

# Extraflame®

## Riscaldamento a Pellet



UK

**PELLET STOVES USER MANUAL**

**MADE IN ITALY**  
design & production

**EVELYNE IDRO 2.0**

## APPLY TECHNICAL DATA LABEL



# ATTENTION



**SURFACES CAN BECOME VERY HOT!  
ALWAYS USE PROTECTIVE GLOVES!**

*During combustion, thermal energy is released that significantly increases the heat of surfaces, doors, handles, controls, glass, exhaust pipes, and even the front of the appliance. Avoid contact with those elements if not wearing protective clothing (protective gloves included). Make sure children are aware of the danger and keep them away from the stove during operation.*

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*We thank you for having chosen our company; our product is a great heating solution developed from the most advanced technology with top quality machining and modern design, aimed at making you enjoy the fantastic sensation that the heat of a flame gives, in complete safety.*

## **WARNINGS**

This instructions manual is an integral part of the product: make sure that it always accompanies the appliance, even if transferred to another owner or user, or if transferred to another place. If it is damaged or lost, request another copy from the area technician. This product is intended for the use for which it has been expressly designed. The manufacturer is exempt from any liability, contractual and extracontractual, for injury/damage caused to persons/animals and objects, due to installation, adjustment and maintenance errors and improper use.

**Installation must be performed by qualified staff, which assumes complete responsibility for the definitive installation and consequent good functioning of the product installed. One must also bear in mind all laws and national, regional, provincial and town council Standards present in the country in which the appliance has been installed, as well as the instructions contained in this manual.**

**The use of the appliance must comply with all local, regional, national and European regulations.**

**The Manufacturer cannot be held responsible for the failure to comply with such precautions.**

**After removing the packaging, ensure that the content is intact and complete. Otherwise, contact the dealer where the appliance was purchased. All electric components that make up the product must be replaced with original spare parts exclusively by an authorised after-sales centre, thus guaranteeing correct functioning.**

## **SAFETY**

- ◆ **THE APPLIANCE MAY BE USED BY CHILDREN 8 YEARS OF AGE OR OLDER AND INDIVIDUALS WITH REDUCED PHYSICAL, SENSORY, OR MENTAL CAPACITIES OR WITHOUT EXPERIENCE OR THE NECESSARY KNOWLEDGE, PROVIDED THAT THEY ARE SUPERVISED OR HAVE**

RECEIVED INSTRUCTIONS ON SAFE USE OF THE APPLIANCE AND THAT THEY UNDERSTAND THE INHERENT DANGERS.

- ◆ THE GENERATOR MUST NOT BE USED BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY AND MENTAL CAPACITIES OR WHO ARE UNSKILLED PERSONS, UNLESS THEY ARE SUPERVISED AND TRAINED REGARDING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.
- ◆ THE CLEANING AND MAINTENANCE REQUIRED BY THE USER MUST NOT BE PERFORMED BY CHILDREN WITHOUT SUPERVISION.
- ◆ CHILDREN MUST BE CHECKED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE.
- ◆ DO NOT TOUCH THE GENERATOR WHEN YOU ARE BAREFOOT OR WHEN PARTS OF THE BODY ARE WET OR DAMP.
- ◆ IT IS FORBIDDEN TO MODIFY THE APPLIANCE IN ANY WAY.
- ◆ DO NOT PULL, REMOVE, TWIST THE ELECTRICAL CABLES COMING OUT OF THE PRODUCT EVEN IF IT IS DISCONNECTED FROM THE MAINS.
- ◆ IT IS ADVISED TO POSITION THE POWER SUPPLY CABLE SO THAT IT DOES NOT COME INTO CONTACT WITH HOT PARTS OF THE APPLIANCE.
- ◆ THE POWER SUPPLY PLUG MUST BE ACCESSIBLE AFTER INSTALLATION.
- ◆ DO NOT CLOSE OR REDUCE THE DIMENSIONS OF THE AIRING VENTS IN THE PLACE OF INSTALLATION. THE AIRING VENTS ARE ESSENTIAL FOR CORRECT COMBUSTION.
- ◆ THE COMBUSTION CHAMBER DOOR MUST ALWAYS BE CLOSED WHEN THE STOVE IS OPERATING AND MUST ONLY BE OPENED TO ADD FUEL, LIGHT AND CLEAN IT.
- ◆ THE HEARTH DOOR MUST ALWAYS BE CLOSED DURING NORMAL FUNCTIONING OF THE PRODUCT.
- ◆ WHEN THE APPLIANCE IS FUNCTIONING AND HOT TO THE TOUCH, ESPECIALLY ALL EXTERNAL SURFACES, ATTENTION MUST BE PAID
- ◆ CHECK FOR THE PRESENCE OF ANY OBSTRUCTIONS BEFORE SWITCHING THE APPLIANCE ON FOLLOWING A PROLONGED PERIOD OF INACTIVITY.
- ◆ THE GENERATOR HAS BEEN DESIGNED TO ADJUST ITSELF AUTOMATICALLY IN PARTICULAR OPERATING CONDITIONS
- ◆ THE GENERATOR HAS BEEN DESIGNED TO FUNCTION IN ANY CLIMATIC CONDITION. IN PARTICULARLY ADVERSE CONDITIONS (STRONG WIND, FREEZING) SAFETY SYSTEMS MAY INTERVENE

THAT SWITCH THE GENERATOR OFF. IF THIS OCCURS, CONTACT THE TECHNICAL AFTER-SALES SERVICE AND ALWAYS DISABLE THE SAFETY SYSTEMS.

- ◆ IN THE EVENT THE FLUE CATCHES FIRE, USE SUITABLE SYSTEMS FOR SUFFOCATING THE FLAMES OR REQUEST HELP FROM THE FIRE BRIGADE.
- ◆ THIS APPLIANCE MUST NOT BE USED TO BURN WASTE
- ◆ NEVER USE PETROL, KEROSENE, LIGHTER FUEL, ETHANOL OR SIMILAR LIQUIDS TO START OR "RELIGHT" THE GENERATOR.
- ◆ DURING THE FILLING PHASE DO NOT PUT THE BAG OF PELLETS INTO CONTACT WITH THE PRODUCT
- ◆ THE MAJOLICAS ARE TOP QUALITY ARTISAN PRODUCTS AND AS SUCH CAN HAVE MICRO-DOTS, CRACKLES AND CHROMATIC IMPERFECTIONS. THESE FEATURES HIGHLIGHT THEIR VALUABLE NATURE. DUE TO THEIR DIFFERENT DILATION COEFFICIENT, THEY PRODUCE CRACKLING, WHICH DEMONSTRATE THEIR EFFECTIVE AUTHENTICITY. TO CLEAN THE MAJOLICAS, IT IS RECOMMENDED TO USE A SOFT, DRY CLOTH. IF A DETERGENT OR LIQUID IS USED, THE LATTER COULD PENETRATE INSIDE THE CRACKLES, HIGHLIGHTING THEM.
- ◆ SINCE THE PRODUCT CAN TURN ON AUTOMATICALLY THANKS TO THE TIMER, OR REMOTELY USING THE DEDICATED APPLICATIONS, IT IS STRICTLY FORBIDDEN TO LEAVE ANY COMBUSTIBLE OBJECT WITHIN THE SAFETY DISTANCES INDICATED ON THE TECHNICAL DATA PLATE.
- ◆ INTERNAL COMBUSTION CHAMBER PARTS CAN BE SUBJECT TO EXTETICAL WARN, IT DOESN'T AFFECT THE FUNCTIONALITY

## ROUTINE MAINTENANCE

Based on Decree 22 January 2008 n°37 art.2, routine maintenance means interventions aimed at reducing degradation due to normal use, as well as dealing with accidental events entailing the need of first interventions, which however do not modify the structure of the system upon which one is intervening or its intended use according to the requirements laid down by the technical standards in force and by the manufacturer's use and maintenance manual.

# INSTALLATION

## GENERAL

The support surfaces and/or points must have a suitable load-bearing capacity to support the weight of the appliance, of the accessories and coatings. The generator must be on the level for correct operation.

The flue extraction and hydraulic connections must be carried out by qualified personnel who must issue documentation of conformity according to the regulations of the country of installation.

**The installer must give the owner or their representative, the declaration of system conformity, in accordance with current legislation, including:**

- 1) the use and maintenance manual of the appliance and of the system components (such as for example, the smoke ducts, chimney, etc.);
- 2) photocopy or photograph of the chimney plaque;
- 3) system booklet (where applicable).

*The installer must ask to be issued with a receipt stating that the documentation has been provided, and must keep it with a copy of the technical documentation relating to the installation.*

If installed in a condominium, the administrator must be consulted beforehand.

If necessary, check the exhaust fume emissions after installation. Any inspection point included should be watertight.

## COMPATIBILITY

Installation in premises with fire hazards is forbidden. Installation in residential premises where the following situations occur is also prohibited:

1. where there are liquid fuel-operated appliances with continuous or intermittent operation, which draw the combustion air in the room in which they are installed.
2. where there are type B gas appliances intended for room heating, with or without production of DHW and in adjacent and adjoining premises.
3. where, in any case, the pressure difference measured during installation between the internal and external environment is greater than 4 Pa.

N.B.: Watertight appliances can also be installed in the cases indicated by points 1, 2 and 3 of this paragraph.

## INSTALLATIONS IN BATHROOMS, BEDROOMS AND STUDIO FLATS

Installation in bathrooms, bedrooms and studio flats is only allowed for sealed or closed hearth appliances with ducted combustion air taken from the outside.

## MINIMUM DISTANCES FROM COMBUSTIBLE MATERIALS

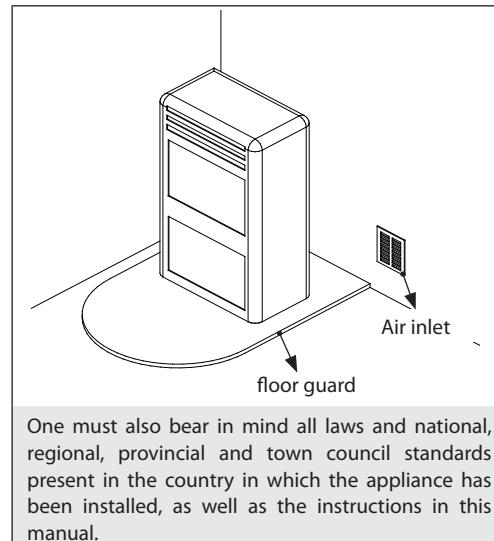
Installation next to combustible or heat-sensitive materials is permitted, provided that suitable safety distances are maintained, as specified in the CEMI (CE Marking Information), the Declaration of Performance (DoP) and the label at the beginning of the manual (page 2).

We suggest using non-combustible material for the side and rear walls and support surface on the floor.

If the floor is made of combustible material, it is recommended to use a non-combustible protective layer, which must cover the area under the appliance and extend forward by at least the distance specified as  $d_r$ .

For installation near non-flammable materials, a minimum side and rear clearance must be maintained, as indicated by the distance marked  $d_{non}$ .

For products with rear spacers, installation flush with the wall is allowed at the rear only.



One must also bear in mind all laws and national, regional, provincial and town council standards present in the country in which the appliance has been installed, as well as the instructions in this manual.

## MAINTENANCE PREPARATION

It might be necessary to place the product away from adjacent walls for maintenance operations. This operation must be carried out by a technician who is qualified to disconnect the flue gas evacuation ducts and subsequent connection. For generators connected to the plumbing system, a connection must be provided between the system and the stove that allows the generator to be moved at least 1 metre away from adjacent walls during extraordinary maintenance work performed by a qualified technician

## INSTALLATION OF INSERTS

When installing inserts, it is necessary to prevent access to the internal parts of the appliance, and when removing them, it must not be possible to access live parts.

Any wiring, such as the power cable or room probes, must be positioned in such a way that they are not damaged when the insert is moved and do not come into contact with hot parts. If a cavity made of combustible material is installed, it is advisable to take all the safety precautions indicated in the installation regulations

## VENTILATION AND AERATION OF THE INSTALLATION PREMISES

Ventilation, in the case of a non-watertight generator and/or non-watertight installation, must be carried out respecting the minimum area indicated below (considering the largest of the values suggested):

Appliance categories	Reference standard	Percentage of the net opening section with respect to the appliance fumes outlet section	Minimum net opening value of the ventilation duct
Pellet stoves	EN 16510-1; EN 16510-2-6	-	80 cm <sup>2</sup>
Boilers	EN 303-5	50%	100 cm <sup>2</sup>

**The difference in pressure between the generator installation rooms and the exterior must always be  $\geq -4$  Pa under any condition (e.g. -3 Pa is an acceptable value), including in the presence of extraction hoods and/or controlled forced ventilation systems**

The air inlets must meet the following requirements:

- ◆ They must be protected with grids, metal mesh, etc., but without reducing the net useful section;
- ◆ They must be made so as to make the maintenance operations possible;
- ◆ Positioned so that they cannot be obstructed;

The inflow of clean, uncontaminated air can also be obtained from a room next to the installation room (indirect ventilation and aeration) as long as this flow can occur freely through permanent openings communicating with the outside.

The adjacent room cannot be used as a garage, warehouse of combustible material or for any other activity with a fire hazard, bathroom, bedroom or common room of the building.

## FLUE DISCHARGE

The heat generator works under a vacuum and is fitted with an outlet fan for fumes extraction. The exhaust system must be used by the generator only. No flue discharges shared with other devices are allowed.

The components of the flue gas evacuation system for combustion products must be chosen and sized in accordance with current regulations, depending on the specific situation at the place of installation.

The following checks are recommended:

- ◆ The flue system must be assessed in accordance with the following technical standards (where applicable): EN 15287-1, EN 15287-2, EN 13063-1, EN 13063-2, EN 1457, EN 1806, EN 1856-1, EN 1856-2 and EN 13384-1;
- ◆ The correct operation of the flue system must be checked in accordance with the EN 13384-2 standard based on the specific situation at the place of installation;
- ◆ The installation of watertight appliances must also take the EN 13063-3 and EN 14989-2 standards into account;
- ◆ Where the design provides for operation in humid conditions, a suitable collection system and possibly a siphoned condensate drain must be provided.
- ◆ The length of the horizontal section should be minimal and, in any case, no longer than 2 metres, with a minimum upward gradient of 3%;
- ◆ The number of direction changes including the one due to the use of the "T" element must not be more than 4.
- ◆ A "T" fitting with a condensation collection cap must be included at the base of the vertical section.
- ◆ The vertical pipe can be on the inside or outside of the building. If the flue is fitted in an existing chimney, it must be certified for solid fuels.
- ◆ If the flue is outside the building, it must always be insulated.
- ◆ The flue must have at least one sealed outlet for possible fume sampling.
- ◆ All the sections of the flue pipe must be accessible for inspection.
- ◆ Inspection openings must be included for cleaning.

If metal pipes are used, they must comply with the following requirements (EN 1856-1 and EN1856-2):

- ◆ Flue - Temperature class (as indicated in the technical datasheet) resistant to soot fire
- ◆ Flue pipe - Temperature class, at least T250, Pressure class, P1 (not indicated in the technical datasheet)

## CHIMNEY COWL

The chimney caps must meet the following requirements:

- ◆ they must have a useful outlet section no less than double of that of the chimney/ducted system on which it is installed;
- ◆ they must be adapted in order to prevent the penetration of rain and snow in the chimney/ducted system;
- ◆ they must be built so that, in the event of winds coming from all directions and from any angle, the expulsion of combustion products is in any case ensured;

## SHARED CHIMNEY FLUE

Check on the CE Technical Data Sheet whether the product is suitable for installation in a shared chimney flue (i.e. with multiple connection).

