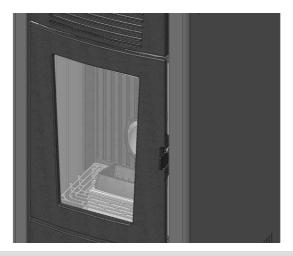
USE AND INSTALLATION MANUAL



SEALED PELLET STOVE



Instructions in English





EN

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INTRODUCTION

Dear Customer,

Our products are designed and manufactured in accordance with standards in force, with high quality materials and using our extensive experience in the transformation processes.

To get the best performance, we suggest you read the instructions in this manual carefully.

This installation guide is an integral part of the product: ensure that the manual is always supplied with the appliance, even if it changes owner. If the manual is lost, you can request another copy from the local Technical Dept. or download it directly from the company's website.

All local regulations, including those referring to national and European standards, must be observed when installing the appliance.

In Italy, for the installation of systems with a biomass below 35KW, refer to the Ministerial Decree 37/08 and the qualified installation technician with the suitable requirements must issue a certificate of compliance for the system installed. (By system we intend Stove+Flue+Air inlet).

REVISIONS TO THE PUBLICATION

The content of this manual is strictly technical and the property of RED.

No part of this manual may be translated into other languages, adapted and/or reproduced, even in part, in other mechanical and/or electronic form or media, for photocopies, recordings or other, without the prior written authorisation of RED.

The company reserves the right to make changes to the product at any time without prior notice. The owner company reserves its rights according to law.

CARE OF THE MANUAL AND HOW TO CONSULT IT

- Take care of this manual and store it in an easily and quickly accessible place.
- Should this manual be lost or destroyed, request a copy from your retailer or directly from the authorised Technical assistance department. It can also be downloaded from the company's website.
- "Bold text" requires special attention.
- "Text in italics" is used to draw attention to other paragraphs in the manual or for any additional clarifications.
- "Note" provides the reader with additional information.

SYMBOLS USED IN THE MANUAL

	ATTENTION: carefully read the relative message as failure to comply with the information provided may result in serious damage to the product and danger to the persons who use it.
Û	INFORMATION: failure to comply with these provisions will compromise use of the product.
ß	OPERATING SEQUENCES: sequence of buttons to be pressed to access the menus or perform adjustments.
i	MANUAL carefully read this manual or the relative instructions.

A SAFETY WARNINGS

- The installation, electrical connection, operating test and maintenance must only be carried out by a qualified operator.
- Install the product in compliance with the laws and regulations in force.
- Only use the fuel recommended by the manufacturer. The product must not be used as an incinerator.
- It is strictly forbidden to use alcohol, petrol, liquid fuel for lanterns, diesel, bioethanol, fluids for lighting charcoal or similar liquids to light/rekindle the flame in these devices. Keep these flammable liquids well away from the appliance when in use.
- Do not put any fuel other than wood pellets in the hopper.
- The instructions provided in this manual must always be complied with to ensure the product and any electronic appliances connected to it are used correctly and to prevent accidents.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge provided they are supervised or have been given instructions regarding use of the appliance in a safe way and understand the hazards involved. Children must not play with the appliance. Cleaning and maintenance to be performed by the user must not be carried out by children without supervision.
- The user, or whoever is operating the product, must read and fully understand the contents of this installation guide before performing any operation.
- The user can only make a significant contribution to the eco-friendly operation of the heat generator if all requirements set out in the operating instructions are met.
- Dispose of combustion ash in accordance with current laws.
- Do not climb on or lean on the product.

- Do not dry laundry on the product. Any drying racks or the like must be kept at a safe distance from the product. **Fire hazard.**
- The product maintenance operations must be exclusively carried out by a qualified operator on a yearly basis.
- A non-compliant or improper/lack of maintenance of the product can cause hazardous situations and/or irregular operation.
- The manufacturer is relieved of any civil and criminal liability for damage caused by improper use and/or modification/tampering with the product and/ or its accessory.
- We do not recommend waiting for the parts to get worn out before having them replaced.
- Only use original spare parts. The retailer, service centre or qualified personnel can provide all necessary information regarding spare parts.
- Many surfaces of the product get very hot (door, handle, glass, smoke outlet pipes, etc.). Avoid coming into contact with these parts without adequate protective clothing or suitable equipment, such as gloves with thermal protection or "cold handle" operating systems.
- It is forbidden to operate the product with the door open or the glass broken. During operation, all the doors provided on the product must remain closed, with the exception of the one on the hopper which can be opened temporarily and only for the time required for topping up the fuel.
- The doors/covers on the appliance must remain closed when it is not being used.
- The product must be electrically connected to a properly earthed system.
- Switch the product off in the event of a fault or malfunction.
- Accumulated unburnt pellets in the brazier after each "failed ignition" or abnormal emptying of the pellet hopper must be completely removed before lighting again. Always check that the brazier is clean and positioned properly before lighting the product again.

- Do not allow the product to come into contact with water, it contains live electrical parts.
- Do not wash the product with water (or other liquids) as they could penetrate inside the unit, damaging the electrical insulation with the risk of electrocution.
- Do not use detergents to wash the stove, they could damage the aesthetic parts of the product.
- Do not stand for a long time in front of the product in operation. Do not overheat the room you are in and where the product is installed. This may harm one's physical conditions and cause health problems.
- Install the product in rooms that do not pose a fire hazard and are equipped with power and air supplies and smoke outlets.
- In the event of fire in the chimney, turn off the device, disconnect it from the mains and do not open the door whatsoever. Then contact the competent authorities.
- The product and the cladding must be stored in a dry place and must not be exposed to weathering.
- It is recommended not to remove the feet that support the product in order to ensure adequate insulation, especially if the flooring is made of flammable materials.
- Assess the static conditions of the surface on which the weight of the product will rest and provide suitable insulation if it is made of flammable material (e.g. wood, fitted carpet or plastic).
- In the event of a malfunction of the ignition system, do not force it on by using flammable materials.
- It is forbidden to manually load the fuel into the brazier. Failure to follow this warning can lead to hazardous situations.

- The sound pressure level of this appliance does not exceed 70 dB(A).
- Live electrical parts: only power the product once it has been fully assembled.
- Disconnect the product from the 230V power supply before performing any maintenance operations. The plug must be removed in such a way that an operator can verify from any point to which he/she has access, that the plug remains unplugged.

INFORMATION:

- Please contact the retailer or qualified personnel for any information, problem or malfunction.
- Only use the fuel specified by the manufacturer.
- When the product is switched on for the first time, it is normal for it to emit smoke due to the paint heating up for the first time. Therefore make sure the room it is installed in is well-ventilated.
- Periodically check and empty the inspectionable parts of the smoke duct (e.g. Tee fitting caps)
- Have the smoke outlet system periodically checked and cleaned
- The product is not a cooking appliance.
- Always keep the cover of the fuel hopper closed.
- Store this installation and user manual with care as it must accompany the product for the duration of its useful life. If the product is
 sold or transferred to another user, always ensure the manual is also handed over.

INTENDED USE

The product only works with wood pellets and must be installed inside a room.

PRODUCT PERFORMANCE CHECKS.

All our products undergo ITT TESTS carried out by a notified third party laboratory (system 3) and in accordance with Regulation (EU) number 305/2011 "Construction products", according to standard EN 14785:2006 for household appliances and "Machinery Directive" EN 303-5 for boilers.

In the case of tests for any market surveillance or inspections by third parties, please consider the following warnings:

- To reach the declared performance levels, the product must perform an operating cycle of at least 15-20 hours beforehand.
- Set the average draught of the combustion fumes as specified in the "technical product features" table
- The type of pellets used must comply with the current EN ISO 17225-2 class A1 regulation. Fir pellets are usually used for certification.
- The amount of thermal energy can vary according to the length and calorific value of the fuel. This may require some adjustments (accessed from the user menu) to comply with the hourly consumption specified in the "technical product features" table. Using class A1 pellets guarantees a calorific value that is likely to be close to that used in the product certification; the size of the pellet grains can significantly affect hourly fuel loading and consequently performance; it is therefore suggested to use pellets with a 6 mm diameter and an average length of around 24 mm (avoid pellets that are too long or excessively crushed).
- With wood-burning appliances, the fuel must comply with the current EN ISO 17225-5 class A1 regulation. Check the correct moisture
 of the fuel, as it must be within the range of 12 20% (it is best if the moisture is close to 12%, as is normally used in certification). As
 the fuel moisture increases, different combustion air settings are required, which are implemented from the combustion air register,
 thereby modifying the mixture of primary and secondary air
- It is important to check the operation of devices that can affect performance (for example air fans or electric safety devices) in case
 of damage due to handling.
- Nominal performance has been obtained by setting the maximum flame power and room ventilation in manual mode. Performance at reduced power was achieved at minimum flame and ventilation power (P1 and V1) in manual mode. The other conditions correspond to intermediate ventilation and power.
- If a "verification" mode is provided in the menu, set this function during the readings to ensure that no temperature modulation
 occurs due to an incorrect setting of the operating parameters.
- Lastly, strictly comply with the sampling points specified in the regulations in terms of emissions as well as temperature

WARRANTY CONDITIONS

For the duration, terms, conditions, limitations of the MCZ conventional warranty, please refer to the specific warranty card that is included with the product.

Information for management of waste electrical and electronic equipment containing batteries and accumulators



This symbol appears on the product, on the batteries, on the accumulators or on their packaging or on their documentation; it indicates that the product and the batteries or the accumulators included must not be collected, recycled or disposed of with household waste at the end of their service life.

Improper management of waste electrical and electronic equipment, batteries or accumulators can cause the hazardous substances contained within to leak out. In order to avoid harming the environment or health, the user is required to separate this equipment, and/ or the batteries or accumulators included, from other types of waste and deliver them to the local collection centre. The distributor can be asked to collect the waste electrical and electronic equipment under the conditions and according to the procedures laid down by Legislative Decree 49/2014.

Separate collection and correct treatment of waste electrical and electronic equipment, batteries and accumulators contribute to conserving natural resources, respect for the environment and ensure the protection of health.

For more information on collection centres for waste electrical and electronic equipment, batteries and accumulators, contact the competent public Authorities for issue of the authorisations.

WARNINGS FOR THE CORRECT DISPOSAL OF THE PRODUCT

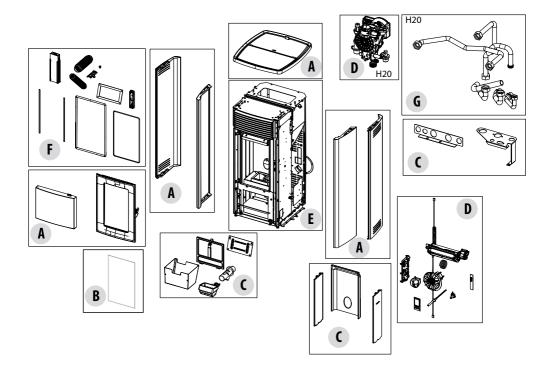
The owner is the sole party responsible for demolishing and disposing of the product. This must be performed in compliance with laws related to safety and environmental protection in force in his/her country.

At the end of its working life, the product must not be disposed of as urban waste.

It must be taken to a special differentiated waste collection centre set up by the local authorities or to a retailer that provides this service. Separating and recycling prevents potential negative effects on the environment and health (often caused by inappropriately disposing of product parts). It also allows materials to be recovered in order to obtain significant savings in energy and resources.

The following table and the exploded view it refers to highlight the main components that can be found in the device and indications on how to separate and dispose of them correctly when no longer used.

More specifically, the electric and electronic components must be separated and disposed of in authorised centres, in compliance with the WEEE directive 2012/19/EU and the relative national transpositions.



