

# **Extraflame**®

Riscaldamento a Pellet



UK

**MADE IN ITALY**  
design & production

## PELLET STOVES USER MANUAL TEOREMA - TEOREMA PLUS

APPLY TECHNICAL  
DATA LABEL



## ATTENTION



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

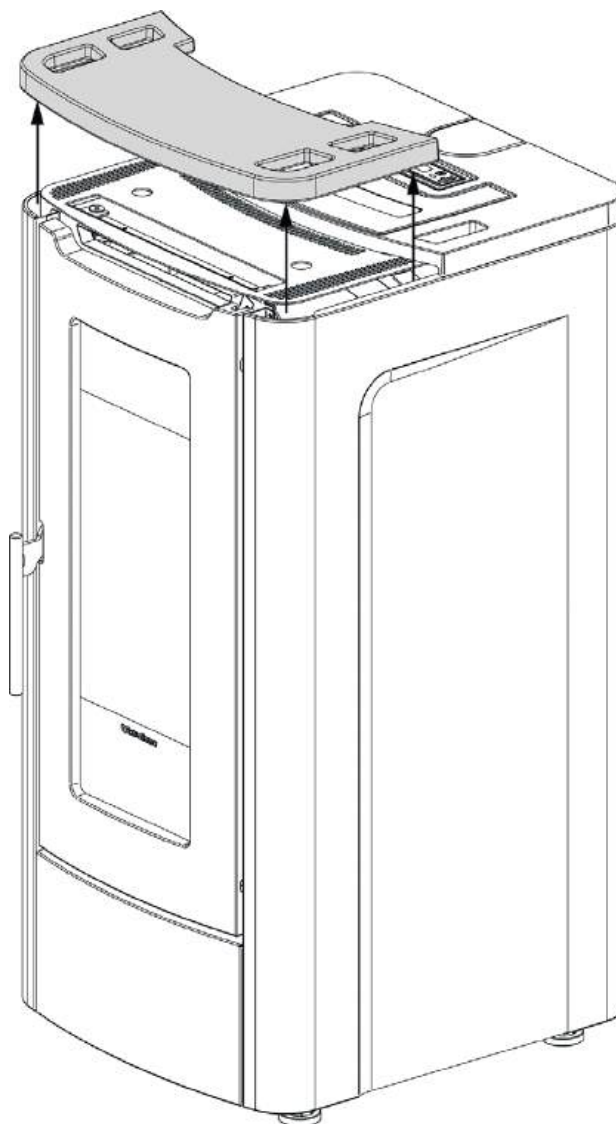
*During combustion, thermal energy is released that significantly increases the heat of surfaces, doors, handles, controls, glass, exhaust pipes, and even the front of the appliance. Avoid contact with those elements if not wearing protective clothing (protective gloves included). Make sure children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

## ENGLISH .....6

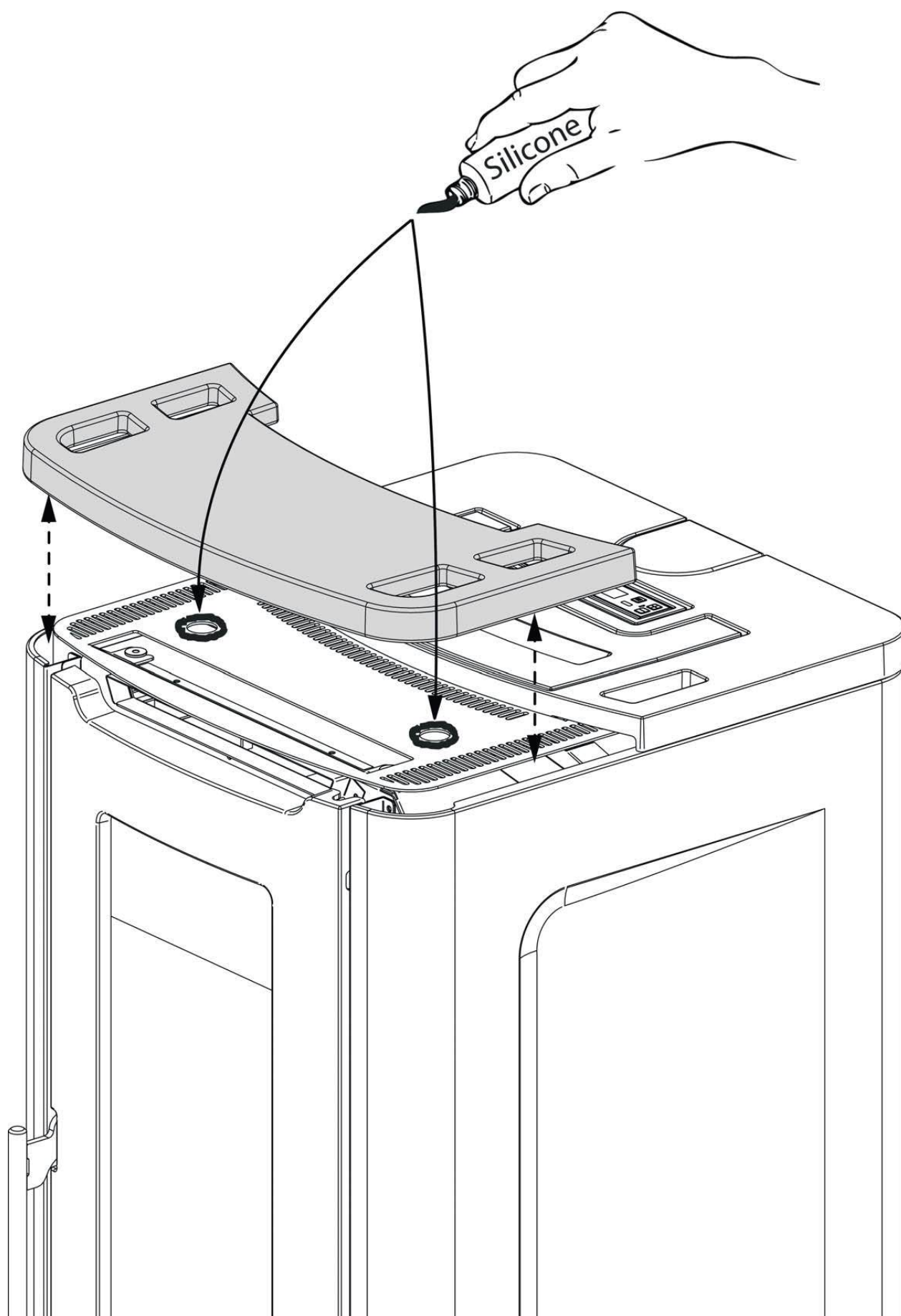
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<b>ATTENZIONE TASSATIVO</b> <b>PRIMA DI MOVIMENTARE LA STUFA TOGLIERE LE</b> <b>MAIOLICHE INDICATE PER EVITARE DANNI.</b>	<b>ATENÇÃO - OBRIGATÓRIO</b> <b>ANTES DE MOVIMENTAR A SALAMANDRA, RE-</b> <b>TIRAR AS CERÂMICAS INDICADAS PARA EVITAR</b> <b>DANOS.</b>
<b>ATTENTION - COMPULSORY</b> <b>BEFORE MOVING THE STOVE, KINDLY TAKE THE</b> <b>CERAMICS OFF IN ORDER TO</b> <b>AVOID ANY DAMAGES</b>	<b>TÄHELEPANU!</b> <b>ENNE AHJU LIIGUTAMIST EEMALDAGE SELLELT</b> <b>NÄIDATUD KERAAMILISED OSAD, ET VÄLTIDA</b> <b>KAHJUSTUSI.</b>
<b>ATTENTION - OBLIGATOIRE</b> <b>AVANT DE BOUGER LE POÊLE , FAIRE ATTENTION À</b> <b>LEVER LES CÉRAMIQUES</b> <b>INDIQUÉES POUR ÉVITER DES DÉGÂTS</b>	<b>OBVEZNA POZORNOST</b> <b>PRIJE POMICANJA PEĆI, UKLONITE OZNAČENE</b> <b>PLOČICE KAKO BISTE IZBJEGLI OŠTEĆENJA.</b>
<b>VORSICHT - OBLIGATORISCH</b> <b>BEVOR SIE DEN OFEN BEWEGEN, BITTE UNBE-</b> <b>DINGT DIE BEZEICHNETE KERAMIK KACHELN</b> <b>ENTFERNEN UM SCHÄDEN ZU VERMEIDEN</b>	<b>POZOR OBVEZNO</b> <b>PRED PREMIKANJEM PEČI ODSTRANITE OZNAČENE</b> <b>MAJOLIKE, DA PREPREČITE POŠKODOVANJE.</b>
<b>ATENCIÓN - PERENTORIO</b> <b>ANTES DE MOVER LA ESTUFA SACAR LAS</b> <b>MAYÓLICAS INDICADAS PARA EVITAR DAÑOS.</b>	<b>ADVARSEL - OBLIGATORISK</b> <b>FØR DU FLYTTER OVNEN, BØR DU TAGE</b> <b>KERAMIKFLISERNE AF FOR AT UNDGÅ SKADER.</b>

TEOREMA - TEOREMA PLUS



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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 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.**
- ♦ **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

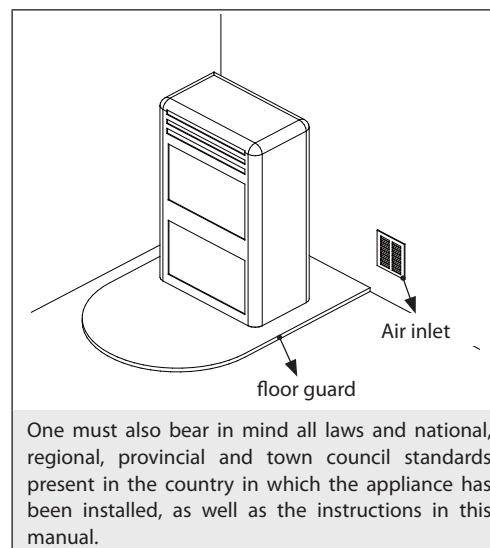
Installation next to combustible or heat-sensitive materials is permitted, **provided that suitable safety distances are maintained, as specified in the CEMI (CE Marking Information), the Declaration of Performance (DoP) and the label at the beginning of the manual (page 2).**

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  $d_p$ .

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.