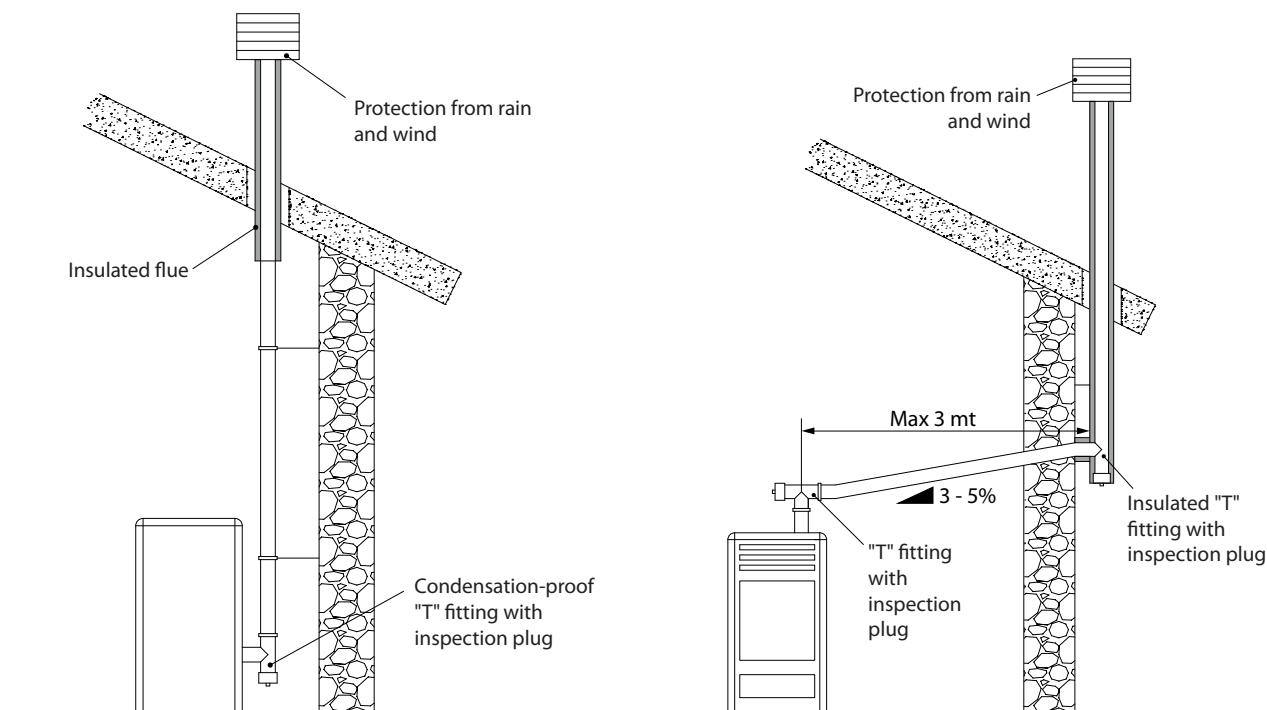
Suitable devices can be installed in shared flue systems provided that:

- ♦ installation in a shared chimney flue (i.e. with multiple connection) is allowed in the place of installation;
- ♦ the requirements of national and regional Standards are strictly complied with [for GERMANY, for example, DIN EN 13384-2, DIN V 18160-1, DIN 18896 and MFeuV-2007 (Muster-Feuerungsverordnung)];
- ♦ the installer or district chimney sweep has inspected and approved the installation conditions.

Please also remember the following indications, which the end user must comply with:

- ♦ The device can be operated only with the doors closed.
- ♦ The doors and all setting devices must remain closed when the device is not on (except for cleaning and maintenance operations).

### EXAMPLES OF CORRECT CONNECTION TO THE CHIMNEY



## CONNECTION TO THE ELECTRICITY GRID

The generator is supplied with a power cable for connection to a 230V 50 Hz socket, possibly with a circuit breaker. The power socket must be easily accessible.

The electrical system must be compliant; check the efficiency of the grounding circuit in particular. Inadequate grounding of the system can cause a malfunction for which the manufacturer is not responsible.

Power fluctuations over 10% may cause product malfunctions.

## HERMETICALLY SEALED INSTALLATION

The generator is a fully sealed product with respect to the environment in which it is installed. This means that it is ideal for passive houses because it does not take air in from within the house.

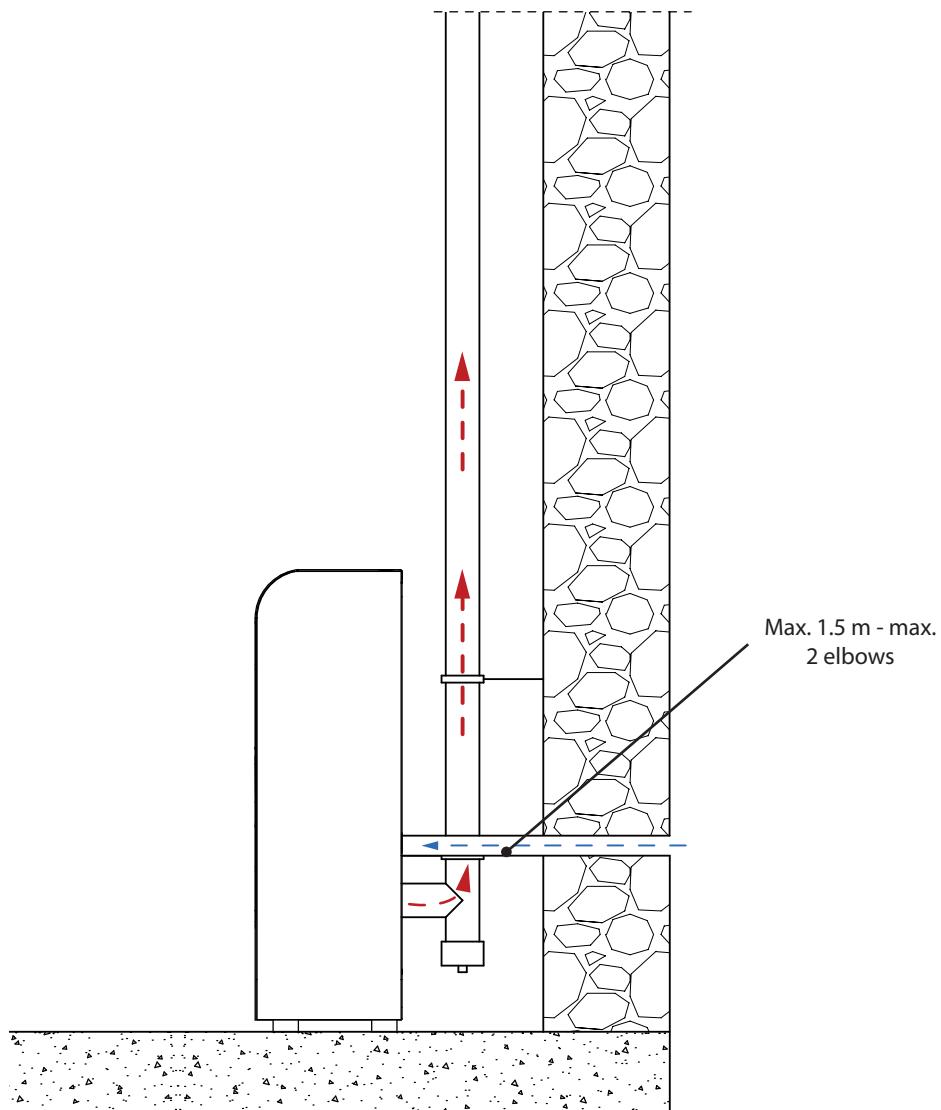
### COMBUSTION AIR

To ensure the stove remains hermetically sealed, the connection pipe for the combustion air must be directly connected to the exterior, using special pipes and sealed connectors.

### FUMES EXHAUST SYSTEM

- If the generator has a fumes temperature of less than 160°C+ room temperature due to the high performance (refer to technical data), the fumes exhaust system must be completely waterproof.
- If there is a possibility that fumes may condense, an external inspection hatch must be fitted.

#### INSTALLATION EXAMPLE



One must also bear in mind all laws and national, regional, provincial and town council regulations in force in the country in which the appliance has been installed, as well as the instructions contained in this manual.

## HYDRAULIC SYSTEM

Certain concepts referring to the Italian Standard UNI 10412-2 (2009) are described in this chapter.

As previously described, when installing, all national, regional, provincial and council Standards in force provided by the country in which the appliance has been installed must be complied with.

During installation of the generator it is MANDATORY to adjust the system with a manometer in order to display the water pressure.

TABLE OF SAFETY DEVICES FOR CLOSED VESSEL SYSTEM AND NOT PRESENT IN THE PRODUCT	
Safety valve	✓
Pump control thermostat (it is managed by the water probe and the board program)	✓
Water temperature indicator (display)	✓
Pressure transducer with display	✓
Automatic circuit breaker adjustment switch (managed by board program)	✓
Pressure transducer with minimum and maximum pressure switch alarm	✓
Water overheating automatic circuit breaker switch (block thermostat)	✓
Circulation system (pump)	✓
Expansion system	✓

**Pay attention to the correct sizing of the system:**

- ♦ generator power compared to the thermal requirement
- ♦ possible need for a buffer tank

## INSTALLATION AND SAFETY DEVICES

The installation, relative system connections, commissioning and inspection of correct functioning must be carried out perfectly, in full compliance with Standards in force, national, regional and municipal, as well as these instructions. For Italy, installation must be carried out by professionally qualified staff (Ministerial Decree dated 22.01.08 n°37).

**Extraflame S.p.A. declines all responsibility for damage to objects and/or persons caused by the system.**

### TYPE OF SYSTEM

- ♦ There are 2 different types of system:
- ♦ Open vessel system and closed vessel system.
- ♦ The product has been designed and made to work with closed vessel systems.

**CHECK THAT THE PRELOAD OF THE EXPANSION VESSEL IS SET TO 1.5 BAR.**

### SAFETY DEVICES FOR CLOSED VESSEL SYSTEM

In accordance with the UNI 10412-2 (2009) regulation in force in Italy, all the closed systems must be fitted with: safety valve, pump control thermostat, temperature indicator, pressure indicator, automatic circuit breaker block switch (block thermostat), circulation system, expansion system, and safety dissipation built-in to the generator with thermal safety valve (self-activated), if the appliance does not have a temperature self-adjustment system.

## DISTANCES OF SAFETY DEVICES ACCORDING TO THE STANDARD

The temperature safety sensors must be in place on the machine at a distance no greater than 30 cm from the flow connection. Whenever the generators lack a device, those missing can be installed on the generator flow pipe, within a distance no greater than 1 m from the machine.

## COMMISSIONING CHECKS

Before connecting the boiler:

- a) wash all system piping thoroughly in order to remove any residues which might compromise the correct functioning of certain system components (pumps, valves, etc.).
- b) The company recommends installing a magnetic filter in the generator return, to increase the operational life of the boiler, make it easier to remove impurities and increase the overall efficiency of the system.

It is also advisable to perform an inspection using appropriate instruments, to check for any stray currents that may cause corrosion.

- c) check to verify that the flue has adequate draught, that it is not narrowed and that other appliances do not discharge into the flue. This is to prevent unexpected power increases. The flue fitting can be mounted between the boiler and the flue only after this inspection. An inspection of the connections with pre-existing flues is recommended.

## ANTI-CONDENSATION DEVICE (MANDATORY)

Make sure a suitable anti-condensate circuit has been realised, which guarantees an appliance return temperature of at least 55°C. The automatic thermostatic valve, for instance, is used in solid fuel boilers as it prevents cold water from returning into the exchanger. A high return temperature allows efficiency improvement, reduces formation of smoke condensation and prolongs the generator's life span. The manufacturer recommends using the 55°C model with 1" hydraulic connections.

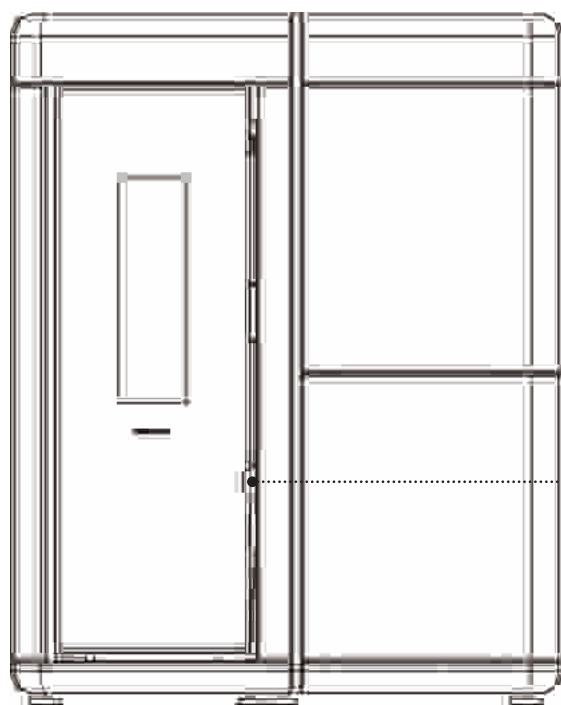
For the products with the \*PWM pump control thermostat, installation is considered equivalent to the realisation of a suitable anti-condensate circuit in the case where:

- the heat generator pump is the only one in the installation, or
  - there is a plate heat exchanger between the heat generator and the installation, or
  - there is a hydraulic compensator or an inertial storage tank (buffer) between the heat generator and the installation

\*Check technical data sheet on website.

Valve on sale as an accessory (optional)

## DETAILS EVELYNE IDRO 2.0



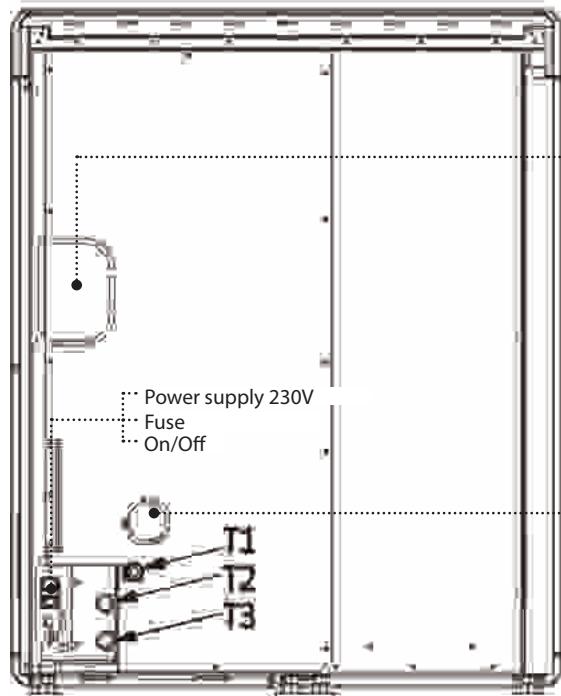
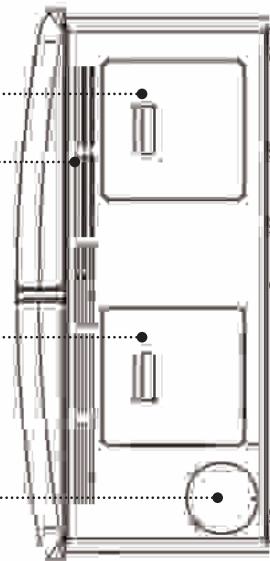
External door handle

Exchanger scraper cover

Room air output

Pellet hopper pressurised closure

Upper flue gas outlet



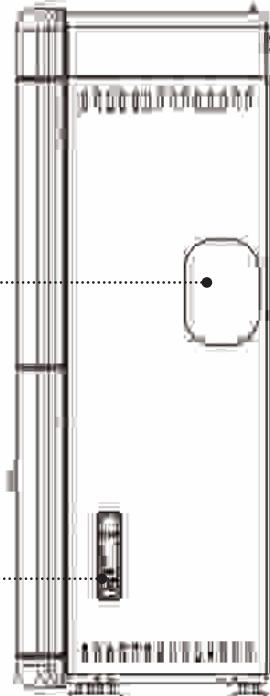
Rear flue gas outlet

Power supply 230V  
Fuse  
On/Off

Rear combustion air inlet

Lateral flue gas outlet

Radio/emergency board



### HYDRAULIC INSTALLATION

T1	3 bar safety drain
T2	Boiler flow/output
T3	Boiler return/input

## FEATURES

Water content of the thermo-product heat exchanger (l)	18
Volume of expansion vessel integrated into thermo-product (l)	*8
3 bar safety valve integrated into the thermo-product	YES
Minimum and maximum pressure switch integrated into the thermo-product	YES
PWM pump integrated into the thermo-product	YES
Pump max. head (m)	6

\* ENVISION ANY INTEGRATIVE EXPANSION VESSEL ON THE BASIS OF THE SYSTEM WATER CONTENT.



