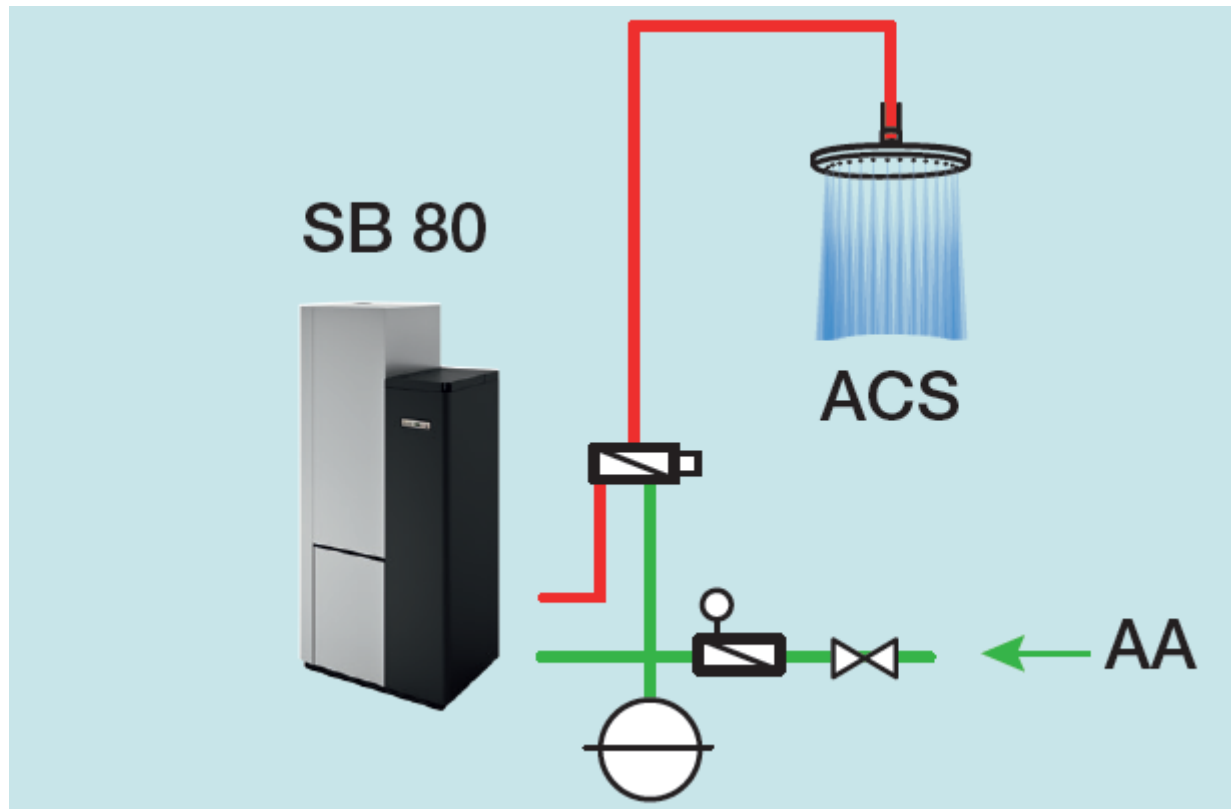
## EXAMPLES OF INSTALLATION:



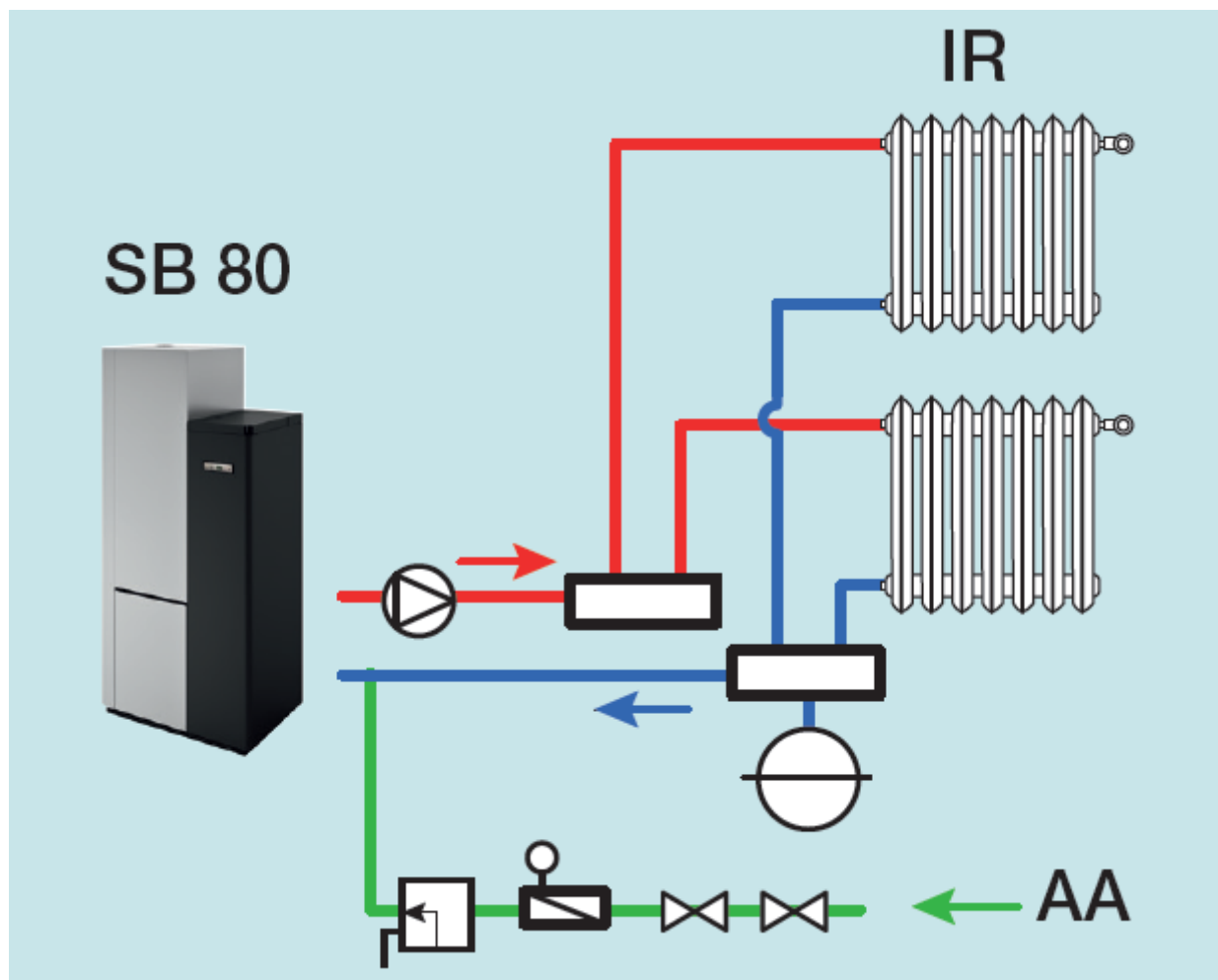
## EXAMPLES OF INCORRECT INSTALLATION:

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

## STORAGE WATER HEATER MODE

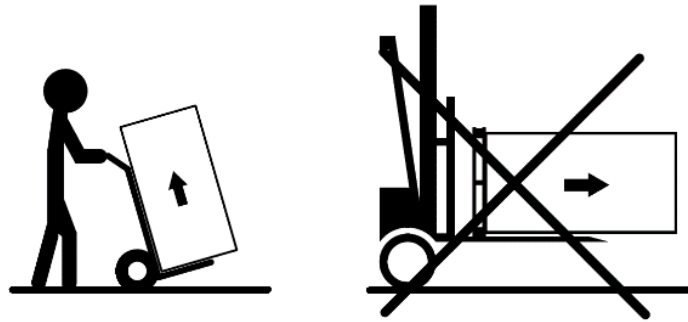


## THERMO-STOVE MODE



### HANDLING AND UNPACKING

When transporting do not position the product horizontally. Unloading of the product must be performed using lifting means that are suitable and that have characteristics that are consistent with the weight of the stove. The operator must make sure that during offloading and lifting of the stove there are no persons or objects nearby. When unpacking, avoid damaging the product with cutters or blunt tools. Keep the packaging out of the reach of children. Remove the screws of the brackets holding the product to the pallet and put it in position taking care to avoid anything that may block installation or damage the product. Use a lifter or pallet truck to separate the apparatus from the transport pallet using the appropriate opening on its base. Pay attention to the balance of the product given its size and weight.