### 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;
- 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;
  - 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 data sheet) soot fire resistance
- Flue pipe - Temperature class, at least T250, Pressure class, P1 (not indicated in the technical datasheet)

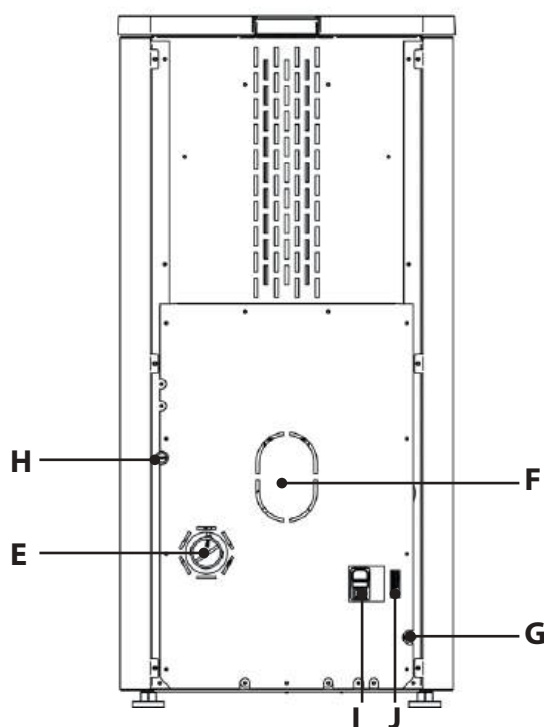
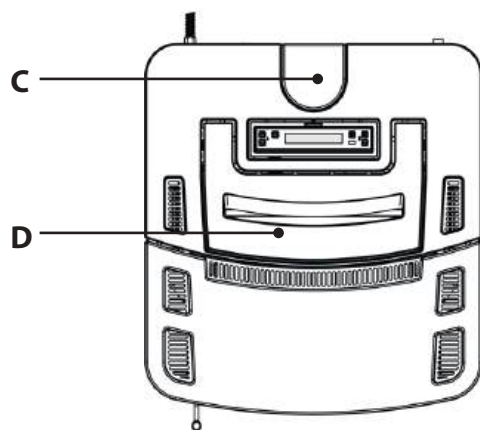
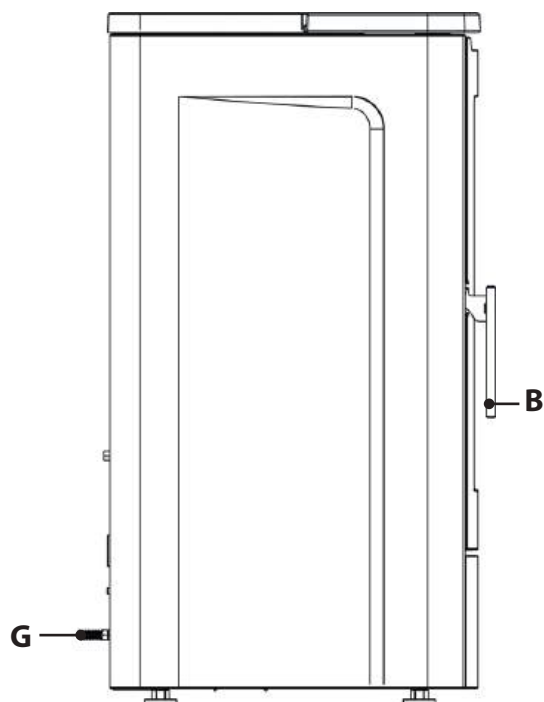
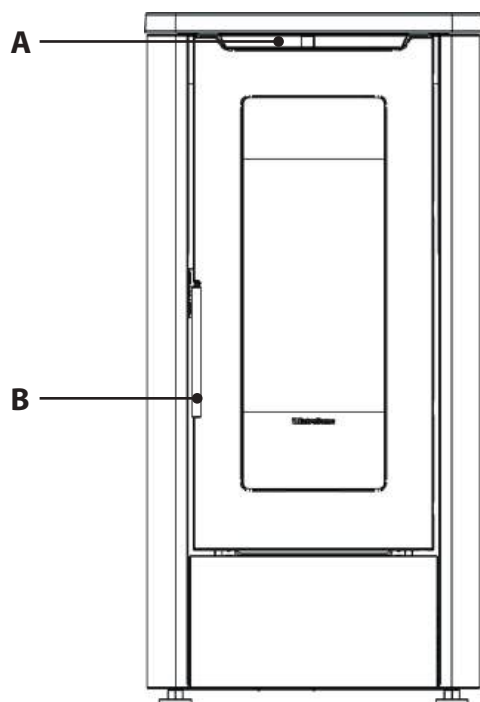
## CHIMNEY COWL

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;

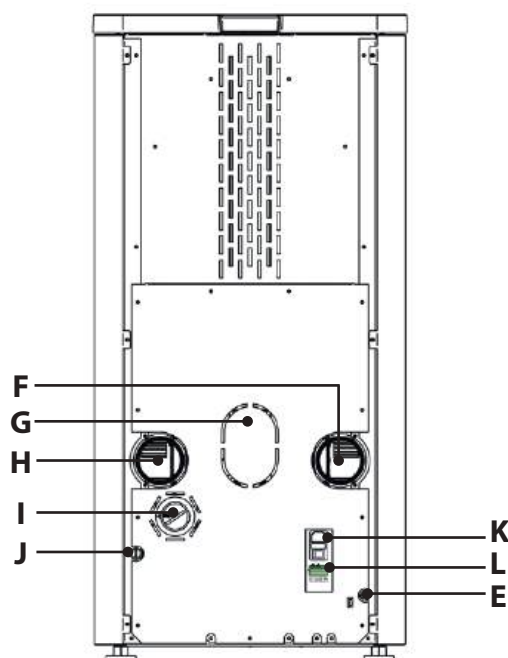
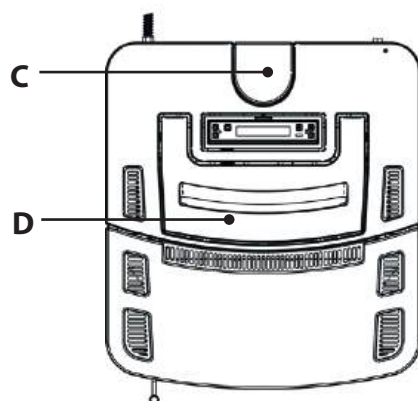
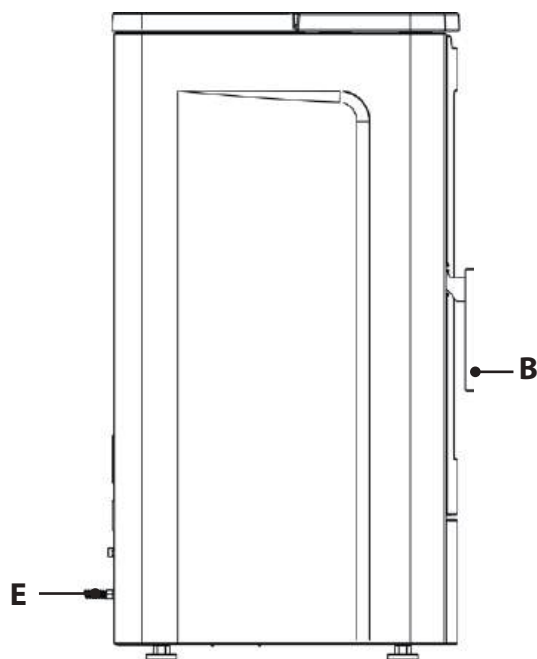
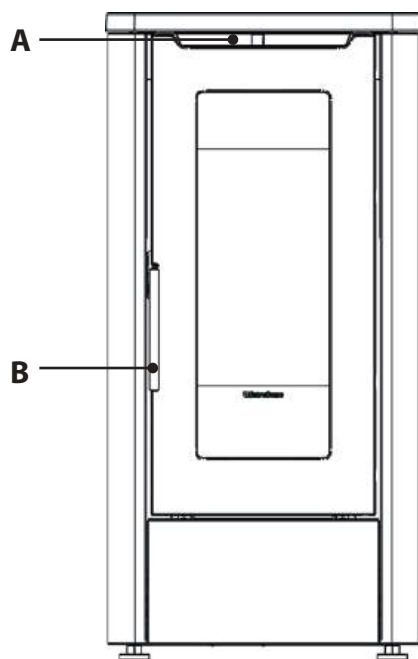


## TEOREMA DETAILS



<b>A</b>	Ambient air outlet	<b>D</b>	Pellet hopper	<b>H</b>	Bulb thermostat reactivation
<b>B</b>	Access to combustion chamber and ash drawer	<b>E</b>	Combustion air inlet	<b>I</b>	On/Off Fuse 230V power supply
<b>C</b>	Upper fumes exhaust	<b>F</b>	Rear fumes exhaust	<b>J</b>	Additional thermostat input TA
		<b>G</b>	Ambient probe		

## TEOREMA PLUS DETAILS



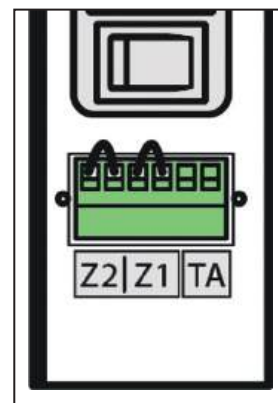
<b>A</b>	Room air outlet	<b>F</b>	Air ducting Z2 outlet	<b>K</b>	230 V power supply Fuse On/Off
<b>B</b>	Access to combustion chamber and ash drawer	<b>G</b>	Rear flue gas outlet		
<b>C</b>	Upper fumes exhaust	<b>H</b>	Air ducting Z1 outlet		
<b>D</b>	Pellet hopper	<b>I</b>	Combustion air inlet	<b>L</b>	Air ducting Z1-Z2 additional thermostat input Additional thermostat TA input
<b>E</b>	Room probe	<b>J</b>	Bulb thermostat reactivation		

## AIR DUCTING CHARACTERISTICS (TEOREMA PLUS)

The stove has 2 independent outlets for air ducting.  
Air ducting 1 - 2 are enabled by factory default.

Features:

- diameter of air ducting outlet: 2x80 mm
- maximum recommended air ducting length 8 m
- temperature controlled air ducting
- Speed regulation can be set in 3 modes: OFF, AUTO, COMFORT
- independent air ducting with option for enabling/disabling (ON-OFF)



### FACTORY DEFAULT OPERATION IN AIR DUCTING MODE

Air ducting 1 and 2 are always in request by factory default (jumpers on 1 and 2 present), and follow the stove settings.

- No settings necessary.

### OPERATION IN AIR DUCTING WITH THERMOSTAT OR PROBE (OPTIONAL)

The stove is fitted with two independent motors for air ducting. The connection of an external thermostat or temperature probe (NTC 10K) in inputs 1 and 2, located in the rear part of the stove, makes it possible to control the air ducting motor independently of the stove.

Suffice it to connect the thermostat/temperature probe and set the desired temperature.

For information on air ducting settings see chapter: "MENU - AIR DUCTING"

### WITH AMBIENT THERMOSTAT (OPTIONAL)

Remove the jumper on 1 and connect the ambient thermostat in the room that needs to be temperature-controlled through air ducting 1.

**3 control modes:**

OPERATION IN AIR DUCTING WITH AMBIENT THERMOSTAT (OPTIONAL)	
SET configured to OFF (the temperature setting is not visible)	The air ducting motor will remain off unless the fumes temperature exceeds the normal operating temperatures
SET configured to AUTO (the temperature setting is not visible)	Once the specific activation threshold has been reached and exceeded, at temperature to be satisfied (CLOSED CONTACT) the air ducting motor will follow the stove settings. When the temperature set on the thermostat is reached (OPEN CONTACT), the air ducting motor will switch OFF and switch on again when there is a new request.
SET configured to COMFORT (the temperature setting is not visible)	Once the specific activation threshold has been reached and exceeded, at temperature to be satisfied (CLOSED CONTACT) the air ducting motor will follow the stove settings but at a lower speed than in SET AUTO for increased acoustic/ambient comfort. When the temperature set on the thermostat is reached (OPEN CONTACT), the ducting motor will switch off and switch on again when there is a new request.
SAME OPERATING SETTINGS FOR AIR DUCTING 2 MOTOR	

### WITH PROBE (NTC 10K)

Remove the jumper on 1 and connect the NTC probe in the room that needs to be temperature-controlled through air ducting 1.

**3 control modes:**

## OPERATION IN AIR DUCTING WITH NTC PROBE 10KΩ (OPTIONAL)

SET configured to OFF  
Set the desired temperature ( from 7 to 37 °C)

The air ducting motor will remain off unless the fumes temperature exceeds the normal operating temperatures

SET configured to AUTO  
Set the desired temperature ( from 7 to 37 °C)

Once the specific activation threshold has been reached and exceeded, at temperature to be satisfied the air ducting motor will follow the stove settings.  
When the temperature set in TEMPERATURE is reached, the air ducting motor will switch OFF and switch on again when there is a new request.

SET configured to COMFORT  
Set the desired temperature ( from 7 to 37 °C)

Once the specific activation threshold has been reached and exceeded, at temperature to be satisfied the air ducting motor will follow the stove settings but at a lower speed than in SET AUTO for increased acoustic/ambient comfort.  
When the temperature set in TEMPERATURE is reached, the air ducting motor will switch off and switch on again when there is a new request.

