Extraflame®

Riscaldamento a Pellet

UK

THERMO PRODUCTS USER MANUAL

VIRNA IDRO

MADE IN ITALY
design & production

004276851 - REV.006

⚠ 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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ATTENZIONE TASSATIVO
PRIMA DI MOVIMENTARE LA STUFA TOGLIERE IL RIVESTIMENTO INDICATO PER EVITARE DANNI.

WARNING
BEFORE HANDLING THE STOVE, THE COVERING INDICATED MUST BE REMOVED TO AVOID DAMAGE.

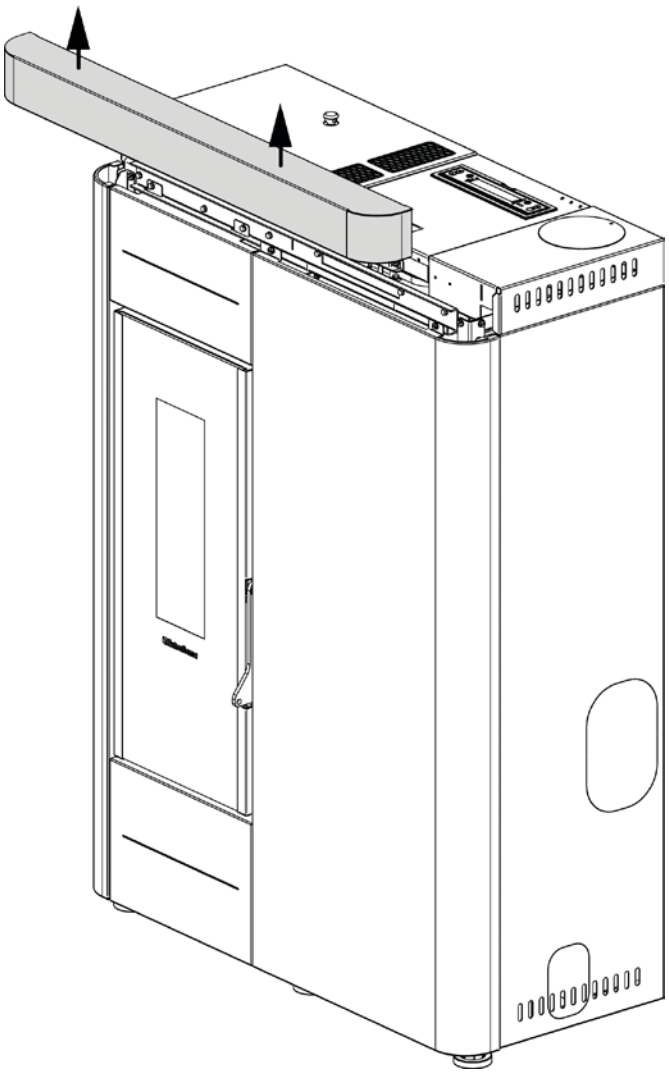
ATTENTION IMPÉRATIF
AVANT DE DÉPLACER LE POÊLE, RETIRER LE REVÊTEMENT INDIQUÉ POUR ÉVITER TOUT DOMMAGE.

ACHTUNG PFLICHT
BEVOR DER OFEN BEWEGT WIRD, MUSS DIE ANGEZEIGTE VERKLEIDUNG ENTFERNT WERDEN, UM SCHÄDEN ZU VERMEIDEN.

ATENCIÓN TAXATIVO
ANTES DE MANEJAR LA ESTUFA QUITE EL REVESTIMIENTO INDICADO PARA EVITAR DAÑOS.

ATENÇÃO OBRIGATÓRIO
ANTES DE MOVIMENTAR O AQUECEDOR, RETIRAR O REVESTIMENTO INDICADO PARA EVITAR DANOS.

UWAGA - OBOWIĄZEK
PRZED PRZYSTĄPIENIEM DO PRZEMIESZCZANIA PIECA ZDJĄĆ WSKAZANĄ OSŁONĘ ABY UNIKNĄĆ USZKODZENIA.



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 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.
- THE SAFETY AND ADJUSTMENT DEVICES MUST NOT BE MODIFIED WITHOUT THE AUTHORISATION OR INDICATIONS OF THE MANUFACTURER.
- 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.
- DO NOT LEAVE THE PACKAGING ELEMENTS WITHIN REACH OF CHILDREN OR UNASSISTED DISABLED PERSONS.
- 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 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**
- **DO NOT USE ANY FLAMMABLE LIQUIDS FOR IGNITION**
- **DURING THE FILLING PHASE DO NOT PUT THE BAG OF PELLETS TO 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.**

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 flue gas exhaust and hydraulic connections must be carried out by qualified personnel who must issue installation conformity documentation compliant with national standards.
The installer must provide the owner or person acting for him, according to the legislation in force, with the declaration of conformity, supplied with:

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.
For installation in a condominium, prior approval from the condominium's administrator must be requested.
Where required, check the exhaust gas emissions after installation. Should a sampling point be installed, it must be airtight.

COMPATIBILITY

Do not install in rooms with a fire hazard. It is also forbidden to install it in living areas with the following characteristics:

1. where there are liquid fuel appliances with continuous or discontinuous operation that draw the combustion air into the room in which they are installed.
2. where there are type B gas appliances intended for heating, with or without domestic hot water production and in adjacent and communicating rooms.
3. where the depression measured in situ between the external and internal environment is greater than 4 Pa.

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

INSTALLATIONS IN BATHROOMS, BEDROOMS AND STUDIO FLATS

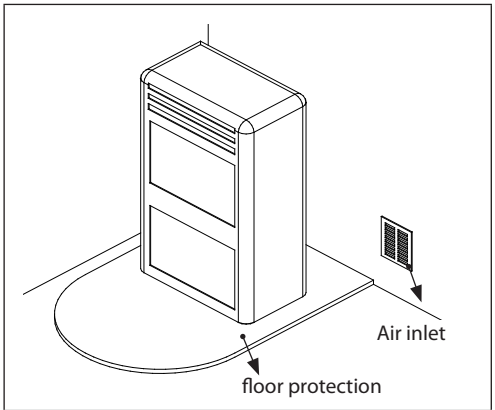
Installation in bathrooms, bedrooms and studio flats is only allowed for sealed or closed hearth appliances with ducted combustion air taken from the outside.

POSITIONING AND SAFETY DISTANCES

The support surfaces and/or points must have a suitable capacity to bear the overall weight of the appliance, accessories and coverings. If the floor is made of a combustible material, we recommend using a non-combustible material to protect the front part from any burnt material which might fall during routine cleaning operations. The generator must be level to function properly. The side walls, the rear walls and the floor support surface should be made of non-combustible material.

MINIMUM DISTANCES

Installation next to flammable or heat-sensitive materials is permitted **only if the special safety distances specified on the label at the beginning of the manual (pag.2) are observed**. If the materials are not flammable, you must keep a side and rear distance of at least 100 mm (without the inserts). For products equipped with rear spacers, wall-mounting installation is permitted exclusively for the rear side.



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.

PREPARATIONS FOR MAINTENANCE

To carry out extraordinary maintenance operations on the product, it may be necessary to move it away from the adjacent walls. This must be done by a technician authorised to disconnect the combustion product evacuation ducts and then reconnect them. For heaters connected to the hydraulic system, the connection between the system itself and the product must be made in such a way that, when an authorised technician is about to carry out extraordinary maintenance operations, it is possible to move the heater at least 1 metre away from the adjacent walls.

INSTALLING INSERTS

When installing inserts, access must be prevented to the internal parts of the appliance and it must not be possible to access live parts during extraction operations.
Any wiring, for example the power cable or room probe, must be positioned so as not to be damaged during movement of the insert and must not come into contact with hot parts. If a cavity made of combustible material is installed, we recommend taking all the safety precautions indicated by the installation standards.

VENTILATION AND AERATION OF INSTALLATION ROOMS

Ventilation in the event of a non-hermetic generator and/or of non-sealed installation must take place respecting the minimum area indicated below:

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	UNI EN 14785	-	80 cm^2
Boilers	UNI EN 303-5	50%	100 cm^2

Under any condition, including in the presence of extractor hoods and/or of controlled forced ventilation systems, the pressure difference between the generator installation rooms and the outside must always be equal to or less than 4 Pa.

In the presence of type B gas appliances with intermittent operation not intended for heating, they must have their own aeration and/or ventilation opening.

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 clean and non-contaminated air flow can also be obtained from a room adjacent to that of installation (indirect aeration and ventilation), as long as the flow takes place freely through permanent openings communicating with the outside.
The adjacent room cannot be used as a garage, or to store combustible material or for any other activity with a fire hazard, bathroom, bedroom or common room of the building.

FLUE GAS EXHAUST

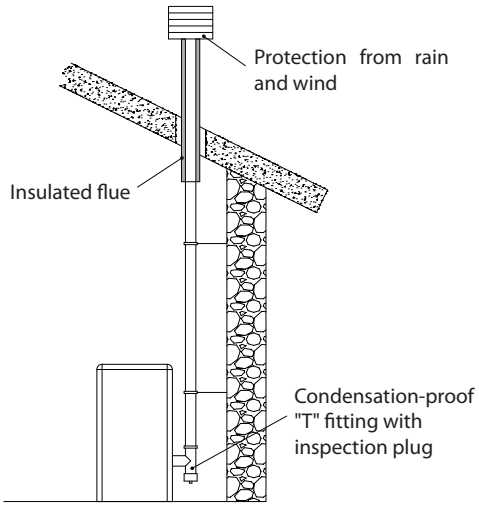
The heat generator works in depression and is equipped with an outlet fan for flue gas extraction. There must be a single exhaust system for the generator. Using a flue that is shared with other devices is not allowed.

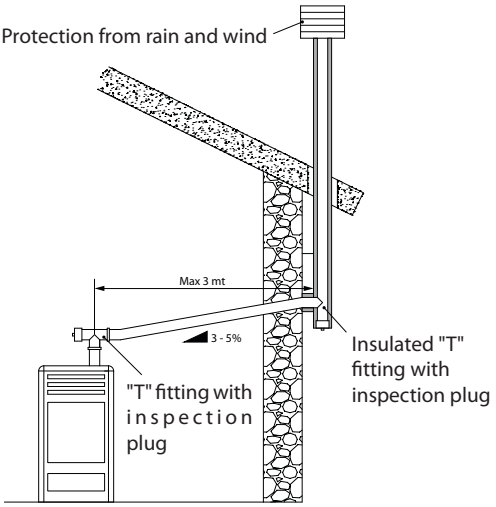
The components of the flue gas exhaust system must be chosen in relation to the type of appliance to be installed in compliance with:
- UNI/ TS 11278 in the event of metal chimneys, with particular attention to that stated in the specification;
- UNI EN 13063-1 and UNI EN 13063-2, UNI EN 1457, UNI EN 1806 in the event of non-metallic chimneys.
- The length of the horizontal section must be minimal and, in any case, no longer than 3 metres, with a minimum upward slope of 3%
- There must not be more than 4 direction changes including the one due to the use of the "T" element.
- A "T" fitting with a condensation collection cap must be provided at the base of the vertical section.
- If the exhaust is not inserted in an existing flue, a vertical section with a windproof end piece is required (UNI 10683).
- The vertical duct can be inside or outside the building. If the smoke duct is inserted in an existing flue, it must be certified for solid fuel.
- If the smoke duct is outside the building, it must always be insulated.
- The smoke ducts must have at least one airtight inlet for flue gas sampling.
- All the sections of the flue gas duct must be accessible to inspection.
- Inspection openings must be provided for cleaning.
- If the generator has a fume temperature lower than 160°C+ ambient temperature caused by the high yield (contact technicians) it MUST be resistant to humidity.
- A flue system that does not respect the previous points or, in general, that does not comply with the regulations, may cause condensation phenomena inside it.

CHIMNEY CAP

The chimney caps must meet the following requirements:
- they must have a useful outlet section no less than double 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;

EXAMPLES OF CORRECT CONNECTION TO THE CHIMNEY





CONNECTION TO THE MAINS ELECTRIC SUPPLY

The generator is supplied with an electric power cable to be plugged into a 230V 50 Hz socket, possibly with a circuit breaker switch. The socket must be easily accessible.
The electrical system must be compliant with standards. The efficiency of the earthing circuit must be checked. Unsuitable earthing of the system can cause malfunctioning for which the manufacturer will not be held liable.
Power supply variations beyond 10% can cause faulty operation of the product.

HERMETICALLY SEALED INSTALLATION

Virna Idro 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.