LEGENDA	WHERE TO DISPOSE	MATERIALS	
		Metal	
Α	If there is any, to be disposed of separately	Glass	
OUTER CLADDING	based on the material used:	Tiles or ceramics	
		Stone	
В	If there is any, to be disposed of separately	Glass ceramic (fire door): to be disposed of with inert or mixed waste	
GLASS DOORS	based on the material used:	Tempered glass (oven door): to be disposed of with glass	
		Metal	
		Refractory materials	
		Insulating panels	
C INTERIOR CLADDING	If there is any, to be disposed of separately	Vermiculite	
	based on the material used:	Insulation, vermiculite and refractory materials that have come into contact with flames or exhaust gases (dispose of in mixed waste)	
D ELECTRIC AND ELECTRONIC COMPONENTS	To be disposed of separately in authorised centres, as indicated in the WEEE directive 2012/19/EU and the relative national transposition.	Wiring, motors, fans, circulators, display panels, sensors ignition plug, electronic cards, batteries.	
E METAL STRUCTURE	To be disposed of separately with metal		
F Components that cannot be recycled	To be disposed of with mixed waste	E.G.: Gaskets, rube piping, silicone or fibres, plastic.	
	Piping, fittings, expansion vessel,	Copper	
G	valves. If there are any, to be disposed	Brass	
HYDRAULIC COMPONENTS	of separately based on the material	Stainless steel	
	they are made of:	Other materials	

Our solid bio-combustible products, (hereinafter called "Products") are designed and manufactured in compliance with one of the following European standard harmonised to Regulation (UE) no. 305/2011 for construction products:

EN 14785: "Residential space heating appliances fired by wood pellets" EN 13240: "Room heaters fired by solid fuel." EN 13229: "Inset appliances including open fires fired by solid fuels" EN 12815: "Residential cookers fired by solid fuel"

The products also comply with the essential requirements of Directive 2009/125/EC (Eco Design) and, where applicable, Directives:

2014/35/EU (LVD - Low Voltage directive)
2014/30/EU (EMC - Electromagnetic Compatibility directive)
2014/53/EU (RED – Radio Equipment directive)
2011/65/EU (ROhS)

Having specified the above, we highlight and report that:

- This manual and technical data sheet, also available on our website, bear all of the specific indications and necessary and
 essential information to choose the product, to install it correctly and to properly size the smoke expulsion system;
- the Products must be installed, controlled and serviced by a qualified operator, according to the instructions in this manual and
 in compliance with the laws and installation and maintenance standards in force in individual countries, so as to provide an efficient
 heating system, properly sized according to the needs of the home;
- **if the Products are thermally stressed**, constantly operating for several hours at high power (e.g. 3, 4 hours a day at outputs P4 or P5), we recommend more frequent cleaning and reducing the interval between routine maintenance operations according to the operating condition of the product. We furthermore point out that these operating conditions increase the risk of premature wear of the product, especially those parts exposed to the direct heat of the fire (e.g. combustion chamber), the original condition of which can undergo modifications and deterioration which, among other things, could generate noise during operation of the unit due to mechanical expansion.

The manufacturer will not be held liable if the above information is ignored.



The instructions in this chapter refer explicitly to the Italian installation regulation UNI 10683. In any case, always observe the regulations in force in the country of installation.

PELLETS

The pellet is obtained from natural dried wood sawdust (without paint). The compactness of the material is guaranteed by the lignin contained in the wood itself, without glue or binders.

The market offers different types of pellets with characteristics that vary according to the wood mixtures. The most common diameter on the market is 6 mm (although 8 mm diameter is also available) with a length, on average, between 3 and 40 mm. A good quality pellet has a density of between 600 and 750 or more kg/cubic metres and a moisture content that accounts for 5 to 8% of its weight.

Pellets have technical advantages besides being an ecological fuel, as the wood residue is used completely, thereby achieving cleaner combustion than that of fossil fuels.

While good-quality wood has a calorific value of 4.4 kW/kg (15% moisture, after about 18 months of seasoning), that of pellets is around 4.9 kW/kg. To ensure good combustion, the pellets must be stored in a dry place and protected from dirt. Pellets are usually supplied in 15 kg bags, therefore, storing them is very convenient.



Good quality pellets guarantee good combustion, thereby decreasing harmful emissions into the atmosphere.



The poorer the quality of the fuel, the more often the internal parts of the brazier and combustion chamber need to be cleaned.

The main quality certifications for pellets currently available on the European market guarantee that the fuel complies with class A1/ A2 according to ISO 17225-2. These certifications include, for example, ENPIus, DINplus, Ö-Norm M7135, and specifically assure that the following characteristics are complied with:

- calorific value: 4.6 5.3 kWh/kg.
- Water content: $\leq 10\%$ of the weight.
- Percentage of ash: max 1.2% of the weight (A1 less than 0.7%).
- Diameter: 6±1/8±1 mm.
- Length: 3-40 mm.
- Content: 100% untreated wood without the addition of binding agents.



The company recommends using certified fuel for its products (ENPlus A1, DINplus, Ö-Norm M7135). The use of pellets that do not comply with the characteristics specified previously may compromise the operation of your product and therefore invalidate the warranty and product liability.

FOREWORD

The heating system (generator + combustion air supply + combustion product expulsion system + any hydraulic/aeraulic system) must be installed in compliance with the laws and regulations in force¹, and carried out by a qualified technician, who must issue a declaration of conformity of the system to the system manager and shall undertake full responsibility for final installation and consequent good operation of the product.

The manufacturer declines all responsibility in the event of installations that do not comply with the laws and regulations in force and inappropriate use of the appliance.

In particular one must ensure that:

- the environment is suitable for installing the appliance (floor load-bearing capacity, presence or possibility of creating an adequate electrical/hydrauic/aeraulic system when required, volume compatible with the appliance characteristics, etc.);
- the appliance is connected to a smoke expulsion system correctly sized according to EN 13384-1, which is resistant to soot fire and which complies with the distances prescribed by the combustible materials indicated on the plate data;
- there is a suitable combustion air flow to the appliance;
- other combustion appliances or extraction devices installed do not cause a negative pressure of more than 4 Pa in the room where
 the product is installed compared to the outside (only sealed appliances are allowed a maximum of 15 Pa of negative pressure in
 the room).

¹The national reference standard for the installation of domestic appliances is UNI 10683 (IT) - DTU NF 24.1 (FR) - DIN 18896 (DE) - NBN B 61-002 (BE) - Real Decreto 1027/2007 (ES)

In particular, it is recommended to strictly observe the safety distances from combustible materials to avoid serious harm to people and to the integrity of the home.

Installation of the appliance must ensure easy access to service the appliance itself, the smoke channels and the flue. Always maintain adequate distance and protection in order to prevent the product from coming into contact with water.

It is forbidden to install the stove in rooms with a fire hazard.

With the exception of sealed installations, it is also forbidden for liquid fuel appliances with continuous or intermittent operation that draw the combustion air from the room they are installed in or B-type gas heating appliances, with or without the production of domestic hot water, to coexist in the same room or in interconnecting rooms.



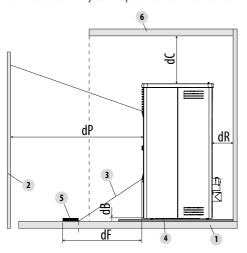
Sealed installation means that the product is certified as sealed and its installation (ducting of the combustion air and connection to the chimney) is airtight with respect to the installation environment.

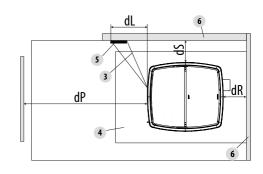
A sealed installation does not consume the room's oxygen but draws all the air from the outer environment (if suitably ducted) and makes it possible to install the product, therefore, it can be installed in all houses that require a high degree of insulation such as "passive" or "high energy efficiency" houses. Thanks to this technology there is no risk of smoke emissions in the room, hence no air inlets and relevant ventilation grilles are required in the installation premises.

Consequently, there will be no more draughts of cold air in the room, which would otherwise make it less comfortable and reduce the overall efficiency of the system. The sealed stove may even be installed in a sealed installation that is compatible with the presence of forced ventilation or in premises that might have negative pressure with respect to the outside.

MINIMUM DISTANCES

Observe the distances from flammable objects (sofas, furniture, wood panelling, etc..) as specified in the following diagram. If objects considered to be particularly sensitive to heat are present, such as furniture, curtains or sofas, as a precaution, increase the stove clearances substantially to avoid possible deterioration due to the effect of heat.





	Safety distance from combustible material (mm)	
dR (rear distance)	50	
dS (side distance)	100	
dB (lower distance)	0	
dC (upper distance)	800	
dP (front radiation)	1000	
dF (floor radiation)	1000	
dL (side radiation)	1000	

KEY

1	FLOOR	4	FLOOR GUARD
2	FRONT FLAMMABLE MATERIAL	5	RADIATED SURFACE TO BE PROTECTED
3	AREA SUBJECT TO RADIATION	6	REAR/SIDE/UPPER FLAMMABLE SURFACE

If the floor is made of combustible material, use a protection made of non-combustible material (steel, glass...) that also protects the front from any falling combusted material during cleaning operations.

Always fit a

Always fit a floor guard if the floor is made of flammable material.

Install the stove also detached from any non-combustible walls/surfaces, observing a minimum clearance of 50 mm (back) and 100 mm (side) to allow effective aeration of the appliance and a good distribution of heat in the room.

In any case, ensure adequate distance to facilitate access during cleaning and extraordinary maintenance. If this is not possible, it must still be possible to distance the product from adjacent walls/elements.

This operation must be performed by a technician qualified to disconnect the combustion product expulsion ducts and their subsequent restoration.

For generators connected to the hydraulic system, a connection must be provided between the system itself and the product so that, during extraordinary maintenance, carried out by a qualified technician, it is possible to move the generator by at least 50 cm from adjacent walls without emptying the system (e.g. by using a double shut-off gate or suitable flexible connection).

Air inlet

It is mandatory to provide an adequate external air inlet that supplies the combustion air required for the product to work properly. The flow of air between the outside and the installation room can take place with a free air inlet or by channelling the air directly to the outside³.

The free air inlet must:

- be made at floor level
- always be protected with an outer grille and in such a way that it cannot be obstructed by any object
- have a minimum total free area of 80 cm2 (net of the grille)

The presence of other suction devices (e.g.: vmc, electric fan for stale air extraction, kitchen hood, other stoves, etc.), in the same room could cause negative pressure in the room. In this case, with the exception of sealed installations, one must verify that, with all the equipment on, no more than 4 Pa of negative pressure is created inside the installation room with respect to the outside. If necessary, increase the air inlet section.

It is possible to duct the air required for combustion to the outside by connecting the external air inlet directly with the combustion air inlet which is usually found on the back of the appliance.

The duct must comply with the following dimensions (each 90° bend is equivalent to one linear metre):

³ in the event the combustion air is ducted on unsealed products, still verify that no more than 4 Pa of negative pressure is created inside the installation room with respect to the outside, otherwise provide for an additional air intake in the room.

Below 15kW:

Air duct diameter	Maximum length (smooth duct)	Maximum length (corrugated duct)
50mm	2m	1m
60mm	3m	2m
80mm	7m	4m
100mm	12m	9m

Above 15kW:

Air duct diameter	Maximum length (smooth duct)	Maximum length (corrugated duct)
50mm	-	-
60mm	1m	-
80mm	3m	1m
100mm	7m	4m

Preparing the smoke expulsion system

The combustion product expulsion system is a particularly important element for the proper operation of the appliance and must be correctly sized according to EN 13384-1.

Its creation/adaptation/verification must always be carried out by a legally qualified operator and must comply with the regulations in force in the country where the appliance is installed.