**SAME OPERATING SETTINGS FOR AIR DUCTING 2 MOTOR**

## TA ADDITIONAL THERMOSTAT (OPTIONAL)

The appliance is able to control the room temperature through an additional thermostat (optional).

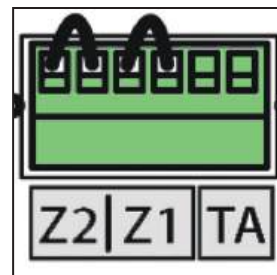
After ignition (by pressing key 1 or in chrono mode), the stove will work to reach the set value on the thermostat, displaying WORK (closed contact) on the screen. The on-board ambient probe will automatically be ignored.

TO INSTALL AND ACTIVATE:

- A mechanical or digital thermostat is required.
- Remove the plug from the socket.
- Using the image to the side as a guide, connect the two thermostat wires (clean contact - no 230 V!) to the respective terminals at the back of the machine.
- Connect the power to the stove again.

The stove is now correctly configured.

It will work by checking the external additional thermostat based on the TA function.



**FOR CORRECT OPERATION SET THE AMBIENT SET THERMOSTAT TO LOW-TA**



**INSTALLATION MUST BE PERFORMED BY QUALIFIED STAFF AND/OR THE MANUFACTURER'S SERVICE TECHNICIANS**

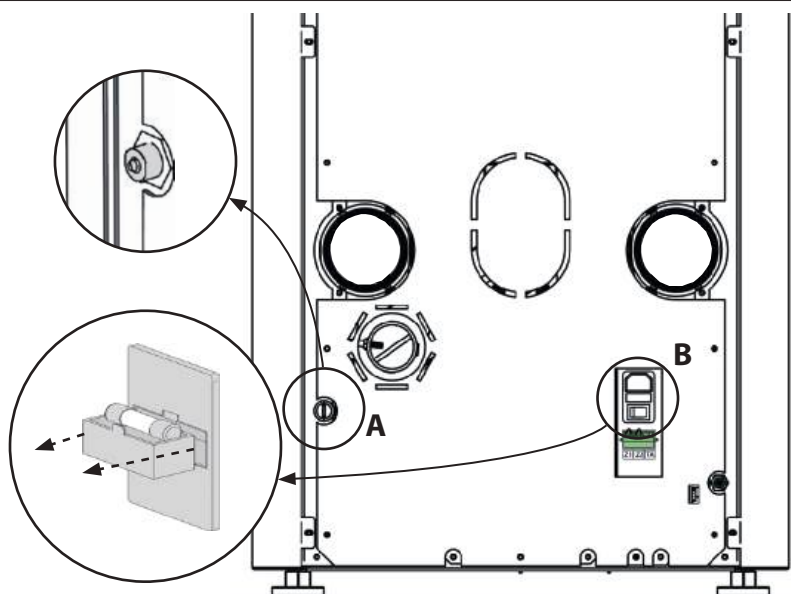
### BULB THERMOSTAT REACTIVATION

The figure shows the position of the hopper safety thermostat (A).

It is recommended to contact the qualified technician if one of the thermostats is triggered, so as to verify the cause.

### FUSE

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



## 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:

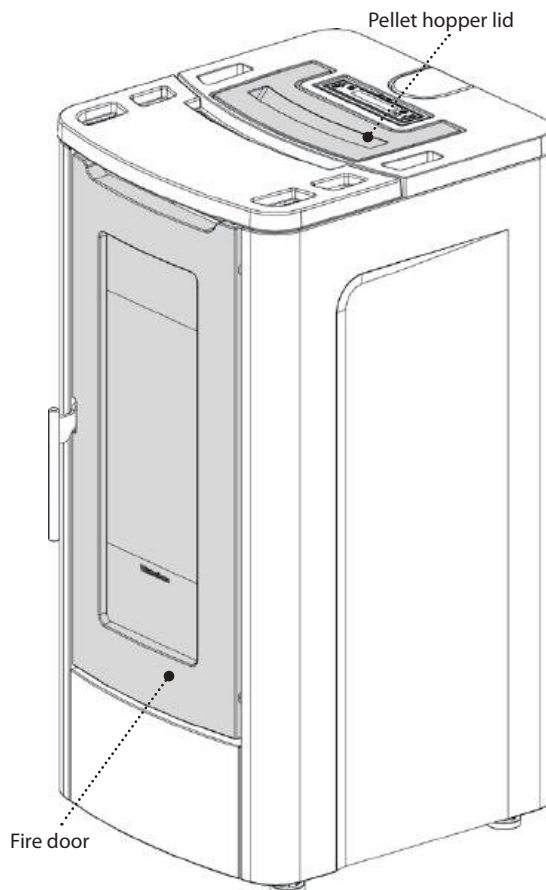
Both during stove operation and when it is not used, all hatches (pellet hopper, door, ash drawer) must remain closed at all times. They can be opened only for the time required to load the fuel and for maintenance.

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 seconds to close the hatch/door and the pellet lid.

After the 60 seconds, 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.).





## 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").

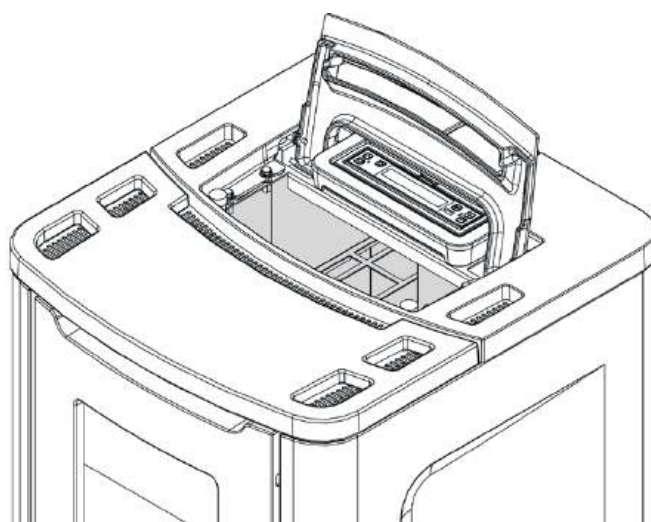
**UNI EN 303-5** with the following characteristics: water content  $\leq 12\%$ , ash content  $\leq 0.5\%$  and lower calorific value  $> 17$  MJ/kg (in the case of boilers).

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 WILL COMPROMISE STOVE FUNCTIONS, VOIDING THE WARRANTY AND RELEASING THE MANUFACTURER OF LIABILITY.**

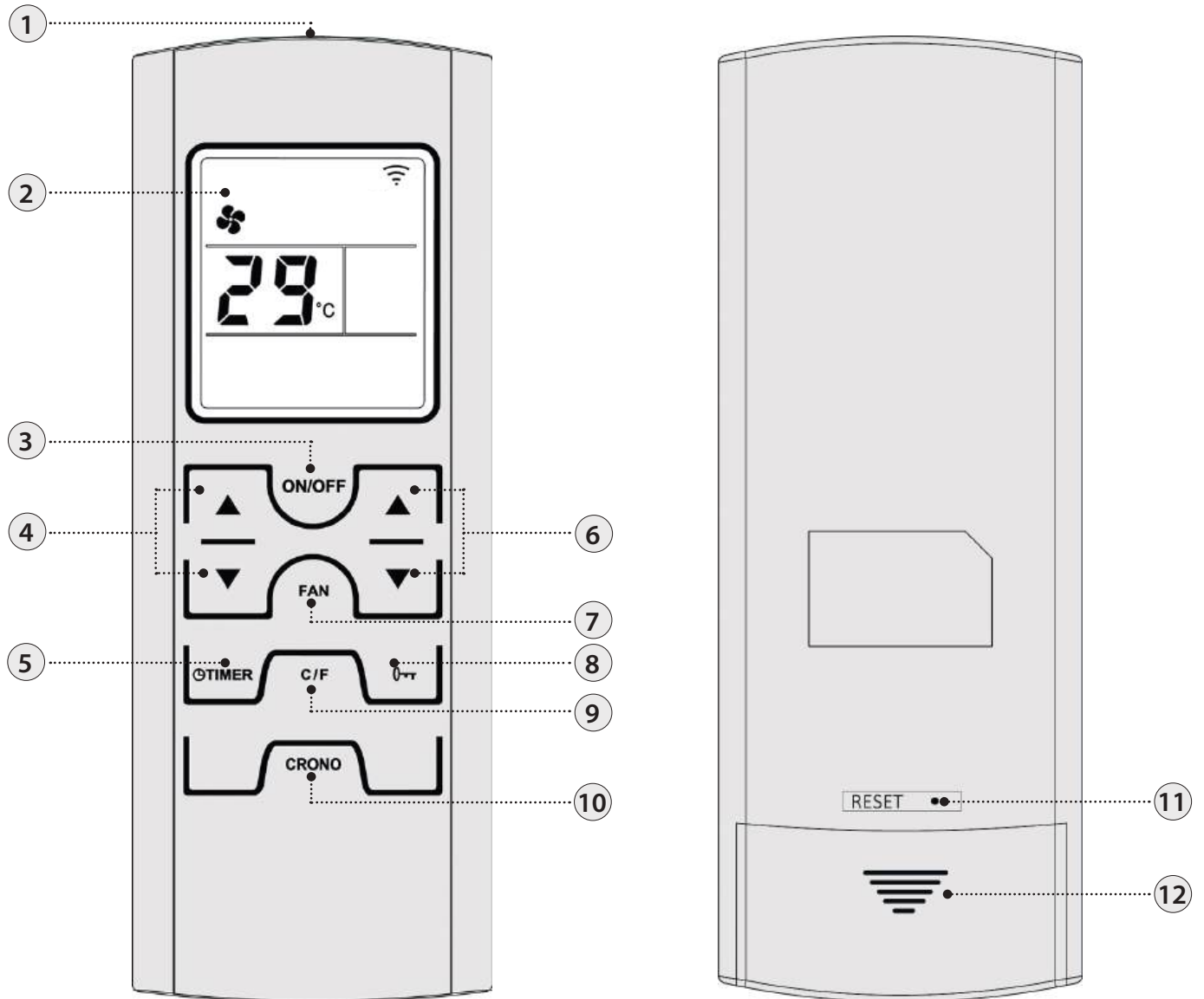


**DO NOT PLACE THE BAG DIRECTLY ON THE STOVE TO LOAD THE TANK.  
ALWAYS USE A SCOOP TO LOAD THE TANK. DO NOT RUB OR PLACE WEIGHTS ON THE TANK SEAL. KEEP THE TANK COVER SEAL SUPPORTING SURFACE CLEAN AT ALL TIMES. CHECK THE CONDITIONS OF THE SEAL FREQUENTLY. IF DAMAGED, CONTACT YOUR LOCAL AUTHORISED TECHNICIAN.**

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.






## REMOTE CONTROL

The remote control can be used to adjust the main stove functions.