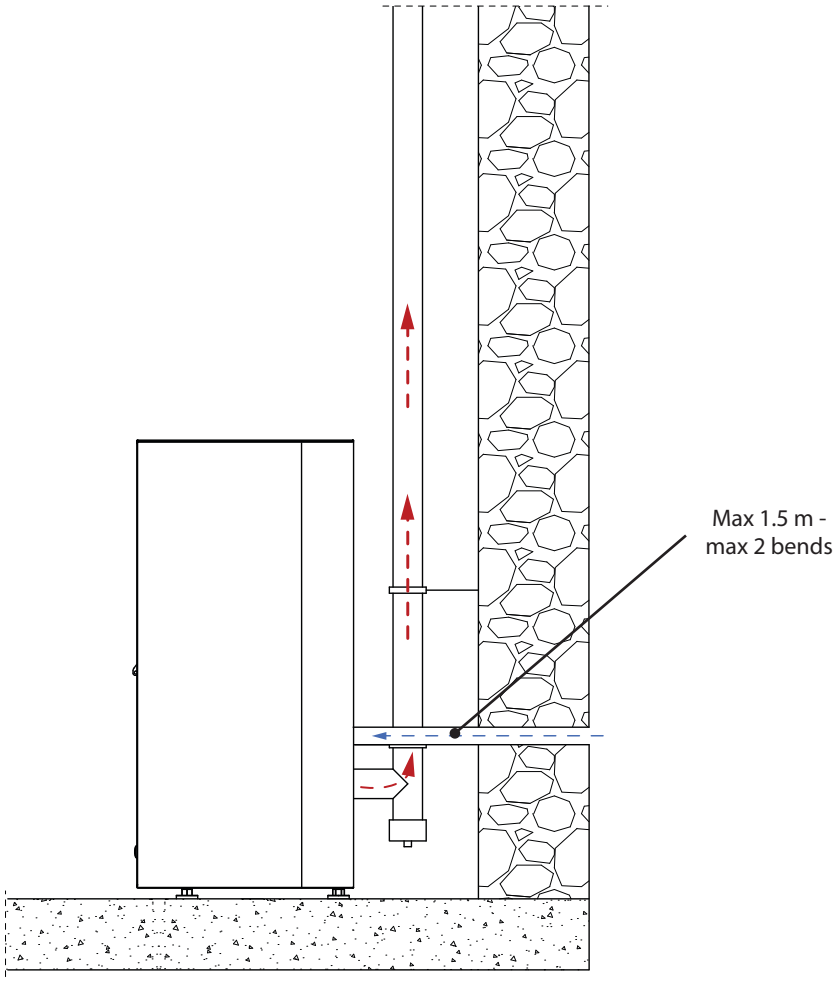
COMBUSTION AIR

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 standards present in the country in which the appliance has been installed, as well as the instructions 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.

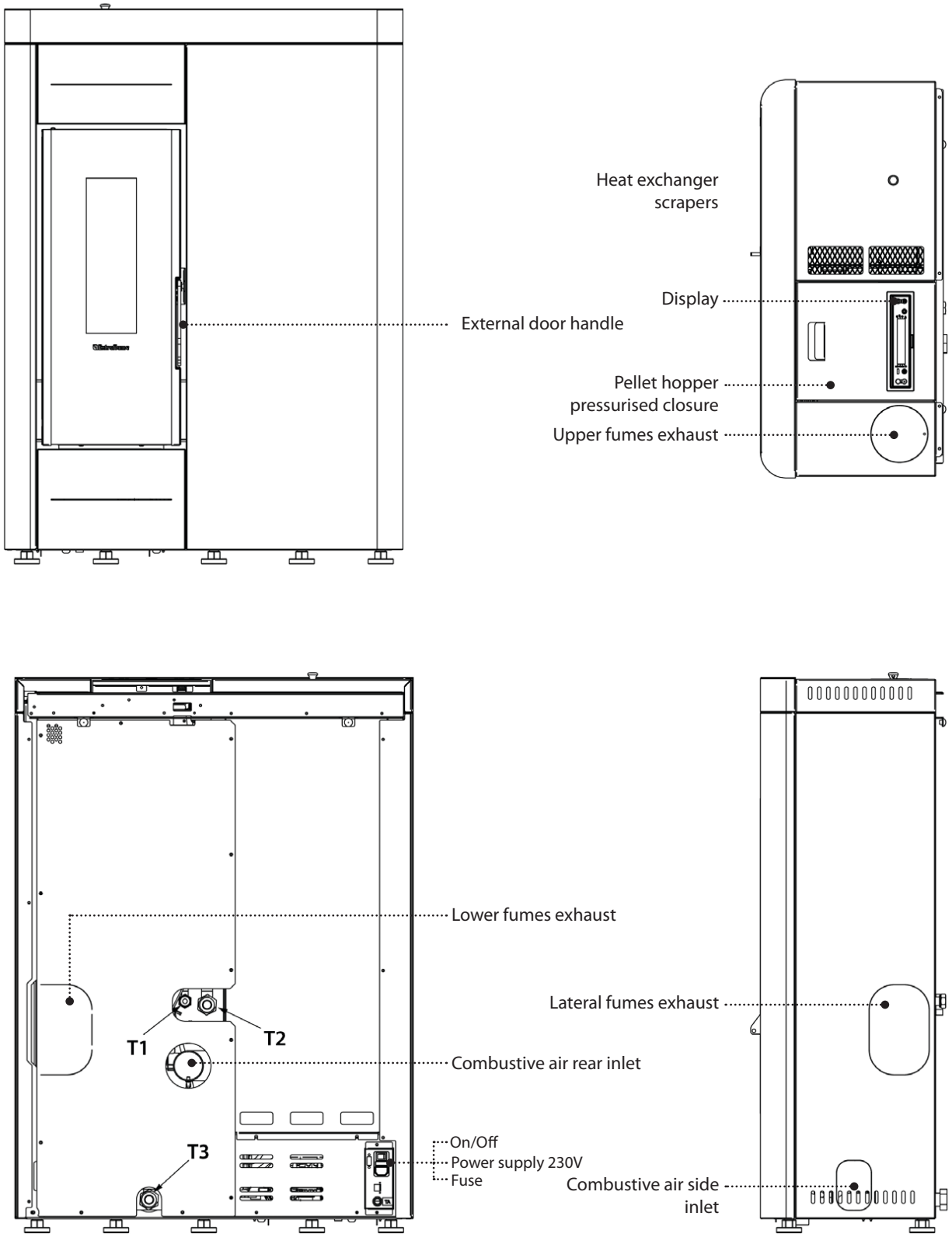
ANTI-CONDENSATION DEVICE (MANDATORY)

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)

VIRNA IDRO DETAILS

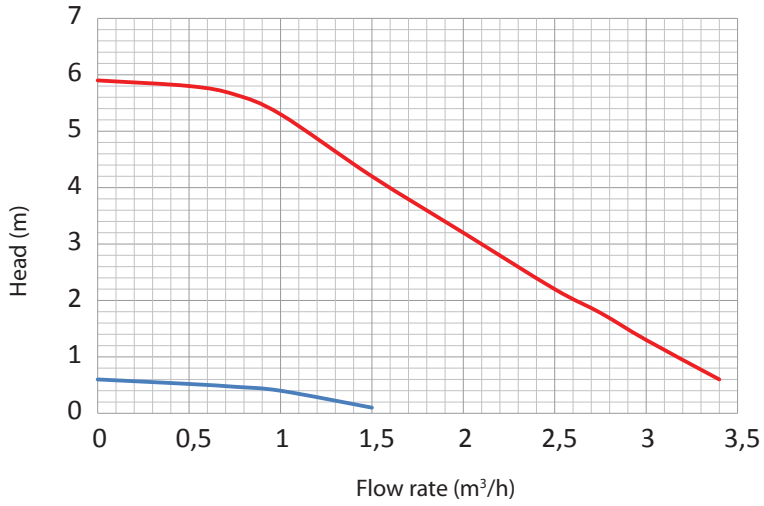


HYDRAULIC INSTALLATION	
T1	3 bar safety drain
T2	Boiler flow/output
T3	Boiler return/input

FEATURES	
Water content of the thermo-product heat exchanger (l)	19
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
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.**

The diagram at the side illustrates the behaviour of the pump used on our thermo-products at the speeds that can be set.



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 - REARM

Check by pressing rearm (95°C) , before contacting a technician (see REARM chapter).

STOVE POSITIONING

To ensure the stove works correctly, it should always be positioned so that it is perfectly level, using a spirit level.

NOTE FOR CORRECT OPERATION

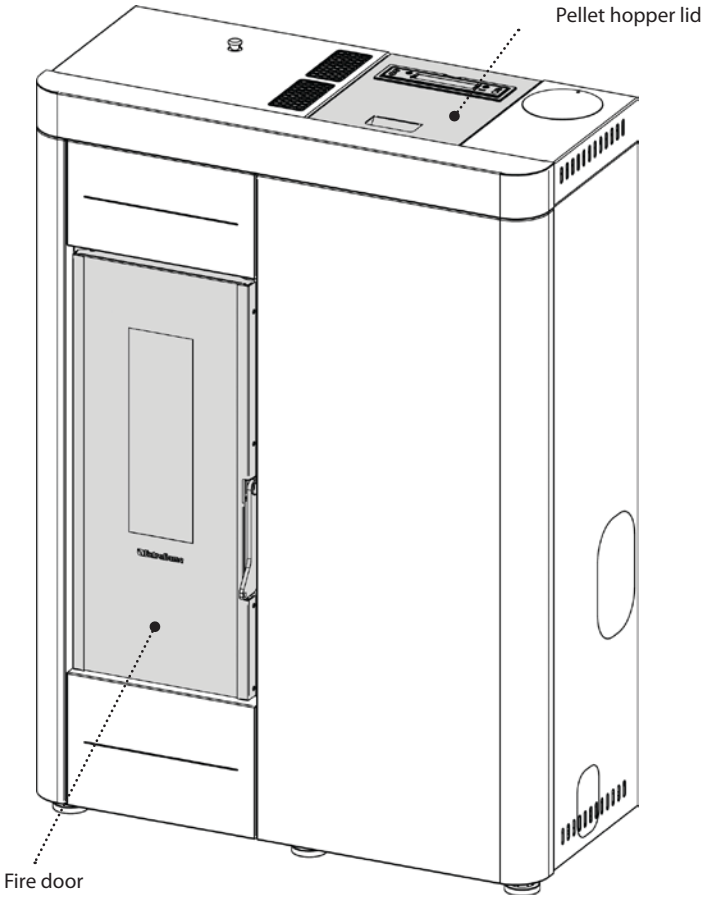
The following indications must be respected for correct pellet stove operation:

During stove operation, the pellet hopper lid and the door must always be closed.
Failure to comply with the above during operation will cause the display to show the following:

"CLOSE HOPPER - STOVE DOOR"

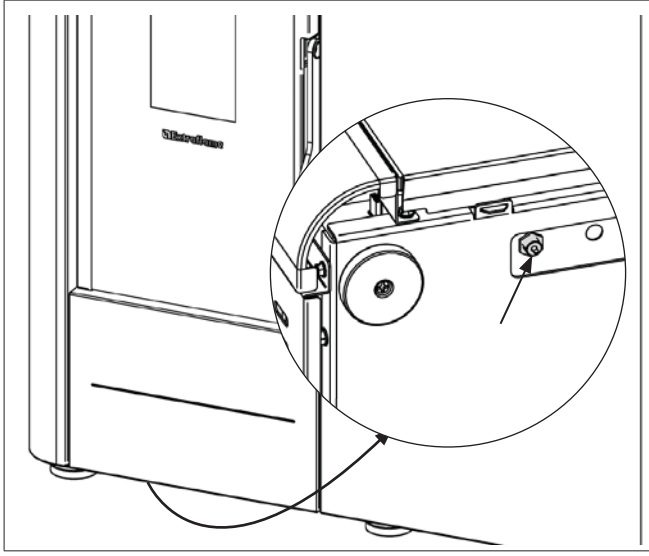
This indication means that you have 60" to close the hatch/door and the pellet lid.

If not, during ignition the stove will go into "**DEPR ALARM**" mode, while during normal operation the stove will go into "**COOLING - WAITING TIME**" mode and then re-start automatically when the correct conditions are present (stove cold, etc.).