### PLACE OF INSTALLATION

Observe the safety distances described above.

In compliance with the current regulations for installation, the pellet thermo-stove must be installed in a well-ventilated location with sufficient air to ensure correct combustion and, therefore, effective operation. The room must have a volume of no less than 20 m<sup>3</sup> in order to ensure effective combustion (40 m<sup>3</sup>/h of air). A "combustion air intake" is required that reaches an external wall or a wall of an adjacent room with an external air intake with an 80mm minimum diameter. Adjacent rooms cannot be bedrooms, bathrooms, or those that pose a fire risk, such as storerooms, garages, storage rooms for combustible materials, etc. These air intakes must be created in such a way that they cannot be obstructed either internally or externally and must be protected by a grille, wire mesh or other suitable guards provided that they do not reduce the minimum cross section.

When in operation, the pellet stove may cause a negative pressure in the room where it is installed. No other naked flame appliance can coexist in the same room, with the exception of only type c boilers (watertight) unless they are fitted with their own air inflow.

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 installing the thermo-stove, it must be borne in mind that all finishes or any beams made of combustible material must be positioned at a suitable distance and outside the irradiation area of the stove itself; furthermore, it must be borne in mind that in order to not compromise the correct operation of the appliance, air must be allowed to circulate inside its housing to prevent overheating, this is possible by observing minimum distances and creating ventilation holes.

The use of hosing is recommended that connects the appliance to the hydraulic system as, in the case of ordinary or extraordinary maintenance, this makes it easy to move. It is also recommended to install a dirt separator as the electronic pump could capture the dirt of the system and become jammed.

Airtight stoves take combustion and glass-cleaning air directly from the outside, not from the room where they are located, when correctly attached with a suction tube. No oxygen is then consumed from the room. Using coaxial tubes the air will be pre-warmed contributing to improved combustion and lower emissions into the atmosphere. Ideal for passive houses, they offer best comfort at the lowest cost. The stove works even if not connected to the external air intake.

## CAUTION:

THE FOLLOWING ARE **NOT** PROVIDED WITH THE ITEM: AUTOMATIC BLOW VALVE, SAFETY VALVE, ELECTRONIC PRESSURE SENSOR, or EXPANSION TANK.

- Specifications of the pump to be installed: Electronic pump with a head of at least 6 metres.
- Specifications of the Expansion tank to be installed according to the system:

For a correct sizing of the tank, the following operating parameters of the system are required:

**C Volume of water in the system** including boiler, pipes and heating elements with an overestimate of 15-20%. In principle, this is between 10 and 20 l for every 1000 kcal/h (1.163 kW) of boiler heat output.

**e Coefficient of expansion of water**, corresponding to the maximum difference between the boiler thermostat calibration temperature and the water temperature when the system is switched off. Examples of calculation displayed in the following table.

**Coefficient e of expansion of water**

TEMPERATURE DIFFERENCE	COEFFICIENT e
0	0.00013
10	0.00027
20	0.00177
30	0.00435
40	0.01210
50	0.01450
55	0.01710
60	0.01980
65	0.02270
70	0.02580
75	0.02900
80	0.03240
85	0.03590
90	0.03960
100	0.04340
110	0.05150

**P<sub>ia</sub> Absolute preload pressure of expansion tank**, the sum of the respective preloads of the tank (determined by the system) and the atmospheric pressure:

$$P_{ia} = P_{ir} + P_{atm}$$

**P<sub>fa</sub> Absolute pressure setting of the safety valve**, obtained by adding the respective pressure of the valve and the atmospheric pressure:

$$P_{fa} = P_{fr} + P_{atm}$$

Given these parameters, the formula is as follows:

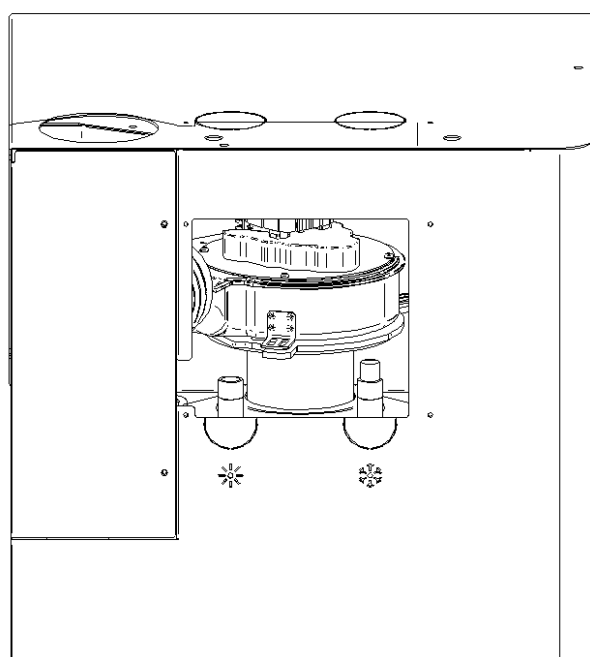
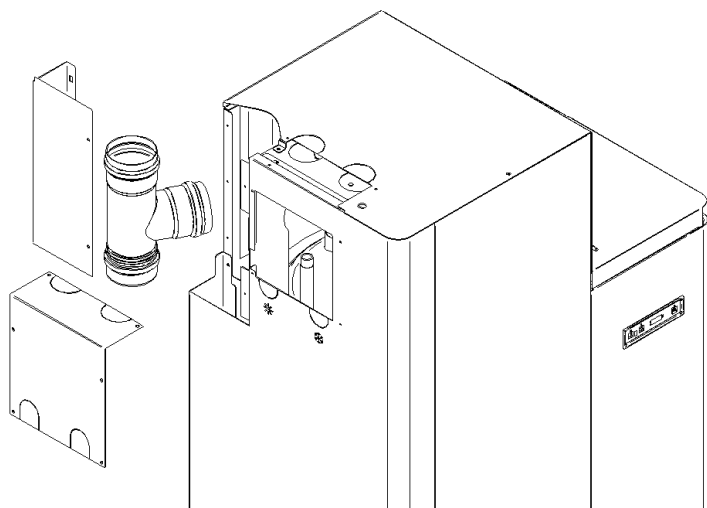
$$V_i = \frac{e \cdot C}{\frac{P_{fa} - P_{ia}}{P_{fa}}}$$

**V<sub>i</sub>**, in litres, is the result of the calculation. For optimal sizing, the next largest tank that is available on the market will need to be chosen