<b>1</b>	Transmitter	<b>7</b>	Select air mode
<b>2</b>	Display	<b>8</b>	Lock keyboard
<b>3</b>	On/off stove (hold for 3 seconds)	<b>9</b>	Degrees Celsius / Fahrenheit
<b>4</b>	Set power	<b>10</b>	Press the button once to enable or disable the chrono
<b>5</b>	Set switch-off delay: The button allows to set the switch-off delay. For example, if you set it to one hour, the stove will automatically switch off after the set time	<b>11</b>	Reset
<b>6</b>	Set room temperature	<b>12</b>	Battery compartment

## REMOTE CONTROL ICONS

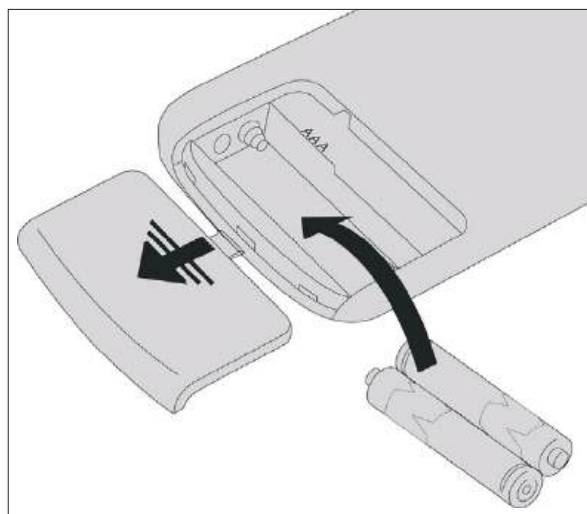
	Air mode selected: Flashing COMFORT On AUTO		Enable chrono Light on = activated Light off = deactivated
<b>OFF TIME</b> <b>6:00</b>	Set switch-off delay		Indicates the transmission of the radio signal On = during all radio communication Off = radio communication absent
	Battery low		Keys locked
<b>P3</b>	Set power level. The power level is displayed, instead of the set room temperature, for 3 seconds when one of the set power buttons is pressed (4).		

## INSERTING THE BATTERIES

Remove the battery compartment cover by sliding it down. Insert 2 AAA batteries.

Insert the batteries respecting the correct polarity (+) and (-).  
Close the cover of the battery compartment.

**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 BATTERIES, MAKE SURE YOU FOLLOW THE SYMBOLS PRINTED INSIDE THE REMOTE CONTROL.**

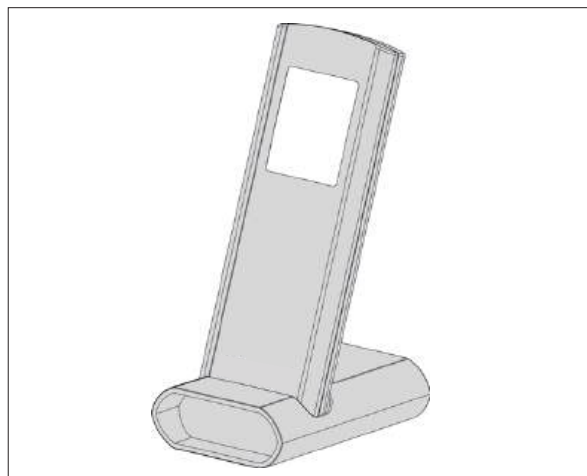


### Respect the environment!

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

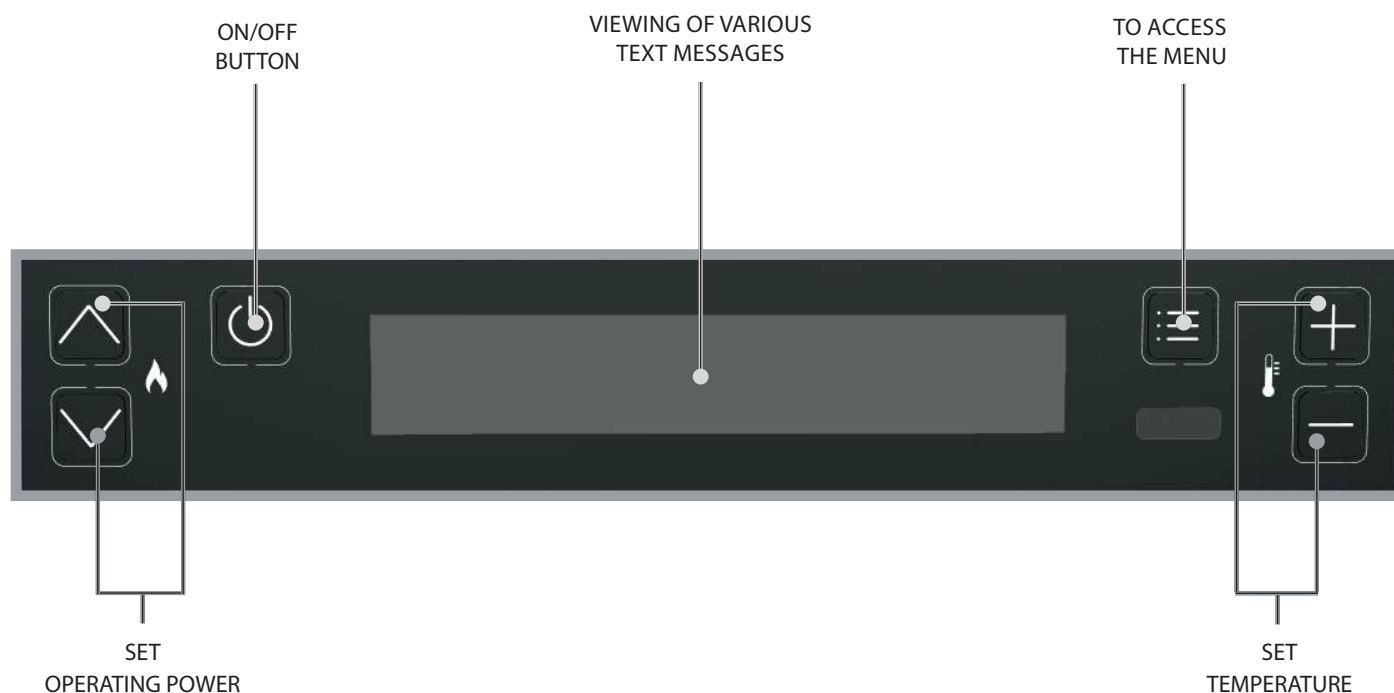
## ADVICE AND PRECAUTIONS FOR THE USE OF THE REMOTE CONTROL

- ♦ Remove the batteries if it is not used for a long time.
- ♦ When being used, direct it towards the stove's signal receiver.
- ♦ Handle the remote control with care. When it is not being used, place it on the special base supplied.
- ♦ The remote control must not be left in a place where it is exposed to direct sunlight or near a source of heat.
- ♦ The quality of the signal may be affected by other IR sources.



THE REMOTE CONTROL IS FITTED WITH AN LCD BACKLIT DISPLAY. THE BACKLIGHTING LASTS 20 SECONDS FROM THE LAST PRESS OF A BUTTON. AFTER A CERTAIN TIME, TO SAVE BATTERY POWER, THE DISPLAY TURNS OFF (ENERGY SAVING MODE).  
THE CONTROL FUNCTIONS ARE REACTIVATED WHEN THE REMOTE IS REMOVED FROM ITS UNIT OR BY A LONG PRESS OF THE BUTTON.

## CONTROL BOARD

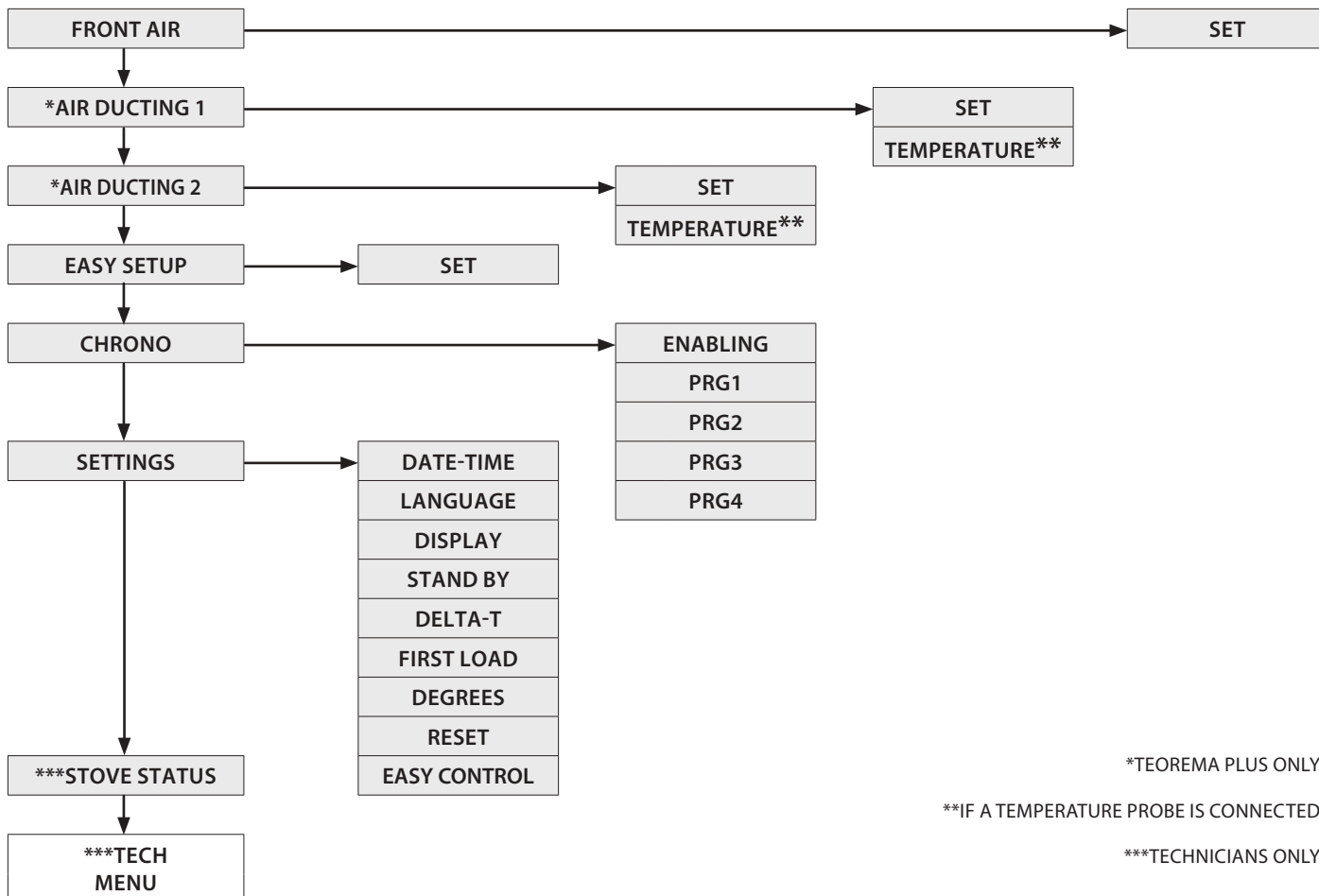


ICON KEY			
	Indicates the presence of an alarm. Off: indicates there are no alarms On: indicates the presence of an alarm		Indicates the weekly programming status Off: deactivated. On: activated.
<b>BT</b>	Not in use	<b>WI-FI</b>	Not in use
	Indicates contact of the external additional thermostat Closed contact: the contact of the external additional thermostat is closed. Open contact: the contact of the external additional thermostat is open.  (Icon visible only if <b>SET THERMOSTAT</b> is set to "LOW-TA")	<b>STBY</b>	<b>STAND BY</b> function icon Off: deactivated. On: activated.
	Indicates the stove power. Flame on: stable power. Flame flashing: the power is increasing or decreasing. The dashes indicate the actual power of the machine.		Not in use.
	It indicates the operation of the tangential fan. Off = ventilation not active. On = ventilation active. Flashing = ventilation active in <b>COMFORT</b> mode		Indicates the <b>DELAY SWITCH-OFF</b> function  On = delay switch-off active Off = delay switch-off not active

## GENERAL MENU



- 1 Go back - exit
- 2 3 Scroll parameters: next (3); previous (2)
- 4 5 Modify data settings: increase (4); decrease (5)
- 6 Confirm - access menu



\*TEOREMA PLUS ONLY

\*\*IF A TEMPERATURE PROBE IS CONNECTED

\*\*\*TECHNICIANS ONLY

## 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 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:

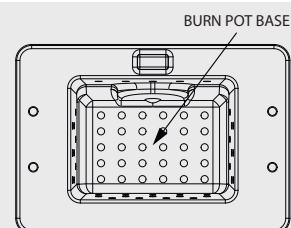
The process is completed after a few heating/cooling cycles. Do not use for the combustion of elements or substances other than those indicated in the manual.