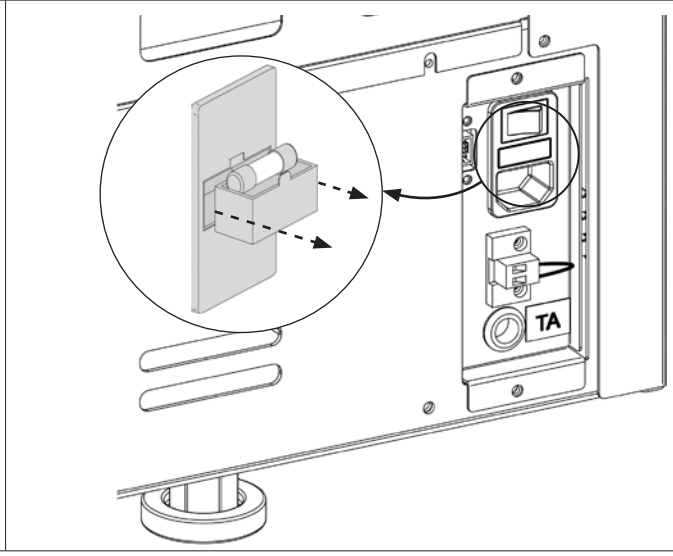
REARM

The figure below shows the rearm position (95°C). A qualified technician should be contacted if the rearm is triggered to verify the cause.



FUSE

If there is no power supply to the stove, check the state of the fuse located in the box between the stove switch and the power cable connection.



PELLETS AND FEEDING

Pellets are made by applying high pressure to sawdust, or wood waste products (not containing paint) from sawmills, carpentry and other activities related to processing and working with wood.

Given that it does not use any glue to hold it together this type of fuel is completely environmentally friendly. In fact the compactness of the pellets over time is guaranteed by a natural substance found in the wood itself: wood coal. In addition to being an environmentally friendly fuel in that it pushes wood residues to the limits pellets also have technical advantages.
While wood has a calorific value of 4.4kWh/kg. (with 15% humidity after around 18 months of seasoning) the calorific value of pellets is 5 kWh/kg.
Pellet density is 650kg/m3 and the water content is equal to 8% of its weight. For this reason they do not require seasoning in order to arrive

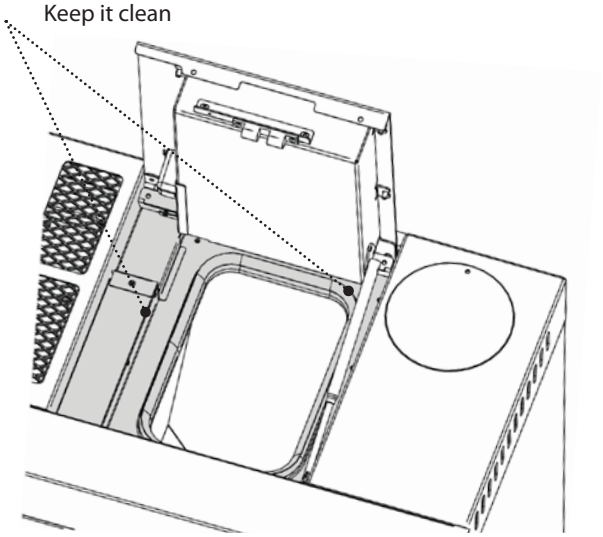
The pellets used must comply with the characteristics described by the following standards:

EN PLUS class A1, ISO 17225-2 class A1
and
UNI EN 303-5 with the following characteristics: water content ≤ 12%, ash content ≤ 0.5% and lower calorific value >17 MJ/kg (in the case of boilers).

The manufacturer always recommended using pellets with a diameter of 6 mm with its products.

PELLET STORAGE
In order to ensure problem-free combustion pellets must be stored in a dry place.
Open the tank lid and load the pellets using a scoop.

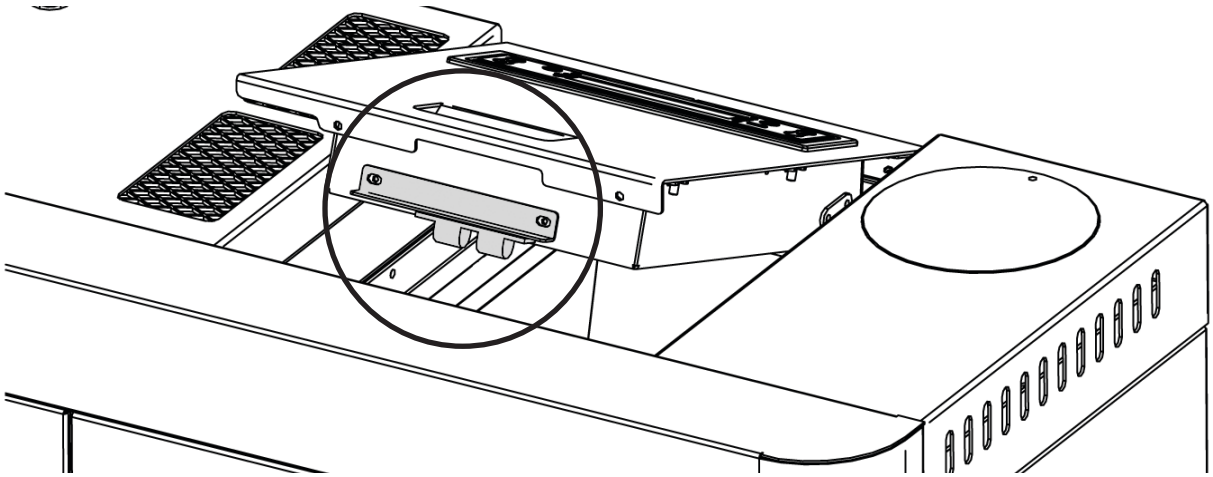
Keep it clean



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.

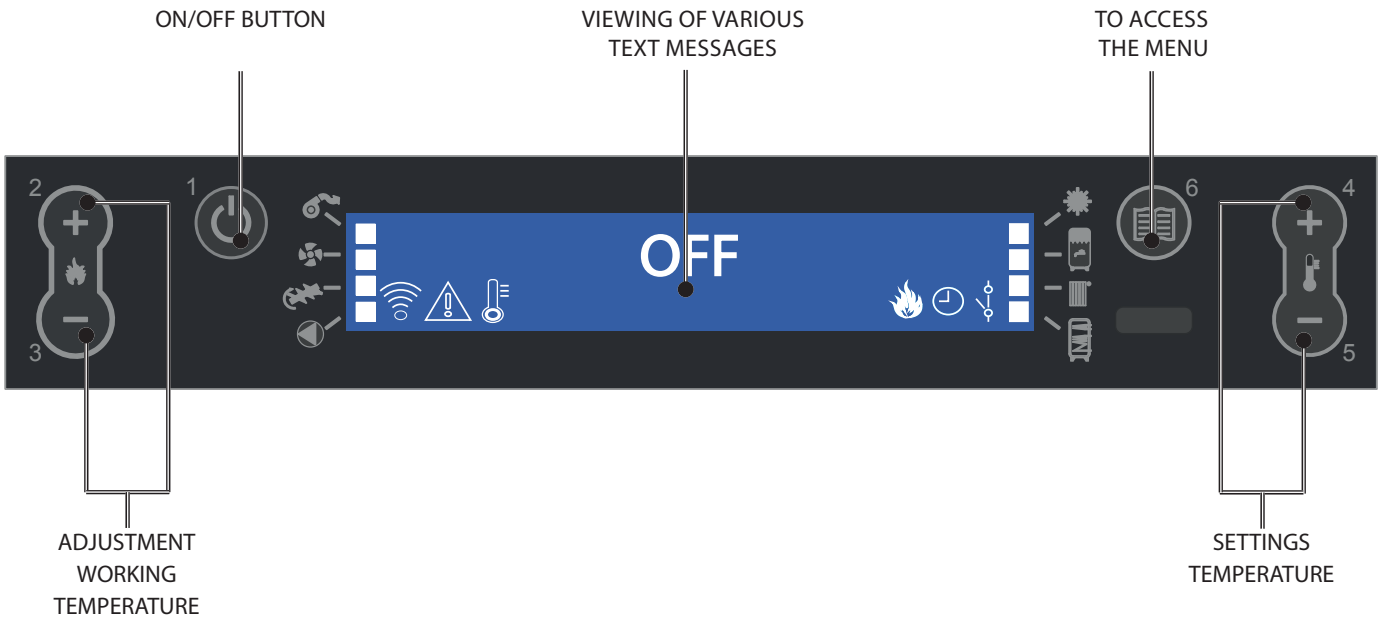
PELLET TANK - PRESSURE CLOSURE.

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.

CONTROL BOARD



DISPLAY ICONS KEY

	Indicates radio signal reception Led off: radio communication not available. Led on: radio communication available. Flashing = serial port excluded		Indicates modulation of the stove Led on: the stove is working at the set power Flashing: The power at which the stove is working differs from the set power, the stove is modulating (for various reasons)
	Indicates the presence of an alarm. Off: indicates there are no alarms On: indicates the presence of an alarm. Flashing: indicates the deactivation of the depression sensor.		Indicates the weekly programming status Off: deactivated On: activated
	Indicates the water temperature status Off= the T° read by the probe is higher than the set temperature On= the T° read by the probe is lower than the set temperature		Indicates contact of the external additional thermostat Contact closed on = the contact of the external additional thermostat is closed. Contact open on: the contact of the external additional thermostat is open. Flashing with contact closed: the contact of the external additional thermostat is closed and the STAND-BY function is enabled Flashing with contact open: the contact of the external additional thermostat is open and the STAND-BY function is enabled
	Indicates the status of the flue exhaust motor. Off = motor deactivated On = motor activated Flashing = fault		Indicates the summer/winter function Off: The winter function is activated On: the summer function is activated
	Not in use.		Indicates a request for DHW. Off: DHW supplied, pump off Flashing: a request for DHW exists, but the operating conditions have not been met. Pump off On: the request for DHW is in progress and the operating conditions have been met. Pump on
	Indicates the status of the pellet loading motor. Off = motor deactivated On = motor activated		Indicates a request for heating Off: DHW supplied, pump off Flashing: a request for heating exists, but the operating conditions have not been met. Pump off On: the request for heating is in progress and the operating conditions have been met. Pump on
	It indicates pump operation Off = pump deactivated On = pump activated Flashing = the safety device is active (H2O temperature > 85°C)		Indicates a buffer tank request, if active Off: buffer tank request met, pump off Flashing: a buffer tank request exists, but the operating conditions have not been met. Pump off On: the buffer tank request is in progress and the operating conditions have been met. Pump on

GENERAL MENU



1 Go back - exit

2 3 Scroll parameters: next (2); previous (3)

4 5 Modify data settings: increase (4); decrease (5)

6 Confirm - access menu

- EASY SETUP
- CHRONO
  - ENABLING
  - PRG1
  - PRG2
  - PRG3
  - PRG4
- SETTINGS
  - DATE-TIME
  - LANGUAGE
  - DISPLAY
  - STAND-BY
  - FIRST LOAD
  - OUTLET AIR
  - DEGREES
  - RESET
- *STOVE STATUS
- *TECH MENU

*TECHNICIANS ONLY

BASIC INSTRUCTIONS

The following recommendations must be followed the first times the stove is ignited:

- It is possible that slight odours are produced due to the drying of the paints and silicone used. Do not remain in the room for long periods.
- Do not touch the surfaces as they could still be unstable.
- Ventilate the room well several times.
- The hardening of surfaces will stop after several heating cycles.
- This appliance must not be used to burn waste.

Before lighting the stove, the following points must be checked:

- The hydraulic system must be completed in compliance with regulatory guidelines and the instructions in the manual.
- The hopper must be full of pellets
- The combustion chamber must be clean
- The burn pot must be completely free and clean
- Check the hermetic closure of the fire door and the ash drawer
- Check that the power cable is properly connected
- The bipolar switch in the rear right part must be positioned on 1.

The company has an optional additional board that allows the appliance the following further functions when managing the system. The table below indicates the various possibilities that the optional can offer.
Contact the dealer for further details The connection must be made by a qualified technician directly on the board.