SEE THE HYDRAULIC DIAGRAMS MANUAL FOR DETAILS ON THE PUMP INSTALLED.

## CHECKS AND MEASURES FOR COMMISSIONING

### CAUTION!

FOR CORRECT GENERATOR OPERATION, THE HYDRAULIC SYSTEM PRESSURE MUST BE BETWEEN 0.6 AND 2.5 BAR.

Whenever the pressure detected by the digital pressure switch is lower than 0.6 or over 2.5 bar, the boiler goes into alarm mode. By taking the pressure of the water within standard values, the alarm can be reset by pressing the /1 key for 3 seconds (The alarm can be reset only if the fumes motor has stopped and 15 minutes have passed since the alarm was displayed)

### THE PELLET LOAD MOTOR DOES NOT FUNCTION:

It is normal that there is air inside the circuit due to filling the system.

On the 1st ignition cycle, the movement of the water causes the air bubbles to move and be bled by the system automatic venting. This can cause the pressure to drop and the minimum pressure switch to intervene, which interrupts operation of the pellet conveying motor and therefore operation of the heat generator.

The system must be bled several times to eliminate the air and loaded when the pressure is too low.

It is not an anomaly, but normal phenomenon, due to filling. After filling, the system must always be bled using the relevant vents in the circuit and having the machine perform the "OUTLET AIR" function. (After commissioning and with the machine cold, activate the "OUTLET AIR" function again. - see "SETTINGS" chapter)

### BULB THERMOSTATS - RESETTING

Reset the thermostat by pressing the dedicated button. If the problem persists, contact a Technical Support Centre. (see chapter on RESETTING).

## STOVE POSITIONING

For correct product functioning, it is recommended to position it in a way that it is perfectly level, with the aid of a spirit level.

## NOTE FOR CORRECT OPERATION



**ENSURE THE HOPPER IS PROPERLY CLOSED BEFORE TURNING ON THE DEVICE!**

For correct operation of the pellet stove, one must comply with the following indications:

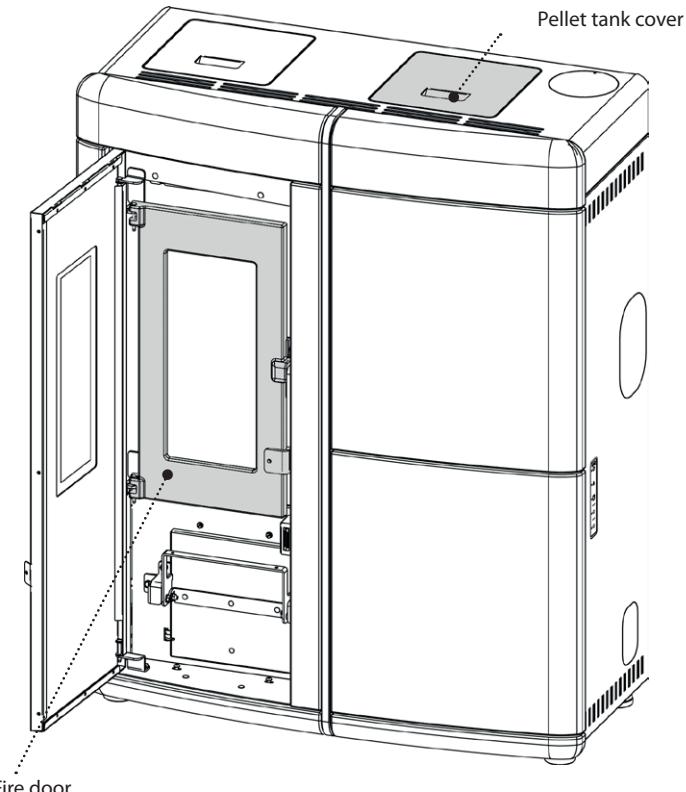
Both during the functioning and when the stove is not in use, all the machine doors (pellet hopper, fire door, ash drawer) must always remain closed. The machine doors can only be opened for the time required to load the pellet and for maintenance.

The lack of one of the above-described conditions during operation will cause the display to show:

**"CLOSE HOPPER- STOVE DOOR"**

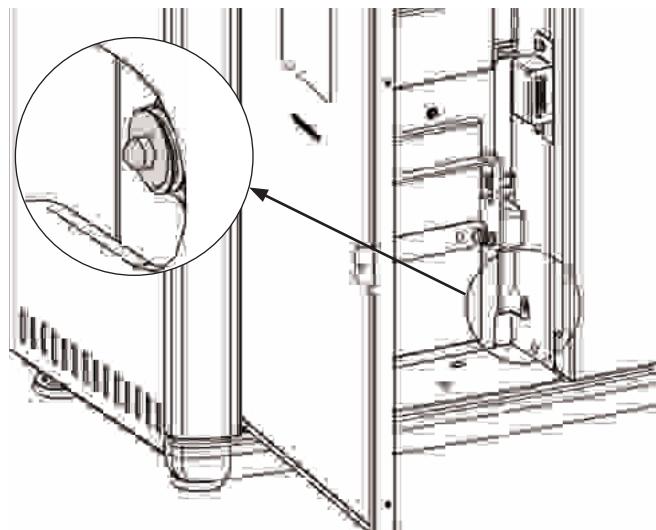
This warning indicates that 60" minutes are allowed for closing the door and the pellet cover.

Otherwise, during the ignition phase the stove will go into alarm "**DEPRESSION ALARM**" while during normal operation the stove will be brought to "**COOLING WAIT**" to then restart automatically when the conditions have been reached (cooled stove, etc...).



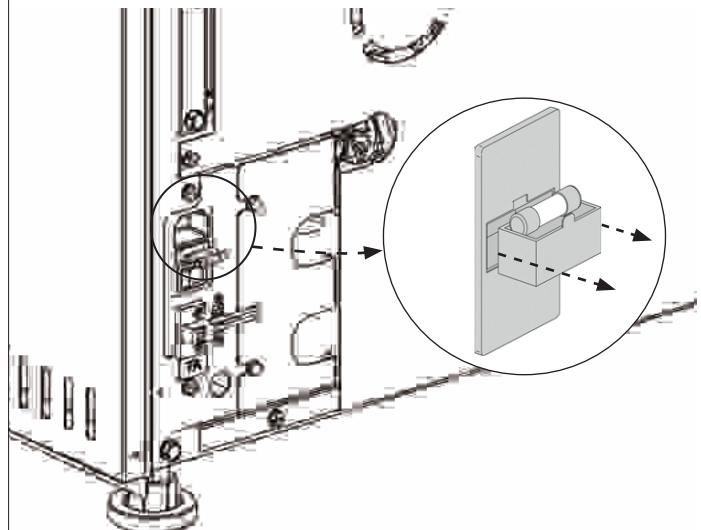
### REARM

In the figure below is shown the rearm position. Reset the thermostat by pressing the dedicated button. If the problem persists, contact a Technical Support Centre.



### FUSE

If the stove is not powered, have the condition of the fuse checked by a qualified technician.



## PELLETS AND LOADING

Pellets are made by subjecting wood shavings i.e. the rejects of pure unpainted wood from sawmills, carpentry products and products from other activities connected to wood working and transformation, to very high pressures.

This type of fuel is fully ecological as no glues are used for its compaction. In fact, pellet compactness is guaranteed over time by a natural substance found in wood: lignin.

In addition to being an ecological fuel, making best use of wood residue, pellets also have a series of technical advantages.

While wood has a calorific value of 4.4 kWh/kg (with 15% moisture, therefore after approximately 18 months of curing), that of pellets is 5 kWh/kg.

Pellet density is about 650 kg/m<sup>3</sup> and water content is equal to 8% of its weight. For this reason pellets do not need to be cured to obtain a sufficient heat yield.

The pellets used must be class **A1** certified according to standard **ISO 17225-2 (ENplus-A1, DIN Plus or NF 444** of the following category: "High quality NF biocombustible wood pellets").

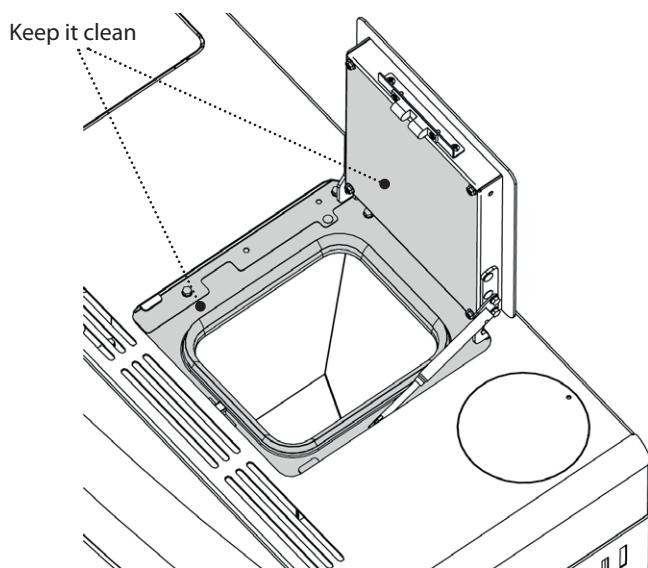
**UNI EN 303-5** with the following characteristics: water content  $\leq 12\%$ , ash content  $\leq 0.5\%$  and lower calorific value  $>17$  MJ/kg (in the case of boilers).

The Manufacturer recommends using pellets with a diameter of 6mm with its products.

### PELLET STORAGE

To guarantee combustion without problems, the pellets must be kept in a dry place.

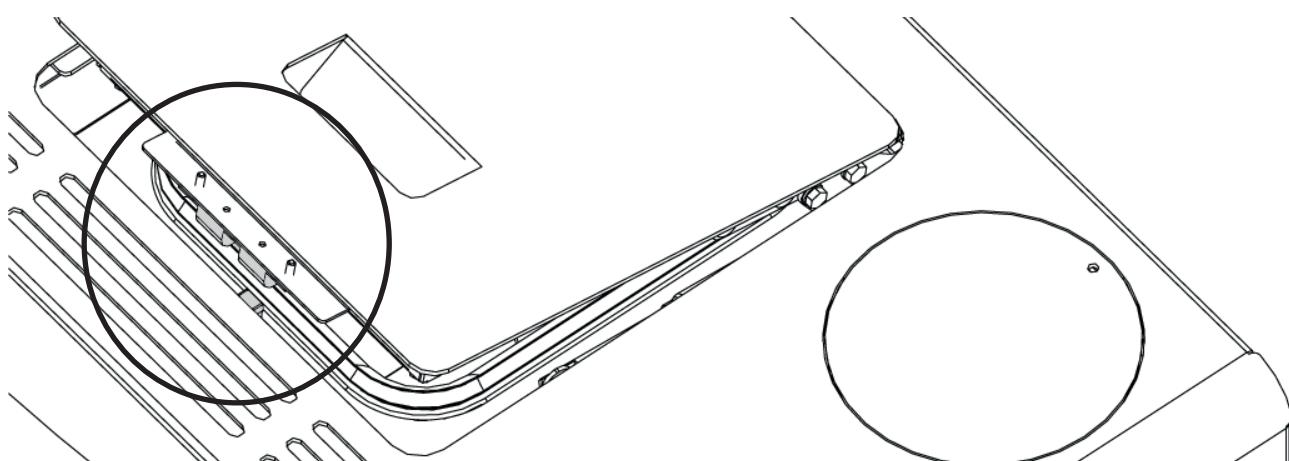
Open the tank lid and load the pellets using a scoop.



**THE USE OF POOR QUALITY PELLETS OR ANY OTHER MATERIAL DAMAGES THE FUNCTIONS OF THE GENERATOR AND CAN VOID THE WARRANTY AND THE ANNEXED RESPONSIBILITY OF THE MANUFACTURER.**

## PELLET TANK - PRESSURE CLOSURE.

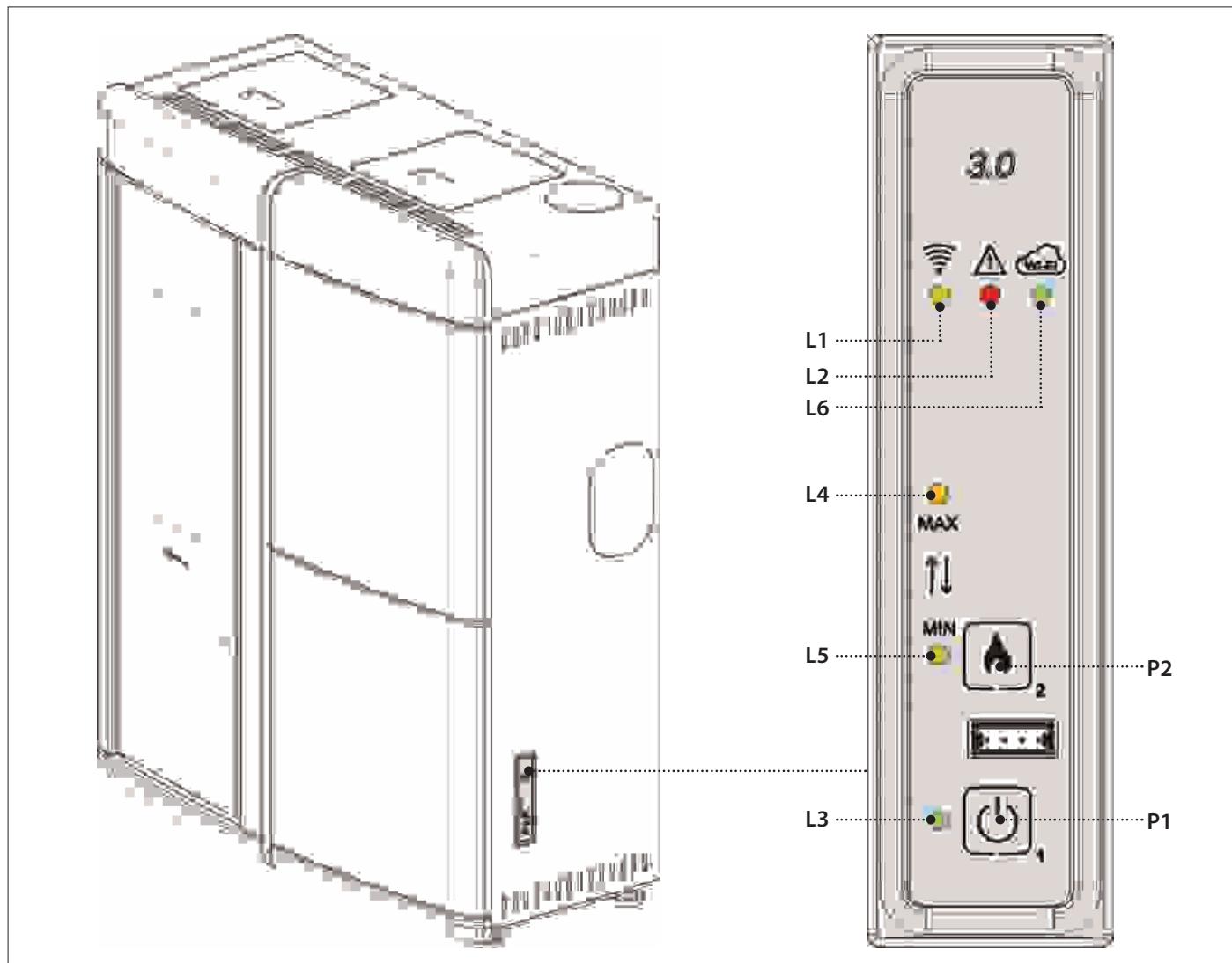
During the operation of the stove, the pellet tank cover must always remain closed.