The Manufacturer declines all liability for malfunctions caused by a badly sized and non-compliant smoke expulsion system.

Smoke duct (smoke fitting)

The smoke duct is the pipe that connects the appliance to the flue.

This smoke fitting must comply in particular with the following requirements:

- comply with product standard EN 1856-2;
- its cross-section must be of constant diameter and no less than that of the appliance outlet, from the firebox outlet up to the connection in the flue;
- the horizontal section must be as short as possible and extend no more than 4 metres;
- the horizontal sections must have a minimum upward slope of 3%;
- changes of direction must have an angle no greater than 90° and be easy to inspect
- the number of changes of direction, including that for entry into the flue, and exclusion of the T in the event of a side or rear outlet, must not exceed 3;
- it must be insulated if it passes outside the installation room
- it must not in any case cross rooms in which it is forbidden to install combustion appliances.
- the use of flexible metal and fibre cement or aluminium hoses is forbidden;

In any case, smoke ducts must be sealed against combustion products and any condensation. For this reason, it is recommended to use pipes with silicone gaskets or similar sealing devices that withstand the operating temperatures of the appliance (e.g. T200 P1) and that by removing the gaskets, are still T400 N1 G certified.

Flue (chimney or piped duct)

When creating the flue, in particular comply with the following requirements:

- comply with the applicable product standard (EN 1856, EN 1857 EN 1457, EN 1806, EN 13063..);
- be made with suitable materials to ensure resistance to normal mechanical, chemical, thermal stresses and have adequate thermal
 insulation in order to limit the formation of condensate;
- have a predominantly vertical configuration and be free of choke points along its entire length;
- be correctly spaced by air gaps and isolated from combustible materials;
- the flue inside the house must still be insulated and can be inserted in an air shaft provided it complies with the regulations for piping;
- the smoke duct must be connected to the flue by means of a Tee fitting with an inspectable collection chamber for the collection of soot and any condensate.
- where the sizing provides for wet operation, a suitable condensate collection and siphon discharge system must be set up.



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We recommend checking the data plates of the flue for the safety distances that must be observed in the presence of combustible materials and, if necessary, the type of insulating material to be used.
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It is forbidden to connect the stove to a collective or shared flue (*) with other combustion appliances or with hood outlets.

It is forbidden to use the direct drain on the wall or towards indoor spaces and any other form of drain not provided for by the regulation in force in the country of installation.

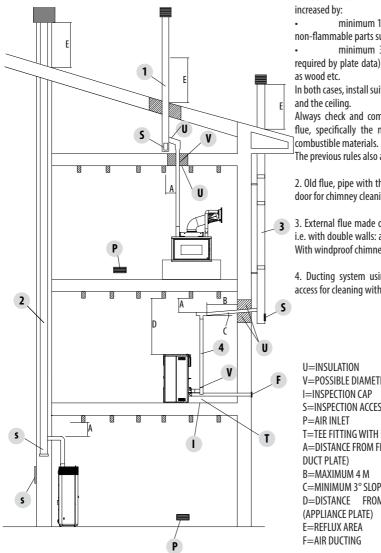
Chimneypot

The chimneypot, meaning the end part of the flue, must meet the following characteristics:

- the smoke outlet section must be at least double the internal section of the chimney;
- prevent the penetration of rain or snow;
- ensure the outlet of smoke even in the event of wind (windproof chimneypot);
- the height of outflow must be beyond the reflux area (*) (refer to national regulations to identify the reflux area);
- always be built at a distance from antennas or dishes, and never be used as a support.

(*) unless there are specific national derogations (clearly specified in the corresponding instruction manual in English) which under appropriate conditions allow it; in this case, strictly follow the product/installation requirements of the relative regulations/technical specifications/legislation in force in that country.

EXAMPLES OF INSTALLATION⁴ (DIAMETERS AND LENGTHS TO BE SIZED)



1. Flue installation with hole for the passage of the pipe increased by:

• minimum 100mm around the pipe if next to non-flammable parts such as cement, brick, etc.; or

• minimum 300mm around the pipe (or as required by plate data) if next to flammable parts such as wood etc.

In both cases, install suitable insulation between the flue and the ceiling.

Always check and comply with the plate data of the flue, specifically the minimum safety distances from combustible materials.

The previous rules also apply for holes made in walls.

2. Old flue, pipe with the inclusion of an external access door for chimney cleaning.

 3. External flue made of insulated stainless-steel pipes, i.e. with double walls: all securely mounted on the wall. With windproof chimneypot.

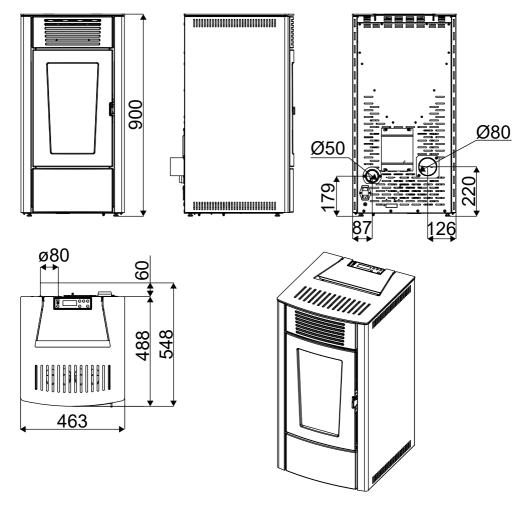
4. Ducting system using Tee fittings that allow easy access for cleaning without having to remove the pipes

U=INSULATION V=POSSIBLE DIAMETER INCREASE I=INSPECTION CAP S=INSPECTION ACCESS PANEL P=AIR INLET T=TEE FITTING WITH INSPECTION CAP A=DISTANCE FROM FLAMMABLE MATERIAL (SMOKE DUCT PLATE) B=MAXIMUM 4 M C=MINIMUM 3° SLOPE D=DISTANCE FROM FLAMMABLE MATERIAL (APPLIANCE PLATE) E=REFLUX AREA F=AIR DUCTING

⁴The figure shows typical, but not exhaustive, examples of all possible installations (which must always be approved by a qualified technician)

DRAWINGS AND CHARACTERISTICS

DALIA STOVE AIR 6 S1 DIMENSIONS



3-DRAWINGS AND TECHNICAL FEATURES

TECHNICAL SPECIFICATIONS	DALIA AIR 6 S1
Energy Efficiency Class	A+
Nominal output power	6.3 kW (5418 kcal/h)
Minimum power output	2.5 kW (2150 kcal/h)
Efficiency at Max	91.5%
Efficiency at Min	92.0%
Temperature of exhaust smoke at Max	165 °C ⁽¹⁾
Temperature of exhaust smoke at Min	103°C ⁽¹⁾
Particulate / OGC / Nox (13%0,)	17 mg/Nm3 - 1 mg/Nm3 - 139 mg/Nm3
CO at 13% O_2 at Min and at Max	0.055 - 0.007%
CO ₂ at Min and at Max	7.4% - 12.8%
Recommended draught at Max*** power	0.10 mbar - 10 Pa***
Minimum draught allowed at minimum power	0.05 mbar - 5 Pa
Smoke mass	3,7 g/sec
Hopper capacity	24 litres
Type of pellet fuel	Pellet diameter 6 mm and size 3 - 40 mm
Pellet hourly consumption	Min ~ 0.6 kg/h* - Max ~ 1.45 kg/h*
Autonomy	At min ~ 26 h* - At max ~ 11 h*
Heatable volume m ³	135/55 – 155/35 – 181/20 **
Combustion air inlet	Ø 50 mm
Smoke outlet	Ø 80 mm
Air inlet	80 cm ²
Rated electrical power (EN 60335-1)	76 W (Max 350 W)
Supply voltage and frequency	230 Volt / 50 Hz
Net weight	90 kg
Weight with packaging	100 kg
Distance from combustible material (back/side/under)	50mm/100mm/0 mm
Distance from combustible material (ceiling/front)	800mm/1000 mm

* Data that may vary depending on the type of pellets used

** Volume that can be heated, according to the power requirement per m³ (respectively 55-35-20 W per m³)

***Value recommended by the manufacturer (non-binding) for optimal product operation

Tested according to EN 14785 in accordance with European regulation for Construction Products (EU 305/2011)

⁽¹⁾ To properly size the chimney (in accordance with EN 13884-1), use the smoke temperature exactly detected at the outlet of the appliance, or the above stated temperature increased by 20% (e.g. stated temperature 100°C: product outlet temperature 120°C)

3-DRAWINGS AND TECHNICAL FEATURES

MCZ GROUP

ENI

INFORMATION REQUIREMENTS FOR SOLID FUEL LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATIONS (EU) 2015/1185 - (EU) 2015/1186 (PRODUCT FICHE)

Manufacturer:	MCZ GROUP SpA
Trademak:	RED
Model Identifier:	DALIA AIR 6 S1
Indirect heating functionality:	NO
Direct heat output (space heat output):	6,3 kW
Indirect heat output (water heat output):	kW
CPR harmonised standard:	EN 14785:2006
Product description:	Mechanically fed roomheater burning wood pellets
Notified Body:	ACTECO SRL (N.B. 1880)

Via Amman 41, 33084 Cordenons (PN), IT

Fuel	Preferred fuel:	Other suitable fuel(s):	ηs [%]	EEI [%]
Log wood, moisture content ≤ 25 %	NO	NO		
Compressed wood with moisture content < 12 %	YES	NO	79,5	121
Other woody biomass	NO	NO		

Observe the specific precautions for installation, assembly and maintenance indicated in the manual accompanying the product, and the national and local rules in force

Energy Efficiency Class

(A++ / G scale)

A+

Characteristics when operating with the preferred fuel:

Space heating emissions (mg/Nm3 at 13% O2)	CO	NO _x	OGC	PM
at Nominal heat output	83	139	1	17
at Minimum heat output	679	131	2	27

Heat output				
Item Symbol Value		Unit		
Nominal heat output	P _{nom}	6,3	kW	
Minimum heat output (indicative)	P _{min}	2,5	kW	
Useful efficiency (NCV as received)				
Useful efficiency at nominal heat output	$\eta_{\text{th,nom}}$	91,5	%	
Useful efficiency at minimum heat output (indicative)	$\eta_{\text{th,min}}$	92,0	%	
Auxiliary electricity consumption				
At nominal heat output	el _{max}	0,076	kW	
At minimum heat output	el_{min}	0,040	kW	
In standby mode	el _{sb}	0,002	kW	

Type of heat output/room temperature control (select one)		
single stage heat output, no room temperature control	NO	
two or more manual stages, no room temperature control	NO	
with mechanic thermostat room temperature control	NO	
with electronic room temperature control	NO	
with electronic room temperature control plus day timer	NO	
with electronic room temperature control plus week timer	YES	
Other control options (multiple selections possible)		
room temperature control, with presence detection	NO	
room temperature control, with open window detection	NO	
with distance control option	NO	

EN

4-UNPACKING

INSTRUCTIONS FOR PACKAGING DISPOSAL

The material that the appliance's packaging is made of must be managed correctly, in order to make collection, reuse, recovery and recycling easier, where possible.

The table below illustrates the possible components that the packaging is made of, and the relative instructions for correct disposal.