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	✓

REMOTE CONTROL

The remote control allows you to adjust all the functions that are normally possible with the LCD display.
The various functions are outlined in detail in the table below:



1	**ON/OFF**	Prolonged pressure turns the stove on or off.
2	**POWER INCREASE**	Increases operating power
3	**POWER DECREASE**	Decreases operating power
4	**T° INCREASE**	Increases the SET THERMOSTAT. If included with the model, prolonged pressure enables/disables the comfort function.
5	**T° DECREASE**	Decreases the SET THERMOSTAT.
6	**ENABLES/DISABLES CHRONO**	Enables/disables chrono
7	**1h**	Not in use
8	**MENU**	Access user menu
9	**INCREASE**	Increases the value displayed
10	**ESC KEY**	Exit any program or view, returning to start menu without saving data.
11	**BACK**	Goes back in display of the various menus
12	**CONFIRM KEY**	Confirms adjustments made during user menu programming stage
13	**FORWARD**	Goes forward in the various menus
14	**ENABLE F1 FUNCTION**	Key pre-configured for future applications
15	**DECREASE**	Decreases the value displayed
16	**STOVE STATUS**	Displays the general status of the stove

NB: the numbers shown on the remote control are for information purposes and are not on the remote control supplied with the stove.

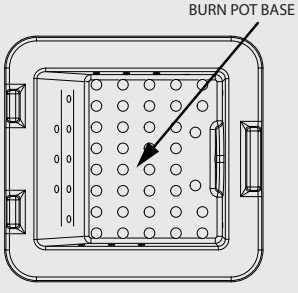
BATTERY TYPE AND REPLACEMENT

The battery is housed in the lower part of the remote control.
To replace it, extract the battery holder, remove or insert the battery following the symbols printed on the remote control and the battery.
One 3V CR2025 lithium coin battery is required to operate the remote control.

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

IF THE REMOTE CONTROL IS SWITCHED OFF DUE TO NO BATTERY INSTALLED, THE STOVE CAN BE CONTROLLED FROM THE COMMAND PANEL LOCATED ON THE UPPER PART OF THE STOVE. WHEN CHANGING THE BATTERY, MAKE SURE YOU FOLLOW THE SYMBOLS PRINTED ON THE INNER SLOT OF THE REMOTE CONTROL.

MAKE SURE THAT THE BOTTOM OF THE BURN POT IS FREE FROM RESIDUE AND DEPOSITS. THE HOLES AT THE BOTTOM MUST BE COMPLETELY FREE TO GUARANTEE CORRECT COMBUSTION. IT IS POSSIBLE TO USE THE FUNCTION "EASY SETUP" TO ADAPT COMBUSTION TO THE REQUIREMENTS DESCRIBED.



COMMISSIONING SETTINGS

Once the power cable at the back of the stove has been connected, move the switch, also located on the back, to (I).
The switch at the back of the stove powers the stove board.
The stove remains off and a first screen appears on the panel reading OFF .

LINE FREQUENCY 50/ 60HZ

If the generator is installed in a country with a frequency of 60Hz, the display will show "POWER FREQ. ERROR ".
Change the frequency as described below.

CONTROLS PROCEDURE

- Press the 6 key
- Select the frequency required with keys 4 or 5.
- Press key 6 to confirm and key 1 to return to the previous menus to the initial state.

DATE-TIME

This menu allows the date and time to be set.

CONTROLS PROCEDURE

- Press key 6.
- Press 3 until **SETTINGS** appears and confirm by pressing 6.
- Confirm **DATE-TIME** by pressing 6 and using 4 and 5 to set the day.
- Continue by pressing 6.
- Use the same procedure with 4 or 5 to choose the setting and 6 to move continue, to set the hour, minutes, date, month and year.
- Press key 6 to confirm and key 1 to return to the previous menus to the initial state.

LANGUAGE

This menu allows the preferred language to be selected.
The languages available are: Italiano - English - German - French - Spanish - Portuguese

CONTROLS PROCEDURE

- Press key 6.
- Press 3 until **SETTINGS** appears and confirm by pressing 6.
- Press 3 until **LANGUAGE** appears and confirm by pressing 6.
- Select the language with keys 4 or 5.
- Press key 6 to confirm and key 1 to return to the previous menus to the initial state.

DEGREES

This menu allows you to set the temperature unit of measurement. The value is preset to °C.

CONTROLS PROCEDURE

- Press key 6.
- Press 3 until **SETTINGS** appears and confirm by pressing 6.
- Press 3 until **DEGREES** appears and confirm by pressing 6.
- Use keys 4 and 5 to select Celsius or Fahrenheit.
- Press key 6 to confirm and key 1 to return to the previous menus to the initial state.

NO IGNITION

THE APPLIANCE MAY FAIL TO LIGHT BECAUSE THE AUGER IS EMPTY AND NOT ALWAYS ABLE TO LOAD THE BURN POT WITH THE NECESSARY QUANTITY OF PELLETS IN TIME TO REGULARLY IGNITE THE FLAME. IF THE PROBLEM OCCURS AFTER ONLY A FEW MONTHS OF OPERATION, CHECK THAT THE ROUTINE CLEANING DESCRIBED IN THE STOVE BOOKLET HAS BEEN CARRIED OUT CORRECTLY.

OPERATION AND LOGIC

IGNITION
Once the points listed previously have been checked, press key 1 for three seconds to ignite the stove. 15 minutes are available for the ignition phase. After ignition and having reached the control temperature, the stove interrupts the ignition phase and passes to STARTING.

PREPARATION
During the start-up phase, the stove stabilises combustion, increasing it progressively, to then start ventilation and pass on to WORK.

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

SET POWER
Set the operating power from 1 to 5 (using keys 2 and 3).
Power 1 = minimum level - Power 5 = maximum level.

SET H2O
Set the boiler temperature from 65 to 80°C (using keys 4 and 5).

PUMP OPERATION
The pump activates water circulation when the t° 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".

BLOW
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 lowers the stove power level and increases the flue gas exhaust motor for a programmed 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.

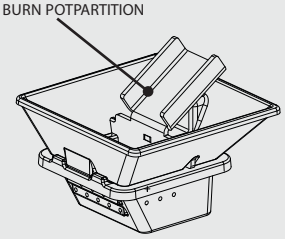
MODULATION and H-OFF
As the water temperature approaches the set point, the boiler starts to modulate automatically bringing itself to the minimum power. If the temperature increases beyond the set point, it will automatically switch off indicating **H-OFF,** and will automatically go back on when the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

SWITCH-OFF
Press key 1 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.

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

DO NOT USE ANY INFLAMMABLE 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.

IT IS PROHIBITED TO USE THE APPLIANCE WITHOUT THE PARTITION AND/ OR FLAME GUARD (SEE FIGURE ON SIDE). REMOVAL WILL COMPROMISE THE SAFETY OF THE PRODUCT AND RESULT IN THE IMMEDIATE NULLIFICATION OF THE WARRANTY PERIOD. IN THE CASE OF WEAR OR DETERIORATION, REQUEST AFTER-SALES ASSISTANCE FOR REPLACEMENT OF THE PART (REPLACEMENT THAT IS NOT UNDER GUARANTEE AS THE COMPONENT IS SUBJECT TO WEAR).



ADDITIONAL THERMOSTAT

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

There is a possibility to control the temperature of a room adjacent to the room where the stove has been placed; simply connect a thermostat following the procedure described in the following section (it is advisable to place the optional mechanical thermostat at a height from the ground equal to 1.50m). Stove operation with external thermostat connected in the clamp TA can be different on the basis of 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 LED will flash. When the contact or external thermostat is not satisfied (open contact =temperature reached), the stove will switch off. As soon as 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 active, the LED will fixed.

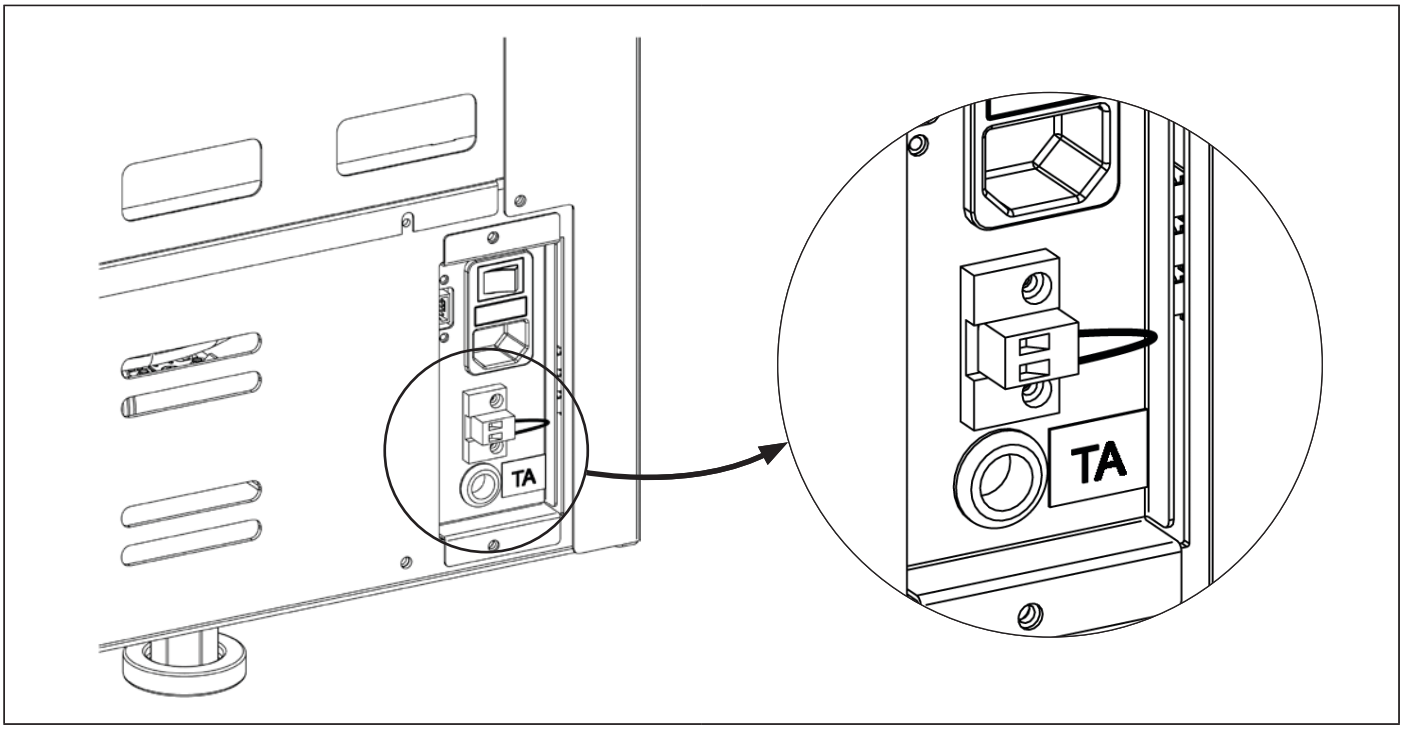
When the contact or external thermostat is satisfied (open contact / temperature reached), the stove will go to minimum. As soon as the contact or external thermostat switches to the "not satisfied" status (closed contact / temperature to be reached) it will start to work again at the pre-set power.

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

ADDITIONAL THERMOSTAT INSTALLATION

- Switch the appliance off using the master switch positioned on the rear of the stove.
- Remove the plug from the socket.
- Refer to the wiring diagram and connect the two thermostat wires in the relevant terminals located on the back of the stove, one red and one black (clamp TA). **Each model may have a different terminal location on the back of the stove. The image is given as an example.**

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



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 change the calibration of the volumetric weight by increasing or decreasing the pre-set 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".

Instead, if it is necessary to increase the calibration of the volumetric weight of the pellet, go from the factory value "0" to "+ 1, + 2, + 3" as required.

EXCESSIVE PELLET DEPOSIT IN THE BURNING POT			NORMAL OPERATION	MINIMUM PELLET DEPOSIT IN THE BURNING POT		
-3	-2	-1	0	+1	+2	+3
THIRD DECREASE RANGE IF THE FIRST TWO ARE NOT ENOUGH	SECOND DECREASE RANGE IF THE FIRST IS NOT ENOUGH	FIRST DECREASE RANGE (TEST FOR 1 DAY)	OPTIMAL FACTORY VALUE	FIRST INCREASE RANGE	SECOND INCREASE RANGE IF THE FIRST IS NOT ENOUGH	THIRD INCREASE RANGE IF THE FIRST TWO ARE NOT ENOUGH

CONTROLS PROCEDURE

- Press key 6.
- Press key 3 until **EASY SETUP** appears and confirm by pressing key 6.
- Use keys 4 and 5 to set the range.
- Press key 6 to confirm and key 1 to return to the previous menus to the initial state.

N.B.: IF THIS CALIBRATION DOES NOT SOLVE THE PELLET DEPOSIT IN THE BURN POT, PLEASE CONTACT YOUR LOCAL AFTER-SALES CENTRE.