**DO NOT PLACE THE BAG DIRECTLY ON THE STOVE TO LOAD THE TANK.**  
**ALWAYS USE A SCOOP TO LOAD THE TANK. DO NOT RUB OR PLACE WEIGHTS ON THE TANK SEAL. KEEP THE TANK COVER SEAL SUPPORTING SURFACE CLEAN AT ALL TIMES. CHECK THE CONDITIONS OF THE SEAL FREQUENTLY. IF DAMAGED, CONTACT YOUR LOCAL AUTHORISED TECHNICIAN.**

## RADIO/EMERGENCY CARD

The stove is fitted with an emergency radio card which allows for basic control of the stove in the event of a fault or if the remote control is malfunctioning.



The functions that can be managed from the emergency card are:

P1	On/Off stove.		
P2	MIN or MAX power setting		
• • •	-		
L1: Yellow LED	LED off: radio communication not available. LED on: radio communication available.	L4: Yellow LED	LED on: 5 <sup>^</sup> power set.
L2: Red LED	LED off: normal operation. LED on: alarm present.	L5: Yellow LED	LED on: 1 <sup>^</sup> power set.
L3: Green LED	LED off: stove off. LED on: stove on. LED flashing: stove cleaning cycle under way, alarm, stand by/cooling waiting/or blackout stand by.	L6: Green LED	LED for WI-FI control: See WI-FI chapter

## RADIO CONTROL DEVICE CONFIGURATION

### RADIO CONTROL DEVICE CODING PROCEDURE:

1. Disconnect the power supply to the stove.
2. Press the keys **[■]** and **OK** at the same time until the screen to choose **RADIO ID** appears.
3. Using the buttons **▲** and **▼** select the new **RADIO ID** (*it is possible to select a RADIO ID between 0 and 63*).
4. Power the stove. Within 10 seconds (the LED on the emergency module will flash) confirm the selected unit by pressing **OK** on the radio control device.
5. The LED on the emergency module will remain on for 5 seconds to confirm the new configuration.
6. If the configuration was not successful, "**ERR**" will appear on the display. In this case, repeat the procedure.



**THE REMOTE CONTROL IS ALREADY CONFIGURED WITH "RADIO ID". IF THERE IS ANOTHER STOVE, TO AVOID INTERFERENCES, A NEW CONFIGURATION MUST BE PERFORMED, MODIFYING ONE OF THE TWO STOVES.**



**SOME RADIO FREQUENCY DEVICES (E.G. MOBILE PHONES, ETC.) MAY CAUSE INTERFERENCE WITH COMMUNICATION BETWEEN THE RADIO CONTROL DEVICE AND THE STOVE.**

## RADIO CONTROL DEVICE ROOM PROBE CALIBRATION

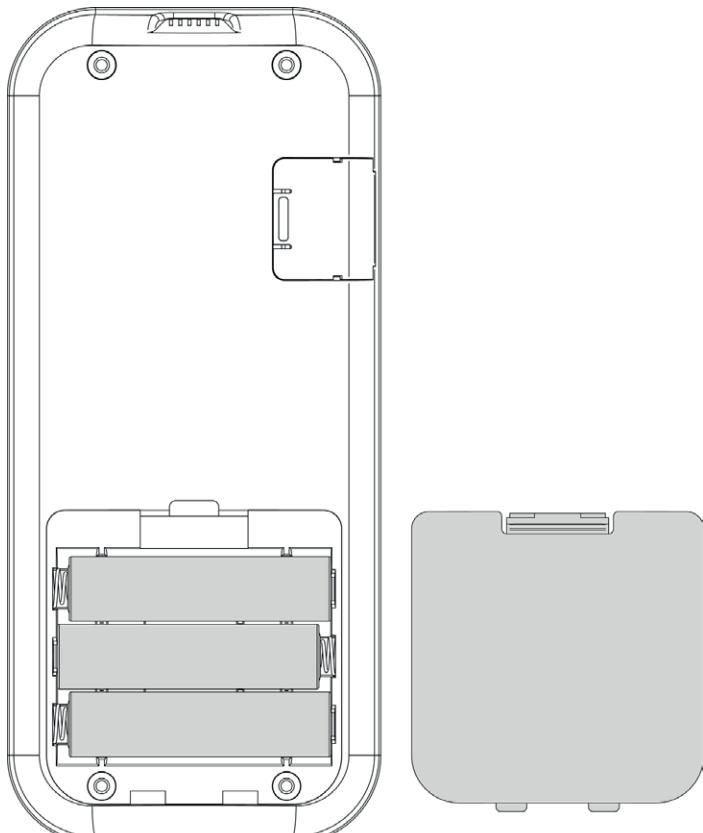
This mode allows calibration of the room temperature detected by the radio control device (with ventilation active only). For correct calibration, it is recommended to position the radio control in a room with constant temperature and wait for at least two hours. Below find the calibration procedure:

- ♦ Access the menu and reach "TECH MENU".
- ♦ Set the access key "F4". - "ADJ REMOTE PROBE"
- ♦ Using the keys **▼** or **▲** adjust the desired room calibration.
- ♦ Save and exit with the key **[■]**.

## BATTERY TYPE AND REPLACEMENT

To insert/replace the batteries, simply remove the battery protection cover at the back of the radio control device (figure 1). Insert the batteries according to the symbols imprinted on the radio control device and on the battery itself.

3 AAA batteries are required for the radio control device to function.



(figure 1)



### Respect the environment!

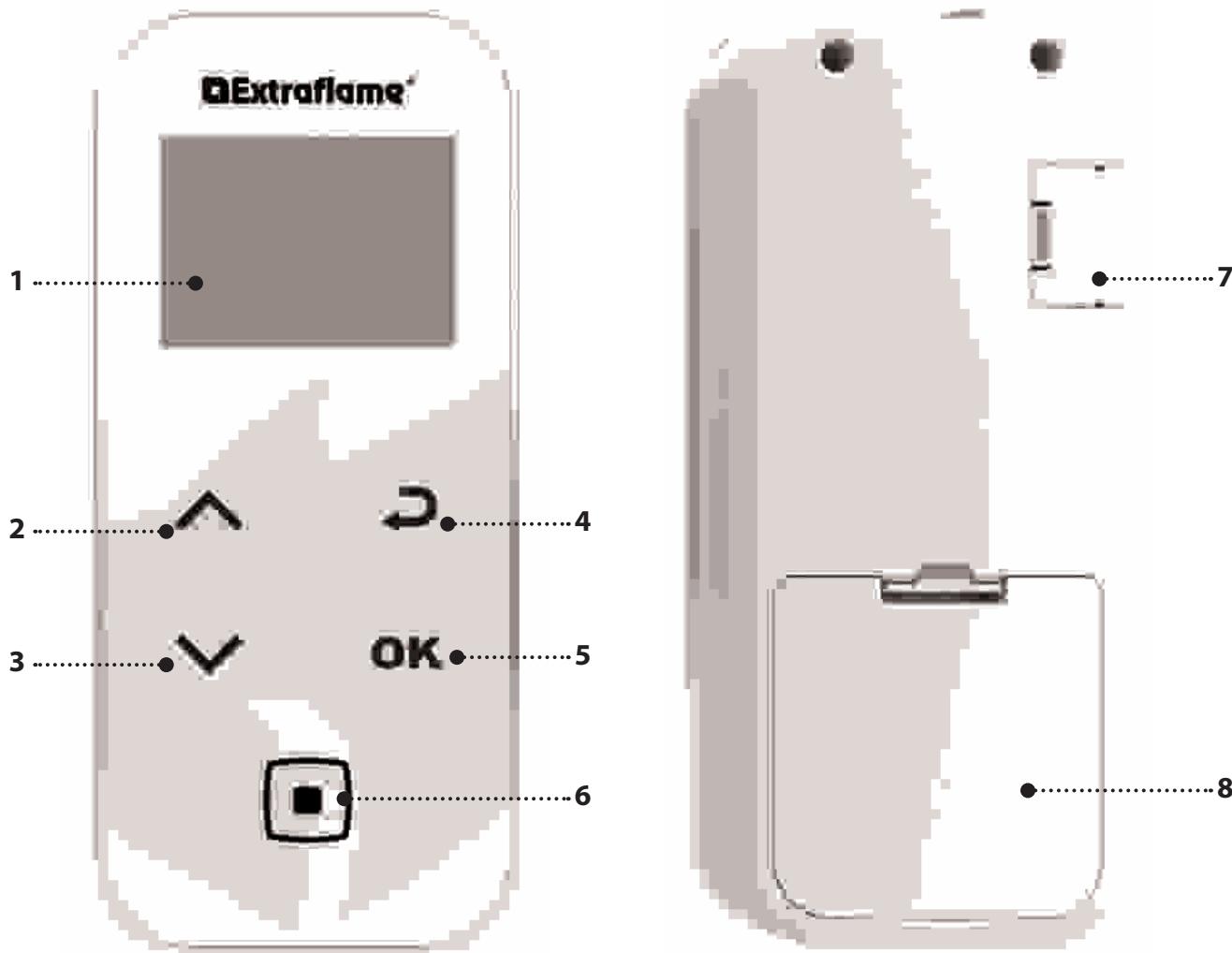
Used batteries contain metals that are harmful to the environment, and therefore must be disposed of separately in special containers.

## RADIO CONTROL DEVICE FEATURES

- The radio control is fitted with an LCD backlit display. The display remains lit for 5 seconds. After a certain period of time, in order to minimise battery consumption, the display turns off (**SLEEP** mode).
- It turns back on after pressing the **ON/OFF** key (6).

### CAUTION!

- Do not place the radio control device in direct or indirect contact with water. The radio control device may not work properly in the presence of humidity or if exposed to water.

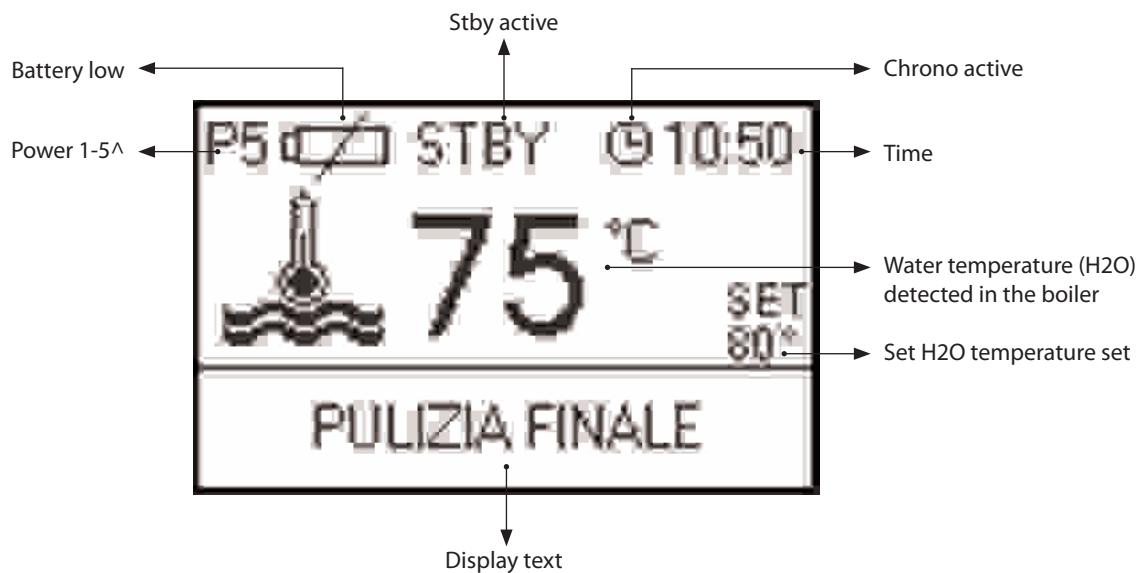


1.	DISPLAY
2.	SET POWER / scroll across in menus / increase - select a setting
3.	SET H2O / scroll across in menus / reduce - deselect a setting
4.	Back key
5.	Key to access MENU and CONFIRM
6.	ON/OFF stove or restore from sleep mode.
7.	Serial cable input
8.	Battery compartment

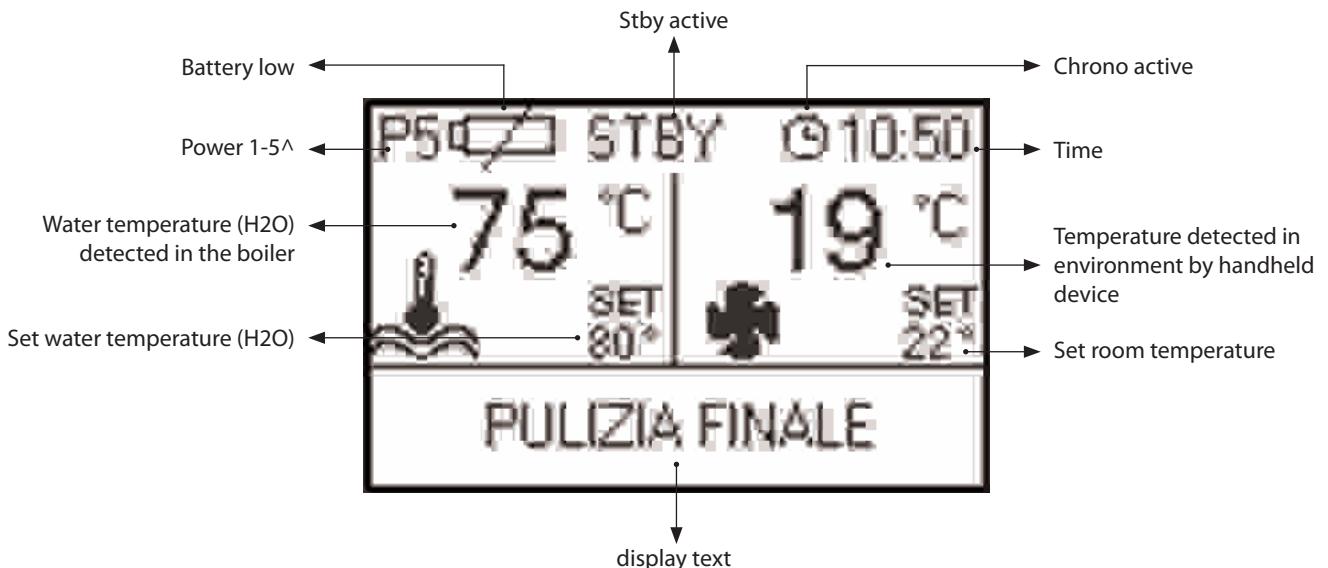
FREQUENCY BANDS	MAXIMUM POWER TRANSMITTED
868.3 MHz	4 mW ERP
869.85 MHz	4 mW ERP