DESCRIPTION	CODE MATERIAL	SYMBOL	DIRECTIONS FOR COLLECTION	
WOOD BED	WOOD FOR 50	^	SORTED waste collection	
WOOD CAGE		50	WOOD	
WOOD PALLET		FOR	Check with the competent body on how to dispose of this packaging at the recycling depot	
CARDBOARD BOX	CORRUGATED CARDBOARD	Δ	SORTED waste collection	
CARDBOARD CORNER	PAP 20	20	PAPER	
CARDBOARD SHEET		PAP	Check the instructions of the competent body	
APPLIANCE BAG	POLYETHYLENE LD-PE 04	^	SORTED waste collection	
BAG OF ACCESSORIES			PLASTIC	
BUBBLE WRAP		PE-LD	Check the instructions of the competent body	
PROTECTIVE SHEET				
LABELS				
POLYSTYRENE	POLYSTYRENE PS 06	Λ	SORTED waste collection	
FOAM PEANUTS		106	PLASTIC	
		PS	Check the instructions of the competent body	
STRAP	POLYPROPYLENE PP 05	^	SORTED waste collection	
TAPE	POLYESTER PET 01		PLASTIC	
			Check the instructions of the competent body.	
SCREWS	IRON FE 40	^	SORTED waste collection	
STAPLES FOR STRAP			METAL	
FASTENING BRACKET		FE	Check with the competent body on how to dispose of this packaging at the recycling depot	

4-UNPACKING



Handle the product with suitable means paying attention to the applicable safety regulations in force. Do not turn the packaging over and handle the majolica parts with care.

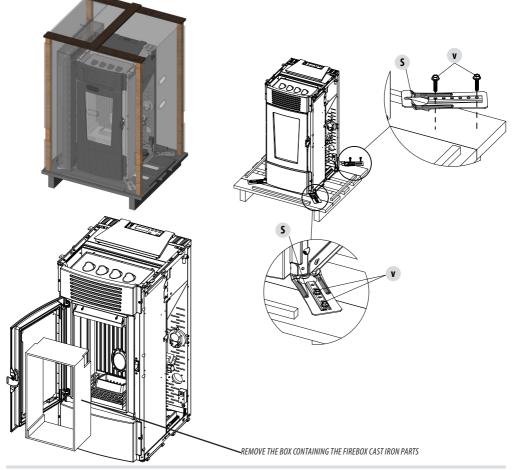
The stove is delivered in a single package. Open the package, remove the cardboard packaging with the decorative parts and remove the two screws "v" that secure the stove brackets to the pallet and then remove the bracket "S" from the stove foot.

Install the stove in the chosen area, making sure it complies with the requirements.

Remove the cardboard panel from the firebox cast iron parts.

The stove body or unit must always be kept in a vertical position when handled, and handled using carts only. Pay particular attention to the door and its glass, protecting them from mechanical knocks that would compromise their integrity.

The product must always be handled with care. If possible, unwrap the stove near the chosen area of installation. The packaging materials are neither toxic nor harmful, therefore no particular disposal measures are required.



4-UNPACKING

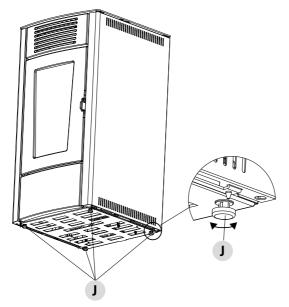
Therefore, the end user is responsible for product storage, disposal or possible recycling in compliance with the relative applicable laws in force. Do not store the stove unit or its cladding without their packaging.

Position the stove and connect it to the flue pipe.

If the stove needs to be connected to an outlet pipe which goes through the rear wall (to connect to the flue), take utmost care to make sure that the joint is not forced.



If the stove smoke outlet is forced or used improperly to lift it or position it, the operation of the stove can be damaged irreparably.



1. TURN THE FEET CLOCKWISE TO LOWER THE STOVE 2. TURN THE FEET COUNTERCLOCKWISE TO LIFT THE STOVE

On delivery, the Dalia stove has no metal cladding, as shown in the image below.

Take the box with the metal sides (figure below) and prepare them for installation. The parts to assemble are already completely assembled and ready to be installed on the stove.

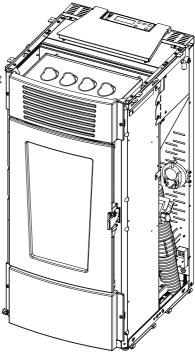


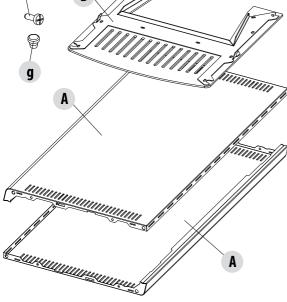
Live electrical parts: only power the product once it has been fully assembled.

The metal parts are delicate, therefore handle with care.

POS.	DESCRIPTION	No.
A	LATERAL METAL PANEL	2
В	TOP IN METAL	1
g	TOP POSITIONING RUBBER SUPPORTS	4
х	M4x12 SCREWS	4

B

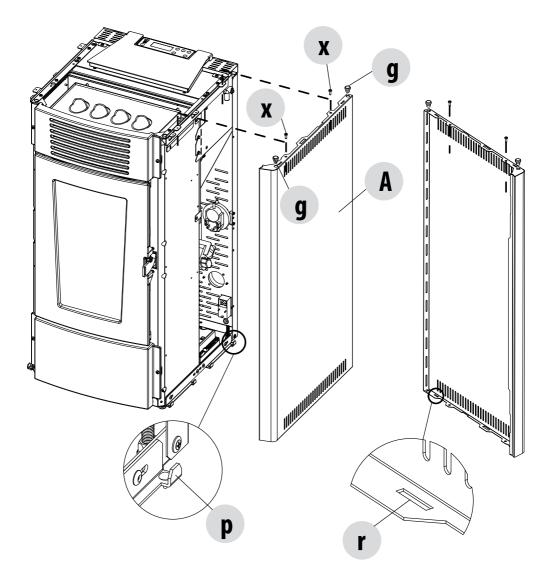




ASSEMBLING THE SIDE CLADDING

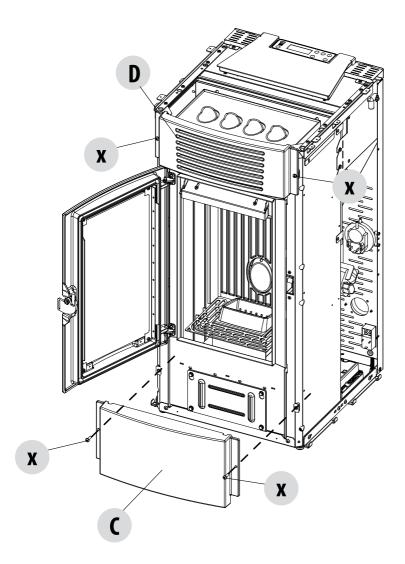
To install the side panel "A", proceed as follows:

- take panel "A" from the box of the package
- in the lower part, insert holes "r" in the lower part of the panel into interlocks "p" on the stove's structure
- fasten panel "A" at the top to the stove with the two screws "x" provided.
- Insert the rubber supports "g" into the holes provided on the panel, which are required in order to place the top "B"
- Repeat the same procedure with the other panel "A"



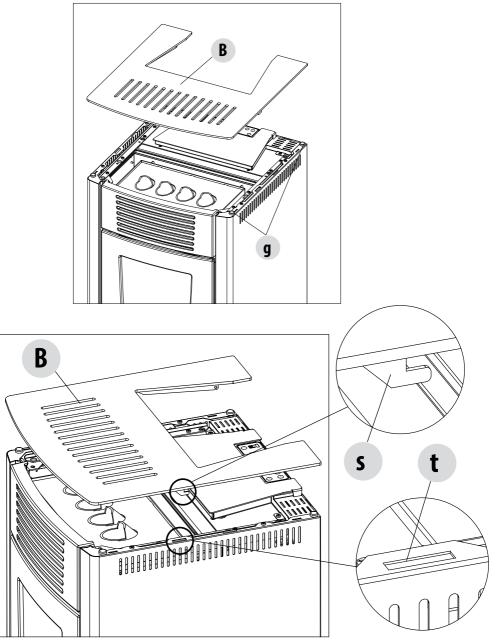
REMOVING THE LOWER AND/OR UPPER PANEL

The stove is delivered to the customer with the lower "C" or upper "D" panel already assembled on the structure. In both cases, to remove panel "C" or "D" simply remove the two screws "x" on the side.



ASSEMBLING THE TOP

To assemble top "B" in the stove's structure, you must: insert the two hooks "s" present on the top "B" into hole "t" provided on the stove the top will rest on the four rubber supports "g" already installed on panels "A"



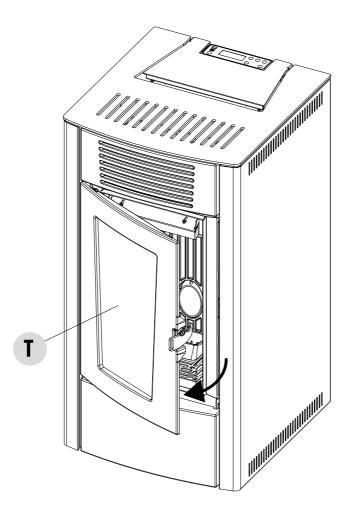
OPENING THE DOOR OF THE FIREBOX

To open the firebox door "T", insert the cold handle provided into the hole and pull it towards you.

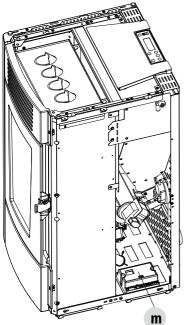


Attention!

The firebox door must be closed properly for the stove to work correctly. Only open the door when the stove is off and cold.

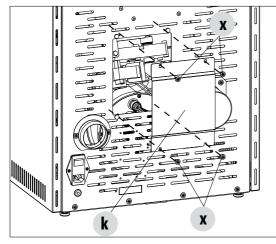


ELECTRONIC BOARD ACCESS



The electronics board "m" is on the right side (handle side). If the electronic board needs accessing, remove the top and side panel as per the instructions in the previous paragraphs.

GEAR MOTOR ACCESS



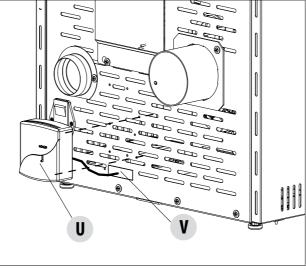
To access the gear motor remove the four screws "**x**" from the back of the stove and remove the plate "**k**".

6-CONNECTION TO ADDITIONAL DEVICES

MODEM / PROGRAMMABLE THERMOSTAT (EXTRA) INSTALLATION

To install the programmable thermostat and modem please refer to the instructions in the manuals relating to the accessories.

The modem must be fastened to the back of the stove using the adhesive Velcro straps, while the receiver " \mathbf{U} " of the programmable thermostat must be fastened to the relevant holes. Fasten the receiver " \mathbf{U} " using the screws provided, break the knockout hole " \mathbf{V} " and feed through the cables that must be connected to the board.



7-EASY CONNECT

WIFI PANEL (EASY CONNECT)

The Easy Connect WiFi panel is already installed at the back of the stove and connected to the board. In order to use the WiFi system, the customer must download the app and follow the set-up instructions.





EXAMPLE OF EASYCONNECT MODULE SILVER LABEL

APPLICATION INSTALLATION AND CONFIGURATION

Download the application and follow the instructions below. If your home router has a WPS key, follow the procedure below, otherwise refer to the following points.

REGISTRATION PROCEDURE VIA CONTROL PANEL

WPS makes it possible to associate Wireless devices for Internet connection by pressing a button on the home Router (or other device). We recommend to refer to the instructions of your home Router (or other device) to activate the WPS.

Follow the procedure below:

- Press the "menu" key,
- scroll with the arrows until "WiFi/BLE is displayed
- confirm with "Menù"
- scroll with the arrows and find "WiFi WPS"
- Press "Menu",
- the connection countdown starts (WPS ENROLEE)
- during the countdown, press the "WPS" button on the router and wait the end of the count for the connection.
- Note: Refer to the instructions of your home Router to activate WPS

Wait until "connected cloud" is displayed

Press "ESC" twice to exit the control.