CHRONO



This function allows the stove's ignition and switch-off to be automatically programmed.
The factory setting for **CHRONO** is off.
The chrono allows the programming of 4 time slots within a day, which can be used every day of the week.
Ignition and switch-off times can be set for each time slot, along with the specific days of application for the programmed time slot, the desired temperature and power setting.
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 day and time, so check that you have followed the points listed in the sub-chapter "DATE-TIME". To use the chrono function correctly, you must activate it as well as program it. The four time slots can be overlapped using the time switch on and off settings, This allows you to obtain a combination of times in which you can set different temperatures and power without influencing the stove work status.

NB: if overlapping time slots are set, the stove will stay on until the latest switch-off time.

ENABLING/DISABLING THE CHRONO

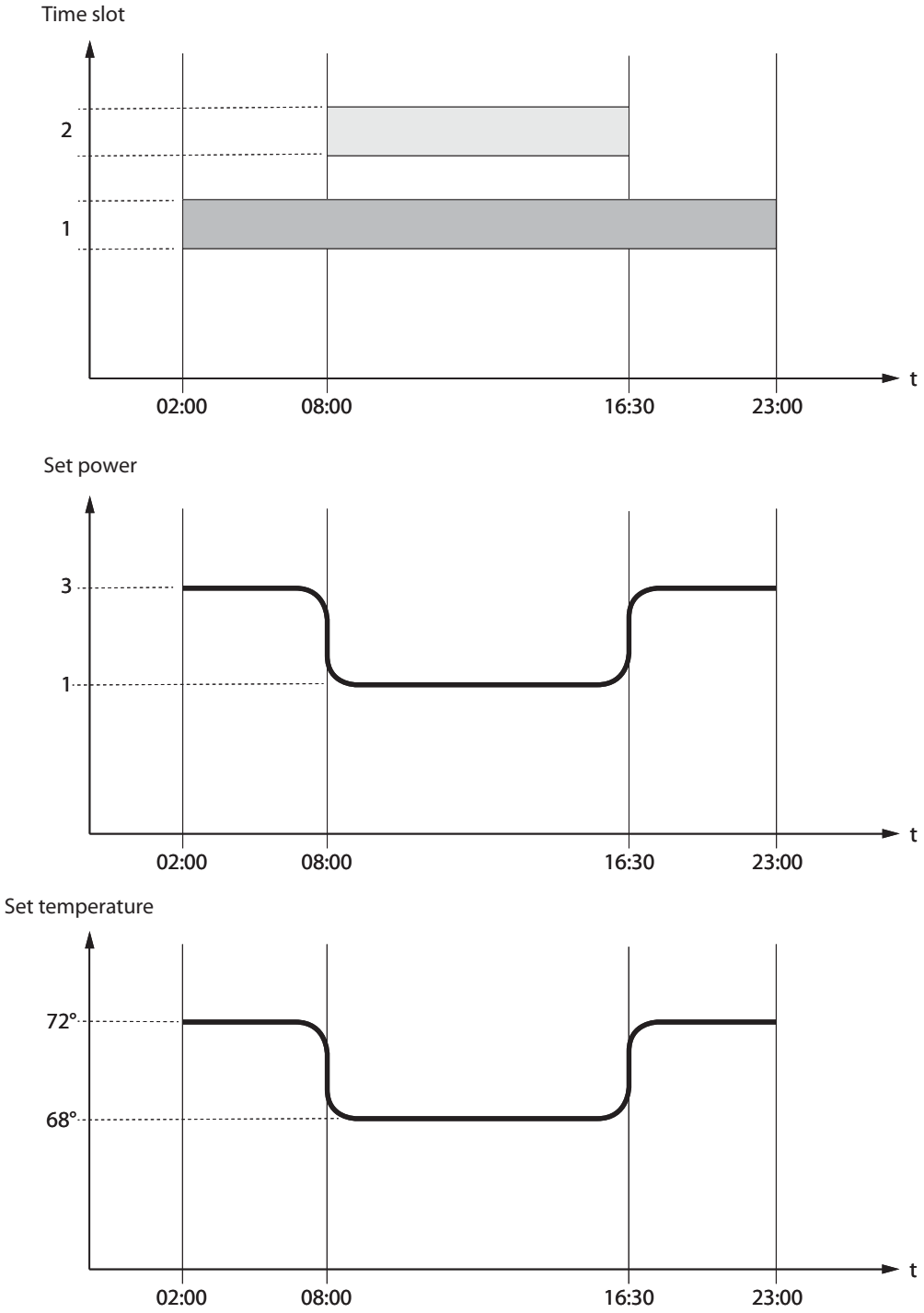
CONTROLS PROCEDURE

- Press key 6.
- Press key 3 until **CHRONO** appears and confirm by pressing key 6.
- Confirm **ENABLING** with key 6.
- Use keys 4 and 5 for enabling (**ON**) or disabling **OFF**)
- Press key 6 to confirm and key 1 to return to the previous menus to the initial state.

SET CHRONO	**ENABLING**	**PRG1**	*On/off*	*Enabling/disabling PRG 1*
		PRG2	*On/off*	*Enabling/disabling PRG 2*
		PRG3	*On/off*	*Enabling/disabling PRG 3*
		PRG4	*On/off*	*Enabling/disabling PRG 4*
	PRG1	**START PRG1**	*OFF-00:00*	*PRG1 start time*
		STOP PRG1	*OFF-00:00*	*PRG1 stop time*
		MONDAY...SUNDAY	*On/off*	*Enabling/disabling days for PRG1*
		SET PRG1	*65°C - 80°C (149°F - 176°F)*	*Set thermostat PRG1*
		POWER PRG1	*1-5*	*Set power PRG1*
	PRG2	**START PRG2**	*OFF-00:00*	*PRG2 start time*
		STOP PRG2	*OFF-00:00*	*PRG2 stop time*
		MONDAY...SUNDAY	*On/off*	*Enabling/disabling days for PRG2*
		SET PRG2	*65°C - 80°C (149°F - 176°F)*	*Set thermostat PRG2*
		POWER PRG2	*1-5*	*Set power PRG2*
	PRG3	**START PRG3**	*OFF-00:00*	*PRG3 start time*
		STOP PRG3	*OFF-00:00*	*PRG3 stop time*
		MONDAY...SUNDAY	*On/off*	*Enabling/disabling days for PRG3*
		SET PRG3	*65°C - 80°C (149°F - 176°F)*	*Set thermostat PRG3*
		POWER PRG3	*1-5*	*Set power PRG3*
	PRG4	**START PRG4**	*OFF-00:00*	*PRG4 start time*
		STOP PRG4	*OFF-00:00*	*PRG4 stop time*
		MONDAY...SUNDAY	*On/off*	*Enabling/disabling days for PRG4*
		SET PRG4	*65°C - 80°C (149°F - 176°F)*	*Set thermostat PRG4*
		POWER PRG4	*1-5*	*Set power PRG4*

IF WEEKLY PROGRAMMER IS ACTIVE ON THE COMMAND PANEL, A SMALL ICON IS DISPLAYED.

EXAMPLE OF CHRONO OVERLAPPING TIME/SLOTS



	Time slot 1	start 02:00 stop 23:00	power 3 - set temp 72°C
	Time slot 2	start 08:00 stop 16:30	power 1 - set temp 68°C
	stove operation		

SETTINGS

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

SEE CHAPTER: COMMISSIONING SETTINGS.

DISPLAY

This menu allows you to adjust the brightness of the display. The values range from OFF, 1 to 20. If set to OFF, the display backlighting is set to maximum brightness and then, turns off after a 60 second delay.
The backlighting can be turned on again by pressing any key or if the stove is in alarm status.

CONTROLS PROCEDURE

- Press key 6.
- Press 3 until **SETTINGS** appears and confirm by pressing 6.
- Press key 3 until **DISPLAY** appears and confirm by pressing key 6.
- Use keys 4 and 5 to set the brightness (**SET**)
- Press key 6 to confirm and key 1 to return to the previous menus to the initial state.

STAND - BY

The **STAND-BY** function, if enabled, is used to turn the stove via an additional thermostat.

CONTROLS PROCEDURE

- - Press key 6.
- - Press key 3 until **SETTINGS** appears and confirm by pressing key 6.
- - Continue by pressing key 3 until **STAND-BY** appears and confirm by pressing key 6.
- - Use keys 4 and 5 for enabling (**ON**) / disabling (**OFF**).
- - Press key 1 several times to confirm and exit the menu.

FIRST LOAD

This function allows to fill the auger, facilitating the phases of the first start-up of the stove, or in the event that the pellet tank is empty.
With the stove cold and "OFF", make sure the pellet has been introduced inside the tank and activate the **FIRST LOAD** function, confirming with OK.
To interrupt continuous loading, simply press key 1 for 3 seconds.

CONTROLS PROCEDURE

- Press key 6.
- Press key 3 until **SETTINGS** appears and confirm by pressing key 6.
- Press key 3 until **FIRST LOAD** appears and confirm by pressing key 6.
- Use keys 4 and 5 for enabling “ON” or disabling “OFF”
- Press key one several times to confirm and exit the menu.

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" stop for 15 minutes. With the stove cold and in "OFF", activate the **OUTLET AIR** function, pressing key 6 to confirm. To interrupt, press and hold key 1 for 3 seconds.

CONTROLS PROCEDURE

- Press key 6.
- Press 3 until **SETTINGS** appears and confirm by pressing 6.
- Press key 3 until **OUTLET AIR** appears and confirm by pressing key 6.
- Use keys 4 and 5 for enabling "ON" or disabling "OFF"
- Press key one several times to confirm and exit the menu.

RESET

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

CONTROLS PROCEDURE

- Press key 6.
- Press 3 until **SETTINGS** appears and confirm by pressing 6.
- Press key 3 until **RESET** appears and confirm by pressing key 6.
- Use keys 4 and 5 for enabling "ON" or disabling "OFF"
- Press key one several times to confirm and exit the menu.

TO FIND OUT WHERE YOUR NEAREST SERVICE CENTRE IS, CONTACT YOUR DEALER OR GO TO THE WEBSITE: WWW.LANORDICA-EXTRAFLAME.COM

CLEANING AND MAINTENANCE

FOLLOW THE INSTRUCTIONS ALWAYS IN COMPLETE SAFETY!

- Make sure that the power supply cable plug is disconnected, since the generator could be programmed to switch-on.
- That the generator is completely cold.
- The ashes are cold.
- Guarantee effective ventilation of the room when cleaning the product.
- Lack of cleaning jeopardises 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.

EVERY YEAR, GET THE FUME DISCHARGE SYSTEM, THE FLUE PIPES AND THE "T" FITTINGS AND INSPECTION CAPS CLEANED - IF PRESENT, ALSO THE ELBOWS AND HORIZONTAL SECTIONS!
THE CLEANING FREQUENCY OF THE GENERATOR IS INDICATIVE! IT DEPENDS ON THE QUALITY OF THE PELLETS USED AND FREQUENCY OF USE.
THESE OPERATIONS MUST BE PERFORMED MORE FREQUENTLY.

PERIODIC CLEANING BY THE USER

As indicated in this use and maintenance manual, periodic cleaning must be performed paying great attention, after having read the indications, to the procedures and times described herein.

CLEANING THE SURFACES AND COVERING

Never use abrasive or chemically aggressive detergents for cleaning!
The surfaces must be cleaned when the generator and covering are completely cold. Fir maintenance of surfaces and metal parts, just use a cloth dampened in water or water and neutral soap.
Failure to comply with the indications can damage the surfaces of the generator and cause the warranty to become null and void.

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 instruction may damage the surfaces of the ceramic glass and cause the invalidation of the warranty.

CLEANING THE PELLET TANK

When the tank is completely empty, disconnect the power cable of the generator and remove the residues first (dust, chippings, etc.) from the empty tank, and then fill it.

THE FOLLOWINg IMAGES ARE ILLUSTRATIONS ONLY.

EVERY DAY

SCRAPERS:

The heat exchangers must be cleaned only when the generator is cold, using the poker supplied. Cleaning ensures constant heat output over time. This type of maintenance must be carried out at least once a day. To do this, use the scraper positioned in the upper part of the generator, making upward and downward moments several times.