## DISPLAY

### SCREEN WITH VENTILATION NOT ENABLED

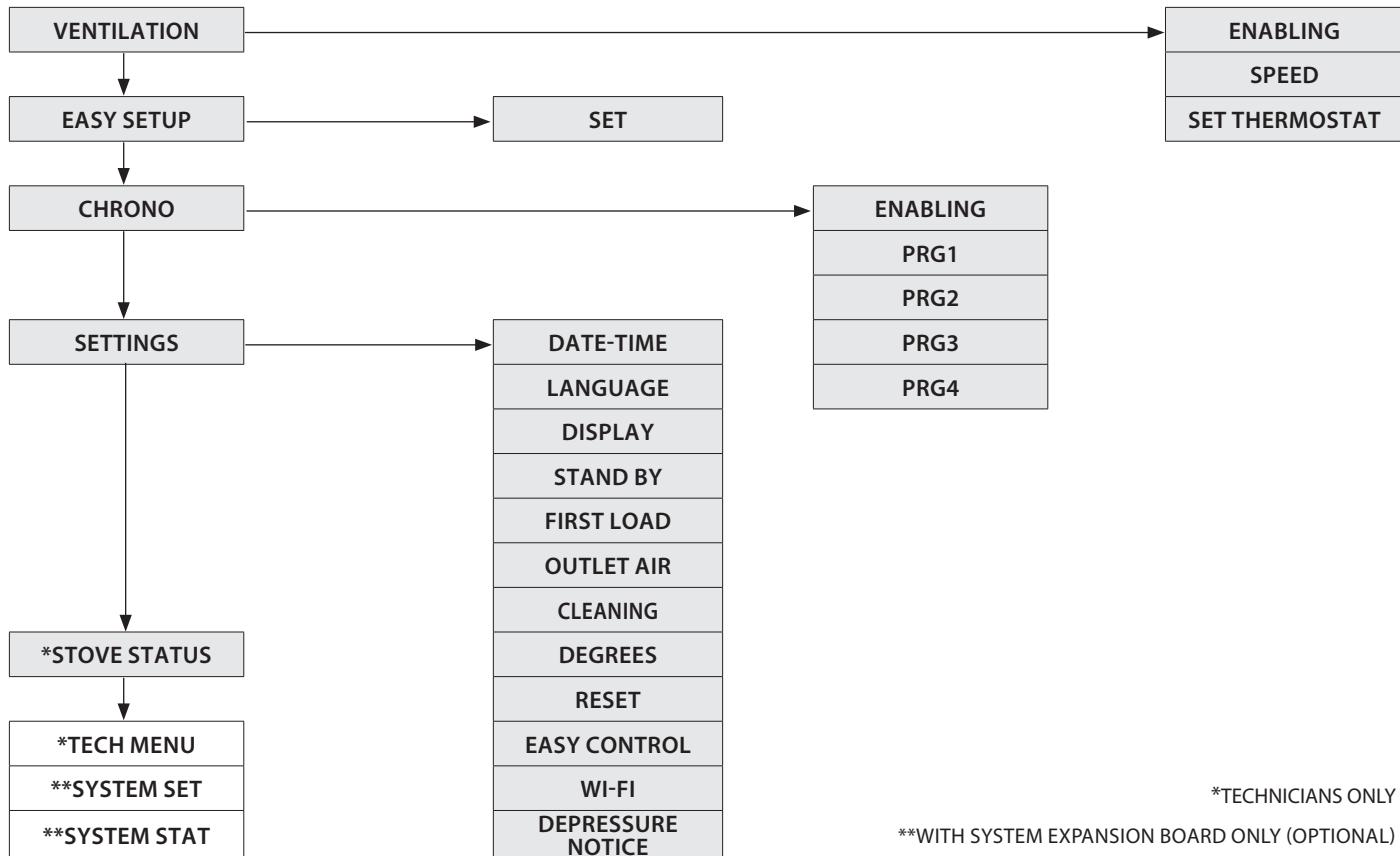


### SCREEN WITH VENTILATION ENABLED



## GENERAL MENU

KEY	FUNCTION
	Scroll through parameters Modify settings
	On - off key
	Back - exit key
	Access menu key



\*TECHNICIANS ONLY

\*\*WITH SYSTEM EXPANSION BOARD ONLY (OPTIONAL)

## GENERAL WARNINGS

### Advice to follow for the first start-ups of the product:

During the first hours of operation, there may be some smoke or odours, but they are due to the normal "thermal break-in" process. During this process, the duration of which changes depending on the product, it is recommended to:

- ◆ Ventilate the room well
- ◆ If present, remove any majolica or natural stone parts from the top part of the product
- ◆ Activate the product at the maximum power and temperature
- ◆ Avoid remaining in the room for a long time
- ◆ Do not touch the surfaces of the product

### Notes:

The process is completed after a few heating/cooling cycles. For combustion, do not use elements or substances other than those indicated in the manual.

### Before turning on the product, it is necessary to perform the following checks:

- ◆ If it is intended to be connected to a hydraulic system, it must be complete and fully functional and in compliance with the instructions given in the product manual and with the relevant regulations in force.
- ◆ The pellet hopper must be fully loaded
- ◆ The combustion chamber and the burn pot must be clean
- ◆ Make sure that the fire holder, the ash drawer and the pellet hopper close hermetically (if present in the hermetic version); they must be closed and there must be no foreign bodies in the sealing elements and gaskets.
- ◆ Check that the power cord is properly connected
- ◆ The switch (if present) must be set to position "1".

 DO NOT USE ANY TYPE OF FLAMMABLE LIQUIDS FOR IGNITION!

DO NOT ALLOW THE BAG OF PELLETS TO COME INTO CONTACT WITH THE BOILING HOT STOVE DURING THE FILLING PHASE!

IN THE EVENT OF CONTINUED FAILURE TO LIGHT, CONTACT AN AUTHORISED TECHNICIAN.

## FIRST IGNITION SETTINGS

After connecting the power cord at the back of the generator, turn the switch (if any) to position (I). The switch is used to power the heat generator board.

### DATE-TIME

This menu allows the date and time to be set.

To set: OK > SETTINGS > DATE-TIME

### LANGUAGE

This menu allows the preferred language to be selected.

To set: OK > SETTINGS > LANGUAGE

The languages available are: Italian - English - German - French - Spanish - Portuguese - Danish - Estonian - Croatian - Slovenian - Dutch - Polish - Czech.

### DEGREES

This menu allows you to set the desired unit of measurement.

To set: OK > SETTINGS > DEGREES

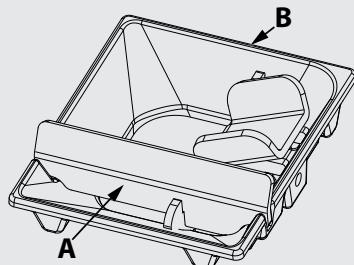
#### NO IGNITION



THE APPLIANCE MAY FAIL TO LIGHT BECAUSE THE AUGER IS EMPTY AND NOT ALWAYS ABLE TO LOAD THE BURN POT FAST ENOUGH WITH THE PELLETS NEEDED FOR NORMAL IGNITION.  
IF THE PROBLEM OCCURS AFTER ONLY A FEW MONTHS OF OPERATION, CHECK THAT THE ROUTINE CLEANING DESCRIBED IN THE STOVE HANDBOOK HAS BEEN CARRIED OUT CORRECTLY



IT IS FORBIDDEN TO USE THE DEVICE WITHOUT A PARTITION / FLAME GUARD (A) AND PELLET CHUTE ASSEMBLY (B).  
REMOVAL WILL COMPROMISE THE SAFETY OF THE PRODUCT AND RESULT IN THE IMMEDIATE NULLIFICATION OF THE WARRANTY PERIOD.  
IN THE EVENT OF WEAR OR DETERIORATION, ASK THE AFTER-SALES SERVICE TO REPLACE THE PART  
(REPLACEMENT DOES NOT FALL WITHIN THE PRODUCT WARRANTY AS THE PART IS SUBJECT TO WEAR).



## OPERATION AND LOGIC

### IGNITION

Once the previously listed points have been checked, press key  for three seconds to ignite the stove.

15 minutes are available for the ignition phase. After ignition and after the control temperature has been reached, the stove interrupts the ignition phase and switches to PREPARATION.

### PREPARATION

During the PREPARATION phase, the stove stabilises combustion, increasing it progressively, to then start ventilation and switch to WORK.

### WORK

During the work phase, the stove reaches the set power set; see following item.

### REGULATION OF SET POWER

The set power has 5 operating levels; when the  key is pressed, the set power is displayed; it can be changed using the  or  keys. Power 1 = minimum level - Power 5 = maximum level.

The change must be confirmed by pressing the key **OK**.

### ADJUSTMENT OF SET H2O TEMPERATURE

Set the boiler temperature from 65 - 80°C (set using keys 4 - 5). Press the  key to display the temperature set; this can be modified using the  or  keys.

The change must be confirmed by pressing the key **OK**.

### PUMP OPERATION

The pump activates water circulation when the temperature of the water inside the stove reaches approx. 60°C. As the pump always functions above 60°, it is recommended to keep a heating area open at all times to allow for uniform operation, preventing blocks due to overheating. Normally this area is defined as the "safety zone".

### ROOM TEMPERATURE (in the models envisioned)

IT IS possible to activate/deactivate the front ventilation and control the room temperature via the Room probe (integrated in the handheld device). (See the chapter "ventilation" on the following pages.)

### BURN POT CLEANING

During the working phase, the stove has an internal timer, which after a pre-set period of time cleans the burn pot.

This phase is shown on the display, it interrupts pellet loading and increases the fumes exhaust motor for a certain period of time. When the cleaning phase is finished, the stove will re-start automatically and continue the working phase, returning to the selected power level.

### MODULATION and H-OFF

As the water temperature approaches the set point, the boiler starts to modulate automatically bringing itself to the minimum power. If the temperature increases beyond the set point, it will automatically switch off indicating **H-OFF** and will automatically go back on when the temperature drops below the set point.

### SWITCH-OFF

Press the  key for three seconds.

Once this operation has been performed, the appliance automatically enters the switch-off phase, blocking the supply of pellets.

**The flue gas exhaust motor and the hot air flow motor will remain on until the stove temperature has dropped below the default parameters.**

### REIGNITION

The stove can only be re-ignited automatically or manually when the cooling cycle conditions and the preset timer have been satisfied.

## ADDITIONAL THERMOSTAT

### **N.B. : INSTALLATION MUST BE PERFORMED BY AN AUTHORISED TECHNICIAN**

It is possible to control the temperature of a room adjacent to the room where the stove is positioned; simply connect a thermostat following the procedure described in the following section (it is advisable to place the optional mechanical thermostat at a height off the ground equal to 1.50 m). Stove operation with the external thermostat connected in the clamp TA can be different depending on the activation or deactivation of the STAND BY function.

**By factory default, the clamp TA is jumpered, therefore it always has closed contact (on request).**

### **ADDITIONAL THERMOSTAT FUNCTIONING WITH STAND BY ACTIVE**

When the STAND BY function is active, the STBY icon will be on. When the contact or external thermostat is not satisfied (open contact / temperature reached), the stove will switch off. If the contact or external thermostat switches to the "not satisfied" status (closed contact / temperature to be reached) it will re-ignite.

**NB: stove operation depends on the temperature of the water inside the stove and relative factory setting restrictions. If the stove is in H-OFF (water temperature reached), any additional contact or thermostat request will be ignored.**

### **ADDITIONAL THERMOSTAT OPERATION WITH STAND BY DEACTIVATED**

When the STAND BY function is not active, the STBY icon will be off.

When the contact or external thermostat is satisfied (open contact / temperature reached), the stove will go to minimum. If the contact or external thermostat switches to the "not satisfied" status (closed contact / temperature to be reached) it will start to work again at the pre-set power.

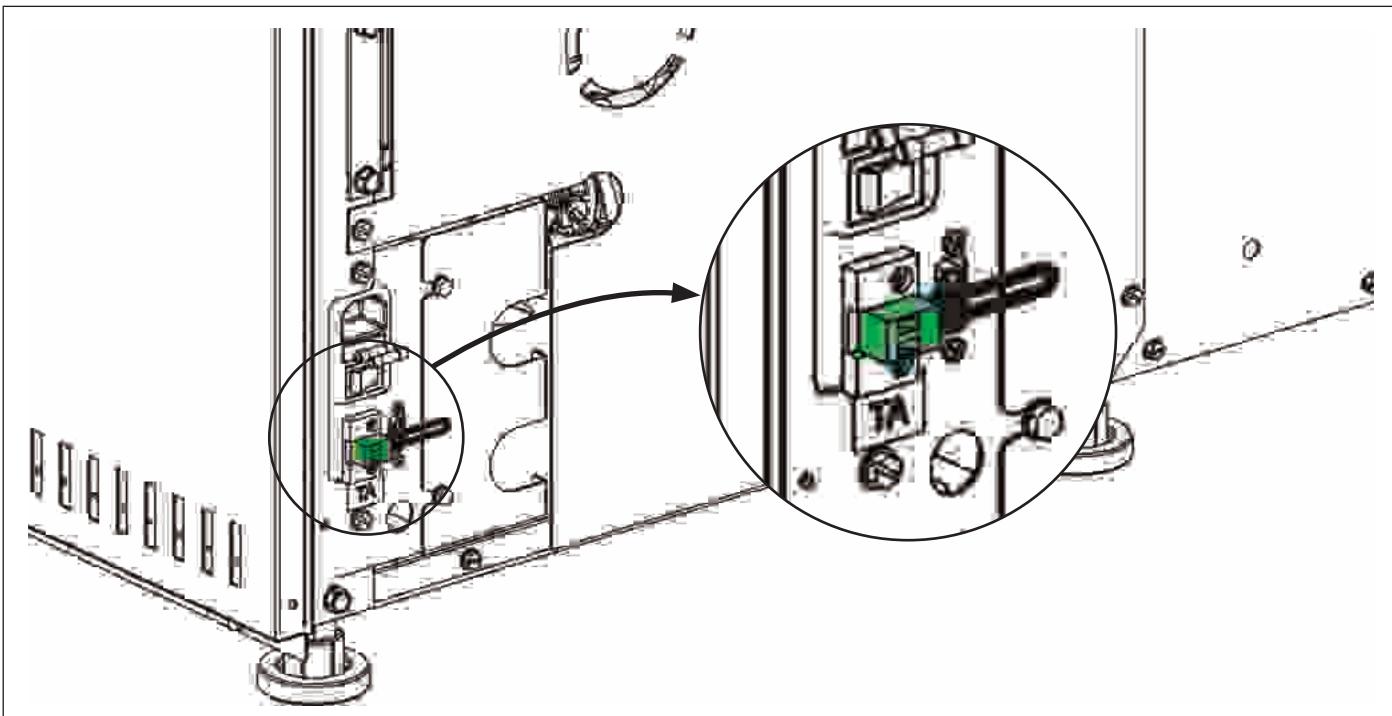
**NB: stove operation depends on the temperature of the water inside the stove and relative factory setting restrictions. If the stove is in H-OFF (water temperature reached), any additional contact or thermostat request will be ignored.**

### **ADDITIONAL THERMOSTAT INSTALLATION**

- ◆ A mechanical or digital thermostat with a "normally open" input is required.
- ◆ Remove the plug from the socket.
- ◆ Using the figure as a reference, connect the two thermostat cables (clean contact - no 230 V!).
- ◆ Connect the power to the stove again.



TO ACTIVATE STAND BY, REFER TO THE "SETTINGS" CHAPTER



## VENTILATION

This menu allows to enable or disable the operation of the tangential motor and to adjust the speed (-2, -1, 0, +1, +2) of the front fan.

The **SET THERMOSTAT** allows to set the room temperature to be reached (front ventilation must be active).

Once the temperature set in **SET TEMPERATURE** has been reached, the ventilation will turn OFF and then it will turn back on when required. Range: 07 - 37°C.

### ENABLING CONTROLS PROCEDURE

- ♦ *OK > VENTILATION > ENABLING > SET*

### SPEED CONTROLS PROCEDURE

- ♦ *OK > VENTILATION > SPEED > SET*

### SET THERMOSTAT CONTROLS PROCEDURE

- ♦ *OK > VENTILATION > SET THERMOSTAT > SET*

## EASY SETUP

The volumetric weight of the pellet is the ratio between the weight and the volume of the pellet. This ratio may change while keeping the quality of the pellet unchanged. By using the EASY SETUP function, it is possible to dose the pellets by increasing or decreasing the preset values.

In the stove program, the available values go from “- 3” to “+ 3”; all stoves are calibrated during production with the optimal value which is 0

If you notice an excessive deposit on the burning pot, access the EASY SETUP program and lower the value to “- 1”; then wait until the next day and if there is no improvement, decrease again, to a maximum of “- 3”.

If, on the other hand, it is necessary to increase the pellet dosage, switch the factory value from “0” to “+ 1, + 2, + 3” as required.

To set: *OK > EASY SETUP*

EXCESSIVE PELLET DEPOSIT IN BURN POT			NORMAL OPERATION	MINIMUM PELLET DEPOSIT IN BURN POT		
-3	-2	-1	0	+1	+2	+3
THIRD DECREASE RANGE IF THE FIRST TWO ARE INSUFFICIENT	SECOND DECREASE RANGE IF THE FIRST IS INSUFFICIENT	FIRST DECREASE RANGE (TEST FOR 1 DAY)	OPTIMAL FACTORY VALUE	FIRST INCREASE RANGE	SECOND INCREASE RANGE IF THE FIRST IS INSUFFICIENT	THIRD INCREASE RANGE IF THE FIRST TWO ARE INSUFFICIENT

N.B.: IF THESE ADJUSTMENTS DO NOT SOLVE THE PROBLEM OF PELLET DEPOSITS IN THE BURN POT, PLEASE CONTACT YOUR LOCAL SERVICE CENTRE.