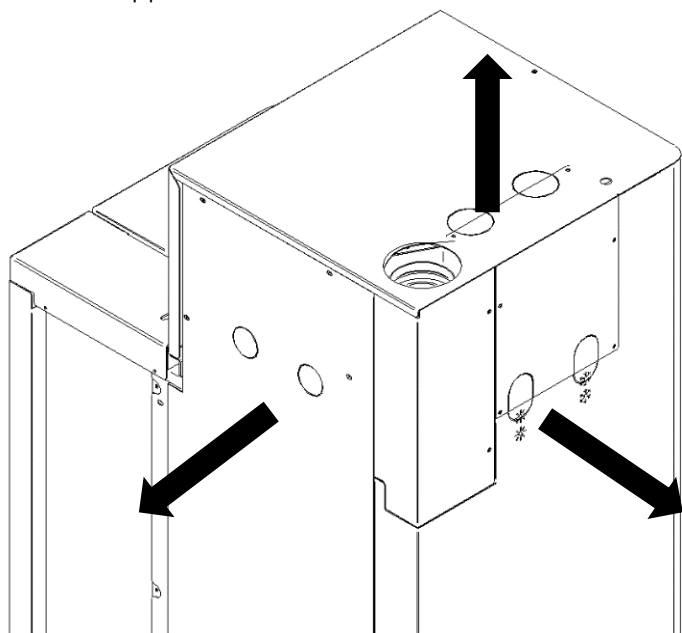
- Safety hydraulic circuit according to EN 1487:2014 or equivalent in force (STORAGE HEATER INSTALLATION MODE ONLY):

Safety units are devices used in sanitary installations for the protection of storage water heaters. They consist of a number of different components which perform the following functions: - safety, to prevent the pressure of the fluid contained in the storage heater from reaching dangerous limits - anti-pollution, to prevent the return of hot water to the cold water supply - shut-off, to isolate the supply and allow maintenance and control of the boiler circuit. They consist mainly of:

- SHUT-OFF COCK
- NON-RETURN VALVE
- NON-RETURN VALVE CONTROL DEVICE
- SAFETY VALVE
- MANUAL DRAIN KNOB
- HYDRAULIC LOAD SHUT-OFF DEVICE



Examples of hydraulic installation: Top, side, rear.  
Use of ½ inch pipes is recommended.



## **STORAGE WATER HEATER MODE INSTALLATION**

Remove the 2 covers for the installation of the system pipes and the fume duct. The fume duct must be certified according to EN1856-2. The use of flexible tubing is recommended to connect the appliance to the hydraulic system as, in the case of routine or non-routine maintenance, this will make it easier to move.

Hot and cold water pipes are ½ inch. The hot water pipe is indicated using a sun and the cold water pipe is indicated with snowflake symbol.

**IMPORTANT:** A circuit board and safety thermostat installed in the item may reduce the risk of malfunction. Installation of a safety hydraulic circuit according to EN 1487 is also mandatory. It is a good practice to connect the drain of the unit to a pipe with the required specifications.

Installation of an expansion tank is recommended to prevent harmful water hammer or accidental overpressures from occurring. A mixing valve to prevent water at overtemperatures in the circuit must also be installed.

The manufacturer assume no liability for damage to property or injury to persons following failure to install the safety devices correctly.

## **THERMO-STOVE MODE INSTALLATION**

Remove the 2 covers for the installation of the system pipes and the fume duct. The fume duct must be certified according to EN1856-2. The use of flexible tubing is recommended to connect the appliance to the hydraulic system as, in the case of routine or non-routine maintenance, this will make it easier to move.

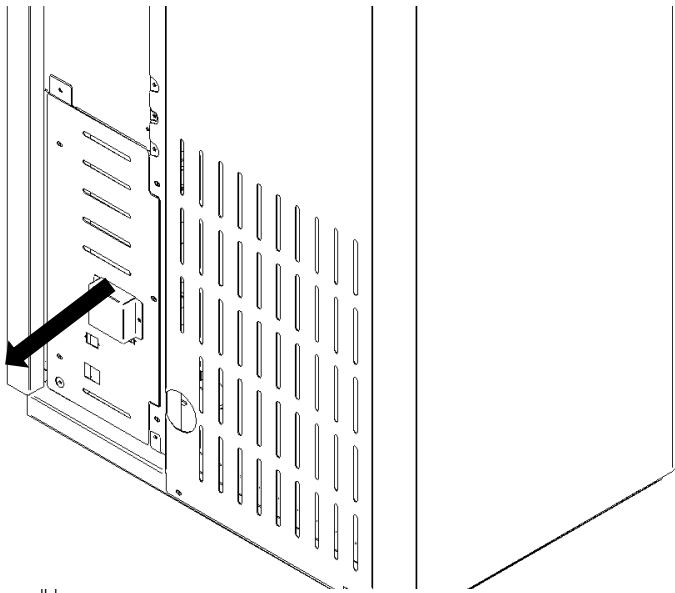
Delivery and return pipes are ½ inch. The delivery is indicated with a sun and the return is indicated with the snowflake symbol.

Install the electronic pump and expansion tank according to the system and as described above. The safety valve must be at a maximum of 4 BAR.

It is also recommended to install a dirt separator as the electronic pump could capture the dirt of the system and become jammed. It is **RECOMMENDED** that an anti-condensation valve and a pressure gauge to read pressure are installed. Remember to purge the hydraulic system before switching on the appliance.

The system pressure must range from 0.5 to 2.5 bar. The recommended pressure is 1.5 bar.

The manufacturer assume no liability for damage to property or injury to persons following failure to install the safety devices correctly.



The electrical connection must be performed by qualified personnel who install circuit breakers upstream of the appliance. Particular attention must be paid when the stove is an integration to the system and all the 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 230V while the frequency is 50 Hz. The electrical system, at the connection point, must include an earth connection as required by EEC Regulation 73/23 and EEC 93/98.

#### **THERMO-STOVE MODE ONLY**

Remove the cover on the rear of the item.

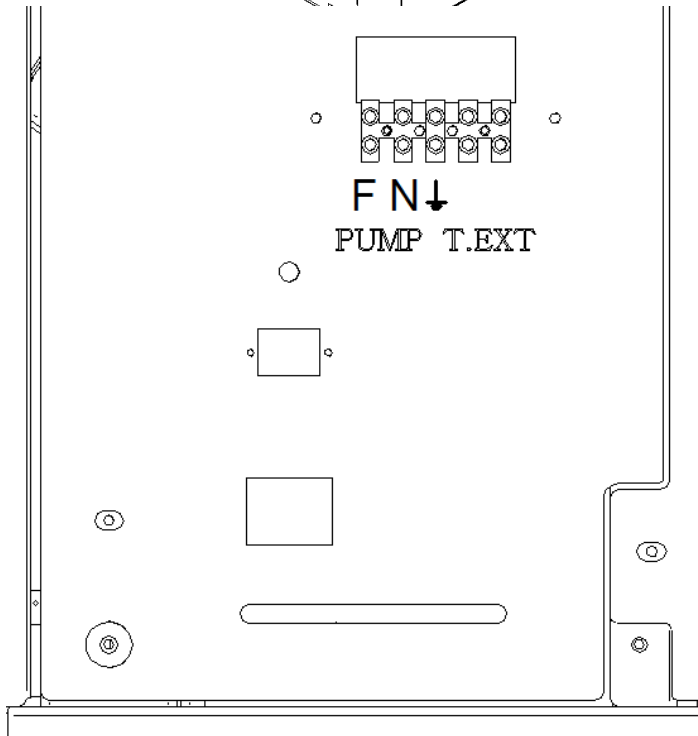
#### **EXTERNAL THERMOSTAT.**

If the item is chosen as a thermo-stove, an external thermostat may still be installed. This operation may only be performed by authorised personnel. Use a 2-pole cable with everyday double insulation. In the event that the thermostat is closed, the stove functions at the set heat output. If the thermostat opened, the stove would work in MODULATE mode until the thermostat closes.

The poles of the thermostat are to be found on the right, above the wording T.EXT.

#### **PUMP.**

The pump must be connected under the wording PUMP and Phase, Neutral and PE must also be connected.