### 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 completely loaded
- ♦ The combustion chamber and the burn pot must be clean
- ♦ Make sure that the fire holder, the ash pan 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".



**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 PROPER COMBUSTION. THE "EASY SETUP" FUNCTION CAN BE USED TO ADAPT COMBUSTION BASED ON THE DESCRIBED NEEDS.**



## 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.

#### CONTROLS PROCEDURE

- ◆ Press key 6.
- ◆ Press key 3 until **SETTINGS** appears and confirm by pressing key 6.
- ◆ Confirm **DATE-TIME** by pressing key 6 and using keys 4 and 5 to set the day.
- ◆ Continue by pressing key 6.
- ◆ Use keys 4 or 5 to set and key 6 to advance, to regulate the day, hour, minutes, date, month, year.
- ◆ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

### LANGUAGE

This menu allows the preferred language to be selected.

The available languages are:

Italian - English - German - French - Spanish - Portuguese - Danish - Estonian - Croatian - Slovenian - Dutch - Polish - Czech.

#### CONTROLS PROCEDURE

- ◆ Press key 6.
- ◆ Press key 3 until **SETTINGS** appears and confirm by pressing key 6.
- ◆ Press key 3 until **LANGUAGE** appears and confirm by pressing key 6.
- ◆ Select the language using keys 4 or 5.
- ◆ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

### DEGREES

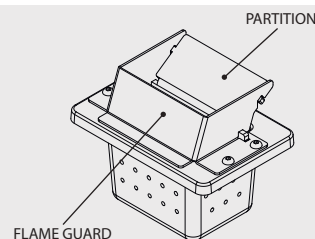
This menu allows you to set the unit of measure for the temperature. The predefined value is °C.

#### CONTROLS PROCEDURE

- ◆ Press key 6.
- ◆ Press key 3 until **SETTINGS** appears and confirm by pressing key 6.
- ◆ Press key 3 until **DEGREES** appears and confirm by pressing key 6.
- ◆ Use keys 4 -5 to select Celsius or Fahrenheit.
- ◆ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.



**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 TO REPLACE THE PART (REPLACEMENT IS NOT COVERED BY THE WARRANTY AS THE COMPONENT IS SUBJECT TO WEAR).**



#### **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**

## OPERATION AND LOGIC

### IGNITION

Once the previously listed points have been checked, press key 1 for three seconds to ignite the stove. During ignition, the stove will check for a flame for a period of 15 minutes. When the right temperature is reached, the stove will switch from ignition to PREPARATION.

### PREPARATION

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

### WORK

In the work phase, the stove switches to the Set Power defined by the user, heating the room until Set Thermostat is achieved. See next heading.

### SET THERMOSTAT

The ambient Set thermostat can be set using keys 4 and 5, from LOW-TA - 7°C - 37°C - **HOT**. If the value is between 7°C - 37°C, the stove checks the room temperature using a probe on the machine. Once the set temperature has been reached, the stove automatically reduces the power, guaranteeing best comfort and reducing pellet consumption: this process is called "modulation".

### LOW-TA / HOT

If the Set Thermostat is "LOW-TA" (set under the 7°C threshold), temperature checking is entrusted to the additional thermostat contact, thus bypassing the on-board temperature probe.

If the contact is closed (request), the stove works at the set power.

If the contact is open (fulfilled), the stove works at minimum power.

If the setting is on "HOT" (set above 37°C), the stove only works at the set power, thus bypassing the external contact and the temperature probe.

### SET POWER

Set Power has 5 operating levels. The power can be changed with keys 2 or 3.

Power 1 = minimum level - Power 5 = maximum level.

Press key 1 to exit and save the change.

### AUTO BLOW

During the work phase, the stove cleans the burn pot at regular intervals with an "AUTO BLOW".

When this procedure starts, a message is displayed. During the "AUTO BLOW" procedure, the pellet feed slow down and the fumes motor increases.

After cleaning, the stove resumes operation in normal conditions.

### 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 safety settings.

### REIGNITION

The stove can only be re-ignited if the temperature of the exhaust fumes is lower than the preset threshold and the minimum safety time has passed.



**DO NOT USE ANY 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.**

## FRONT AIR

This menu allows the front ventilation motor speed to be set. Range: (**COMFORT**, **AUTO**).

If comfort mode is selected, the front air speed is reduced.

To guarantee efficient combustion, front air is excluded when the appliance is running at minimum power.

### CONTROLS PROCEDURE

- ◆ Press key 6.
- ◆ Confirm **FRONT AIR** by pressing key 6.
- ◆ Use keys 4-5 to set the desired mode.
- ◆ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

## AIR DUCTING 1

This menu allows a choice of three operating modes for air ducting 1, and the regulation of the set temperature if an NTC probe is connected in input: **OFF** - **AUTO** - **COMFORT**

Controls procedure to configure **SET**

- ◆ Press key 6.
- ◆ Press key 3 until **AIR DUCTING 1** appears and confirm by pressing key 6.
- ◆ Press key 3 until **SET** appears and confirm by pressing key 6\*.
- ◆ Use keys 4-5 to set the desired mode.
- ◆ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

Controls procedure to set **TEMPERATURE**

- ◆ Press key 6.
- ◆ Press key 3 until **AIR DUCTING 1** appears and confirm by pressing key 6.
- ◆ Press key 3 until **TEMPERATURE** appears and confirm by pressing key 6.
- ◆ Use keys 4-5 to set the desired mode.
- ◆ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

## AIR DUCTING 2

This menu allows a choice of three operating modes for air ducting 2, and the regulation of the set temperature if an NTC probe is connected in input: **OFF** - **AUTO** - **COMFORT**

Controls procedure to configure **SET**

- ◆ Press key 6.
- ◆ Press key 3 until **AIR DUCTING 2** appears and confirm by pressing key 6.
- ◆ Press key 3 until **SET** appears and confirm by pressing key 6\*.
- ◆ Use keys 4-5 to set the desired mode.
- ◆ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

Controls procedure to set **TEMPERATURE**

- ◆ Press key 6.
- ◆ Press key 3 until **AIR DUCTING 2** appears and confirm by pressing key 6.
- ◆ Press key 3 until **TEMPERATURE** appears and confirm by pressing key 6.
- ◆ Use keys 4-5 to set the desired mode.
- ◆ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

\*IF A TEMPERATURE PROBE IS CONNECTED



## 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.

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

### CONTROLS PROCEDURE

- ♦ Press key 6.
- ♦ Press key 3 until **EASY SETUP** appears and confirm by pressing key 6.
- ♦ Use keys 4 -5 to set the range.
- ♦ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

**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, it is necessary to set the current day and time. Therefore, check that the points in the sub-chapter "DATE-TIME" have been followed. 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/DISABLING THE CHRONO

### CONTROLS PROCEDURE

- ♦ Press key 6.
- ♦ Press 3 until **CHRONO** appears and confirm by pressing key 6.
- ♦ Confirm **ENABLING** by pressing 6.
- ♦ Use keys 4 -5 to enable (**ON**) or disable (**OFF**)
- ♦ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

<b>CHRONO</b>	>	<b>ENABLING</b>	>	<b>PRG1</b>	On/off	Enable/disable PRG 1
		✓		<b>PRG2</b>	On/off	Enable/disable PRG 2
		✓		<b>PRG3</b>	On/off	Enable/disable PRG 3
		✓		<b>PRG4</b>	On/off	Enable/disable PRG 4
		<b>PRG1</b>	>	<b>START PRG1</b>	OFF-00:00	PRG1 ignition time
		✓		<b>STOP PRG1</b>	OFF-00:00	PRG1 switch-off time
		✓		<b>MONDAY...SUNDAY</b>	On/off	Enable/disable days PRG1
		✓		<b>SET PRG1</b>	LOW-TA - 07- 37 °C - HOT	Set thermostat PRG1
		✓		<b>POWER PRG1</b>	1-5	Set power PRG1
		<b>PRG2</b>	>	<b>START PRG2</b>	OFF-00:00	Ignition time PRG2
		✓		<b>STOP PRG2</b>	OFF-00:00	Switch-off time PRG2
		✓		<b>MONDAY...SUNDAY</b>	On/off	Enable/disable days PRG2
		✓		<b>SET PRG2</b>	LOW-TA - 07- 37 °C - HOT	Set thermostat PRG2
		✓		<b>POWER PRG2</b>	1-5	Set power PRG2
		<b>PRG3</b>	>	<b>START PRG3</b>	OFF-00:00	Ignition time PRG3
		✓		<b>STOP PRG3</b>	OFF-00:00	Switch-off time PRG3
		✓		<b>MONDAY...SUNDAY</b>	On/off	Enable/disable days PRG3
		✓		<b>SET PRG3</b>	LOW-TA - 07- 37 °C - HOT	Set thermostat PRG3
		✓		<b>POWER PRG3</b>	1-5	Set power PRG3
		<b>PRG4</b>	>	<b>START PRG4</b>	OFF-00:00	Ignition time PRG4
				<b>STOP PRG4</b>	OFF-00:00	Switch-off time PRG4
				<b>MONDAY...SUNDAY</b>	On/off	Enable/disable days PRG4
				<b>SET PRG4</b>	LOW-TA - 07- 37 °C - HOT	Set thermostat PRG4
				<b>POWER PRG4</b>	1-5	Set power PRG4