• A "cloud" will be displayed at the top left next to the time to indicate that the device is connected. Now continue setting up from the APP.

This type of configuration replaces that indicated in point"4) Wi-Fi/Router kit configuration".

When the configuration screen appears (see image), press the "SKIP STEP" button and continue with point 5 "Using the App".





Come vuoi configurare la connessione del modulo al router?



7-EASY CONNECT

The product set up procedure consists of 5 basic steps:

1 - APP INSTALLATION

- You can download the app with one of the following methods:
- Scan the QR Code on the label of the Wi-Fi module
- Search for the app's name given on the label on the store for your smartphone

2 - USER REGISTRATION

- a) At first login confirm all the authorisations required by the app.
- b) Register a new user profile by pressing the "REGISTER" key, entering your e-mail address and creating a password.

c) If required, enter the confirmation code received by e-mail agua@micronovasrl.com (don't forget to check the spam folder, if necessary) and press the "ACTIVATE" key.

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easy/connect		easy/co	
≡ Benvenuto		← Attivazione accour	it
Sei un utente già iscritto al servizi ACCEDI Non sei ancora registrato? REGISTRATI	97	Codice di attivazione Insensci il codice di attivazione ALTIVA	

WI-FI/APP KIT SET UP

- 1. Make sure that the Wi-Fi module is wired properly and the stove and accessory are powered.
- 2. On the "My stoves" screen, press the "+" button on the bottom right to add a stove.

10:47 🖯 🖬 S	NE 19 al 73% 🛍	13:51 🛇	₩ thui 57% 🚔	13:56 🛇 🖴	NI 17 JI 565 🗎
easy/connect		ea	^{sy} /connect	easy/connect	
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	•	MODU	ILO ESTERNO	24134 27115	_

3. Select your type of Wi-Fi module (BUILT-IN or EXTERNAL) and enter all of the identification data for the module and stove either manually or with the QR Code (read the INFO in the APP):

7-EASY CONNECT

Stove serial number	On the stove's warranty card and inside the pellet hopper.
MAC address	Found on the label on the "ET" page inside the document envelope inside the store.
Registration Code (Reg.Code)	Found on the label on the "ET" page inside the document envelope inside the store.
Item model	Autocomplete field. If it does not autocomplete after scanning the stove serial number, capture the QR Code on the bottom of the page and check the relative FAQ.
Item code	(autofill field)
Stove description	For example: "Living room stove"
Stove location	(optional data)
Authorisation to anonymously sharing the operation data	(optional authorisation)

4. Press the "SAVE STOVE" button (the stove will be added to the "My stoves" list).

5. The set up screen for the Wi-Fi module to the router will appear.

4 - ROUTER/WI-FI KIT SET UP

1. Press "CONFIGURE VIA WI-FI" on the configuration screen. "Navel Connection" will appear

2. Close the app, find the Wi-Fi settings on your smartphone and connect to the "NAVEL_xxxxxx" network. Pay attention to any messages that may disconnect your smartphone from the newly connected Wi-Fi network.

3. Once connected, reopen the app and press "CONNECT AND CONTINUE"

4. Press "CONTINUE WITHOUT INTERNET" and confirm with "OK"

5. A screen will appear with the list of available WI-FI networks.

6. Select the home WI-FI network and connect by pressing "CONNECT" (this only happens when you connect for the first time - your smartphone should then automatically connect to your home network)

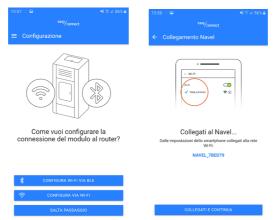
7. Close the APP and in your smartphone's Wi-Fi settings, disconnect from the "NAVEL_xxxxxx" Wi-Fi network

8. Open the APP and confirm ("DONE for IOS or "X" at top right for Android)

9. Wait for the "Set up completed" message

10. Press "GO TO THE LIST" and select the stove

Note. If you want to pair the Wi-Fi module with the router later, simply press the 3 dots next to the stove you want to connect to the home router and select "Set up Wi-Fi"



7-EASY CONNECT

5 - USING THE APP

- 1. When the "plug" appears next to the added stove, it means that the stove is connected. You can now use the app.
- 2. To open the stove controls, tap on the stove name in the "My stoves" list.
- 3. Make sure that the WIFI/BLUETOOTH selector is on WIFI (see figure alongside).

Once connected to the stove, you can choose what to display by pressing the menu key:

INFORMATION	INFORMATION ADJUSTMENTS	
14.02 Image: State Stat	14.05 ■ 100 ± 55% ■ extry/connect: extry/connect: ← Laboratorio	14.43 Image: Control of the set of t
		Orario non impostato
The items that can be displayed are:	The items that can be set are: ECO STOP	You can set up to 6 stove operating programs. The variables that can be set are the days of the week and the
Actual power	ECO STOP T.	
Status	Power	product switch-on/off times.
T Room	T Room	
T Fumes	Ventilation	
For more information, the late information on		

8-LOADING THE PELLETS

LOADING THE PELLETS

Fuel is loaded from the upper part of the stove by lifting door "U". Pour the pellets in slowly so that they are deposited at the bottom of the hopper.



If loading pellets when the stove is running, open the door of the tank using the stove cold handle that comes with the stove itself. When loading, do not let the pellet bag come into contact with hot surfaces.

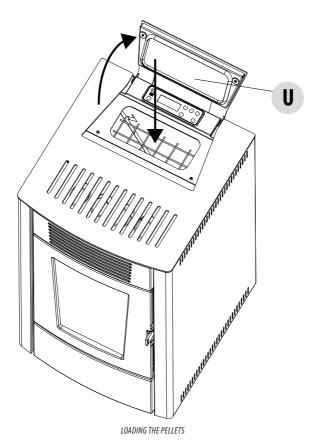
Never remove the protection grid inside the hopper.

No other type of fuel other than pellets is to be inserted into the hopper, in compliance with above-mentioned specifications.

Store the spare fuel at an adequate safe distance.

Do not pour pellets directly onto the brazier but only into the tank.

When the appliance is running and when it is turned off, most of the stove surfaces are very hot (door, handle, glass, smoke outlet pipes, etc.). Therefore it is recommended to avoid coming into contact with these parts.



36

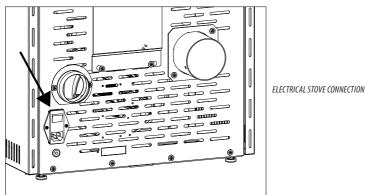
9-ELECTRICAL CONNECTION

ELECTRICAL CONNECTION

First connect the power cable to the back of the stove and then to a wall socket. The main switch must only be activated to switch the stove on; otherwise, it is advisable to keep it switched off.



It is recommended to disconnect the power cable when the stove is not used.



STOVE POWER SUPPLY

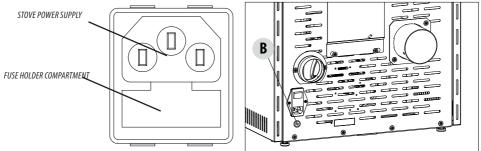
Connect the power cable to the back of the stove and then to a wall socket. The stove is then powered.

There is a fuse box also in the switch block next to the power socket. Open this compartment by simply lifting the cover, using a screwdriver as a lever from inside the power outlet compartment. Inside there are two fuses (5x20 mm T delayed / 3.15 A 250 V), which may need to be replaced if the stove is not powered (e.g. the control panel display does not light up) - operation to be implemented by an authorised and skilled technician.



ATTENTION!

All cleaning and / or replacement of parts must be carried out with the electric plug disconnected. Disconnect the product from the 230V power supply before performing any maintenance operations. If the cable is damaged, replace it.



Room Probe

The room probe (B) is located at the back of the stove near the switch.

10-FIRST START-UP

PRECAUTIONS BEFORE START-UP GENERAL PRECAUTIONS

Remove any objects that may burn from the brazier (manual, various adhesive labels or any polystyrene). Check that the brazier is positioned correctly and rests properly on the base.



The first start-up may not be successful as the feed screw is empty and does not always manage to load the required amount of pellets in time to light the flame.

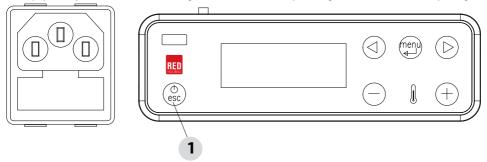


CANCEL THE FAILED IGNITION ALARM BY PRESSING AND HOLDING THE ON/OFF KEY FOR A FEW SECONDS. REMOVE THE PELLET LEFT IN THE BRAZIER AND REPEAT THE START-UP.

SETTINGS TO BE CARRIED OUT BEFORE THE INITIAL START-UP

After connecting the power cable to the back of the product, turn the switch at the back to position(I). To turn the stove on or off, press button **1** on the control panel.

The display on the panel will be ON with a flashing flame. When the flame stops blinking, the stove has reached the operating condition



to "supply power".

The default target room temperature is set at 20°C. To change this setting, follow the instructions in the adjustments menu; do the same to set the heating water temperature and the speed of the ventilation fan (if provided). To activate an external thermostat, if present, see the dedicated paragraph.

POWER SUPPLY

When start-up is complete, the panel will display <u>ON with a constant flame</u> at level 3 **III**. The modulation of the flame for higher or lower power is then controlled autonomously on the basis of reaching the set temperature. (see also "OPERATING MODE" - "Set Flame")

10-FIRST START-UP

If the flame fails to ignite, despite a regular flow of pellets, check that the brazier is seated correctly: it must **rest snugly against the interlocking slot and be clean of any ash incrustations.** If no anomaly is found during this inspection, there may be a problem with the product components or installation may not be correct.



REMOVE THE PELLETS FROM THE BRAZIER AND CONTACT AN AUTHORISED TECHNICIAN.

Please ensure the brazier is free from ALL pellets and ash build up following any failed ignitions. Failure to clear out the brazier prior to resetting may result in further failed ignitions or in certain conditions an explosive ignition.



It is good practice to ensure effective ventilation in the room during the initial start-up, as the product will emit some smoke and smell of paint.

Do not stand close to the boiler and ventilate the room as described. The smell of paint will disappear after about an hour of operation, however, it is not harmful in any case.

The product will be subject to expansion and contraction during the start-up and cooling phases, therefore slight creaking noises may be heard.

This is absolutely normal as the structure is made of laminated steel and must not be considered a defect.



DO NOT EXPECT HEATING EFFICIENCY IMMEDIATELY!!! THE PRODUCT NEEDS SOME RUNNING-IN TIME.

It is extremely important to make sure the product does not reach high temperatures straight away, but to increase the temperature gradually using low power at first.

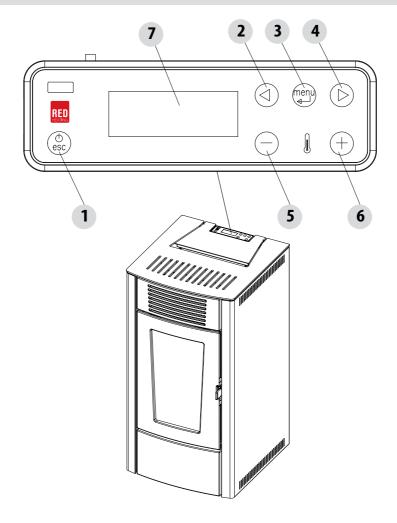
This will prevent damage to the welds and the steel structure.



Do not touch the product during the first lighting, as it is during this phase that the paint sets. If you touch the paint, you may expose the steel surface.

If necessary, touch up the paint with the spray can of the specific colour.