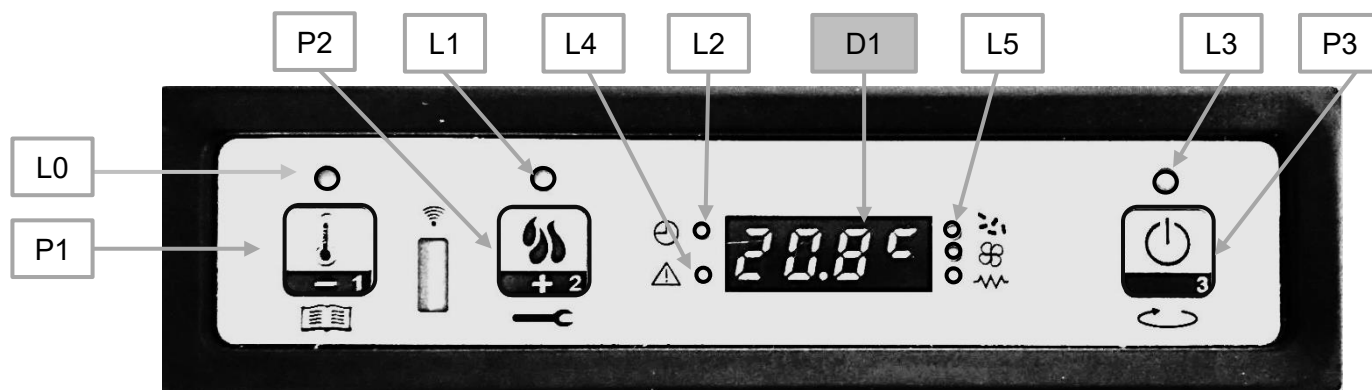
#### **IMPORTANT:**

There are 3 modes of operation depending on the installation of the item. These 3 modes can be set by technical parameters that only the installer may access. The 3 ways are described below.



## 08.1 CONSOLE

## Console



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. A display and the LED indicators inform about the stove operational status. Depending on the operating mode, the displays may take on different meanings depending on their position on the display.

## PANEL DESCRIPTION

**LED (L0)** set room

**LED (L1)** set heat output

**LED (L2)** chrono

**LED (L3)** ON/OFF

**LED (L4)** alarm

**LED (L5)** auger/exchanger/glow plug

**Button (P1)** decrease/menu/set room temperature

**Button (P2)** increase/stove status/set heat output

**Button (P3)** ON/OFF/ esc/confirm

**Display (D1)** status/heat output/parameter

## 08.2 MENU

## MENU

Hold P1 button down to access the menu.

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

**Menu M1 – SET CLOCK**

Keep button (P1) pressed until message M1 appears, confirm with the ON/OFF button (P3), with buttons (P1) and (P2), change the current day and press the ignition button; set the hour and press ON/OFF (P3); set the minutes and press ON/OFF (P3); set the current day as a number and press ON/OFF (P3), set the current month and press ON/OFF (P3), set the current year; to confirm and exit keep the ON/OFF (P3) button pressed until the time reappears.

**Menu M2 – SET CHRONO****Sub-menu M2 – 1 CHRONO ENABLE**

Keep button (P1) pressed until message M1 appears, press the (P2) button up to M2, confirm with ON/OFF button (P3); the menu M2-1 appears, confirm with ON/OFF (P3) and with the arrow (P1) set ON to activate the general chrono; go back keeping ON/OFF (P3) pressed, with button (P2) choose the programme to enable.

**Sub-menu M2 – 2 PROGRAM DAY**

Two fixed ON/OFF cycles for each day.

**Sub-menu M2 – 3 PROGRAM WEEK**

The weekly programmable chrono-thermostat functions can be enabled, disabled and set. The weekly programmer has 4 independent programs whose final effect involves the combination of the 4 individual programs. The weekly programmer can be enabled or disabled. Moreover, if the time is set to OFF, the clock ignores the corresponding control.

Caution: set carefully to prevent overlapping of different activation times of different programmes on the same day.

**Sub-menu M2 – 4 PROGRAM U-END**

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

**SUGGESTION:** 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.

**Setting a programme**

Enter the desired programme by pressing ON/OFF (P3) once. The first parameter is the enabling of the programme itself, which should be set to ON by pressing the (P2) button (**CAUTION: ENABLE ONE PROGRAMME AT A TIME TO PREVENT ISSUES WITH THE CHRONO**). Press ON/OFF (P3), to set the START time, with buttons (P1) and (P2) enter the desired switch-on time; press SET (P3) to set the STOP time: with arrows (P1) and (P2) set the switch-off time; only for the weekly program, press SET (P3) with the days requiring confirmation, with the ON/OFF button, navigate between the days of the week and with buttons (P1) and (P2), set ON or OFF. Once the times and days have been set, to confirm and exit the chrono, press and hold the ON/OFF button until the initial screen is seen; if the times have been set correctly, a green LED will illuminate near the clock at the top left of the display.

**Menu M3 – LANGUAGE**

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

**Menu M4 – STAND-BY**

Use to enable or disable Stand-by mode. Press P3 button to select menu M4 and then P1 (decrease) or P2 (increase) button to select the ON or OFF status.

**Menu M5 – BUZZER**

Allows the controller buzzer to be enabled or disabled during alarm signalling. Press the P1 or P2 button to enable or disable this command and P3 to confirm.

#### Menu M6 – LOAD INITIAL

This command is only available when the stove is **OFF** and allows the auger tube to be loaded the first time the stove is started when the pellet hopper is empty. After selecting the INITIAL LOAD menu, “Press more” will scroll on the display. Then press P2 (increase). The exhaust blower switches on at the maximum speed and the auger tube (auger tube LED on) starts working. They will switch off once the period of time indicated on the display has elapsed or after pressing the P3 button.

#### Menu M7 – STATE STOVE

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

Displayed status – Meaning				
3.1" - Pellet loading auger status	52' - Time out	Off - Thermostat status	106° - Flue gas temperature	1490 - Flue gas extraction speed

#### Menu M8 – SET TECHNIC

This menu item is reserved for the stove installer. After entering the access key using buttons P1 (decrease) and P2 (increase), the various operating parameters of the stove can be set.

#### Menu M9 – ESCAPE

Selecting this item, pressing button P3 will exit the menu and return to the previous status.

### 08.3 USER FUNCTIONS

Standard operation of a control board correctly installed on a stove is described below with reference to the functions available to users.

#### TYPE OF SYSTEM, CHOICE OF OPERATION MODE (can only be set by a technician/installer)

Access the technical calibration menu and enter the SETTINGS FACTORY menu. Pr 20 established how the product is to be used:

- **MODE 1: THERMO-STOVE mode.** The thermo-stove works according to the temperature of the water in the boiler. The heat output and temperature of the water in the boiler can be set by the user. When the water temperature in the boiler is reached, the thermo-stove will go into modulation or stand-by if, activated.
- **MODE 2: THERMO-STOVE mode + T.EXT.** The thermo-stove works according to the temperature of the water in the boiler and the external thermostat. When the external thermostat is not on call, the thermo-stove goes into modulation or stand-by, if activated.
- **MODE 3: STORAGE WATER HEATER mode.** The thermo-stove works according to the temperature of the water in the boiler as a storage water heater.

#### Stove ignition

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.

The combustion chamber and the burn pot must be cleaned, removing any combustion residue. Verify that the hopper lid and the door are closed. Failure to do so could cause a malfunction of the stove and subsequent related alarms. Upon initial start-up ensure that in the burn pot there are no components that will burn (feet bag, instructions, etc.).