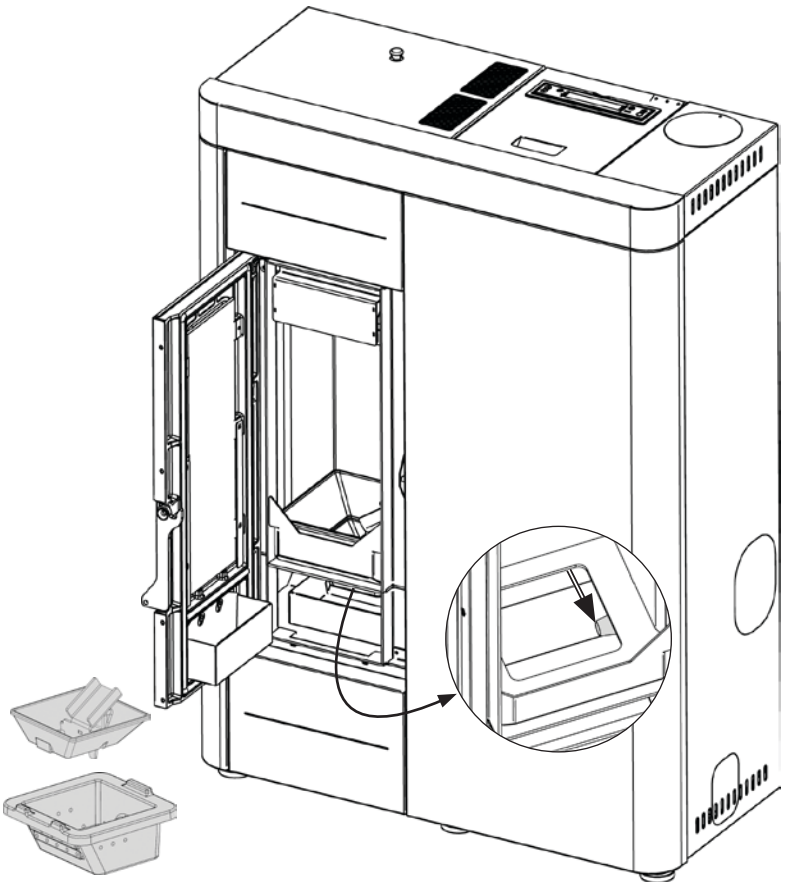
EVERY DAY

BURN POT AND COMBUSTION CHAMBER:

- Remove the pellet chute assembly completely, emptying any ash reside from the burn pot below.
- Remove the burn pot, emptying any ash residue from the ash drawer below.
- Suck the ash of the combustion chamber and spark-plug pipe holder.
- Release all holes present in the burn pot using the poker supplied.
- Re-position the burn pot in its seat and push it towards the fire wall.
- Replace the pellet chute assembly on the burn pot.

Make sure that the burn pot and pellet chute have be replaced correctly!

NOTE: Use a suitable ash aspirator with a special separate container for the ashes collected



EVERY 4 DAYS

ASH DRAWER 1:

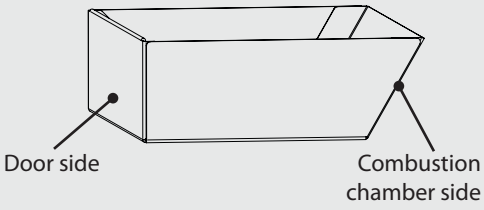
- Remove the ash drawer and empty it out into a container.
- Reposition the ash drawer.

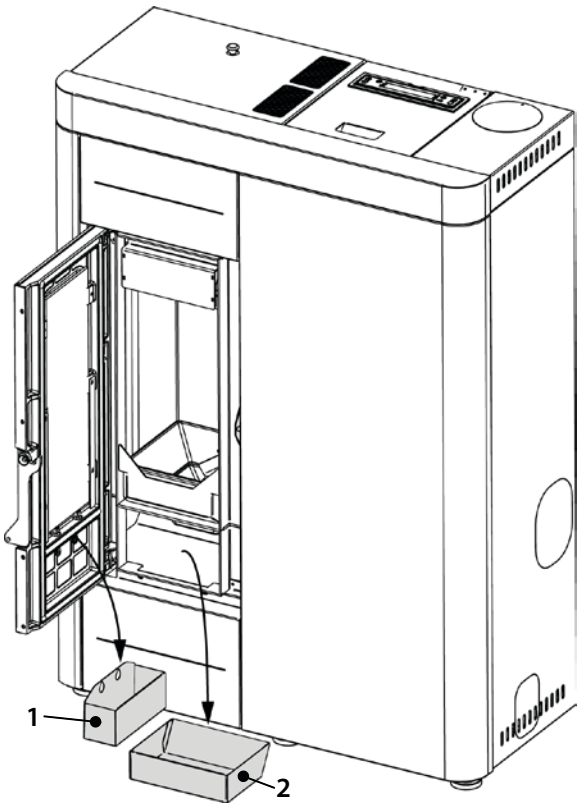
EVERY 7 DAYS

ASH DRAWER 2:

- Remove the ash drawer and empty it out into a container.
- Clean the ash drawer compartment.
- Reposition the ash drawer.

Note ash drawer 2:





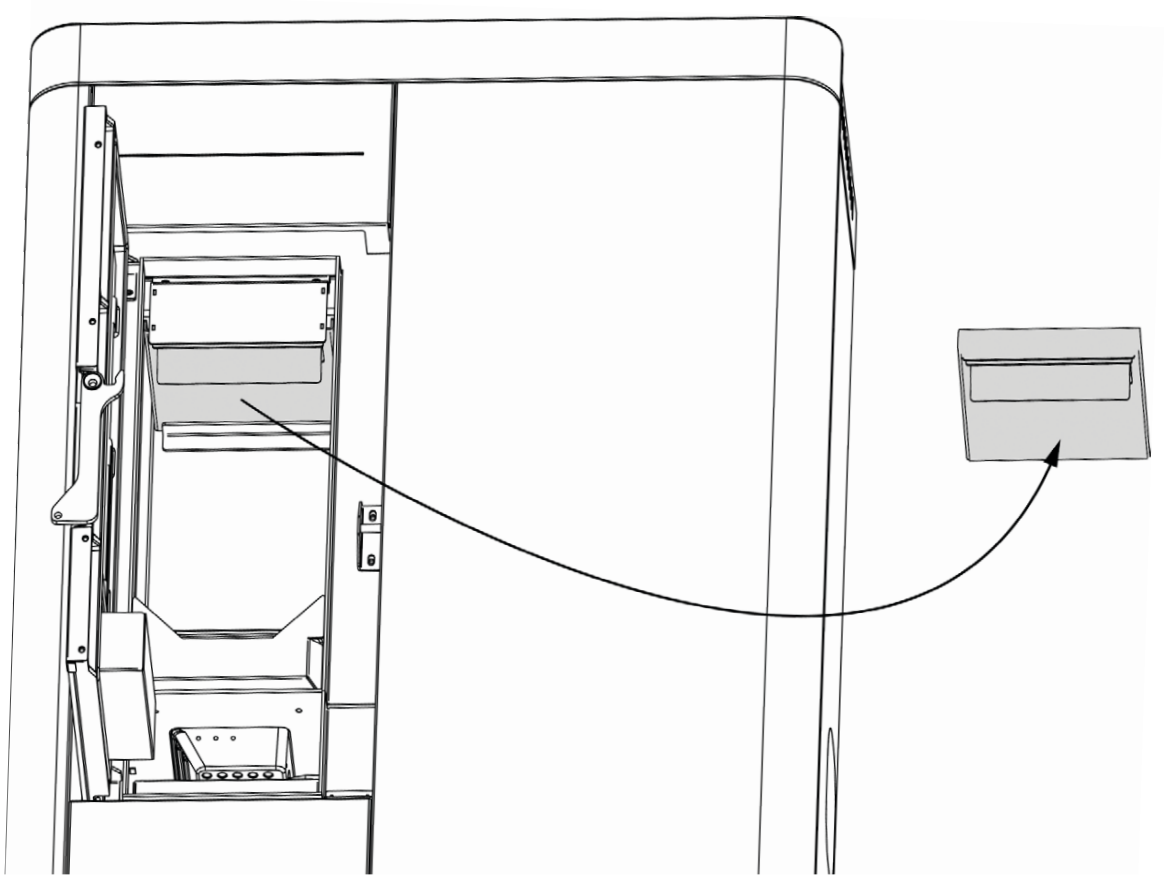
EVERY 30 DAYS

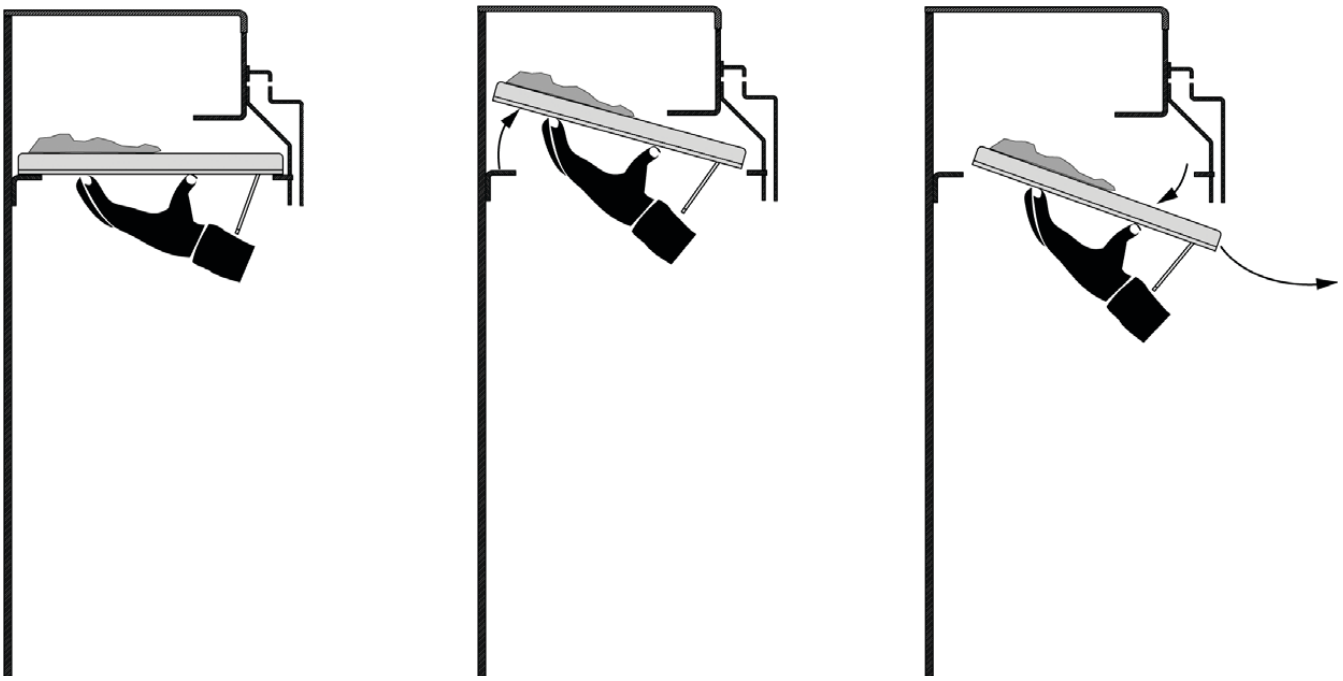
Cleaning "T" fitting with inspection cap outside the stove: check and clean at least once a month

EVERY 30 DAYS

CLEANING THE COMBUSTION CHAMBER DEFLECTOR

Remove the deflector and eliminate the ash deposited in the upper part of the deflector.





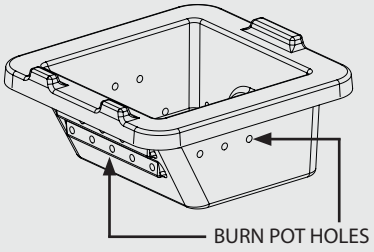
THE GASKETS FOR THE PELLET HOPPER, BURN POT AND FIRE DOOR ENSURE THAT THE STOVE WORKS PROPERLY. IT IS NECESSARY TO PERIODICALLY CHECK THEM; IF THEY SEEM TO BE WORN OR DAMAGED, THEY MUST BE REPLACED IMMEDIATELY.

THESE OPERATIONS MUST BE CARRIED OUT BY A QUALIFIED TECHNICIAN.

A CLEAN BURN POT GUARANTEES CORRECT OPERATION!