## CHRONO

This function allows stove ignition and switch-off to be automatically programmed. The factory setting for CHRONO is off.

The chrono allows the programming of 4 time slots per day, which can be used every day of the week. **For each time slot, it is possible to set ignition and switch-off times, specific days of application, desired temperature and set power. Current day and time settings are essential for the correct operation of the Chrono.**

### Recommendations

Before using the chrono function, you must set the current date and time, so check that you have followed the points listed in the sub-chapter "DATE-TIME". To use the chrono function correctly, it must not only be programmed, but also enabled. The 4 time slots can be overlapped using the ignition and switch-off time settings. In this way, it is possible to create a combination of time slots with different temperatures and power levels, without changing the status of the stove.

N.B.: in the case of overlapping time slots, the stove will remain on until the last switch-off time.

### ENABLING

Allows the chrono and the different stove time slots to be enabled/disabled.

To set: *OK > CHRONO > ENABLING*.

### PRG 1-4

The switch-on and switch-off time along with the days of use of the programmed time slot and the desired water temperature (65 - 80°C) can be set. Current day and time settings are essential for the correct operation of the Chrono.

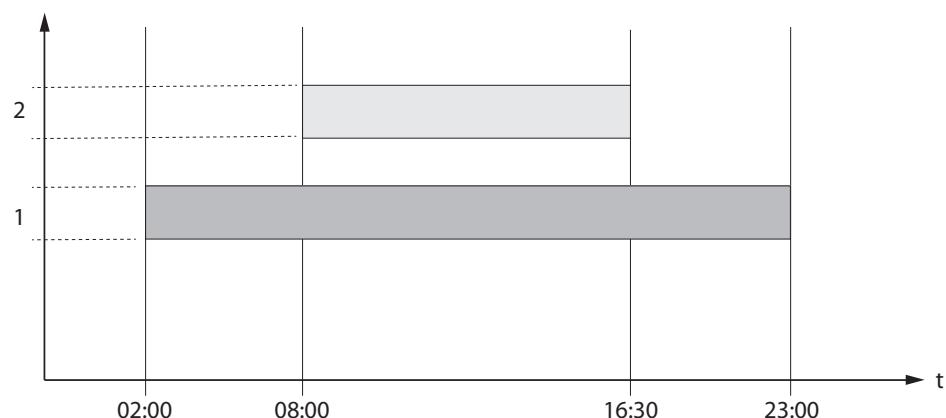
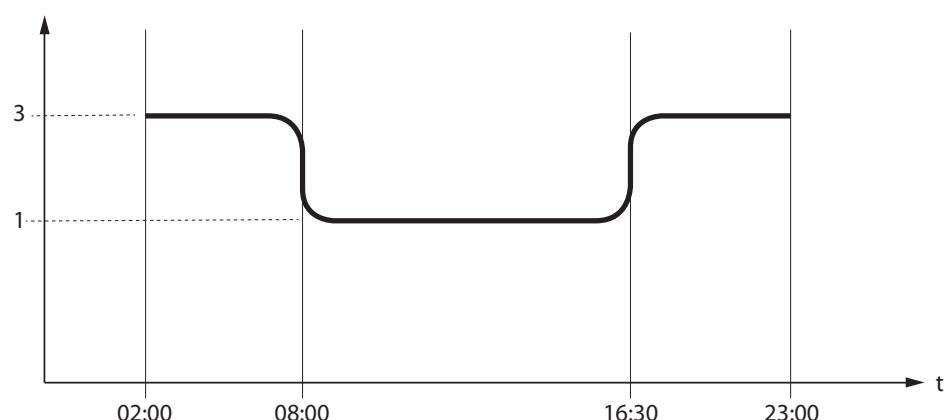
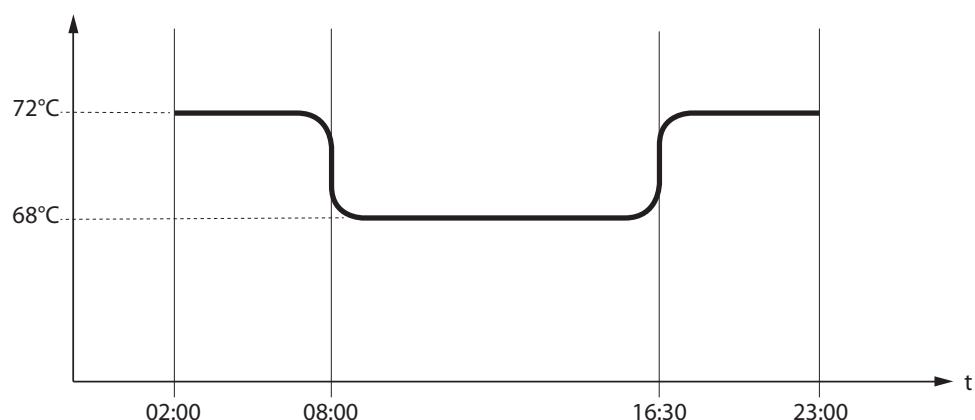
To set: *OK > SET CHRONO > SET PRG1-4*.

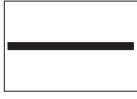
CHRONO	>	ENABLING	>	PRG1	ON/OFF	Enable/disable PRG 1
	v			PRG2	ON/OFF	Enable/disable PRG 2
	v			PRG3	ON/OFF	Enable/disable PRG 3
	v			PRG4	ON/OFF	Enable/disable PRG 4
		PRG1	>	START PRG1	OFF-00:00	Ignition time PRG1
	v			STOP PRG1	OFF-00:00	Switch-off time PRG1
	v			MONDAY...SUNDAY	ON/OFF	Enable/disable the days of PRG1
	v			SET PRG1	65°C - 80°C (149°F - 176°F)	SET H2O PRG1
	v			POWER PRG1	1-5	Set power PRG1
		PRG2	>	START PRG2	OFF-00:00	Ignition time PRG2
	v			STOP PRG2	OFF-00:00	Switch-off time PRG2
	v			MONDAY...SUNDAY	ON/OFF	Enable/disable the days of PRG2
	v			SET PRG2	65°C - 80°C (149°F - 176°F)	SET H2O PRG2
	v			POWER PRG2	1-5	Set power PRG2
		PRG3	>	START PRG3	OFF-00:00	Ignition time PRG3
	v			STOP PRG3	OFF-00:00	Switch-off time PRG3
	v			MONDAY...SUNDAY	ON/OFF	Enable/disable the days of PRG3
	v			SET PRG3	65°C - 80°C (149°F - 176°F)	SET H2O PRG3
	v			POWER PRG3	1-5	Set power PRG3
		PRG4	>	START PRG4	OFF-00:00	Ignition time PRG4
				STOP PRG4	OFF-00:00	Switch-off time PRG4
				MONDAY...SUNDAY	ON/OFF	Enable/disable the days of PRG4
				SET PRG4	65°C - 80°C (149°F - 176°F)	SET H2O PRG4
				POWER PRG4	1-5	Set power PRG4



WHEN THE WEEKLY PROGRAMMER IS ACTIVE, THE RELATIVE ICON WILL BE SHOWN ON THE RADIO CONTROL DISPLAY.



**EXAMPLE OF CHRONO OVERLAPPING TIMES/SLOTS**
**TIME SLOT**

**SET POWER**

**SET H<sub>2</sub>O**


	Time slot 1	Start 02:00 Stop 23:00	Power 3 - SET H <sub>2</sub> O 72°C
	Time slot 2	Start 08:00 Stop 16:30	Power 1 - SET H <sub>2</sub> O 68°C
	Stove operation		

## SETTINGS

- **DATE-TIME**
- **LANGUAGE**
- **SET DEGREES**

*SEE CHAPTER: FIRST IGNITION SETTINGS*

### DISPLAY

The "DISPLAY" menu allows:



- Adjustment of Display contrast.
- Activation/Deactivation of backlight.
- Enabling/disabling of acoustic signal.

**STAND-BY** • Setting of the timer to turn off the Display backlight.

**RESET** • Setting of the timer to turn off the Display (sleep mode).

To set: *OK > SETTINGS > DISPLAY*.

*SETTING THE SHORT TIME PROMOTES BATTERY LIFE*



### STAND BY

The Stby function is used in the event the stove needs to turn off immediately or modulation via additional thermostat. STBY will be seen on the display, which indicates that the function is active.

To set: *OK > SETTINGS > STAND BY*.



**THIS FUNCTION IS NOT RECOMMENDED FOR ENVIRONMENTS WITH SCARCE THERMAL INSULATION OR WHERE THERE MAY BE SHARP FLUCTUATIONS IN TEMPERATURE: DOORS OR WINDOWS CONSTANTLY OPENED.**

### FIRST LOAD

This function allows the auger to be filled, thus facilitating first stove ignition phases, or in the event the pellet hopper is empty. With the stove cold and "OFF", make sure the pellets have been introduced inside the hopper and activate the FIRST LOAD function, then confirm by pressing OK.

To interrupt continuous loading, simply press the key for 3 seconds.

To set: *OK > SETTINGS > FIRST LOAD*.



**ALWAYS REMEMBER TO EMPTY THE BURN POT COMPLETELY BEFORE IGNITION AND MAKE SURE THAT THE BURN POT HOLES ARE ALL CLEAR. NEVER EMPTY THE BURN POT INSIDE THE PELLET HOPPER, FIRE RISK!**

### OUTLET AIR

This function allows any air in the stove to be discharged. By activating the pump function, it will be powered alternatively with 30 second work phases and 30 second stop phases for 15 minutes. With the stove cold and "OFF", activate the OUTLET AIR function, confirming with OK. To interrupt, simply press the key for 3 seconds.

To set: *OK > SETTINGS > OUTLET AIR*

Warning: before activating the "OUTLET AIR" function, be sure to have opened the vent screw of the manual relief valve.

### CLEANING

This function allows to open the burn pot base, facilitating the combustion chamber cleaning operations.

With the stove cold and switched "OFF", activate the CLEANING function.

Once the burn pot bottom has been opened completely, scrape the walls of the combustion chamber using the special tool supplied and let the residual ash drop into the ash drawer.

To set: *OK > SETTINGS > CLEANING*

Once the cleaning operation has been completed, close the fire door and press the key for 3 seconds to finish and wait for the main screen to reappear.

**OPEN THE DOOR ONLY WHEN THE OPERATION IS COMPLETE! THE DISPLAY WILL INDICATE THAT THE DOOR HAS BEEN OPENED!**

## RESET

Allows the user to reset all editable values to the default values.

To set: *OK > SETTINGS > RESET*.

---

## EASY CONTROL

The function allows for two values to be set:

- ♦ OFF (disabled - factory default)
- ♦ ON (enabled)

Activation (**EASY CONTROL = ON**) is recommended in the event that there is an excessive formation of combustion residues in the flue during operation at reduced power (see FLUE EXHAUST chapter).

**Caution! It is advisable to activate the EASY CONTROL function under the supervision of a qualified technician.**

To set: *OK > SETTINGS > EASY CONTROL*.

---

## WI-FI

Allows you to change the settings for the Wi-Fi module integrated in the emergency console.

The stove is equipped with a Wi-Fi module built into the emergency console and it has a "Wi-Fi" LED specifically dedicated to the monitoring and diagnostics of the Wi-Fi function.

The entire Wi-Fi interface is grouped under the *Settings -> W-Fi* menu

The configuration must be made using the Total Control 3.0 App, which can be downloaded from Play Store or Apple Store.

<https://www.lanordica-extraflame.com>

- ♦ **RESET**

The setting allows you to reset the Wi-Fi to factory settings

To set: *OK > SETTINGS > WIFI > RESET > OK*

- ♦ **WPS**

The setting allows for the Wi-Fi module to be connected to the home router without having to enter the password. However, for correct operation, it is necessary to register the product via the Total Control 3.0 App.

Once the WPS is activated, the Wi-Fi module will wait to receive the Wi-Fi configuration directly from the home router. The router, which must be set up for this feature, usually has a WPS button to press.

To set: *OK > SETTINGS > WIFI > WPS > ON*

- ♦ **INFO**

Three pieces of information about the Wi-Fi function are available in this menu.

To set: *OK > SETTINGS > WIFI > INFO*

- **MAC:** Unique identification code of the Wi-Fi device

- **STATUS:** Wi-Fi module status; it can have the following values:

- ♦ **SERIAL KO:** no communication between Wi-Fi module and stove board
- ♦ **DISCONNECTED:** The Wi-Fi module is not configured for internet access
- ♦ **STATION OK:** The Wi-Fi module is connected to the home router, but has no access to the cloud (e.g. no Internet access, firewall issues)
- ♦ **CLOUD OK:** The Wi-Fi module is connected to the cloud

The firmware revision number of the Wi-Fi module is also indicated.

- **RSSI:** Wi-Fi signal strength, when it is correctly connected to an access point

*The RSSI value is expressed in decibels (dB) as a negative number which is typically in the range between -60dB (excellent signal) and -85dB (very poor signal). If the signal is poor, we recommend purchasing a Wi-Fi repeater to avoid any connectivity problems*

## OPERATION AND SOLUTIONS

The Wi-Fi module identifies the operation status using the green "Wi-Fi" LED. The table below shows how to interpret the information provided and the solutions to implement

WI-FI LED STATUS	EXPLANATION	SOLUTION
OFF	Module off	Check the stove power supply Contact the technical support service
FLASHING LED	Connection in progress <i>The module is attempting to make the connection to the home network selected.</i>	The module may take up to one minute to make the connection. If the problem persists, run a reset and reconfigure the product
ON	The product is connected to the server	-

## DEPRESSURE NOTICE

It allows you to activate the buzzer for acoustic warnings if the door or the hopper are open.

*Please note: Activation can reduce battery life by 30%.*

*The battery life depends on the usage*

To set: OK > SETTINGS > DEPRESSURE NOTICE.

## ADDITIONAL FUNCTIONS

### OPTIONAL ADDITIONAL DATA SHEET

The manufacturer has an optional additional data sheet which allows the boiler to have the following additional system management functions. The table below indicates the various possibilities that the optional can offer.

The connection must be made by a qualified technician directly on the data sheet.

Contact the dealer for further details.

DHW Storage Management	✓
BUFFER TANK Management	✓
3 heating areas	✓
Instant DHW option	✓
Buffer tank pump or 4th heating area management	✓
Anti-legionella management for DHW storage	✓
DHW storage chrono management	✓
Auxiliary output management and control	✓

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[WWW.LANORDICA-EXTRAFLAME.COM](http://WWW.LANORDICA-EXTRAFLAME.COM)

## CLEANING AND MAINTENANCE

### ALWAYS FOLLOW THE INSTRUCTIONS IN COMPLETE SAFETY!

- ◆ Make sure that the power cord is unplugged because the generator may have been programmed to switch on.
- ◆ That the generator is cold all over.
- ◆ That the ashes are completely cold.
- ◆ Ensure efficient air exchange in the room during the product cleaning operations.
- ◆ Poor cleaning will compromise correct operation and safety!

## MAINTENANCE

For correct operation, the generator must undergo routine maintenance by a qualified technician, at least once a year. The periodic inspection and maintenance operations must always be performed by specialised, qualified technicians, who operate in accordance with the laws in force and the instructions given in this use and maintenance manual.