Hold P3 button down for a few seconds to switch on the stove. The successful switching on procedure is indicated in the display with the message “START” and the flashing ON/OFF LED.

During this phase, the stove goes into pre-heating status; both the glow plug (as indicated by the corresponding L5 glow plug 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 alarm status.

#### Pellet loading

After approx. 1 minute, the pellet loading phase begins, the display shows the message LOAD PELLET and the ON/OFF LED illuminates intermittently. During the first stage, the auger tube feeds the pellets to the burn pot for a period of time (auger L5 LED on), the exhaust blower speed is set by an internal parameter and the glow plug is still on (glow plug L5 on).

In the second phase, once the preset time has elapsed, the auger switches off (auger L5 LED off) for the preset time, while the exhaust blower speed and the glow plug remain in the previous state.

In case of ignition failure at the end of this phase, the auger tube switches back on and stays on for the preset time, the exhaust blower speed is set by an internal parameter and the glow plug stays on.

#### Fire present

Once the fume temperature has reached and exceeded the preset parameter, the stove goes into ignition mode: the message FLAME LIGHT appears on the display and the ON/OFF LED begins to flash.

In this phase, the temperature remains stable for the preset time.

The exhaust blower speed is set by an internal parameter, the auger stays on for a certain period of time (auger L5 LED intermittent ) and the glow plug is switched off (glow 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 the present fire phase is over, the stove switches to work mode which is the normal operating mode. The message (UORK) appears on the display and the ON/OFF LED switches on. The heat output can be set by pressing the P2 button.

If the fume temperature reaches the threshold set by parameter Pr15, the air exchanger fan switches on. (exchanger LED lit).

**IMPORTANT:** During this phase, after a period of time set by the Pr03 parameter, the stove carries out burn pot cleaning. The message "CLEANING FIRE-POT" scrolls on the display, the Auger tube is on (corresponding LED illuminated) at a speed set by the Pr09 parameter and the exhaust blower at a speed set by PR08 parameter. Once the preset parameter time has elapsed, the stove returns to working status.

#### Changing the set heat output (MODE 1, MODE 2)

During normal operation of the stove (UORK), heat output can be changed by using the P2 button. (Set heat output LED on).

Press P2 button again to increase the heat output and P1 button to decrease it. The display will show the set heat output.

Do not press any button for 5 seconds or press P3 button to exit the setting mode. The heat output cannot be set in MODE 3.

#### The boiler temperature reaches the set temperature (SET boiler temperature)

When the boiler temperature is reached, the stove heat output is automatically set to the minimum value. During this phase, the display shows the message "MODULATE". If the temperature falls below the set value, the stove will go back to "UORK" mode and to the previously set heat output (Set heat output).

#### Stand-by

When enabled in the menu, the STAND-BY command allows the stove to be switched off after complying with the following conditions.

This is enabled if, for a time given by a preset parameter, the boiler temperature is higher than the set temperature plus a preset delta.

The display shows “GO-STBY”. At the end of a preset time, the display shows the message “UAIT COOLING”. When the fume temperature reaches the threshold set by the Pr13 parameter, the stove goes into STAND-BY mode and the message “STOP ECO TEMP GOOD” scrolls on the display. If the boiler temperature falls below the set temperature minus the threshold given by the preset delta, the stove will restart.

#### Stove switch off

Hold P3 button down to switch off the stove. The display shows the message “CLEANING FINAL”.

After a time given by the PR39 parameter, if the fume temperature is below the threshold given by the parameter Pr10, the stove switches off, displaying the message “OFF”.

#### External thermostat/chrono-thermostat use

If an external room thermostat is to be used, make the connection to the TERM terminals. Set MODE 2 using technical parameters. An **external thermostat** or an **external chrono-thermostat** can be used. Disable (OFF) the chrono functionality in the stove.

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

#### Summary schematic of the OPERATIONAL MODES

	SETTABLE HEAT OUTPUT	SETTABLE TEMPERATURE H2O	SETTABLE ROOM TEMPERATURE	SETTABLE EXT THERMOSTAT	STAND-BY	CONDITIONS FOR STAND BY
<b>MODE 1</b> Thermo-stove, heating water control	YES	YES	NO	YES	Settable	Heating water temperature reached
<b>MODE 2</b> Thermo-stove, heating water control and external thermostat	YES	YES	NO	YES	Settable	External thermostat temp reached
<b>MODE 3</b> Storage water heater, domestic water control	NO	YES	NO	NO	Always active	Domestic hot water temp satisfied

#### 08.4 ALARMS

In the event that an operating fault occurs, the board intervenes and signals the occurrence of an irregularity, switching on the alarm LED (alarm LED on) and emitting acoustic signals.

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

**EXCEPT FOR THE POWER OUTAGE ALARM**, alarm status is reached at the end of the period of time set by the Pr11 parameter and can be cleared by holding the P3 button down. Whenever an alarm is cleared, the stove starts a switching-off phase for safety reasons. The alarm LED (alarm LED on) will remain on and the buzzer, if enabled, will sound intermittently during the entire alarm phase. Should the alarm not be cleared, the stove will in any case be switched off and the alarm message will remain on the display.

#### AL1 BLAC-OUT – Power outage alarm

Power outage may occur with the stove in working mode. When restarting, if the outage period is less than 20 seconds, the stove restarts in **UORK** mode, otherwise an alarm will sound. The display shows the message “AL1 BLAC-OUT” and the stove switches off.

#### AL2 SMOKE PROBE ADJUST – Fume temperature probe alarm

The alarm is triggered in case of faulty fume probe. The stove goes into alarm status and the alarm LED illuminates (LED alarm on). The stove will show the wording “AL2 SMOKE PROBE ADJUST” on the display and will switch off.

#### AL3 HOT EXHAUST – Fume over-temperature alarm

This occurs if the fume probe detects a temperature greater than a fixed set value that cannot be changed using a parameter. The display shows the message “AL3 HOT EXHAUST” and the stove switches off.

#### AL4 FAN FAILURE – Fume encoder fault alarm

The alarm is triggered in the event of an exhaust blower fault. The stove will go into alarm status and the message “AL4 FAN FAILURE” will appear on the display.

#### AL5 NO LIGHTIN- – Ignition fault alarm

The alarm is triggered in the event of ignition phase fault. This occurs if, after a time given by parameter Pr11, the fume temperature does not exceed parameter Pr13. The display shows “AL5 NO LIGHTIN-” and the stove goes into alarm status.

#### AL6 NO PELLET – No pellets alarm

This occurs when the fume temperature falls below parameter Pr13 during operation. The display shows “AL6 NO PELLET” and the stove goes into alarm status.

#### AL7 SAFETY THERMAL – Thermal safety over-temperature alarm

The alarm is triggered whenever the general safety thermostat detects a temperature exceeding the trigger threshold. The thermostat trips and switches off the auger as it is placed in series with its power supply, and the controller trips by signalling alarm status (alarm LED on), showing “AL7 SAFETY THERMAL” on the display, and the stove switches off.

#### AL8 FAILURE DEPRESS – No negative pressure alarm

This occurs when the external component (pressure switch) detects a pressure above the trigger threshold. The pressure switch intervenes by switching off the auger, being electrically connected in series, and the controller signals alarm status (alarm LED on) showing “AL8 FAILURE DEPRESS” on the display. The stove switches off.