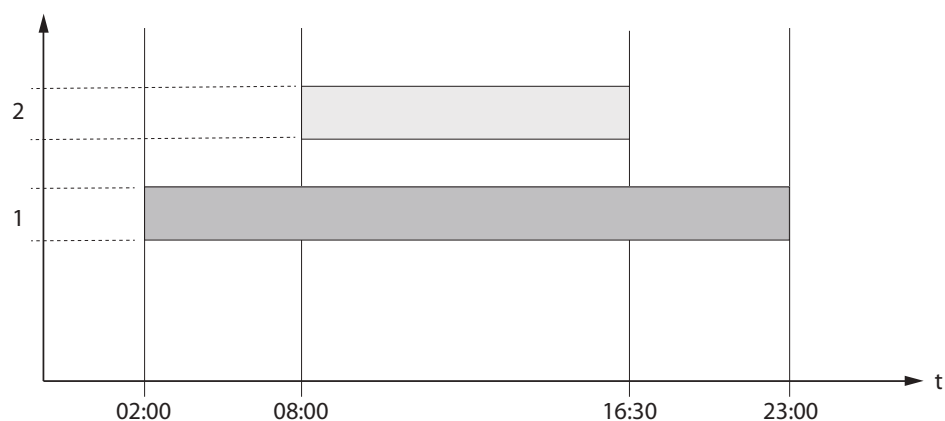


IF THE WEEKLY CHRONO IS ACTIVE ON THE CONTROL PANEL, A SMALL ICON IS DISPLAYED

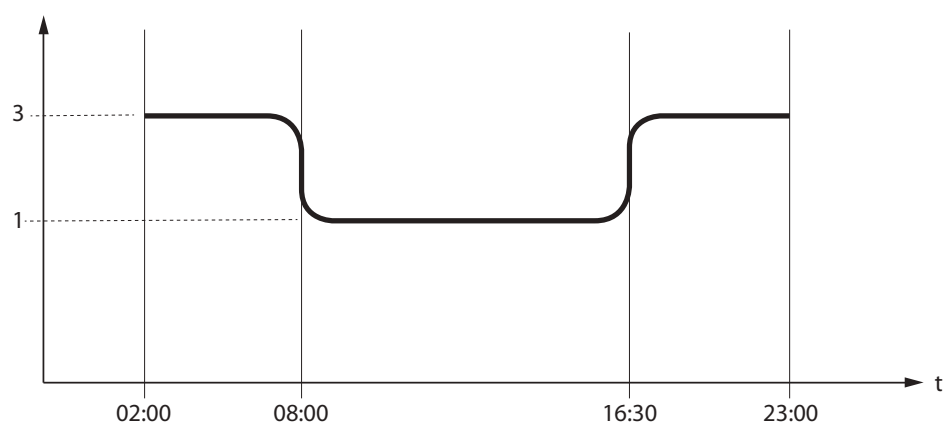


## EXAMPLE OF CHRONO OVERLAPPING TIMES/SLOTS

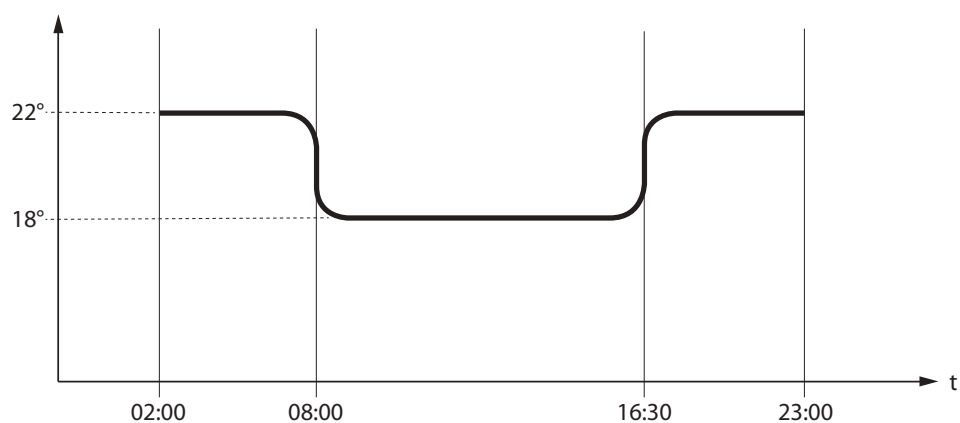
TIME SLOT



SET POWER



SET THERMOSTAT



	Time slot 1	start 02:00 stop 23:00	power 3 - SET THERMOSTAT 22°C
	Time slot 2	start 08:00 stop 16:30	power 1 - SET THERMOSTAT 18°C
	stove operation		

## SETTINGS

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

*SEE CHAPTER: FIRST IGNITION 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 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 key 3 until **SETTINGS** appears and confirm by pressing key 6.
- ♦ Keep pressing key 3 until **DISPLAY** appears and confirm by pressing key 6.
- ♦ Use keys 4-5 to set the desired intensity.
- ♦ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

## STAND BY

The **STAND BY** function, if enabled, is used when stove switch-off is to be controlled by means of an additional thermostat

### CONTROLS PROCEDURE

- ♦ Press key 6.
- ♦ Press key 3 until **SETTINGS** appears and confirm by pressing key 6.
- ♦ Keep pressing key 3 until **STAND BY** appears and confirm by pressing key 6.
- ♦ Use keys 4-5 to enable (**ON**) / disable (**OFF**).
- ♦ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

### **STAND BY FUNCTION ON**

If the **STAND-BY** function is active (**ON**), if the room temperature exceeds the value of the **SET THERMOSTAT + DELTA T OFF**, then the stove will switch off after a preset delay, displaying **STAND BY**.

When the room temperature is lower than the **SET THERMOSTAT - DELTA T ON** and after a possible cooling time, the stove switches back on.

### **STAND BY FUNCTION OFF (FACTORY SETTING)**

If the **STAND-BY** function is not active (**OFF**), if the stove exceeds the set room temperature it will switch to the minimum value, modulating and displaying **MODULATION**. When the room temperature is lower than the **SET THERMOSTAT** the stove goes back to operating at the set power, displaying **WORK**.

## OPERATION WITH ADDITIONAL THERMOSTAT (OPTIONAL)

### **STAND BY FUNCTION OFF (FACTORY SETTING)**

If the **STAND-BY** function is not active (**OFF**), if the stove exceeds the room temperature set on the additional thermostat (contact open) it will switch to the minimum value, displaying **MODULATION**. When the room temperature is lower than the value set on the additional thermostat (contact closed), the stove goes back to operating at the set power, displaying **WORK**.

### **STAND BY FUNCTION ON**

When the **STAND-BY** function is active (**ON**), when the room temperature set on the additional thermostat has been reached (contact open), the stove will switch off after a preset delay, displaying **STAND BY**.

When the room temperature is lower than the value set on the additional thermostat (contact closed) and after a possible cooling time, the stove switches back on.



**FOR CORRECT OPERATION, THE SET THERMOSTAT MUST BE SET TO LOW-TA.**  
➤ SEE CHAPTER ON ADDITIONAL THERMOSTAT SETTINGS

## ADDITIONAL THERMOSTAT

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

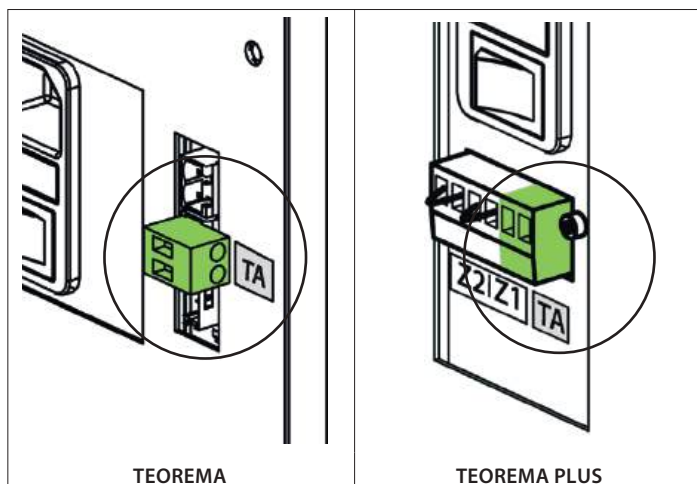
It is possible to control the temperature of a room adjacent to the room where the stove is positioned; simply connect a thermostat following the procedure described in the following section (it is advisable to place the optional mechanical thermostat at a height off the ground equal to 1.50 m). Stove operation with the external thermostat connected in the TA clamp may differ depending on whether or not the STAND BY function is enabled.

## ADDITIONAL THERMOSTAT INSTALLATION

- ◆ Switch the appliance off using the master switch positioned on the rear of the stove.
- ◆ Remove the plug from the socket.
- ◆ Connect the two cables of the thermostat (clean contact - no 230 V!) on the terminal (TA) behind the machine.



**FOR CORRECT OPERATION, SET THE SET THERMOSTAT DEDICATED TO THE ROOM TEMPERATURE TO LOW-TA**



## DELTA-T

This function allows the hysteresis thresholds to be set for stove ignition (DELTA-T ON) and switch-off (DELTA-T OFF), used as an ambient temperature adjustment interval if not managed by an external thermostat.

The possible values for *DELTA T* go from: 0.5 - 5°C

### CONTROLS PROCEDURE

- ◆ Press key 6.
- ◆ Press 3 until **SETTINGS** appears and confirm by pressing 6.
- ◆ Press 3 until **DELTA T** appears and confirm by pressing 6.
- ◆ Use keys 4-5 to set the desired value.
- ◆ Press key 6 to confirm and key 1 to scroll back through the menus until the initial page.

## 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, confirming by pressing OK.

**To stop the continuous loading, simply press 1 for 3 seconds.**

### CONTROLS PROCEDURE

- ◆ Press key 6.
- ◆ press key 3 until **SETTINGS** appears and confirm by pressing key 6.
- ◆ Keep pressing key 3 until **FIRST LOAD** appears and confirm by pressing key 6.
- ◆ Use keys 4-5 to enable "ON" / disable "OFF"
- ◆ Press key 1 several times to confirm and exit the menu.

## RESET

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

### CONTROLS PROCEDURE

- ◆ Press key 6.
- ◆ Press key 3 until **SETTINGS** appears and confirm by pressing key 6.
- ◆ Press key 3 until **RESET** appears and confirm by pressing key 6.
- ◆ Use keys 4-5 to enable "ON" / disable "OFF"
- ◆ Press key 1 several times to confirm and exit the menu.

- ◆ **OFF** (disabled - factory default)
- ◆ **ON** (enabled)

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

- ◆ Press key 6.
- ◆ Press key 3 until **SETTINGS** appears and confirm by pressing key 6.
- ◆ Keep pressing 3 until **EASY CONTROL** appears and confirm by pressing 6.
- ◆ Use keys 4-5 to enable "ON" / disable "OFF"
- ◆ Press key 1 several times to confirm and exit the menu.

## ADDITIONAL FUNCTIONS

## DELAYED SWITCH-OFF

Press P6 to confirm and return to the home page.

## KEYS LOCKED

With the function active, each time a key is pressed, the message "KEYS LOCKED" will appear

To unlock the keypad, press keys 1 and 5 simultaneously until the following message appears: **"KEYS UNLOCKED"**

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on its right side, suggesting it's resting on a surface.

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WEBSITE:  
[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 filling it up.



**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.**

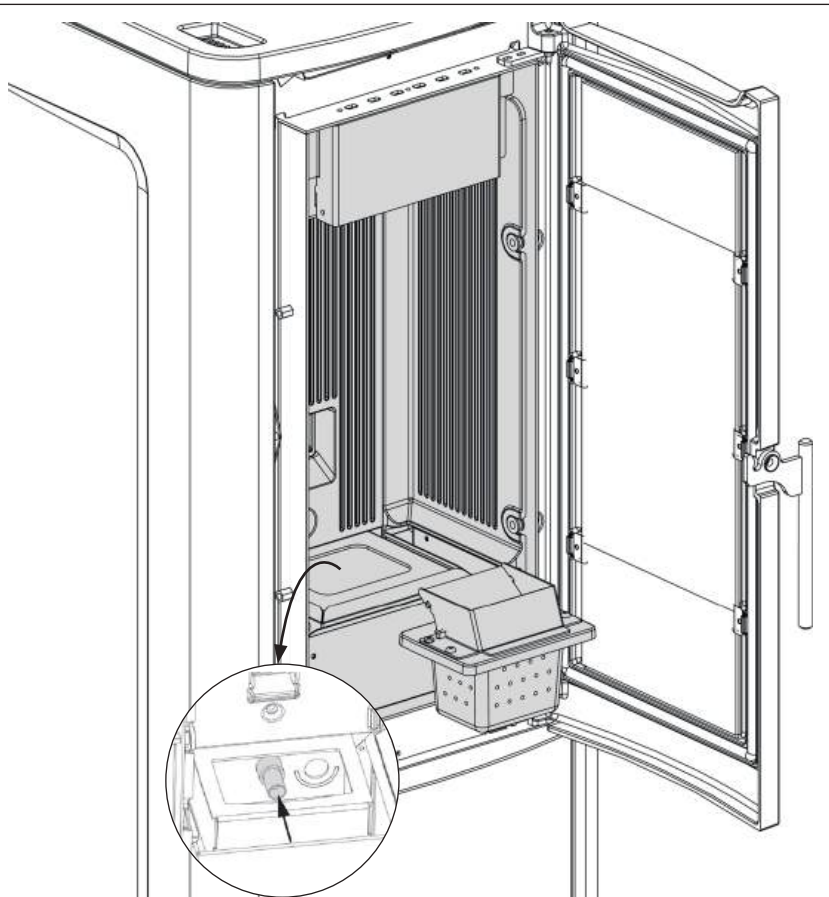


**IF THE POWER CORD IS DAMAGED, IT MUST BE REPLACED BY THE SERVICE CENTRE OR BY A SIMILARLY QUALIFIED PERSON, SO AS TO AVOID ALL RISKS.**