11-CONTROL PANEL



KEY

1. Stove switch-on/switch-off 2. Scrolling down through the programming menu 3. Menu 4. Scrolling up the programming menu	 Decrease set temperature / programming functions. Increase set temperature / programming functions. Display.
--	--

MAIN MENU

Press key 3 (menu) to access. The options accessed are:

- Date and Time
- Timer
- Sleep (only when stove is on)
- Settings
- Info

Date and time configuration

Configure the time and date as follows:

- Press the "menu" key.
- Select "Date and Time".
- Press "menu" to confirm.
- Scroll through with the arrow keys and select the variables to be edited one at a time: Day, Hour, Min, Num. day, Month, Year.
- Press "menu" to confirm
- Use the + and keys to edit.
- Finally, press "menu" to confirm and "esc" to exit.

CONFIGURATION OF PROGRAMMED MODE (TIMER) - Main menu

\triangle

The current time and date must be configured to ensure correct operation of the timer.

There are six configurable TIMERS; for each one, the user can select a start and stop time and the days of the week when it is in use. When one or more programs are active, the status of the stove and the TIMER "n" alternate on the display. "n" is the number of timer programs in use, separated by dashes.

Example:

TIMER 1 Timer 1 program active.

TIMER 1-4 Timer 1 and 4 programs active.

TIMER 1-2-3-4-5-6 All timer programs active.

EXAMPLE OF PROGRAMMING

With the stove on or off:

- access the MENU,
- scroll to the TIMER item using the <> arrows,
- press the "Menu" key
- the system shows "P1" (Press the <> keys to move through the timers P2, P3, P4, P5, P6)
- Press the "Menu" key to activate "P1".
- press + and select "ON"
- press the "Menu" key to confirm

At this point the start time is 00:00. Press the + - key to set the start time and press the "menu" key to confirm.

Next, the proposed stop time is 10 minutes later than the configured start time: press the + key and edit the stop time, and press the "menu" key to confirm.

Next, you are asked to set the days of the week when the configured timer is to be enabled or disabled. Press the - or + keys to select the day you want to activate the time. It will light up white, then confirm with the "menu" key. If no day is selected for enabling the timer, the timer program is no longer enabled on the status window.

Next, program the other days or press "ESC" to exit. Repeat this procedure to program the other timers.

EXAMPLES OF PROGRAMMING

P1		P2			
on	off	day	on	off	day
08:00 12:00 mon		11:00	14:00	mon	
Stove on between 08:00 and 14:00					

P1		P2			
on	off	day	on	off	day
08:00	11:00	mon	11:00	14:00	mon
Stove on between 08:00 and 14:00					

Stove on between 08:00 and 14:00

P1		P2			
on	off	day	on	off	day
17:00 24:00 mon		00:00	06:00	tue	
Stove on between 17:00 on Monday to 06:00 on Tuesday					

NOTES ON USE OF THE TIMER

- The timer always starts the boiler with the last temperature and ventilation settings (or with the default settings at 20°C and V3 if they have never been altered).
- The start time can be between 00:00 and 23:50
- If the stop time has not yet been saved, the program proposes a start time at +10 minutes.
- If a timer program turns off the stove at 24:00 on one day and another program starts it up at 00:00 on the next day: the stove
 remains on.
- A program has a start-up and/or shut-down time that overlap the times of another program: if the stove is already on, the start has
 no effect while OFF turns off the stove.
- When the stove is on and the timer is active, pressing the OFF key turns off the stove; the stove then restarts automatically at the next time of the timer.
- When the stove is off and the timer is active, pressing the ON key turns on the stove; the stove then stops automatically at the next time of the timer.

SLEEP FUNCTION (main menu)

Sleep may be activated only when the stove is on and allows you to quickly set a time for the product to turn off.

- To set the Sleep function, proceed as follows:
- Enter the MENU
- Scroll to the SLEEP item with the <> arrows
- Press Menu
- Set the turn-off time you want using the + and keys.

The panel shows a default time of 10 minutes after the current time, which can be adjusted with key 6 up to the following day (i.e. the turn-off can be delayed for a maximum of 23 hours and 50 minutes).

If the SLEEP function is active with the TIMER active, the former has priority, therefore the stove will not turn off at the time set in the timer program but at the time set by the sleep function, even if it comes after the time set by the timer.

OPERATING MODE ADJUSTMENTS MENU

"Adjustments" menu settings determine the operation mode of the stove.

- To access the menu, proceed as follows:
- Press the + keys
- Scroll with the <> arrows and select "Set Amb. T" or "Set Ventilation T" or "Set Flame"
- Press "menu" to enter the option selected.
- Change with the + keys.
- Press "menu" to confirm and "esc" to exit.

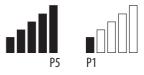
Set Amb T - this function is used to set the temperature to be reached in the room in which the stove is installed, from a minimum of 5° C to a maximum of 35° C. When this condition is met, the stove setting is equivalent to the minimum consumption values (the flame and hot air fan speed at minimum), and then returns to the set values when the room temperature drops below the set threshold. PLEASE NOTE: The point to the right of the room temperature on the control panel display indicates the half degrees (e.g. $23.^{\circ}$ C is equivalent to 23.5° C).

Set Vent - this function allows you to select the desired speed of the room fan from 1 to 5.

Set Flame - this function allows you to set the power of the flame from a minimum of 1 to a maximum of 5. The power levels correspond to a different value of fuel consumption, setting 5 heats the room in less time and setting 1 can keep the room temperature stable for a longer period of time. The set flame is automatically set to a minimum when the set temperature value is reached.

VIEW WITH STOVE ON

if the bars are all full, the stove is on flame power 5 if only one bar is full, the stove is on flame power 1 if the bars are flashing, automatic cleaning is in progress



SETTINGS MENU

The SETTINGS menu is to configure use of the stove:

- a. Language.
- b. Cleaning (shown only when stove is off).
- c. Auger loading (shown only when stove is off).
- d. Tones.
- e. External thermostat (activation).
- f. Auto Eco (activation).
- g. Eco Turn-off T (default 10 minutes).
- h. Pellet recipe.
- i. % of smoke rpm.
- j. Component test (shown only when stove is off).
- k. "Chimney sweeper" function (can be enabled only when stove is on to check emissions in field).
- I. Technical menu.

a - Language

Select the language as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "language".
- Press "menu" to confirm.
- Use the + keys to select the required language (IT/EN/DE/FR/ES/NL/PL/DK/SLO)
- Press "menu" to confirm and "esc" to exit.

b - Cleaning

Select "Cleaning" (only with stove off) as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "Cleaning"
- Press "menu" to confirm.
- Use the + keys to select "On".
- Press "esc" to exit.

c - Load auger

To select "Load auger" (only with stove off), proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll with the arrows and select "Load auger".
- Press "menu" to confirm.
- With the + key "Enable" the load auger.
- Press "esc" to exit.

d - Tones

This function is disabled by default. To enable it proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "Tones"
- Press "menu" to confirm.
- With the + keys, select "On/Off".
- Press "menu" to confirm and "esc" to exit.

e - External thermostat (see dedicated chapter)

f - Auto-Eco activation (see dedicated chapter)

To select the Auto-Eco function, proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll with the arrows and select "Auto-Eco".
- Press "menu" to confirm.
- Use the + keys to select "On".
- Press "menu" to confirm and "esc" to exit.

g - Eco stop T (see dedicated chapter)

To select the Eco Stop T function, proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll with the arrows and select "T Eco off".
- Press "menu" to confirm.
- With the + keys, insert the minutes (from 1 to 30').
- Press "menu" to confirm and "esc" to exit.

AUTO ECO MODE (see above paragraph activation and switching off)

For activation of the "Auto Eco" mode and time settings, see paragraphs f and g respectively.

"ECO stop T" can be adjusted to ensure correct operation in the various environments in which the stove can be installed and to avoid constant stopping and starting when the room temperature is subject to sudden change (drafts, poorly insulated rooms, etc.).

The ECO stop procedure is activated automatically when the power recall device is satisfied (room probe $+1^{\circ}$ C or external thermostat with an open contact), the "ECO stop T" starts to decrease the time (factory default 5 minutes, which can be changed from the "Settings" menu). During this phase, the panel alternates between displaying ON with a small flame and Crono (if active) - Eco active. The minutes counting down to the Eco Stop are shown at the top of the display. The flame moves to P1 and remains there until the set "T Eco Stop" time reaches zero, and if the conditions are still satisfied, turns off the boiler. The ECO stop count is cancelled if one of the devices recalls power. When the boiler begins to turn off, the panel shows: Off - Eco Active - flashing small flame.

When the stove turns off, OFF-ECO appears on the display with the flame symbol off.

The following conditions have to be met simultaneously for the ECO to restart:

- room probe -1°C or external thermostat with a closed contact (for at least 20" in order to prevent false recalls)
- 5 minutes have passed since shut-down.

h - Pellet Recipe

This function is for adapting the stove to the type of pellet in use. As there are many types of pellet available on the market, operation of the stove can vary considerably according to the quality of the fuel. When the pellets clog up the brazier due to excess loading of fuel or when the flames are high even at low power, or when the flames are low, it is possible to decrease/increase the amount of pellets in the brazier:

Available values:

- -3 = A decrease of 20% on the factory setting.
- -2 = A decrease of 13% on the factory setting.
- -1 = A decrease of 6% on the factory setting.
- 0% No changes.
- 3 = An increase of 10% on the factory setting.
- 2= An increase of 6% on the factory setting.
- 1= An increase of 3% on the factory setting.

Edit the recipe as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll with the arrows and select "Pellet recipe"
- Press "menu" to confirm.
- Alter the % with the + keys.
- Press "menu" to confirm and "esc" to exit.

i - Variation % rpm smoke

In the event the installation presents problems in extracting smoke (lack of draft or even pressure in the duct), it is possible to increase the smoke and ash extraction speed. This change resolves all the potential problems related to pellets clogging in the brazier and deposits forming at the bottom of the brazier itself caused by poor quality fuel or fuel that produces a lot of ash. The extraction speed may be altered between -30% to +50%, with increments of 10 percent at a time. Negative variation can be necessary if the flame is too low.

To alter this parameter, proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll with the arrows and select "Fumes rpm Var."
- Press "menu" to confirm.
- Alter the % with the + keys.
- Press "menu" to confirm and "esc" to exit.

j - Components test

This can be done only when the stove is off and allows you to select the components to be tested:

- Spark plug: it is turned on for a fixed period of 1 minute during which the panel displays the countdown in seconds.
- Feed screw: it is powered for a fixed period of 1 minute during which the panel displays the countdown in seconds.
- Extractor: it is activated at 2500 rpm for a fixed period of 1 minute during which the panel displays the countdown in seconds.
- Exchanger: enables you to conduct the test in V5 for a fixed period of 1 minute during which the panel displays the countdown in seconds.

Enable the "Component test" function (only with stove off) as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.

- Use the arrow keys to scroll through and select "Component test"
- Press "menu" to confirm.
- Use the + keys to select the test to be carried out.
- Press "menu" to confirm and "esc" to exit.

k - Chimney sweeper function (for maintenance operators only) -

This function can only be activated when the stove is on and power is supplied, and it forces operation of the boiler at the parameters P5, with the ventilator (if present) in V5. Any corrections to the loading/smoke ventilation percentage must be read. This state lasts 20 minutes, the countdown is displayed on the panel.

The technician can stop this phase at any moment by quickly pressing the on/off key.

Enable the "Chimney sweeper" function as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "Chimney sweeper function"
- Press "menu" to confirm.
- Use the + keys to select "On" (Off by default)
- Press "menu" to confirm and "esc" to exit.

I - Technical menu

To access the technical menu you must contact the assistance centre as it requires a password. Access the "technical menu" as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "Technical menu"
- Press "menu" to confirm.
- With the + keys, select "Product Type", "Service", "Counter memories", "Parameters".
- Press "menu" to confirm and "esc" to exit.