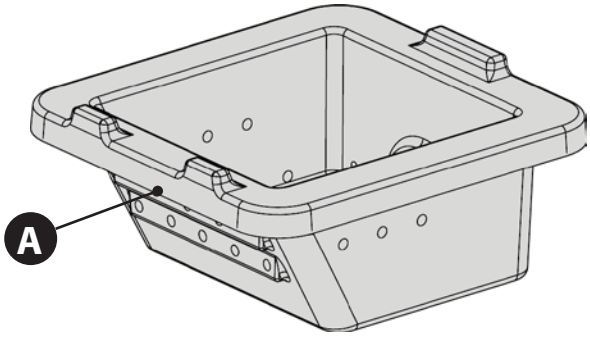
BY MAKING SURE THE BURN POT AND ITS HOLES ARE ALWAYS CLEAN FROM ANY COMBUSTION RESIDUE, EXCELLENT COMBUSTION BY THE GENERATOR IS GUARANTEED OVER TIME, PREVENTING ANY MALFUNCTIONING THAT COULD REQUIRE TECHNICIAN INTERVENTIONS.

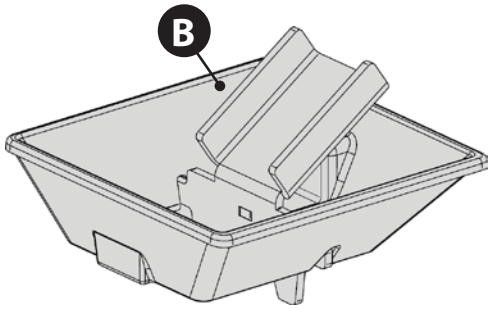
THE "EASY SETUP" FUNCTION IN THE USER MENU CAN BE USED TO ADAPT COMBUSTION ON THE BASIS OF THE NEEDS DESCRIBED.



BURN POT DETAIL

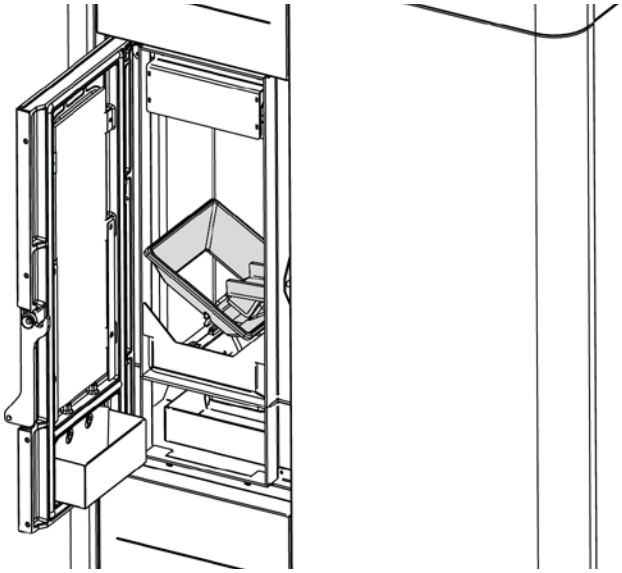
The burn pot consists of several parts:
The burn pot (A) where combustion takes place physically and a pellet chute assembly (B).

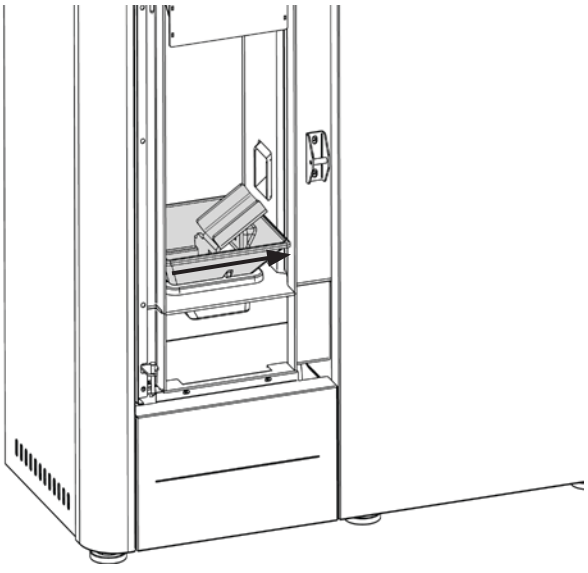




When cleaning and removing the burn pot, remove the pellet chute assembly (B) by lifting it (see figure).
Perform the same operation in reverse order to re-assemble.
After having re-positioned, always make sure:

- 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).





IF THE POWER SUPPLY CABLE IS DAMAGED, IT MUST BE REPLACED BY THE AFTER-SALES SERVICE OR BY A SIMILARLY QUALIFIED PERSON, SO AS TO AVOID ALL RISKS.

ROUTINE MAINTENANCE PERFORMED BY QUALIFIED TECHNICIANS

Routine maintenance must be performed at least once a year.
Using pellets as solid fuel, the generator requires annual routine maintenance, which must be performed by a **qualified technician, using only original spare parts.**

Failure to comply can jeopardise safety of the appliance and make the warranty null and void.
Respecting the frequencies of cleaning reserved for the user described in the use and maintenance manual, the generator is guaranteed correct combustion over time, preventing any anomalies and/or malfunctioning that could require more interventions of the technician. Requests for routine maintenance are not contemplated in the product warranty.

GASKETS: PELLET HOPPER LID, DOOR, ASH DRAWER AND BURN POT

The gaskets guarantee the tightness of the stove and its consequent good functioning.
They must be controlled periodically. They must be replaced immediately if they are worn or damaged.
These operations must be carried out by a qualified technician.

CONNECTION TO THE FLUE

Suck and clean the pipe that leads to the flue yearly or any time that it is necessary. If there are horizontal tracts, the residue must be removed before it can obstruct fumes passage.

DECOMMISSIONING (END OF SEASON)

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

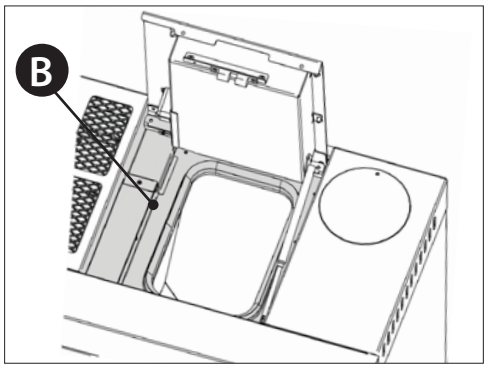
IT IS ADVISABLE NOT TO DISCONNECT THE GENERATOR FROM THE POWER SUPPLY TO ALLOW THE PUMP TO CARRY OUT THE NORMAL ANTI-BLOCK CYCLES.

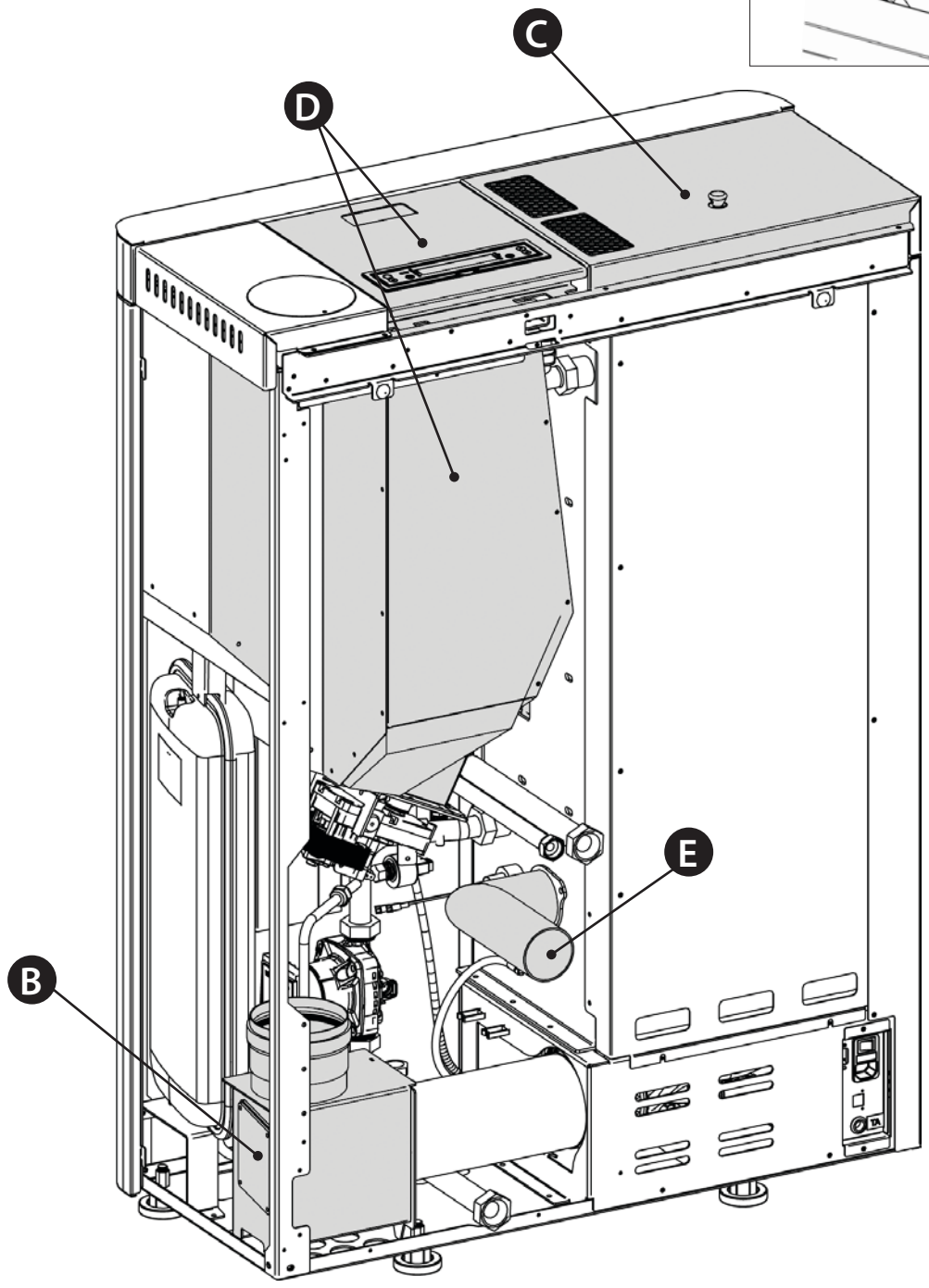
Routine maintenance must be performed at least once a year.

TO FIND OUT WHERE YOUR NEAREST SERVICE CENTRE IS, CONTACT YOUR DEALER OR GO TO THE WEBSITE:
WWW.LANORDICA-EXTRAFLAME.COM

ROUTINE MAINTENANCE

THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY.