## BURN POT AND COMBUSTION CHAMBER:

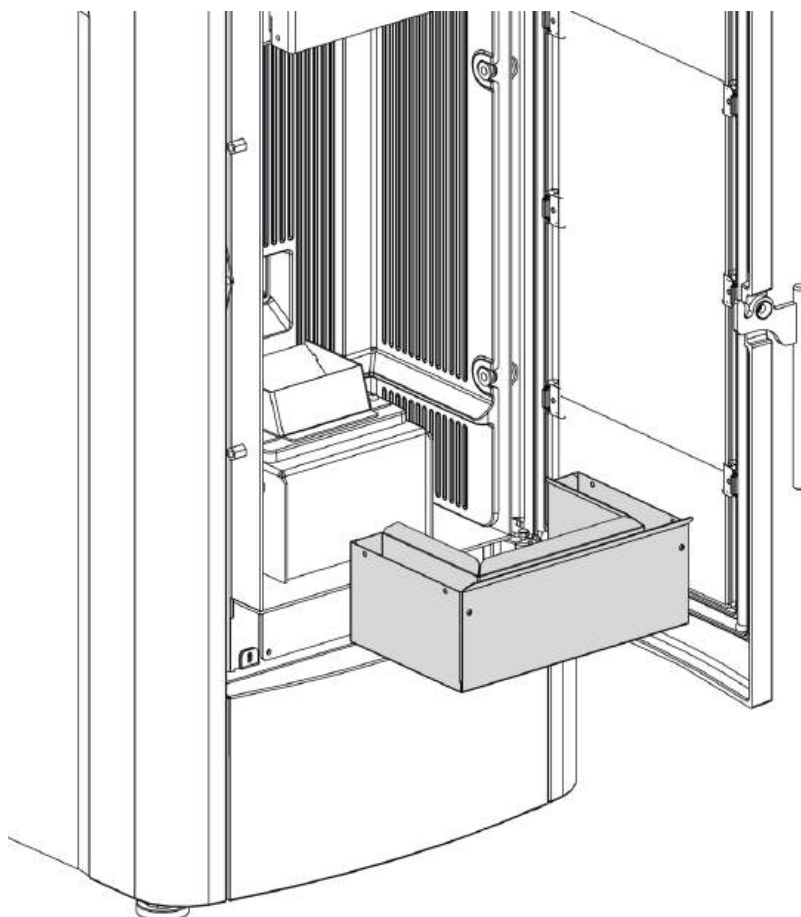
- ♦ Vacuum the residue in the burn pot
- ♦ Remove the burn pot completely from the relevant compartment;
- ♦ Vacuum the ash from the burn pot slot, ignition plug pipe holder and combustion chamber.
- ♦ Clear/clean all the holes in the burn pot.
- ♦ Re-position the burn pot in its slot and push it towards the fire wall.

**NOTE:** Use a suitable ash vacuum cleaner with a special separate container for the collected ashes.



## REMOVABLE ASH PAN:

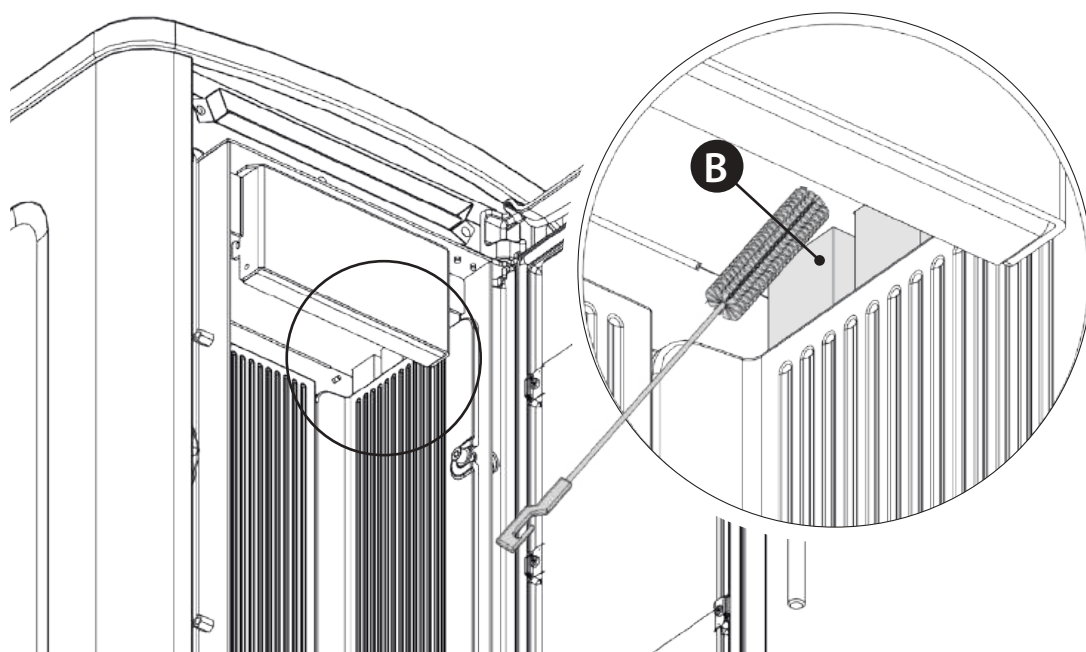
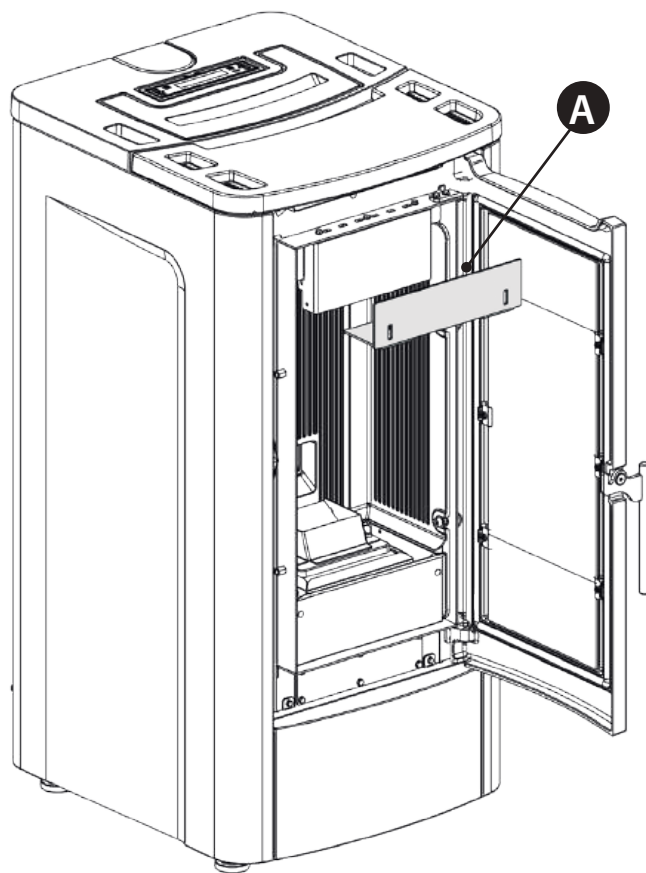
- ♦ Remove the ash pan and empty it in a dedicated container.





**CLEANING THE TOP PART OF THE HEAT EXCHANGER:**

- ♦ Extract and remove the deflector (A) from its seat
- ♦ Clean the top part of the heat exchanger (B) using the pipe cleaner supplied



PARTIES	FREQUENCY IN DAYS*
BURN POT (USER)	3
COMBUSTION CHAMBER (USER)	7
REMOVABLE ASH PAN** (USER)	3
CLEANING THE TOP PART OF THE HEAT EXCHANGER (USER)	30
CLEANING THE HEAT EXCHANGER AND INSPECTION COMPARTMENT (QUALIFIED TECHNICIAN)	365
T-SHAPED FITTING / SMOKE DUCT (QUALIFIED TECHNICIAN)	365

\* Average use 8h at max. nominal power

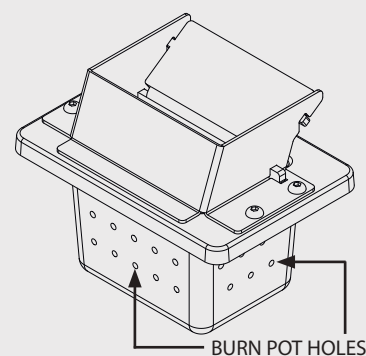
\*\* How often the ash pan is emptied depends on a number of factors: the type of pellets, the stove output, the use of the stove and the type of installation.



## 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 ON THE BASIS OF THE NEEDS DESCRIBED.



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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.

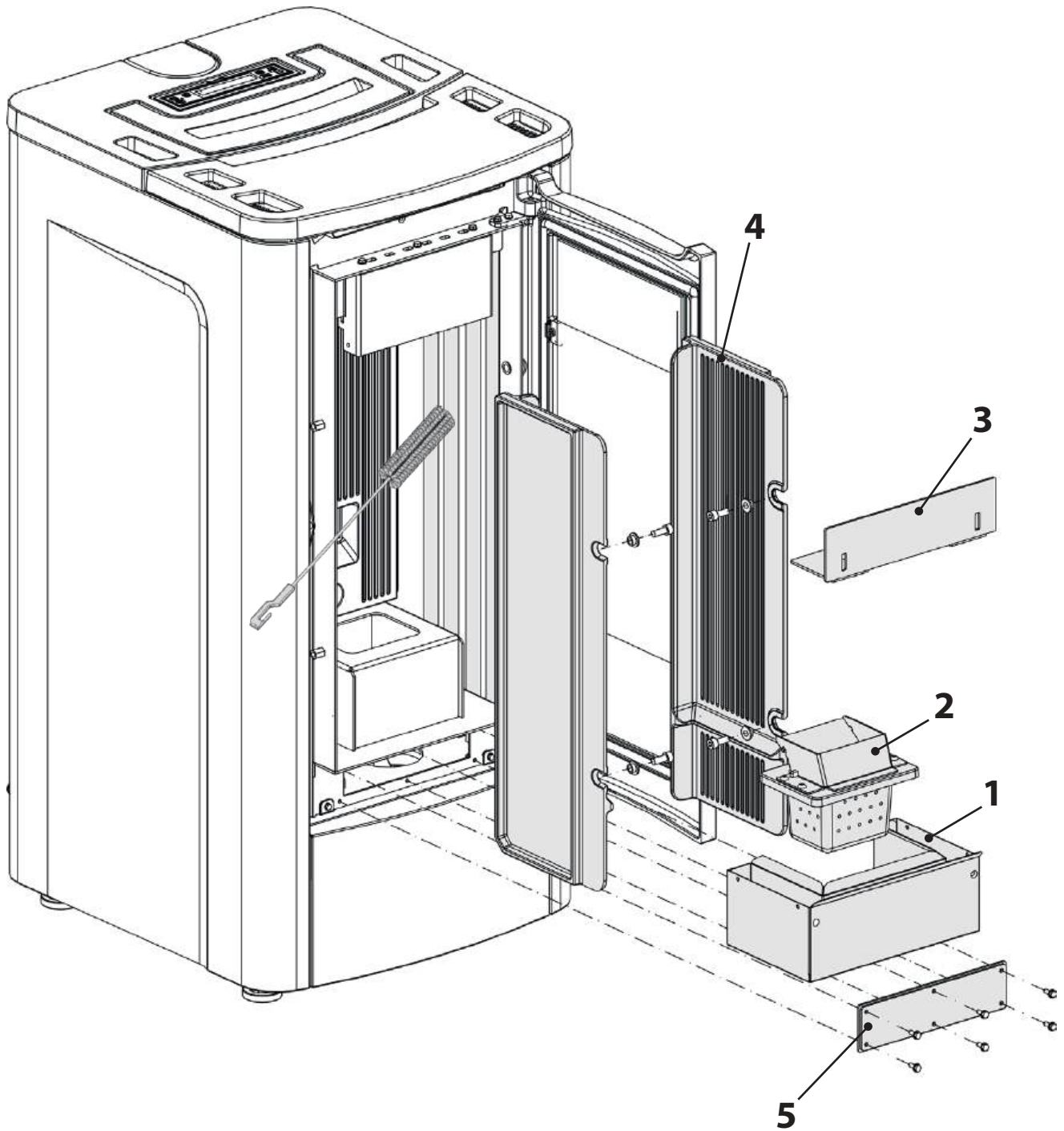
### CONNECTION TO THE FLUE

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)