### General thermostat alarm

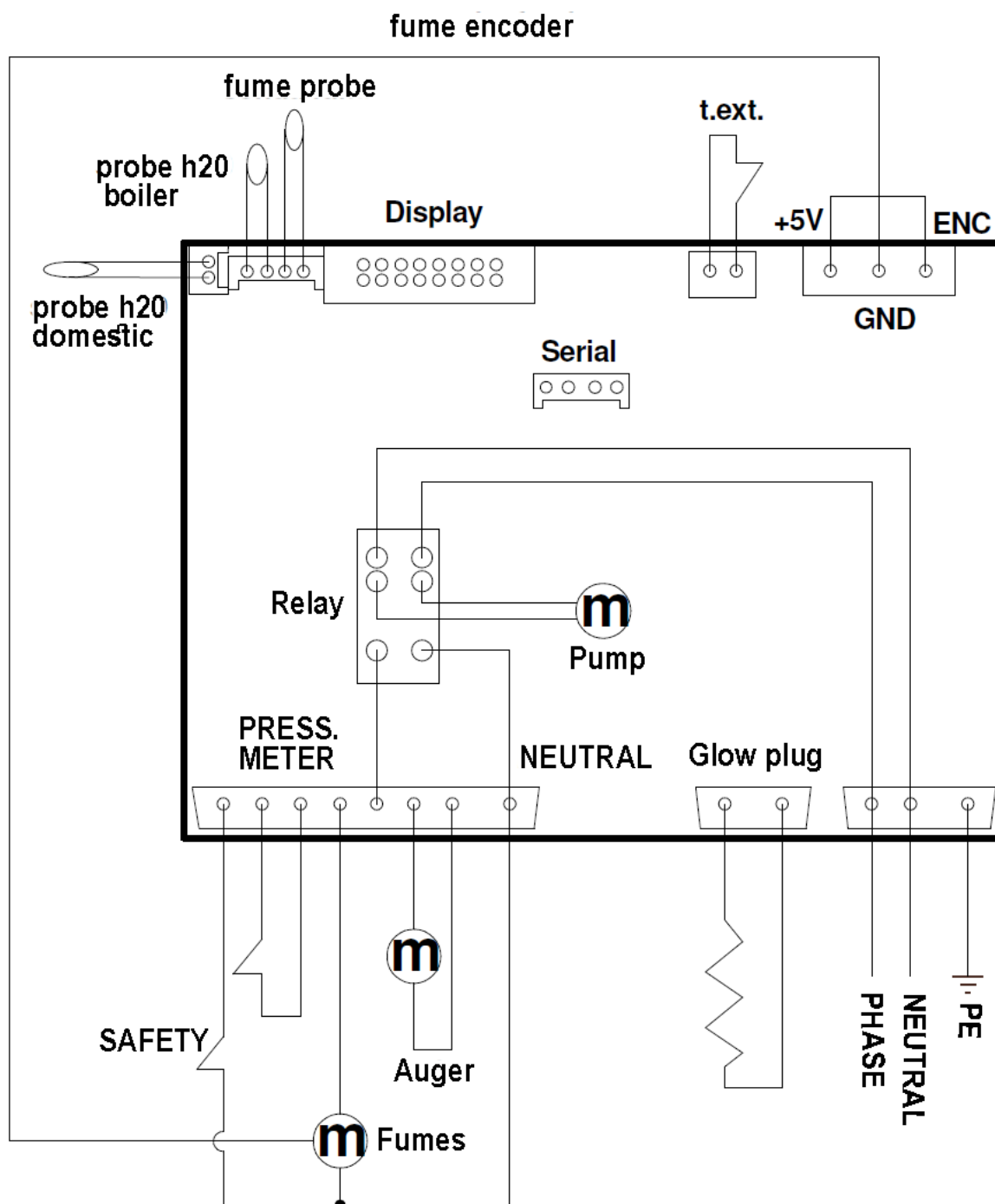
In the event that the safety thermostat detects a temperature higher than the trigger threshold, it will intervene to disconnect the auger (which is simultaneously fed and in series). The message **SAFETY THERMAL** is displayed and the system is shut down. Unscrew the black cap near the pellet hopper cover and press the button to reset the contact.



### SERVICE MESSAGE

The stove will display the message SERVICE (or SER) during operation depending on the number of hours of operation. The wording does not lock operation of the stove, but non-routine maintenance will be required by an authorised technician, who will reset the service hours.

## 09. CONNECTIONS



## 10. CLEANING AND ROUTINE MAINTENANCE

The stove requires simple and frequent cleaning to guarantee maximum efficiency and correct operation.

The Buyer must carry out regular cleaning of the stove following the instructions contained in this Instruction Manual, and in particular must carry out daily cleaning before each ignition or refilling of pellets, the ash drawer, the fire pit and the combustion chamber.

Failure to clean and/or routinely maintain the stove can cause: malfunctions, obstruction of the burn pot and pipes, poor or slow combustion, or overheating of the stove and fire in the hopper.

Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect for the malfunction of the stove and for damage to persons or property caused by the failure/incorrect cleaning and routine maintenance of the stove.

Perform daily cleaning in a completely cold stove as follows:

- Vacuum the base of the fire pit inside the combustion chamber

Perform weekly cleaning in a completely cold stove as follows:

- Vacuum the combustion chamber, ensuring that there are no burning embers remaining. If embers are still burning, the vacuum cleaner will catch fire;
- Remove the ash that collects inside the firebox and on the door.
- Clean the glass with a damp cloth or with a ball of damp newspaper dipped in ash. If the operation is performed with the stove hot there is a risk of the glass exploding.
- Empty the ash drawer, by vacuuming it or throwing the ash out with the rubbish.
- Vacuum the ash drawer compartment and the adjacent inspection window.



Perform monthly cleaning in a completely cold stove as follows:

- Vacuum the T lid of the fume connection. Open the side inspection window and remove the T lid.

Caution: Only use a dry cloth to clean the stove. Do not use abrasive material or products that could corrode or bleach surfaces. At the end of the season, with the last ignition, the pellet remaining in the auger must be consumed completely. The auger must remain empty to avoid clogging due to solidified sawdust residue created by moisture.

## 11. EXTRAORDINARY MAINTENANCE

The Buyer must have the flue and flue pipe cleaned annually, before winter, by qualified technical personnel and retaining the documentation to be shown in the event of activation of the warranty.

Before performing maintenance it is recommended to turn the stove off using the power button, and remove the plug.

Cleaning must also be carried out before resuming use of the stove, as during the summer there may have been impediments to the regular flow of exhaust gases (e.g. nesting, fouling or obstruction).

The lack of extraordinary maintenance can cause: depression with poor draught and a slow flame, clogging of the burn pot and pipes, overheating of the stove and fire in the smoke pipe.

Eva Stampaggi S.r.l. assumes no criminal and/or civil liability, direct and/or indirect for the malfunction and those resulting from people or things caused by the failure/incorrect extraordinary maintenance of the stove.

It is not uncommon, at the first cold spell and with wind for fires to ignite in the chimney due to the residue build up; some advice in the unfortunate event of this happening is:

- Block air supply to the pipe immediately;
- Use large handfuls of sand or salt, not water, to extinguish the fire;
- Move objects and furniture away from the hot chimney.

Caution: Only use a dry cloth for cleaning the outside of the stove. At the end of the season, with the last ignition, the pellet remaining in the auger must be consumed completely. The auger must remain empty to avoid clogging due to solidified sawdust residue created by moisture.