INFO MENU

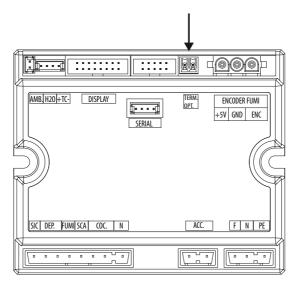
- Product type
- Firmware version
- Software info
- Total hours
- No. of start-ups
- Rpm evacuator
- T. smoke
- Heat exchanger voltage
- Feed screw loading
- Flame

EXTERNAL THERMOSTAT CONNECTION (optional)



The room thermostat is not included with the stove and must be installed by a qualified technician. CAUTION!

The electrical wires must not come into contact with the hot parts of the stove.



The temperature of the stove can also be controlled by an external room thermostat. It should be positioned centrally in the room where the stove is installed. It provides a closer match between the heating temperature requested of the stove and the actual room temperature it provides.

Connect the cables coming from the external thermostat to terminal "Term opt" on board N100 on the stove. Enable the external thermostat (factory settings OFF) as follows:

- Press the "menu" key.
- Scroll with the arrows to "Settings".
- Press "menu" to select.
- Now use the arrows to scroll to "External thermostat".
- Press "menu" to select.
- Press the + keys.
- Select "On" to activate the external thermostat.
- Press the "menu" key to confirm.
- Press the "esc" key to exit.

Once the external thermostat has been enabled, instead of displaying the detected temperature from the probe on the stove, ON or OFF will appear, depending on whether you have requested heat from the external thermostat or not.

ON if the external thermostat contact is <u>closed</u>, **OFF** if the contact is <u>open</u>.

13-SAFETY DEVICES

SAFETY DEVICES

The product is fitted with the following safety devices

PRESSURE SWITCH

Monitors pressure in the smoke duct. It is designed to shut down the pellet feed screw in the event of an obstructed flue or significant back-pressure (from the wind).

SMOKE TEMPERATURE PROBE

Detects the temperature of the smoke, thereby enabling start-up or stopping the product when the temperature drops below the preset value.

CONTACT THERMOSTAT IN THE FUEL TANK

If the temperature exceeds the preset safety level, it immediately shuts down the running of the stove.

ELECTRICAL SAFETY

The stove is protected against violent changes in current by a general fuse located in the control panel at the back of the stove. Other fuses that protect the electronic boards are found on the latter.

SMOKE FAN

If the fan stops, the electronic board shuts off the supply of pellets in good time, and an alarm message is displayed.

GEAR MOTOR

If the reduction motor stops, the stove will continue to run until the flame goes out due to lack of fuel and until a minimum level of cooling is reached.

TEMPORARY POWER CUT

When a power cut is less than 10" the stove returns to its previous operating state; if it is more, it executes a cooling/re-ignition cycle.

FAILED START-UP

If during ignition no flame develops, the stove will go into alarm condition.



TAMPERING WITH THE SAFETY DEVICES IS PROHIBITED

If the product is NOT used as described in this instruction manual, the manufacturer declines all liability for any damage caused to persons and property. The manufacturer furthermore refuses to accept responsibility for damage to persons and property arising from the failure to observe all the rules contained in the manual and in particular:

- All the necessary measures and/or precautions must be adopted when performing maintenance, cleaning and repairs.
- Do not tamper with the safety devices.
- Do not remove the safety devices.
- Connect the product to an efficient smoke expulsion system.
- First, check that the environment where it is to be installed is properly ventilated.

Only after having eliminated the cause of the intervention of the safety system is it possible to relight the product and therefore restore the automatic operation of the probe. This manual will help you understand which anomaly has occurred, and explain how to intervene according to the alarm message displayed on the appliance.

ALARM SIGNALLING

When a condition occurs other than the one expected for regular operation of the stove, an alarm is triggered. The reason for the alarm is given on the control panel. The sound signal is not enabled for alarms A01-A02 in order not to disturb the user when there is an absence of pellets in the night tank.

Panel signalling	type of problem	Solution	
A01	The flame does not light	Check the level of pellets in the tank. Check that the brazier is correctly positioned in its seat and has no build-up or unburned material. Make sure the ignition plug warms up. Thoroughly empty and clean the brazier before restarting.	
A02	The fire goes out abnormally.	Check the level of pellets in the tank.	
A03 The required safety threshold.		Wait until the end of the cooling phase, stop the alarm and re-ignite the stove setting the supply of fuel to minimum (SETTINGS menu - pellet recipe). If the alarm persists, contact the service centre. Check whether the room fan is working correctly.	
A04	Smoke overtemperature	Reduce the load of pellets (SETTINGS menu - Pellet recipe); check cleaning of the brazier.	
	Smoke pressure switch intervention	Check for chimney obstructions / door open	
A05	Fuel loading hatch	Close the hatch. Lower the fuel level in the tank.	
Safety devices alarm	Open stove door	Close the door	
A08 Anomalous operation of smoke fan.		Delete the alarm and switch the stove on again. If the alarm persists, contact the service centre.	
A09	Fault with the smoke sensor.	Delete the alarm and switch the stove on again. If the alarm persists, contact the service centre.	
Service	Routine maintenance warning (does not seize)	When this blinking message appears upon start-up, it means it is time to carry out scheduled maintenance. Call the assistance centre.	

ALARM RESET

To reset the alarm, press and hold key 1 (ESC) for a few seconds. The stove checks whether the cause of the alarm is ongoing. In the first case, the alarm continues to be displayed, in the second case it turns OFF. If the alarm persists, contact a service centre.

NORMAL SHUTDOWN (on the panel: OFF with flashing flame symbol)

When the shutdown key is pressed, or when there is an alarm signal, the stove enters the thermal extinguishing phase which involves automatic execution of the following phases.

- Stop pellet loading
- · The room fan maintains the set speed until reaching the switch-off temperature
- The smoke extractor fan is activated at maximum speed and remains on for a fixed period of 10 minutes, at the end of which if the
 smoke T has dropped below the stop threshold, the fan stops, otherwise it will continue to operate at minimum speed until the
 temperature drops below the threshold.
- If the stove has been shutdown regularly but, due to thermal inertia, the smoke temperature exceeds the threshold again, the shutdown phase will be repeated at minimum speed until the temperature drops.

BLACKOUT WITH STOVE ON

In the event of a blackout, the stove does the following:

- Blackout of less than 10": continues the work in progress;
- After a loss of power of more than 10" which occurred when the stove was on, or during ignition, you can restore the stove to its
 previous operating condition when power returns as follows:
- 1. Cool the boiler by activating the smoke extractor at minimum speed for 10' then proceed to the next step;
- 2. Restore the stove to the operating condition prior to the blackout.

During phase 1, the panel shows ON BLACK OUT.

During phase 2, the panel shows Start-up.

If during phase 1 the stove receives manual user commands from the control panel, it stops the blackout restoration sequence and begins the start-up or shutdown commanded by the user.

BLACKOUT OF MORE THAN 10" DURING EXTINCTION OF STOVE

If the stove experiences a loss of power GREATER THAN 10" while it is shutting down, when power is restored to the stove, it will automatically turn on in shutdown mode, even if the smoke temperature has fallen below 45°C in the meantime. This phase can be skipped by pressing key 1 (esc) (skips to start-up) and pressing it again (recognises that the stove is off).

BLACKOUT OF MORE THAN 10" WITH THE STOVE OFF FROM ECOSTOP

Once power has been restored, a 5-minute timer is set as though the stove were in switch-off mode; should there be a request for heat in these 5 minutes, the stove will not start.

SAFETY DEVICES ALARM A05

The safety devices alarm includes the intervention of the smoke pressure switch, of the fuel loading hatch and of the open stove door. The alarm will be triggered after 30 seconds, after which the stove will stop working (e.g. after 30 seconds with the pellet loading hatch open, alarm A05 will be triggered).

ALARM A05 AND MINIMUM NEGATIVE PRESSURE INSIDE THE PELLET HOPPERS OF THE SEALED PRODUCTS

In the event that alarm A05 is triggered often, please note that:

AOF	Smoke pressure switch intervention	Check for chimney obstructions / door open
A05	Fuel loading hatch	Close the hatch.
		Lower the fuel level in the hopper.
Safety devices alarm	Open stove door	Close the door

you must check some points to verify the cause of the problem and possibly act on some adjustments and/or safety devices to restore the correct operation of the product.

However please note that all the adjustments and alterations affecting the operational safety devices, must only be performed if THE PRODUCT IS INSTALLED IN COMPLIANCE WITH THE STANDARDS AND LAWS IN FORCE AND IF IT IS SERVICED PROPERLY BY AUTHORISED AND SPECIALISED PERSONNEL. Alterations performed randomly, to ensure operation of the product even in the non-compliant conditions, can cause serious damage to property and injuries to people.



Attention!

The adjustments must only be carried out by authorised and qualified personnel under their responsibility and by checking the conformity of the installation beforehand. The manufacturer declines all liability for damage to property or injuries to people in the event of altering the safety devices.

All liability for improper use of the product is entirely borne by the user and relieves the Manufacturer from any civil and criminal liability.

Series of stoves equipped with a pressure switch installed on the hopper with the sampling point positioned on the bottom, to the right of the gear motor. This system protects the whole system ensuring tightness of the stove throughout its duration.

- It is important to understand that the pressure switch can intervene with each significant drop in negative pressure and may be due to: • The flue clogging.
- The presence of a foreign body in the flue (birds, nests, clogged grates, etc.).
- Wind coming through the flue because it is unprotected or the installation was wall-mounted or required no flue.
- Cold air draught down the flue.
- A damaged pressure switch.
- Blocked membrane inside the pressure switch because soot or pellet dust filtrated.
- The pellet hopper is open or ajar for more than 60 seconds (60 seconds is the estimated time to reload the hopper).
- Pellet trapped between the hopper cover and the hopper, which prevents the gasket to seal.
- Broken/worn hopper cover gasket.
- The gasket between the feed screw and the boiler is damaged or positioned incorrectly.
- Fire door is open or the gasket is worn.
- Clogged lateral smoke exchangers.
- Inspection caps with gaskets installed incorrectly after maintenance.
- Feed screw clogged by a compressed pellet at the top.
- The installation is compliant and the flue/smoke fitting does not generate obvious obstructions which can stop the release of smoke, such as: long horizontal sections (over 3 metres), uninsulated smoke ducts, "wall-mounted" smoke exhaust without proper terminals (installation regulated and permitted in France only [ZONE 3])
- Internal air extraction or recirculation systems (e.g. VMC systems) that generate internal negative pressure exceeding those required by law (not exceeding 4 Pa)
- Installed without combustion air ducting, it is crucial to check that there is an efficient air inlet dedicated to the stove, according to the specifications referred to in chapter 2 of this manual.

The electronic board has also been equipped with an automatic device with a timer and contactors which increases the RPM of the smoke extractor so as to restore the negative pressure inside the hopper and therefore the pressure switch, if the cover is opened for top-up or if there is an immediate or occasional pressure drop such as gusts of wind outside. If the pressure drop lasts for more than 60 seconds, the product is set in an alarm statue (A05 or A18)

Remembering that the draught recommended for the products to work properly is 10 Pa at maximum capacity and 5 Pa at minimum (according to the technical data sheet found in the user and maintenance manual), adjustments may be required in worse draught conditions (also due to the position of the flue in areas that are particularly subject to adverse weather such as prevailing winds, snow, northern exposure, etc.) so as to always guarantee the required negative pressure inside the hopper.

To compensate for the lack of internal negative pressure simply adjust the speed (RPM) of the smoke extractor so as to guarantee the minimum tabular values.