**FUMES FROM BLOCKED FLUES ARE DANGEROUS!!**

**KEEP THE CHIMNEY AND FLUE CLEAR AND CLEAN IN ACCORDANCE WITH THE INSTRUCTIONS.**

**EVERY YEAR, HAVE THE FUME EXTRACTION SYSTEM, FLUE PIPES AND T-FITTINGS, INCLUDING THE INSPECTION CAPS, CLEANED. IF PRESENT, ALSO CLEAN THE ELBOWS AND HORIZONTAL SECTIONS!**

**THE GENERATOR CLEANING FREQUENCY IS INDICATIVE! IT DEPENDS ON THE QUALITY OF THE PELLETS AND FREQUENCY OF USE.**

**THESE OPERATIONS MAY SOMETIMES NEED TO BE PERFORMED MORE OFTEN**

## PERIODIC CLEANING UNDER USER'S RESPONSIBILITY

The periodic cleaning operations, as indicated in this use and maintenance manual, must be performed with the utmost care after reading the instructions, procedures and frequency described in this use and maintenance manual.

### CLEANING THE SURFACES AND COVERING

#### Never use abrasive or chemically aggressive detergents for cleaning!

The surfaces must be cleaned when the generator and coating are completely cold. For the maintenance of the surfaces and metal parts, simply use a cloth dampened with water or water and neutral soap.

Failure to comply with these instructions may damage the surfaces of the generator and cause the invalidation of the warranty.

### CLEANING THE CERAMIC GLASS

#### Never use abrasive or chemically aggressive detergents for cleaning!

The ceramic glass must be cleaned when the glass is completely cold.

To clean the ceramic glass, simply use a dry brush and some damp newspaper dipped in ash. If the glass is very dirty, use a specific cleaning agent for ceramic glass. Spray a small amount on a cloth and use it on the ceramic glass. Do not spray the cleaning agent or any other liquid directly on the glass or seals!

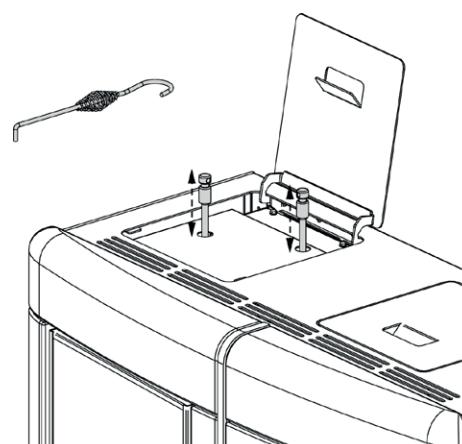
Failure to comply with these instructions may damage the surfaces of the generator and cause the invalidation of the warranty

### CLEANING THE PELLET HOPPER

When the hopper is completely empty, disconnect the generator power cord, remove any residue (dust, debris, etc.) from the empty hopper before refilling. Images are for illustrative purposes.

### SCRAPERS

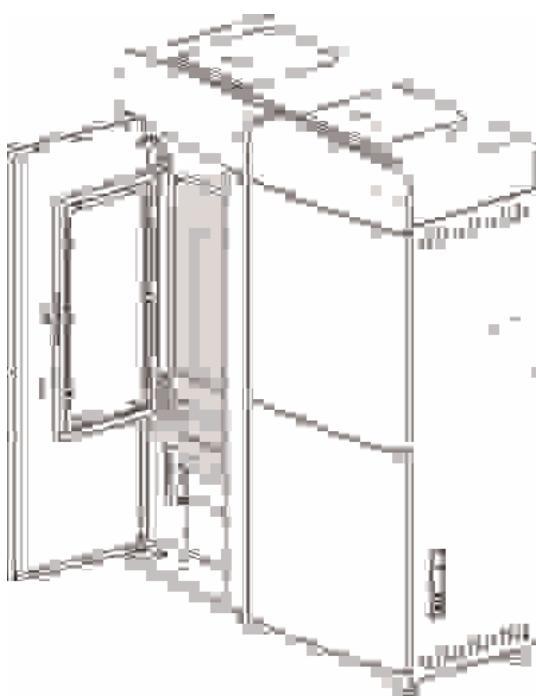
The heat exchangers must only be cleaned when cold! Cleaning them ensures constant heat output over time. This maintenance must be performed at least once a day. To do this, use the scrapers positioned in the upper part of the generator, making upward and downward movements several times.



## BURN POT AND COMBUSTION CHAMBER

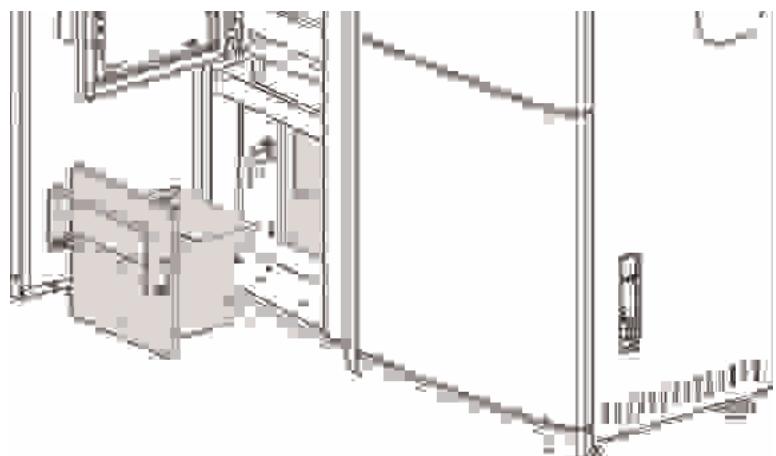
By means of a mechanical system, the burn pot is cleaned automatically at preset intervals. It is however advisable to remove any residues by using a vacuum cleaner.

- ♦ Suck the ash deposited between the partition and the fire holder.
- ♦ Remove separator and pellet chute assembly.
- ♦ Clean the combustion chamber and the bottom of the burn pot completely, using a suitable vacuum cleaner.



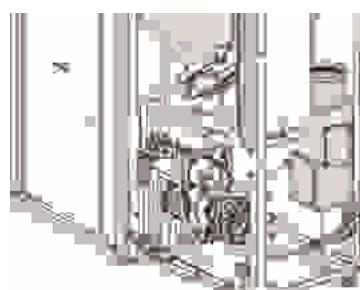
## ASH DRAWER

- ♦ Remove the ash drawer and empty it into a suitable container.



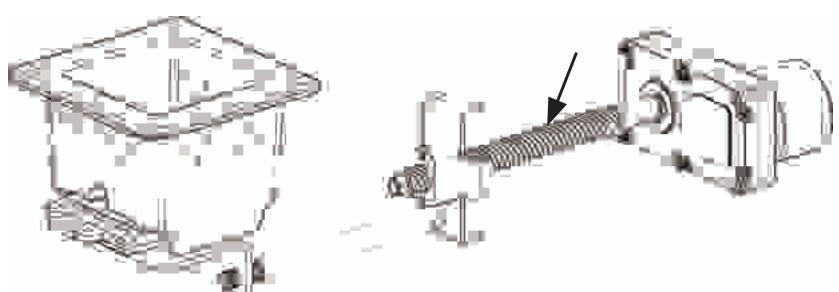
## T-SHAPED FITTING/ FLUE PIPE

Cleaning "T" fitting with inspection cap outside the stove: check and clean at least once a month



## MECHANISM LUBRICATION

When performing routine maintenance at the end of the season, it is advisable to lubricate the mechanism, see picture.

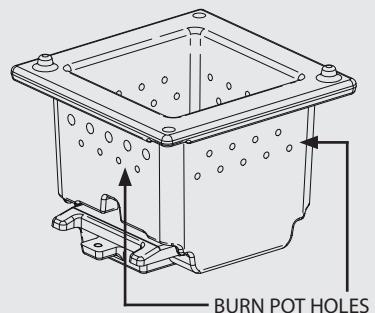




**A CLEAN BURN POT GUARANTEES CORRECT OPERATION!**

BY KEEPING THE BURN POT AND ITS HOLES CONSTANTLY CLEAN AND FREE OF COMBUSTION RESIDUE, EXCELLENT COMBUSTION IS GUARANTEED OVER TIME, THUS PREVENTING ANY GENERATOR MALFUNCTIONS THAT MAY REQUIRE TECHNICAL ASSISTANCE.

THE "EASY SETUP" FUNCTION IN THE USER MENU CAN BE USED TO ADAPT COMBUSTION ACCORDING TO THE NEEDS DESCRIBED.

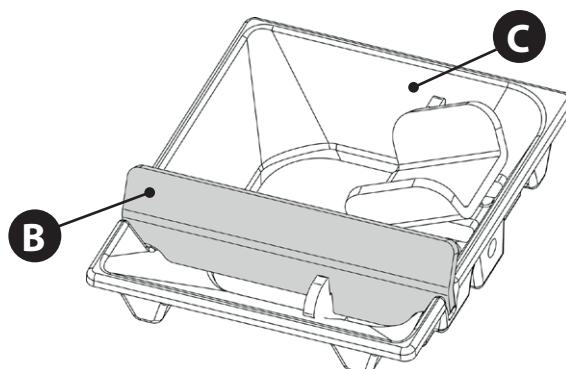
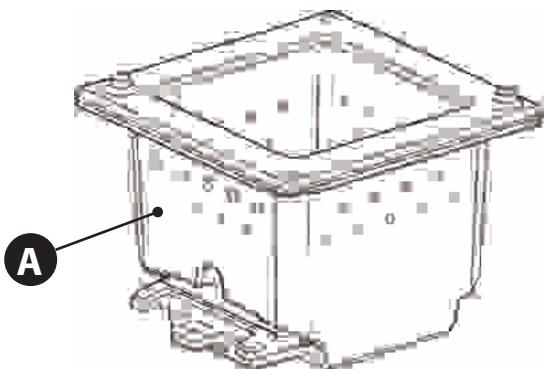


**IF THE POWER CORD IS DAMAGED, IT MUST BE REPLACED BY THE SERVICE CENTRE OR BY A SIMILARLY QUALIFIED PERSON, SO AS TO AVOID ALL RISKS.**

## BURN POT DETAILS

The burn pot consists of several parts:

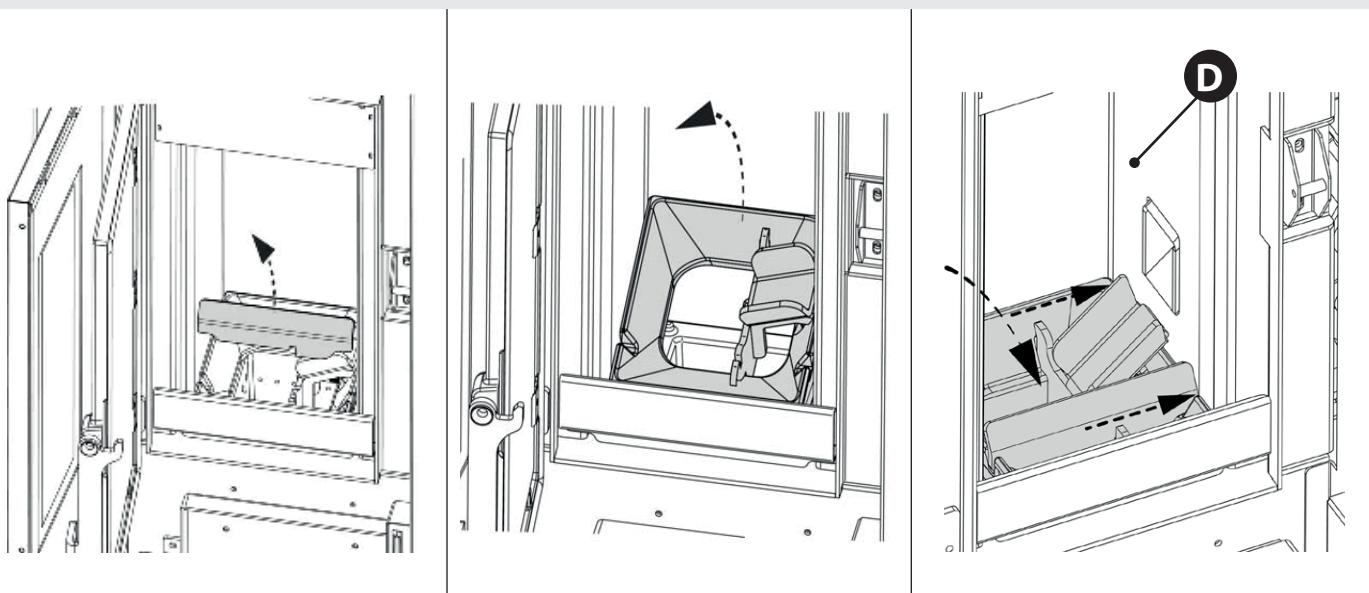
The burn pot (A) fixed, not removable, where combustion takes place physically. A separator/flame guard (B) and a pellet chute assembly (C).



To clean the burn pot, the separator must be removed along with the assembly, lifting it from the rear (see illustration below). Perform the same operation in reverse order to re-assemble.

After having put it back in place, always make sure:

- that the pellet chute assembly rests correctly on the burn pot and not on any other surface of the combustion chamber.
- that the chute assembly has been pushed towards the fire wall (D) (to the right).





**THE PELLET HOPPER GASKETS, BURN POT AND FIRE DOOR GUARANTEE CORRECT STOVE OPERATION. THESE NEED TO BE PERIODICALLY CHECKED BY THE USER. IF THEY ARE WORN OR DAMAGED, REPLACE THEM IMMEDIATELY. THESE OPERATIONS MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.**

PARTS/FREQUENCY	EVERY DAY	EVERY 7 DAYS	EVERY 15 DAYS	EVERY 30 DAYS	EVERY YEAR
SCRAPERS (USER)	X				
BURN POT AND COMBUSTION CHAMBER (USER)		X			
ASH DRAWER (USER)			X		
T-SHAPED FITTING / SMOKE DUCT (TECHNICIAN)				X	
MECHANISM LUBRICATION (TECHNICIAN)					X

One day means an average use of 8h at the rated power.

How often the ash drawer is emptied depends on a number of factors: the type of pellets, the stove output, the use of the stove and the type of installation.



**THE PELLET HOPPER GASKETS, BURN POT AND FIRE DOOR GUARANTEE CORRECT STOVE OPERATION. THEY MUST BE PERIODICALLY CHECKED BY THE USER. IF THEY ARE WORN OR DAMAGED, DO NOT USE THE STOVE UNTIL THEY HAVE BEEN REPLACED.**  
**THESE OPERATIONS MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.**



**IF THE POWER CORD IS DAMAGED, IT MUST BE REPLACED BY THE SERVICE CENTRE OR BY A SIMILARLY QUALIFIED PERSON, SO AS TO AVOID ALL RISKS.**

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## ROUTINE MAINTENANCE PERFORMED BY QUALIFIED TECHNICIANS

**Routine maintenance must be performed at least once a year.**

Since the generator uses pellets as solid fuel, it requires annual routine maintenance, which must be performed by a **Qualified technician, using only original spare parts**.

Failure to comply may jeopardise the safety of the appliance and invalidate the warranty conditions.

By observing the cleaning schedule reserved to the user described in the use and maintenance manual, the generator will be guaranteed correct combustion over time, thus preventing any faults and/or malfunctions which may require subsequent technical assistance. Requests for routine maintenance are not covered by the warranty.

### GASKETS, PELLET HOPPER LID, DOOR, ASH DRAWER AND BURN POT, INSPECTION OF SMOKE DUCTS

The gaskets ensure the proper sealing of the stove and therefore its proper operation.

They must be periodically checked by the user. If they are worn or damaged, do not use the stove until they have been replaced. These operations must be carried out by a qualified technician.

### CONNECTION TO THE FLUE

Annually, or in any case each time the flue pipe needs to be vacuumed and cleaned. If there are horizontal sections, the residue must be removed to prevent it from obstructing the flow of fumes.