## 12. 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 SUPPORT.
	INTERRUPTED FUSE IN CONTROL BOARD	CALL TECHNICAL SUPPORT.
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.
	FAULTY DISPLAY	CALL TECHNICAL SUPPORT.
ALAR COOL FIRE ACTIVE ALARM MISSING PELLETS ACTIVE ALARM IGNITION FAULT AL6 MISSING PELLETS AL6 NO FLAME NO FLAME	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 SUPPORT.
	POWER OUTAGE	SWITCH STOVE ON AND OFF, CHECK PLUG.
ALAR NO IGN ACTIVE ALARM IGNITION FAULT AL5 IGNITION FAULT NO STAB	NO PELLETS	CHECK HOPPER.
	SAFETY THERMOSTAT TRIGGERED	RESET THE MANUAL THERMOSTAT AT THE REAR OF THE STOVE
	FAULTY FUME SENSOR	CALL TECHNICAL SUPPORT.
	AUGER TUBE BLOCKED BY FOREIGN BODY	DISCONNECT PLUG, EMPTY HOPPER, REMOVE ANY FOREIGN BODY, SUCH AS NAILS, ETC.
	FAULTY AUGER TUBE MOTOR	CALL TECHNICAL SUPPORT.
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.
	FAULTY EXHAUST BLOWER	CALL TECHNICAL SUPPORT.
	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 GLOW PLUG	CALL TECHNICAL SUPPORT.
ALAR COOL FIRE AL1 POWER OUTAGE	DURING OPERATION THE ELECTRICITY SUPPLY WAS CUT OFF	IF FOR MORE THAN 20 SECONDS THE STOVE GOES OUT/BURN POT CLEANING IF FOR LESS THAN 20 SECONDS THE STOVE RESTARTS IN WORKING MODE
BURN POT CLEANING	WARNING APPEARS AFTER 8 HOURS OF STOVE OPERATION (4/5 KW MODELS ONLY) 8 HOURS ARE CUMULATIVE	TO CLEAR THE WARNING, PRESS ALL 3 BUTTONS ON THE DISPLAY FOR 4-5 SECONDS
IRREGULAR SLOW FLAME	ANTI-EXPLOSION DEVICE PLUG MISSING OR NOT CORRECTLY POSITIONED.	
	PARTIALLY CLOGGED FLUE PIPE	CLEAN FLUE PIPE IMMEDIATELY.
	COMBUSTION AIR NOT SUFFICIENT	SUCTION PIPE CLOGGED.
	CLOGGED STOVE	CLEAN BURN POT AND ASH DRAWER.
	FAULTY / DIRTY EXHAUST BLOWER	GET IT CLEANED BY A SPECIALISED TECHNICIAN CALL TECHNICAL SUPPORT.
ALAR FAN FAIL EXTRACTION FAULT ACTIVE ALARM AL4 EXTRACTION FAULT AL. FAN	INADEQUATE COMBUSTION AIR SET VALUE	CALL TECHNICAL SUPPORT.
	FAULTY OR DEFECTIVE EXHAUST BLOWER	CALL TECHNICAL SUPPORT.
	THE BOARD DOES NOT HEAR THE MOTOR RUNNING (DEFECTIVE BOARD)	CALL TECHNICAL SUPPORT.
ECO/MODULE	SET ROOM TEMPERATURE REACHED / CORRECT OPERATION, THE STOVE WORKS AT HEAT OUTPUT LEVEL 1. INCREASE SET ROOM TEMPERATURE SO THAT APPLIANCE GOES BACK TO "WORKING" MODE.	
STOP FIRE CLN-BURN POT CLEAN BURN POT BURN POT CLEANING	PERIODIC CYCLE OF BURN POT CLEANING	CORRECT OPERATION.
STAND-BY / ECO STOP / PAUSE	SET ROOM TEMPERATURE REACHED / CORRECT OPERATION.	
ALAR NEG. PRESS. FAIL ACTIVE ALARM MISSING DEPRESS- AL8 NO NEG. PRESS. AL. PRESS. SWITCH – NEG. PRESS AL	EXCESSIVE OR INADEQUATE FLUE PIPE LENGTH	FIREPLACE NOT COMPLIANT, MAX 6 METRES OF TUBE WITH Ø 80mm AT EACH 90° BEND OR T-CONNECTOR AS 1 METRE OF TUBE.
	CLOGGED OUTLET	CLEAN FLUE PIPE / CALL AUTHORISED TECHNICIAN.
	BAD WEATHER CONDITIONS	STRONG WIND.
ALARM ACTIVE FLOW ALARM AL FLOW	SENSOR DIRTY, FLUE CLOGGED OR DOOR OPEN.	CALL TECHNICAL SUPPORT.
ALAR SAF FAIL THERMAL-SAFETY ACTIVE ALARM AL7 THERMAL-SAFETY AL. SAF.	BOILER TEMPERATURE TOO HIGH	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 SUPPORT.
	FAULTY THERMOSTAT WITH RESET	CALL TECHNICAL SUPPORT.
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.

<b>ALAR FUME PROBE</b> <b>FUME PROBE ACTIVE ALARM</b> <b>AL2 FUME PROBE</b> <b>AL. FUME P.</b>	FAULTY FUME SENSOR	CALL TECHNICAL SUPPORT.
	FUME SENSOR DISCONNECTED	CALL TECHNICAL SUPPORT.
<b>ALAR HOT TEMP</b> <b>HOT SMOKE ACTIVE ALARM</b> <b>AL3 HOT FUMES</b> <b>AL. T. FUMES</b>	FAULTY FUME SENSOR	CALL TECHNICAL SUPPORT.
	FAULTY CONTROL BOARD	CALL TECHNICAL SUPPORT.
	FAULTY EXCHANGER BLOWER	CALL TECHNICAL SUPPORT.
	EXCESSIVE PELLET SET VALUE AT MAXIMUM HEAT OUTPUT	CALL TECHNICAL SUPPORT.
<b>CLEANER/DOOR ALARM</b>	BURN POT CLEANING MECHANISM BLOCKED OR FIRE DOOR OPEN/CLOSED INCORRECTLY	-CHECK THAT THE FIRE DOOR IS CLOSED CORRECTLY -CHECK THAT THERE ARE NO FOREIGN BODIES BLOCKING THE BURN POT CLEANING MECHANISM - CALL TECHNICAL SUPPORT
<b>TURBULATOR/DOOR ALARM</b>	TURBULATOR CLEANING MECHANISM BLOCKED OR FIRE DOOR OPEN/CLOSED INCORRECTLY	- CHECK THAT THE FIRE DOOR IS CLOSED CORRECTLY - CALL TECHNICAL SUPPORT
<b>THERM/DOOR SAFETY ALARM</b>	THERMAL SAFETY THERMOSTAT OR FIRE DOOR OPEN/CLOSED INCORRECTLY	- LET THE STOVE COOL, RE-ARM THE MANUAL THERMOSTAT AT THE REAR. - RESTART THE STOVE -CHECK THAT THE FIRE DOOR IS CLOSED CORRECTLY
<b>ALARM AUGER TUBE TRIAC</b>	THE BOARD DETECTS INCORRECT OPERATION OF THE PELLET LOADING MOTOR	-SWITCH THE STOVE OFF AND BACK ON - CALL TECHNICAL SUPPORT
<b>T. card (°C)</b>	THE TEMPERATURE OF THE BOARD HAS EXCEEDED 70°C	ALLOW THE STOVE TO COOL AND THEN TURN THE STOVE BACK ON. IF THE ALARM REAPPEARS, CONTACT TECHNICAL SUPPORT.
<b>(SIGNAL SEARCH) NO REMOTE CONTROL CONNECTION</b>	REMOTE CONTROL HAS LOST THE UNIT	PRESS THE KEYS 1 AND 2 SIMULTANEOUSLY FOR ABOUT 3-4 SECONDS UNTIL THE "CHOOSE UNIT" APPEARS (UNIT 0 IS THE FACTORY DEFAULT)
	POSSIBLE INTERFERENCE	TRY DISCONNECTING FROM THE MAINS SUPPLY ANY HOUSEHOLD APPLIANCE OR ANY OTHER APPLIANCE THAT MAY GENERATE ELECTROMAGNETIC FIELDS.
<b>REMOTE CONTROL DOES NOT SWITCH ON</b>	DISPLAY SWITCHED OFF	CHECK BATTERY / FAULTY REMOTE CONTROL.