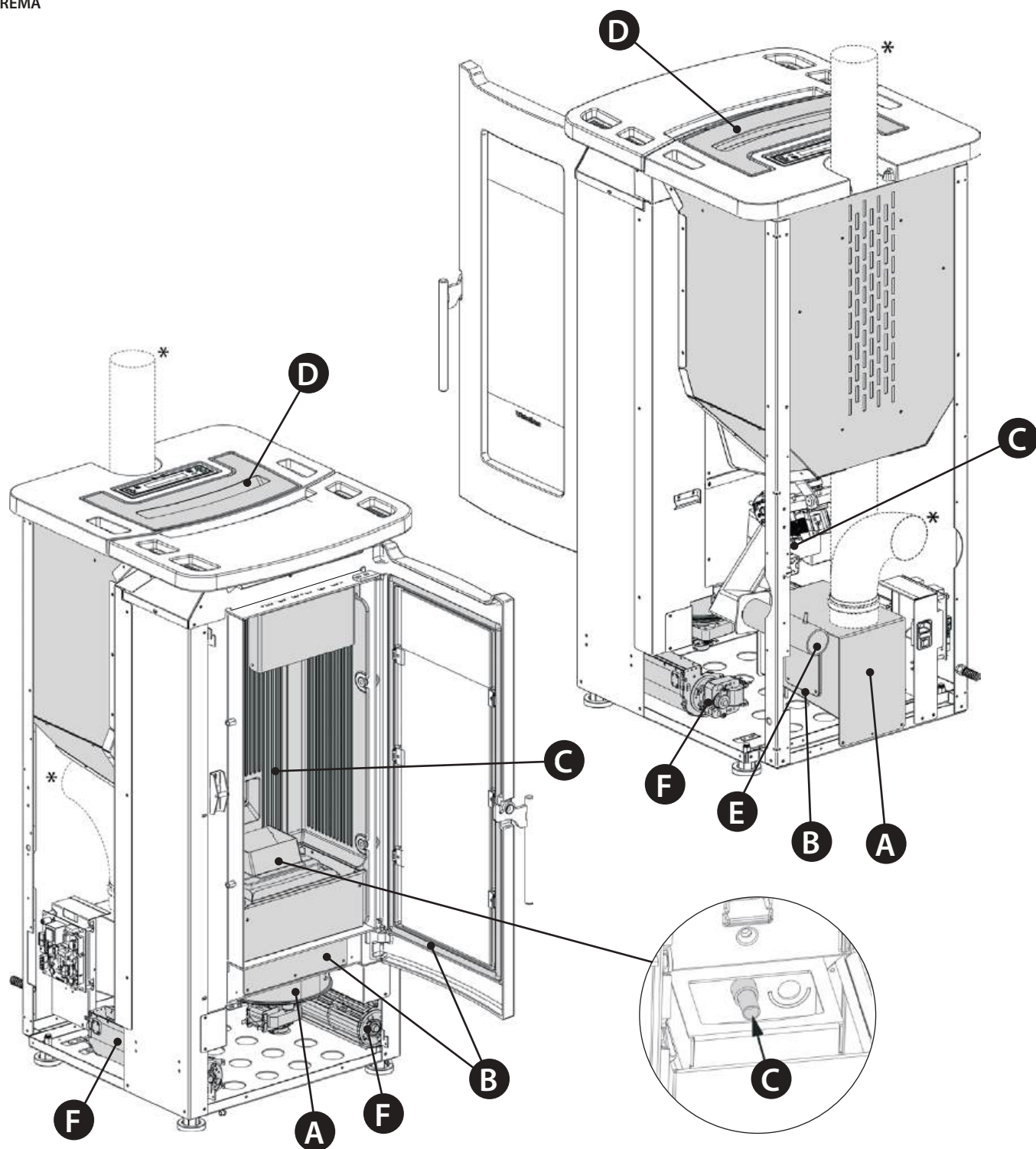
At the end of each season, before turning the stove off, it is advisable to completely empty the pellet hopper, removing any pellet residue and dust with a vacuum cleaner.

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

**CLEANING THE HEAT EXCHANGER AND INSPECTION COMPARTMENT**

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TEOREMA



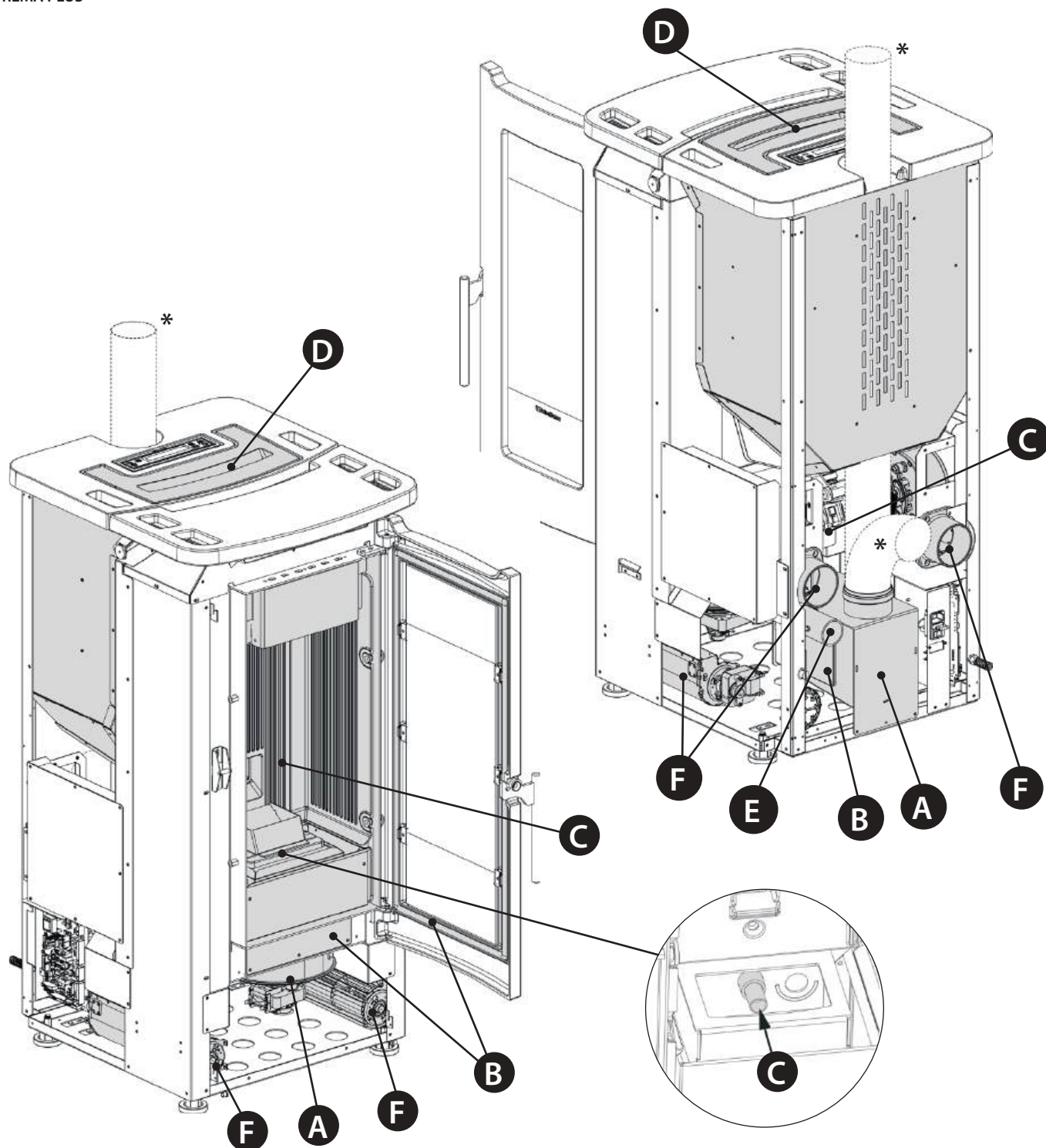
THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES.

\* NOT AVAILABLE

<b>A</b>	Fumes motor (dismantle and clean the smoke duct and "T"), new seal where required
<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 the air intake pipe and check/clean the mechanical pressure switch
<b>F</b>	Remove the ambient air fan and remove any dust and pellet residue.

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## TEOREMA PLUS



THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES.

\* NOT AVAILABLE


<b>A</b>	Fumes motor (dismantle and clean the smoke duct and "T"), new seal where required
<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 the air intake pipe and check/clean the mechanical pressure switch
<b>F</b>	Remove the ambient air fan and remove any dust and pellet residue.



## DISPLAYS

DISPLAY	REASON
OFF	Generator off
START	The start-up phase is in progress
PELLET LOADING	Continuous pellet loading 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
FINAL CLEANING	The final cleaning is in progress
STAND BY	Generator off waiting for re-ignition due to the external thermostat.
COOLING STAND BY	A new ignition is attempted when the generator has just been switched off. When the generator switches off, you 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.
BLACK OUT STAND BY	The generator is cooling after a power cut. Once cooling is completed, it will re-start automatically
AUTO BLOW	The automatic blow is active
CLOSE HOPPER-STOVE DOOR	This indication means that you have 60 seconds to close the hatch/door and the pellet lid. After 60 seconds have passed, the stove will enter "DEPR ALARM" during the ignition phase, while during normal operation, the stove will enter "COOLING STAND BY" and then restart automatically when the conditions are met (cold stove, etc.).

## ALARMS

DISPLAY	EXPLANATION	SOLUTION
	Indicates the presence of an alarm.	On: indicates the presence of an alarm 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	Fumes probe fault.	Contact after-sales centre
HOT FUMES	High fumes temperature	Check pellet loading (see "Easy setup"); if the problem is not solved, contact a service centre.
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 bulb thermostats (see chapter on Resetting)
NO FLAME	The pellet hopper is empty. No pellet feed. The gearmotor does not feed pellets. Thermostat bulbs tripped.	Check for the presence of pellets in the hopper. Adjust the pellet flow (see "Easy setup"). Check bulb thermostats (see chapter on Resetting)
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 - BLACK OUT	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.
COMMAND AUGER ALARM	Abnormal pellet loading.	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.

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EN 16510-1 Symbol	EXPLANATION
nom	Nominal heat output
part	Part load heat output
CON / INT	Appliance operation, Continuous (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
$EEl$	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
$m_{\text{ h nom}} / m_{\text{ h part}}$	Hourly consumption
$NO_{\text{ x nom}} / NO_{\text{ x par}}$	Nitrogen oxides emission
$OGC_{\text{ nom}} / OGC_{\text{ part}}$	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
$P_{\text{ W nom}} / P_{\text{ W part}}$	Water heat output
$s$	Thickness of the protective insulation material
$T_{\text{ class}}$	Chimney designation
$T_{\text{ fg nom}} / T_{\text{ fg part}}$	Mean flue gas temperature
$T_{\text{ s nom}} / T_{\text{ s part}}$	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
$\Phi_{\text{ fg nom}} / \Phi_{\text{ fg part}}$	Flue gas mass flow
Wood Pellet (L)	Wood Pellet
Wood Logs (l)	Wood Logs
	Read and follow the user operating instructions



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

# Extraflame®

## Riscaldamento a Pellet

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