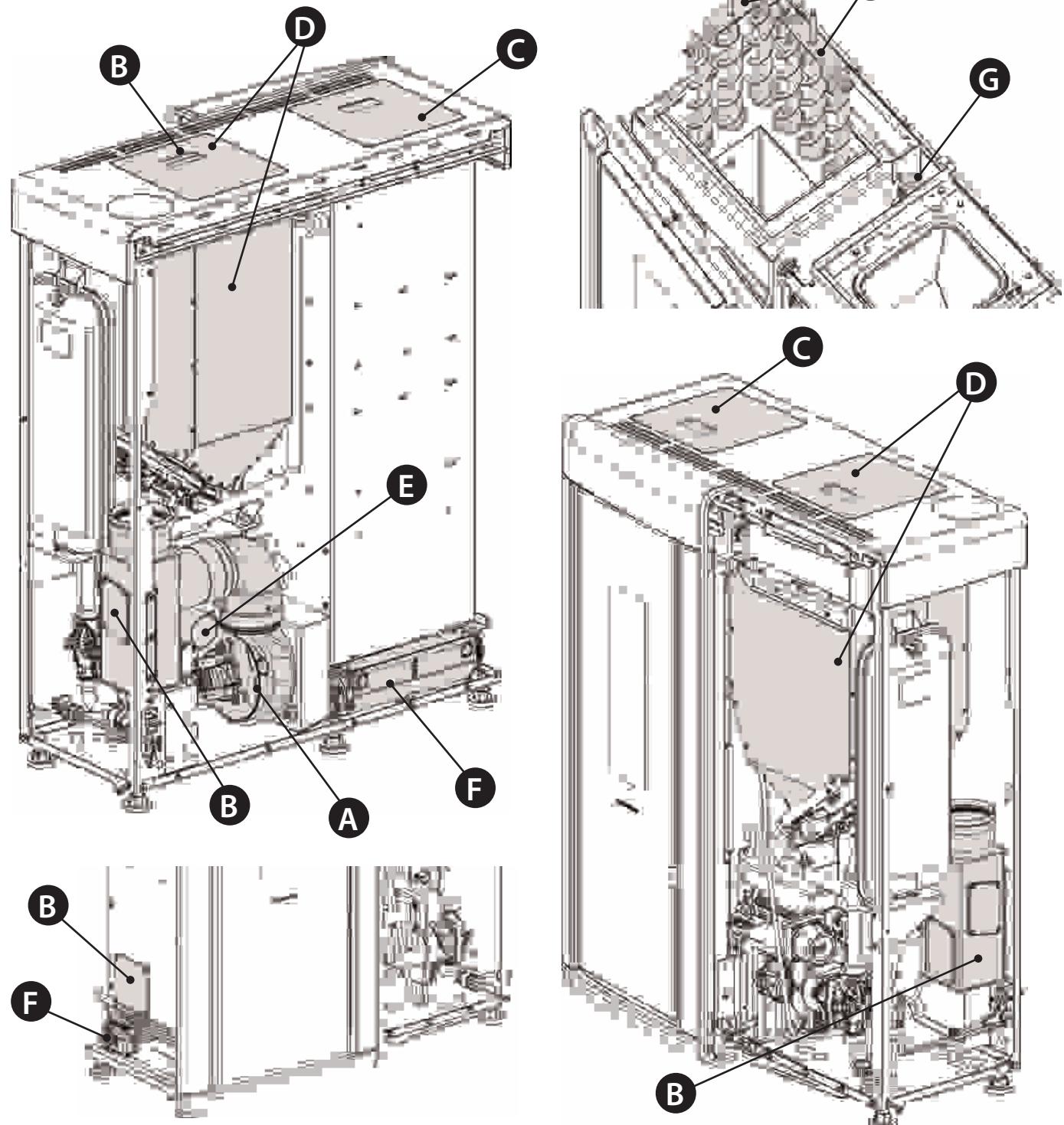
### SHUT-DOWN (END OF SEASON)

At the end of each season, before turning the stove off, it is advisable to completely empty the pellet hopper, removing any pellet residue and dust with a vacuum cleaner.

**Routine maintenance must be performed at least once a year.**

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THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES.



<b>A</b>	Fumes motor (disassembly and cleaning and fumes pipe and "T"), new silicone in the provided points
<b>B</b>	Gaskets, pellet hopper, inspections, ash drawer and door (replace and apply silicone where indicated)
<b>C</b>	Combustion chamber and heat exchanger (full cleaning) including ignition plug pipe
<b>D</b>	Hopper (complete emptying and cleaning).
<b>E</b>	Check air intake pipe and cleaning of the flow sensor
<b>F</b>	Remove the room air fan and remove any dust and pellet residue.
<b>G</b>	Manual relief valve

## DISPLAYS

DISPLAY	REASON
<b>OFF</b>	Generator off
<b>START</b>	The start-up phase is in progress
<b>PELLET LOADING</b>	Continuous pellet feeding is in progress during the ignition phase
<b>IGNITION</b>	The ignition phase is in progress
<b>PREPARATION</b>	The <b>PREPARATION</b> phase is in progress
<b>WORK</b>	The normal work phase is in progress
<b>MODULATION</b>	The generator is working at minimum
<b>**BURN POT CLEANING</b>	Automatic burn pot cleaning is in progress
<b>FINAL CLEANING</b>	The final cleaning is in progress
<b>STAND BY</b>	Generator off waiting for re-ignition due to an external thermostat
<b>COOLING - STAND BY</b>	A new ignition is attempted when the generator has just been switched off. When the generator switches off, one must wait for the complete shutdown of the fumes motor, then clean the burn pot. The generator can only be re-ignited when these operations have been performed.
<b>H-OFF</b>	Generator off due to water temperature over set.
<b>**T-AMB</b>	Displays the room temperature (in models with this function).
<b>*T - OFF</b>	Generator off waiting for re-ignition due to all requests met
<b>BLACK OUT STAND BY</b>	The generator is cooling after a power cut. Once cooling is completed, it will re-start automatically
<b>ANTI-FREEZING</b>	The anti-freezing function is in progress as the H2O temperature is below the factory set threshold the pump is active until the water reaches the pre-set factory parameter +2°C
<b>ANTI-BLOCK</b>	The pump anti-block function is in progress (only if the generator has been in an OFF state for at least 96 hours); the pump is activated for the time pre-set by the manufacturer, in order to prevent it from blocking
<b>AUTO BLOW</b>	The automatic blow is active
<b>CLOSE STOVE DOOR</b>	This indication means that you have 60 seconds to close the hatch/door and the pellet lid. Once 60 seconds have passed, during ignition the stove will go into "DEPR ALARM" mode, while during normal operation the stove will go into "COOLING STAND BY" mode before automatically resuming operation once the conditions are satisfied (cold stove, etc.).
<b>CLOSE HOPPER</b>	Contact after-sales centre
<b>DEACT.BULB THERM.</b>	

\* if there is an additional system data sheet

\*\* on models with this function.

## ALARMS

DISPLAY	EXPLANATION	SOLUTION
	Indicates the presence of an alarm.	On: indicates the presence of an alarm Flashing: indicates the deactivation of the depression sensor. The alarm can be reset only if the fumes motor has stopped and 15 minutes have passed since the alarm was displayed, by pressing the key 1/ON/  for 3 seconds.
<b>FUMES MOTOR FAULT</b>	Fumes motor fault	Contact after-sales centre
<b>FUMES PROBE</b>	Fumes probe fault.	Contact after-sales centre
<b>HOT FUMES</b>	High fumes temperature	Check pellet feed (see "Pellet feed adjustment"). If the problem cannot be solved, contact an authorised technician.
<b>**CHAMB PROBE</b>	Chamber probe fault.	Contact the after-sales centre.
<b>NO IGNITION</b>	The pellet hopper is empty. Pellet feed calibration inadequate. Thermostat bulbs tripped.	Check for the presence of pellets in the hopper. Adjust the pellet flow (see "Pellet load adjustment"). Check the procedures described in the "Ignition" chapter. Check bulb thermostats (see chapter on Resetting)
<b>NO IGNITION BLACK OUT</b>	No power during the ignition phase.	Turn the stove off using key 1 and repeat the procedure described in the "IGNITION" chapter. Other reset operations should be performed by an authorised technician.
<b>NO FLAME</b>	The pellet hopper is empty. No pellet feed. The gearmotor does not feed pellets.	Check for the presence of pellets in the hopper. Check bulb thermostats (see chapter on Resetting) Adjust the pellet flow (see "Pellet feed adjustment").
<b>DEPR ALARM</b>	The door is not closed correctly. The ash drawer is not closed correctly (if present)	Check hermetic door closure. Check hermetic closure of the ash drawer (if present).
<b>**MIN DELTA-P ALARM 1</b>	The combustion chamber is dirty. The fumes exhaust pipe is blocked/dirty The vacuum detection channel inside the ash drawers is clogged.	Check cleanliness of the fumes pipe and the combustion chamber. Check and clean the hose connection and the ash drawer pressure switch tube. Contact after-sales centre
<b>H2O PROBE</b>	H2O probe fault	Contact after-sales centre
<b>MIN H2O PRESSURE ALARM</b>	The system pressure read by the pressure switch is too low.	Possible air in the system; bleed the system. Possible lack of water or leaks due to anomalies in some system component. If the problem persists, contact the service centre.
<b>MAX H2O PRESSURE ALARM</b>	The pressure of the water has exceeded the max threshold	Possible air in the system; bleed the system. Check that the expansion vessels are not damaged or under-dimensioned Check that the cold system is loaded at the correct pressure If the problem persists, contact the service centre.
<b>AUGER CONTROL ALARM</b>	Abnormal pellet feeding.	Contact after-sales centre
<b>**AUGER BLOCKED</b>	Abnormal operation of pellet motor.	Contact after-sales centre

\* if there is an additional system data sheet

\*\* on models with this function.

<b>**TRAPDOOR BLOCKED</b>	The automatic cleaning of the burn pot is blocked. Burn pot dirty/clogged The door is not closed correctly.	Check that the door closes correctly. Check that the burn pot is clear and clean. The automatic cleaning of the burn pot is blocked. If the problem persists, contact the service centre.
<b>**MAX ELECTRICAL CURRENT</b>	The automatic cleaning of the burn pot is blocked. Burn pot dirty/clogged The door is not closed correctly.	Check that the door closes correctly. Check that the burn pot is clear and clean. The automatic cleaning of the burn pot is blocked. If the problem persists, contact the service centre.
<b>*DHW PROBE</b>	Fault in DHW PROBE probe.	Contact after-sales centre
<b>*BUFFER TANK PROBE</b>	Fault in BUFFER TANK probe.	Contact after-sales centre
<b>PWM INTERFACE ALARM</b>	IPWM output interface damaged, in short circuit or not connected	Contact after-sales centre
<b>HOT PWM ALARM</b>	The pump is operating but not with good performance. Undervoltage 160-194v. Pump in circuit breaker protection mode.	Contact after-sales centre
<b>STOPPED PWM ALARM</b>	The pump has stopped but is still operational. Undervoltage < 160v. Overvoltage. Unexpected external flow.	Contact after-sales centre
<b>STOPPED 2 PWM ALARM</b>	The pump has stopped but is still operational. Problem in a component different to the pump. Debris in installation. Positioning in high temperature.	Contact after-sales centre
<b>BLOCKED PWM ALARM</b>	The pump has stopped permanently Pump blocked. Electronic module damaged	Contact after-sales centre
<b>FLOW PWM ALARM</b>	Pump blocked. Liquid with high density. Pipe obstructed.	Contact after-sales centre
<b>**DELTA-P FAULT</b>	Differential pressure transducer faulty or disconnected.	Contact after-sales centre
<b>MIN DELTA-P ALARM 2</b>	The ash drawer is not closed correctly. The air intake is clogged. The combustion chamber is dirty. The holes in the burn pot are clogged. The heat exchanger and/or the fume pipe of the appliance are dirty. The T-shaped fitting, the flue pipe or the chimney flue are clogged.	Check hermetic closure of the ash drawer. Clean the air intake. Clean the combustion chamber. Clear the burn pot holes. Clean the heat exchanger and the fume pipe of the appliance. Clean/clear the T-shaped fitting, the flue pipe and the chimney flue. Contact after-sales centre

## DISPOSAL

## INFORMATION FOR MANAGEMENT OF ELECTRIC AND ELECTRONIC APPLIANCE WASTE CONTAINING BATTERIES OR ACCUMULATORS



This symbol, which is used on the product, batteries, accumulators or on the packaging or documents, means that at the end of its useful life, this product, the batteries and the accumulators included must not be collected, recycled or disposed of together with domestic waste. Improper management of electric or electronic waste or batteries or accumulators can lead to the leakage of hazardous substances contained in the product. For the purpose of preventing damage to health or the environment, users are kindly asked to separate this equipment and/or batteries or accumulators included from other types of waste and to arrange for disposal by the municipal waste service. It is possible to ask your local dealer to collect the waste electric or electronic appliance under the conditions and following the methods provided by national laws transposing the Directive 2012/19/EU.

Separate waste collection and recycling of unused electric and electronic equipment, batteries and accumulators helps to save natural resources and to guarantee that this waste is processed in a manner that is safe for health and the environment. For more information about how to collect electric and electronic equipment and appliances, batteries and accumulators, please contact your local Council or Public Authority competent to issue the relevant permits.

EN 16510-1 Symbol	EXPLANATION
nom	Nominal heat output
part	Part load heat output
CON / INT	Appliance operation, Continuos (CON) or Intermittent (INT)
$CO_{2\text{ nom}} / CO_{2\text{ part}}$	Carbon dioxide emission
$CO_{\text{nom}} / CO_{\text{part}}$	Carbon monoxide emission
$d_B$	Minimum distances to combustible materials - bottom
$d_C$	Minimum distances to combustible materials - ceiling
$d_F$	Minimum distances to combustible materials - floor in front
$d_L$	Minimum distances to combustible materials - side radiation area
$d_{\text{non}}$	Minimum distances to non-combustible walls
$d_{\text{out}}$	Flue gas exhaust pipe
$d_p$	Minimum distances to adjacent combustible materials - front
$d_R$	Minimum distances to combustible materials - rear
$d_S$	Minimum distances to combustible materials - side
$E, f$	Power supply voltage, frequency
EEI	Energy Efficiency Index
$el_{\text{max}}$	Consumption of electrical auxiliary energy at nominal heat output
$el_{\text{min}}$	Consumption of electrical auxiliary energy at part load heat output
$el_{\text{SB}}$	Consumption of electrical auxiliary energy at standby
$H$	Appliance height
$L$	Appliance depth
$m$	Net weight
$m_{\text{chim}}$	Maximum load of a chimney the appliance max carry
$m_{h\text{ nom}} / m_{h\text{ part}}$	Hourly consumption
$NO_{x\text{ nom}} / NO_{x\text{ par}}$	Nitrogen oxides emission
$OGC_{\text{nom}} / OCG_{\text{part}}$	Emission of organic gaseous carbon
$PM_{\text{nom}} / PM_{\text{part}}$	Particulate matter emissions
$P_{\text{nom}} / P_{\text{part}}$	Heat output
$p_{\text{nom}} / p_{\text{part}}$	Minimum flue draught
$P_{\text{SH nom}} / P_{\text{SH part}}$	Space heat output
$P_W$	Permissible maximum water operating pressure
$P_{W\text{ nom}} / P_{W\text{ part}}$	Water heat output
$s$	Thickness of the protective insulation material
$T_{\text{class}}$	Chimney designation
$T_{f,g\text{ nom}} / T_{f,g\text{ part}}$	Mean flue gas temperature
$T_{s\text{ nom}} / T_{s\text{ part}}$	Flue gas outlet temperature
$W$	Appliance width
$W_{\text{max}}$	Maximum electric power input
$\eta_{\text{nom}} / \eta_{\text{part}}$	Efficiency
$\eta_S$	Seasonal space heating efficiency at nominal heat output
$\Phi_{f,g\text{ nom}} / \Phi_{f,g\text{ part}}$	Flue gas mass flow
Wood Pellet (L)	Wood Pellet
Wood Logs (l)	Wood Logs
	Read and follow the user operating instructions







# Extraflame®

## Riscaldamento a Pellet

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**MADE IN ITALY**  
design & production

*TO FIND THE SERVICE CENTRE NEAREST TO YOU  
CONTACT YOUR DEALER OR CONSULT  
THE SITE [WWW.LANORDICA-EXTRAFLAME.COM](http://WWW.LANORDICA-EXTRAFLAME.COM)*

The manufacturer reserves the right to vary the characteristics and the data reported in this pamphlet at any moment and without notice, in order to improve its products.