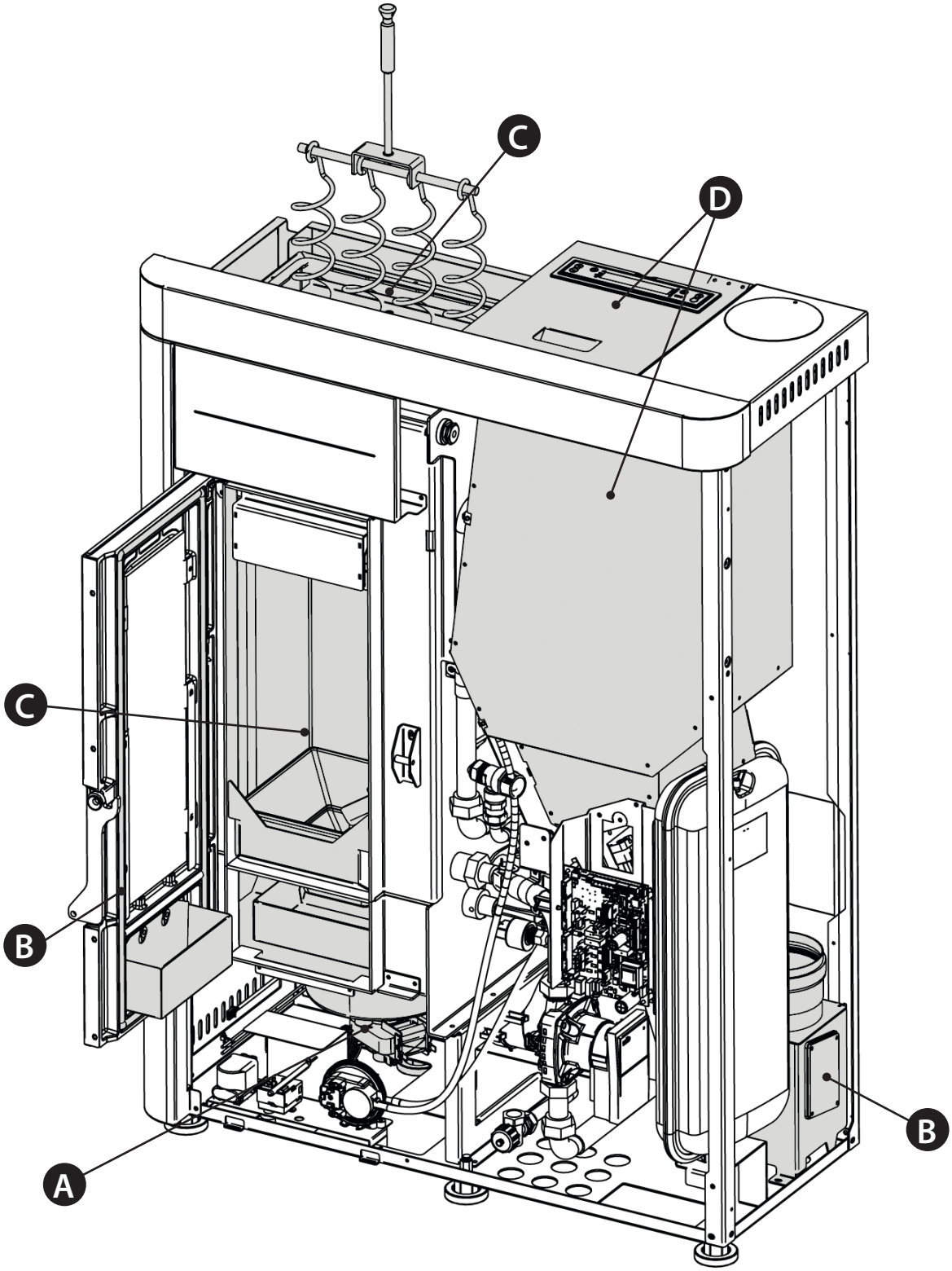




A	Fumes motor (disassembly and cleaning and fumes and "T" pipes), new silicone in the points envisioned
B	Inspections of gaskets, pellet hopper, ash drawer and door (replace them and apply silicone where envisioned)
C	Combustion chamber and heat exchanger (full cleaning) including ignition-plug pipe
D	Hopper (complete emptying and cleaning) and check gasket.
E	Check air intake pipe and cleaning of the flow sensor

ROUTINE MAINTENANCE

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A	Fumes motor (disassembly and cleaning and fumes and "T" pipes), new silicone in the points envisioned
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E	Check air intake pipe and cleaning of the flow sensor

DISPLAYS	
DISPLAY	**REASON**
OFF	Generator off
START	The start-up phase is in progress
PELLET FEEDING	Continuous pellet feeding is in progress during the ignition phase
IGNITION	The ignition phase is in progress
PREPARATION	The preparation phase is in progress
WORK	The normal work phase is in progress
MODULATION	The generator is working at minimum
BLOW	The automatic blow is active
FINAL CLEANING	The final cleaning is in progress
STAND-BY	Generator off waiting for re-ignition due to an external thermostat
COOLING WAITING	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.
H-OFF	Generator off due to water temperature over set
T - OFF	Generator off waiting for re-ignition due to all requests met
BLACK OUT WAITING	The generator is cooling after a power cut. Once cooling is completed, it will re-start automatically
ANTI-FREEZE	The anti-freeze 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
ANTI-BLOCK	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

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 only be reset if the fumes motor has stopped and 15 minutes have passed since the alarm was displayed, by pressing key 1/ ⏻ for 3 seconds.
FUMES MOTOR FAULT	Fumes motor fault	Contact after-sales centre
FUMES PROBE	Flue gas probe fault.	Contact after-sales centre
CHAMBER PROBE	Chamber probe fault.	Contact after-sales centre
HOT FUMES	High fumes temperature	Check pellet feed (see "EASY SETUP"), if the problem cannot be solved, contact an authorised technician.

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NO FLAME	The pellet hopper is empty. No pellet feed. The gearmotor does not feed pellets.	Check for the presence of pellets in the hopper. Adjust the pellet flow (see "EASY SETUP").
DEPR ALARM	The door is not closed correctly. The ash drawer is not closed correctly. The combustion chamber is dirty. The fumes exhaust pipe is blocked/dirty.	Check hermetic door closure. Check hermetic closure of the ash drawer. Check cleanliness of the fumes pipe and the combustion chamber.
NO IGNITION	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 "EASY SETUP"). Check the procedures described in the "Ignition" chapter. Check the thermostats with bulbs (see chapter on resetting)
NO IGNITION BLACK OUT	No current during the ignition phase.	Turn the stove OFF using key 1 and repeat the procedure described in the "Ignition" chapter.
ALARM COMMAND AUGER	Abnormal pellet loading.	Contact after-sales centre
MIN H20 PRESSURE ALARM	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 after-sales centre
MAX H20 PRESSURE ALARM	Air in the system Inadequate circulation	Possible air in the system; bleed the system. Lack of adequate circulation. Lack of or inadequate safety zone. The water in the stove has exceeded 95°C. Possible pump defect. If the problem persists, restore operations must be performed by an authorised technician.
H2O PROBE	H2O probe fault	Contact after-sales centre
*** DHW PROBE**	Fault in DHW probe.	Contact after-sales centre
*** BUFFER TANK PROBE**	Fault in Buffer tank probe.	Contact after-sales centre
CLOSE HOPPER - STOVE DOOR	Pellet hopper open. Stove door open. Air inlet clogged or dirty.	Check that the pellet hopper and the combustion chamber door are closed correctly. Check air inlet.
BLOCKED PWM ALARM	The pump has stopped permanently. Pump blocked. Electronic module damaged	Contact after-sales centre
HOT PWM ALARM	The pump is operating but not with good performance. Undervoltage 160-194v. Pump in circuit breaker protection mode.	Contact after-sales centre
STOPPED PWM ALARM	The pump has stopped but is still operational. Undervoltage < 160v. Overvoltage. Unexpected external flow.	Contact after-sales centre
STOPPED 2 PWM ALARM	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
FLOW PWM ALARM	Pump blocked. Liquid with high density. Pipe obstructed.	Contact after-sales centre
PWM INTERFACE ALARM	IPWM output interface damaged, in short circuit or not connected	Contact after-sales centre

* if there is an additional system data-sheet.

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GUARANTEE TERMS

1. Extraflame S.p.A. products are guaranteed, within the European community, for 24 months from the date of purchase.
Purchase has to be proved by means of a valid fiscal document issued by the seller (receipt, invoice or shipment document) identifying the purchased product and its purchase and/or delivery date.

WARNING: This conventional guarantee does not replace the guarantee regulated by the European legislation on consumer rights.

The conventional guarantee is only applicable to the Italian region and to those areas, within the European Community, where the Authorised Technical Assistance Centres are active (see the www.lanordica-extraflame.com website)
It is also limited to the state of residence of the consumer, which must coincide with the premises and/or registered office of the seller of the Extraflame S.p.A. product
These regulations do not apply if the product is purchased within commercial, entrepreneurial, or professional circumstances. In these cases the product guarantee will be limited to a period of 12 months from the date of purchase.

ITALIAN GUARANTEE
What must be done if there is a product malfunction:
Consult the instructions manual to make sure the malfunction cannot be solved by using the product correctly. Make sure the malfunction is included in those covered by the guarantee; otherwise the cost of the intervention will be borne entirely by the consumer. When requesting the intervention of the Assistance service at the Authorised Assistance Centre, always specify: - type of malfunction - model of the appliance - complete address - phone number

EUROPEAN GUARANTEE
What must be done if there is a product malfunction:
Consult the instructions manual to make sure the malfunction cannot be solved by using the product correctly. Make sure the malfunction is included in those covered by the guarantee; otherwise the cost of the intervention will be borne entirely by the consumer. Request the intervention of the Assistance service or the address of the Authorised Technical Assistance Centre to the seller; always specify: type of malfunction, model of the appliance, complete address and phone number

If the malfunction arises in the first 6 months of the product's life, the consumer has the right to have the product repaired with no expense. From the seventh to the twenty-fourth month, if a malfunction arises, the consumer will bear the cost of the call, while the seller will pay for the manpower and for any spare parts used.

2. If the malfunction is linked to external events and/or conditions such as, including but not limited to, insufficient capacity of the systems; wrong installation and/or maintenance by the personnel which hasn't got the skills prescribed by the laws of the country of residence of the consumer; negligence; inability to use the product and wrong maintenance by the consumer, with respect to what is reported and recommended by the instructions manual of the product, which is part of the sales contract, this guarantee will be void.
Damage to the product that cannot be related to manufacturing defects are also not included in this guarantee. Similarly are excluded defects related to incorrect operation of the flue, according to the legislation in force in the country at the moment of purchase. Other exclusions include all product defects due to carelessness, accidental breakdown, tampering and/or damage during transport (scratches, dents, etc.), interventions carried out by unauthorised personnel and further damage caused by incorrect interventions by the consumer trying to arrange the initial malfunction.
The following consumables are excluded by the guarantee: gaskets, ceramic or tempered glasses, cast iron grilles or coatings, refractory materials (e.g. Nordiker or others), painted, chrome-plated or golden parts, majolica ware, handles, the brazier and its related components. For Idro products the heat exchanger is not covered by the guarantee if a suitable condensation-proof circuit is not set up to ensure a return temperature of the device of at least 55°C. The guarantee excludes all the external components on which the consumer can directly operate during use and/or maintenance or that can be subject to wear and/or rust and stains on steel due to aggressive detergents.
If malfunctions are signalled which are not later confirmed during check by an authorised technician, the cost of the intervention will be borne entirely by the consumer.

3. If it is not possible to restore product conformity by repairing it, the product/component will be replaced, the guarantee expiration date and conditions will remain the same established when the product/component to be replaced has been purchased.

4. Extraflame S.p.A. cannot be held liable for injury or damage which may - either directly or indirectly - be caused to persons, animals and property ensuing from failure to observe all the instructions provided in the relevant instruction manual and the warnings regarding installation, use and maintenance of the product, that can also be downloaded on the website.

5. Interventions for adjusting and/or regulating the product for the type of fuel or other reasons are excluded by the guarantee.

6. If the product is repaired in one of the Authorised Technical Assistance Centres indicated by Extraflame S.p.A. and if the product is replaced, transport will be free of charge. If the technician can repair the product at the user's place of residence and they refuse, transport to the workshop and redelivery will be paid by the consumer.

7. After the 24 months of the guarantee have elapsed any repair intervention cost will be completely borne by the consumer.

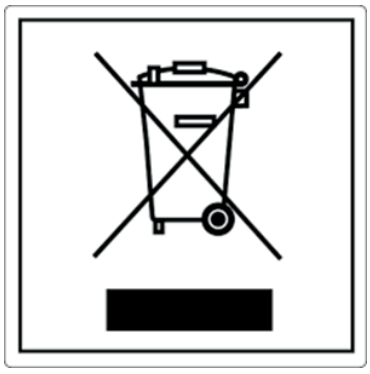
8. In the case of disputes the only competent court is that of the Extraflame S.p.A. registered office - (Vicenza-Italy)

ADDITIONAL WARNINGS

- Only use the fuel recommended by the manufacturer. The product must not be used as an incinerator.
- Do not use the product as a ladder or supporting structure.
- Do not place laundry on the product to dry it. Any clothes-horse or similar objects must be kept at due distance from the product. Danger of fire or damage to the coating.
- The user is fully liable for any incorrect use of the product. The manufacturer bears no civil or criminal liability for incorrect use.
- Unauthorised tampering of any nature or replacement of spare parts of the product with non-original parts may endanger the operator and the manufacturer bears no civil or criminal liability for this.
- Large parts of the surface of the product can get very hot (door, handle, glass, smoke outlet pipes, etc.). Please therefore avoid coming into contact with these parts without wearing suitable protective clothing or using appropriate measures, such as heat protective gloves.
- DO NOT use the product with the door open or if the glass is broken.
- The product must be electrically connected to a system equipped with an operational earthing system.
- Turn off the product in the event of a failure or malfunctioning.
- Unburned pellets that build up in the burner following each failed start-up must be removed before attempting to start up the product again. Make sure that the burner is clean and correctly positioned before starting it up again.
- Do not wash the product with water. Water may penetrate into the unit and cause faults in the electrical insulation. This can cause electric shocks.
- Installations not complying with the regulations in force, as well as incorrect use and failure to comply with the maintenance scheduled by the manufacturer, will invalidate the guarantee.

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.

Extraflame®

Riscaldamento a Pellet

Extraflame S.p.A. Via Dell'Artigianato, 12 36030 - MONTECCHIO PRECALCINO (VI) - ITALY
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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

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.
This manual, therefore, cannot be regarded as a contract towards other parties.