Date 1st maintenance      \_\_\_\_\_ / \_\_\_\_\_ /

(Technical Assistance Centre stamp)

Date 2nd maintenance      \_\_\_\_\_ / \_\_\_\_\_ /

(Technical Assistance Centre stamp)

Date 3rd maintenance      \_\_\_\_\_ / \_\_\_\_\_ /

(Technical Assistance Centre stamp)



**CERTIFICATE OF INSTALLATION AND TESTING**

CUSTOMER: \_\_\_\_\_

Dealer Stamp: \_\_\_\_\_

STREET/ROAD: \_\_\_\_\_  
\_\_\_\_\_

CITY: \_\_\_\_\_

Installer stamp: \_\_\_\_\_

POSTAL CODE: \_\_\_\_\_

PROVINCE: \_\_\_\_\_

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

First name: \_\_\_\_\_

Delivery date: \_\_\_\_\_

Last Name: \_\_\_\_\_

Delivery date: \_\_\_\_\_

Address: \_\_\_\_\_ Post Code: \_\_\_\_\_

Equipment mod.: \_\_\_\_\_

Location: \_\_\_\_\_

Serial number: \_\_\_\_\_ Year: \_\_\_\_\_

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.

CUSTOMER Signature    DEALER / INSTALLER Signature

## Warranty

Eva Stampaggi S.r.l. guarantees that the stove is built in accordance with EN 13240 (wood-burning stoves) EN 14785 (pellet stoves) and EN 12815 (wood-burning stoves and stoves), using high quality and non-polluting materials.

Eva Stampaggi S.r.l. guarantees that the stove is free from defects that make it unsuitable for its intended use or significantly reduce its value. The rules of the Italian Civil Code or applicable national law governing the guarantee in the sales contract, or applicable national law ex D. Int.

Any non-conformity can be claimed under the guarantees and procedures provided for in Legislative Decree 206/2005, provided that the Buyer was aware of the defect, or could not ignore it with ordinary diligence, or if the lack of conformity derives from instructions or materials provided by the same.

The warranty excludes malfunctions, defects and/or faults and consequent damages, resulting from property and/or persons, attributable to an abnormal and/or improper use of the product and/or not in compliance with safety regulations and/or the "Pellet Stove Instruction Manual", or resulting from an installation that does not comply (to which the absence of documents certifying such compliance is also equated) with current regulations and safety directives, or performed by unqualified personnel (UNI10683 and UNIEN 1443), or when, by way of example, there is a direct discharge to the wall.

Likewise, any non-conformity that may be randomly attributed to a use or installation of the product that does not comply with applicable laws and regulations and/or the instructions contained in this "Pellet Stove Instruction Manual" will not be covered by warranty.

The aforementioned warranty is also excluded for defects in conformity, malfunction, defects and/or faults and the consequent damage, caused to property and/or persons, resulting from the use of the stove in a manner that does not comply with safety directives.

The warranty for malfunction, defects and/or faults does not work and Eva Stampaggi S.r.l. assumes no responsibility for damages caused to property or persons resulting from: the lack of first ignition carried out by a specialised technician, to which the absence of such documents, proving said operation, is equated; from the violation and/or non-compliance with the provisions of this Instruction Manual; from the tampering and/or alteration of the stove and its electrical board; from the non-compliance with lights and alarms; from the failure to clean and routine maintenance; from the failure to clean and extraordinary maintenance carried out by specialised technical personnel, to which the absence of documents proving said maintenance is equated; from the improper use of the stove; from the lack of installation requirements; from the non-compliance with the procedures for reporting conformity defects provided for in Legislative Decree no. 206/2005; from the use of unsuitable or poor fuel; from modifications and/or repairs carried out without prior communication and relative authorization of Eva Stampaggi S.r.l.; from the use of non-original and/or non-specific spare parts for the stove.

The above list must be considered non-exhaustive and therefore the cases not expressly indicated but which, by virtue of analogical interpretation, can be equated with the cases listed must also be considered included among the cases of exclusion of the guarantee.

All the following differences related to the natural characteristics of the coating materials are excluded from the warranty: the grains of the stones that are the main characteristic and that guarantee their uniqueness; any small cracks or cracks that could be highlighted in ceramic/majolica coatings; any differences in shades and shades on ceramic/majolica coatings; door glass; gaskets; masonry works.

Eva Stampaggi S.r.l. assumes no responsibility for: damage to chromed and/or anodised metal parts and/or painted or otherwise with treated surfaces, if due to rubbing or impact with other metals; damage to chromed and/or anodised metal parts and/or painted or in any case with treated surfaces, if due to improper maintenance and/or cleaning with products or chemical agents (said parts must be cleaned using only water); damage to mechanical components and mechanical parts due to their improper use or installation by non-specialist personnel or, in any case, for installation that did not comply with the instructions contained in the packaging; damage to electrical or electronic components and parts due to improper use or installation by non-specialist personnel or, in any case, for installation that did not comply with the instructions contained in the packaging.

Ignition resistors are material subject to wear and tear, the duration of which depends on the use of the stove; the relative warranty is therefore limited to the first 6 months of use of the product.

**Warning: after purchase, keep the warranty certificate together with the original packaging of the product, the installation and testing certificate and the receipt issued by the seller. The date of the sales tax document will determine the actual duration of the warranty.**

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

The **after-sales** procedure is managed by our staff, who may be contacted on **+39 0438 35469** or by sending an e-mail to [assistenza@evacolor.it](mailto:assistenza@evacolor.it)

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

If the problem cannot be resolved over the phone, our staff will forward the issue on to the user's **Technical Assistance Centre**, who will guarantee service within five 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 dealer who will then deliver it to the end user following the same procedure as for the product purchase.

This guarantee is valid within Italy; in the event of sale or installation carried out elsewhere, the guarantee must be recognised by the distributor in that territory.

The warranty is carried out with the repair or replacement of defective parts, or defective parts or the entire product, at the discretion of the company.

**When requesting assistance, you must have the following to hand:**

- Serial number
- Stove model
- Purchase date
- Purchase location
- Warranty goodwill certificate completed by specialised C.A.T.

## IMPORTANT:

**EVA STAMPAGGI ADVISES TO CONSULT WITH ITS AUTHORIZED DEALERS AND SERVICE CENTERS.**

**AN INSTALLATION ACCORDING TO THE LAW IS MANDATORY, EVA STAMPAGGI STRONGLY RECOMMENDS A FIRST IGNITION OF ITS PRODUCTS WITH A QUALIFIED TECHNICIAN.**

**EVA STAMPAGGI HAS NO LIABILITY OF ONLINE SALES AND RELATED OFFERS, BECAUSE IT DOES NOT MAKE DIRECT SALES TO THE GENERAL PUBLIC.**

**FOR ANY TECHNICAL PROBLEM DURING THE PERIOD OF THE LEGAL WARRANTY, THE PROCEDURE REQUIRES TO CONTACT THE DEALER OR DIRECTLY OUR AFTER SALE SERVICE.**



The presence of this symbol applied to the product determines that it is NOT a refusal to be considered generic, but must be demolished and disposed of in compliance with the rules in force in your country, making sure that the collection centers are in accordance with the law and respectful of the environment. The responsibility for such disposal is to be borne by the owner and to not incur sanctions or adverse effects on the environment and health, we recommend you contact the local administration, the local waste disposal center or the retailer directly to get more information about places and ways of collecting.

Proper waste disposal is important not only for the environment and the health of citizens, but also because this operation leads to a recovery of materials that have significant energy and resource savings.

**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**  
**Email: [info@evacolor.it](mailto:info@evacolor.it)**

**Dealer Stamp and Signature**



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