If the negative internal pressure values are noted to be lower than those indicated, this can also be due to the internal gaskets not being sealed properly or by the product being worn over time.

OPERATING INSTRUCTIONS ON NEGATIVE PRESSURE INSPECTIONS AND POSSIBLE VARIATIONS OF THE RPM

Connect a pressure gauge to the pressure outlet on the hopper:

- In the case of products with a specific pressure outlet in the hopper, access the sampling point and connect the pressure gauge
- In the case of products without a dedicated pressure outlet, disconnect the tube of the pressure switch from the pressure outlet on the hopper, add a "T" on the tube to intercept the circuit, connecting the gauge and reconnect the tube to the pressure outlet on the hopper.

Possible adjustments of the combustion and consequently of the negative pressure inside the hopper can be implemented in two ways:

A) Change the RPM value of the smoke extractor in the SETTINGS MENU

- The available values are from -3 to +3 which, as a percentage, correspond to:
- RPM: -10% +10% in Active System products
- RPM: -30% +50% in NON Active System products
- The percentage variation affects all the power values (1 to 5) proportionally and as a percentage. The percentage variation does not
 affect intermediate operating stages such as SWITCH ON, FIRE ON or SWITCH OFF
- As the RPM increase, suction also increases and consequently the internal negative pressure, thereby compensating the phenomena
 that trigger the alarm.

B) Adjusting the RPM of the gear motor manually in the TECHNICAL PARAMETERS MENU

- The pressure switch has a calibration of 10/20 Pa which means that it disarms when the negative pressure inside the hopper drops below 10 Pa and requires more than 20 Pa negative pressure inside the hopper for it to rearm
- The negative pressure value at the minimum power must always be higher than 10 Pa while also maintaining a reasonable margin that can be used over time due to the gaskets being worn or something similar (at least 12/13 Pa)
- The negative pressure at maximum power must always be above 20 so that the pressure switch can rearm when the pressure switch rearming automated device is activated. The pressure switch rearming procedure (such as after opening the cover to top-up the hopper), requires the electronics to push the RPM of the smoke extraction fan up to POWER 5 (P5) for a few moments. At P5, therefore, the negative pressure inside the hopper must always be > 20 Pa (recommended 22/23 Pa to preserve the margin).
- N.B. = The TECHNICAL PARAMETERS menus are password-protected to prevent the user from accessing them inadvertently



Attention! The factory setting on the product is designed to obtain the certified technical data. In the event of data discrepancy (as for the pellet recipe), the settings may be modified as set out above. The adjustments must only be carried out by authorised and qualified personnel under their responsibility and by checkina the conformity of the installation beforehand.

NEGATIVE PRESSURE INSIDE THE HOPPER WITH FACTORY-SET PARAMETERS AND A DRAUGHT OF 5 Pa (MINIMUM RECOMMENDED)

POWER	P1	P2	P3	P4	P5	VALUES
C LAM	13.7/14.2 Pa	15.1/15.6 Pa	17.1/17.5 Pa	19.1/19.5 Pa	22.0/22.2 Pa	Draught
6 kW	95°C	110°C	125°C	141°C	165°C	Smoke temperature
8 kW	13.8/14.3 Pa	15.6/16.1 Pa	17.8/18.0 Pa	21.7/22.2 Pa	26.1/26.6 Pa	Draught
0 K V V	104°C	119°C	145°C	148°C	184°C	Smoke temperature
10 kW	15.9/16.3 Pa	20.4/20.9 Pa	25.8/26.3 Pa	31.8/32.3 Pa	36.5/37.0 Pa	Draught
TU KW	108°C	°C	150°C	°C	230°C	Smoke temperature
12 kW	16.5/17.3 Pa	20.4/20.9 Pa	25.8/26.3 Pa	31.8/32.3 Pa	36.5/37.1 Pa	Draught
12 KVV	118°C	127°C	155℃	172°C	195°C	Smoke temperature
14 kW	17.6/18.0 Pa	19.8/20.4 Pa	23.1/23.7 Pa	28.9/29.6 Pa	37.8/38.2 Pa	Draught
14 KVV	118°C	131°C	161°C	187°C	210°C	Smoke temperature

PLEASE NOTE The indicated negative pressure readings may differ by $\pm 1Pa$ based on flue gas temperature. Likewise, flue gas temperature may differ by $\pm 10^{\circ}$ C based on fuel quality or appliance cleanliness.

15-RECOMMENDATIONS FOR SAFE USE



ONLY CORRECT INSTALLATION AND APPROPRIATE MAINTENANCE AND CLEANING OF THE APPLIANCE CAN GUARANTEE CORRECT OPERATION AND SAFE USE OF THE PRODUCT.

We would like to inform you that we are aware of cases of malfunctioning of domestic pellet-fuelled heating products, mainly due to incorrect installation and use, as well as inadequate maintenance.

We would like to assure you that all of our products are extremely safe and certified according to European standards of reference. The ignition system has been tested with the utmost attention to enhance ignition efficiency and to prevent any type of problem, even in the worst operating conditions. In any case, like for any other pellet-fuelled product, our appliances must be installed correctly and undergo regular periodical cleaning and maintenance to guarantee safe operation. Our studies show us that malfunctioning is mainly due to the combination of part or all of the following factors:

- Brazier holes obstructed or brazier deformed, due to lack of maintenance and conditions which can cause delayed ignitions, generating an anomalous production of unburned gases.
- Insufficient combustion air due to a reduced or clogged air inlet duct.
- Use of smoke ducts nonconforming to regulatory installation requirements, failing to guarantee an adequate draught.
- Partially clogged chimney, due to lack of maintenance, reducing the draught and making ignition difficult.
- End chimneypot nonconforming to the indications of the instruction manual, and therefore not suitable to prevent potential inverse
 draught.
- This factor is crucial when the product is installed in especially windy areas, such as coastal regions.
- The combination of one or more of these factors could generate important malfunctioning conditions.

To keep this from occurring, it is fundamental to guarantee that the product is installed in compliance with standards in force. Furthermore it is of the utmost importance to respect the following simple rules:

- Every time the brazier is removed for cleaning, it must always be put back properly in the work position before using the product, completely removing any residual filth left on the support base.
- Pellets must never be loaded in the brazier manually, either before ignition or during operation.
- The accumulation of unburned pellets ensuing a failed ignition must be removed before repeating ignition. Also check that they are fed correctly and that the combustion air inlet/smoke outlet are regular.
- If ignition fails repeatedly, immediately suspend use of the product and contact a qualified technician to check its operation.

Compliance with these indications is absolutely sufficient to guarantee proper operation and to avoid any type of problems with the product.

If the above-mentioned precautions are not taken, and during ignition the brazier is overloaded with pellets thus generating anomalous smoke in the combustion chamber, carefully follow the indications below:

- Do not disconnect electrical power to the product for any reason whatsoever: this would stop the smoke extractor, releasing smoke into the environment.
- Take the precaution of opening the windows to ventilate the installation room from any smoke in the environment (the chimney
 might not work properly).
- Do not open the fire door: this would compromise regular operation of the smoke extraction system to the chimney.
- Just switch the stove off by acting on the on-off button on the control panel (not the rear power supply socket button!) and move away until smoke has completely evacuated.
- Before attempting re-ignition, clean the brazier and its air passage holes completely of all deposits and unburned pellets. Put the brazier back in place, removing any residue from its support base. If ignition fails repeatedly, immediately suspend use of the product and contact a qualified technician to check its operation and the chimney.





EXAMPLE OF A CLEAN BRAZIER

CAUTION!

EXAMPLE OF A DIRTY BRAZIER

Only by properly servicing and cleaning the product is it possible to ensure its safety and correct operation.



All the cleaning operations of all parts must be performed with the product completely cold and the plug disconnected.

Disconnect the product from the 230V power supply before performing any maintenance operation.

The product requires little maintenance if used with certified good quality pellets.

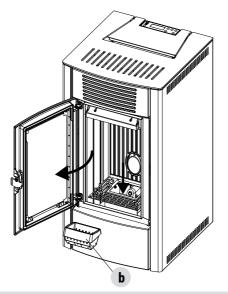
DAILY OR WEEKLY CLEANING PERFORMED BY THE USER

Brazier cleaning

Before ignition, always clean the brazier "**b**" and remove any ash or incrustation from it that might obstruct the air flow holes, paying attention to hot ash. In the case of ignition failure, or if fuel in the tank runs out, unburned pellets may accumulate in the brazier. Always empty the residue in the brazier before each start-up. **You may only use a vacuum cleaner to remove ash when it is completely cold**. In this case, use a suitable vacuum cleaner to remove small sized particles.



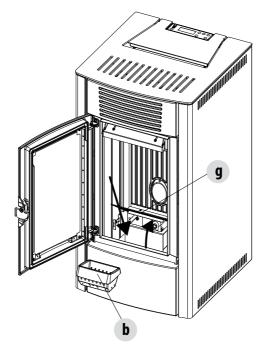
REMEMBER THAT ONLY A CORRECTLY POSITIONED AND CLEAN BRAZIER CAN GUARANTEE IGNITION AND OPTIMAL OPERATION OF YOUR PELLET PRODUCT. IN CASE OF FAILED IGNITION AND AFTER ANY OTHER LOCK STATE OF THE PRODUCT, IT IS ESSENTIAL TO EMPTY THE BRAZIER BEFORE EVERY RESTART.



For the brazier to be cleaned properly, remove it from its housing completely and thoroughly clean all the holes and the grate on the bottom. If good quality pellets are used, you will normally only need to use a brush to restore the optimal operating conditions of the component.

Cleaning the ash box

To clean the ash box, lift the grid "g" simply by turning it until it rests against the stove firebox. Wipe away any residual ash before lowering the grid "g". The quality of the pellets used and user experience will determine the cleaning frequency required. **However, it is** recommended not to exceed 2 or 3 days.



CLEANING THE GLASS

It is recommended to clean the ceramic glass with a dry brush, or if it is very dirty, spray a little specific detergent and clean with a cloth.



CAUTION!

Do not use abrasive products and do not spray the glass cleaning product on the painted parts and on the door gaskets (ceramic fibre cord).

CLEANING THE STOVE CLADDING

Below are a few indications to clean the metal cladding of the stove:

- use only water, if necessary with the addition of neutral detergents (pH7) and characterised by light additives.
- use only water on a cloth. There are electrical parts that could be damaged.
- use soft, non-abrasive cloths. Do not rub the surfaces.
- do not use solvents, abrasive or scratching agents. Do not use prepared compounds for cleaning paints as they could be aggressive.

PERIODIC CLEANING PERFORMED BY A QUALIFIED TECHNICIAN CLEANING THE HEAT EXCHANGER

Half-way through the winter season, **but especially at the end**, the compartment through which the exhaust smoke passes will need to be cleaned. This cleaning process is mandatory in order to facilitate the general removal of all combustion residues, before it becomes very difficult to remove it due to the humidity compacting it over time.

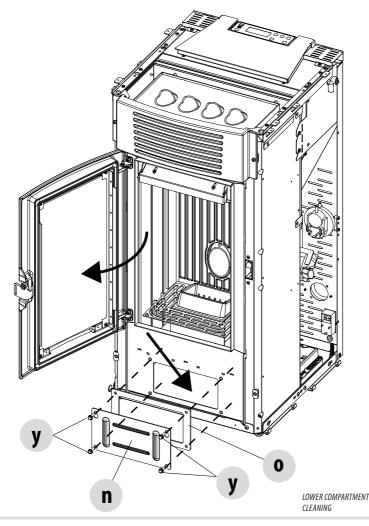


ATTENTION: It is obligatory to have an authorised and skilled technician perform the periodic end-of-season cleaning in order to replace any worn gaskets.

CLEANING THE LOWER COMPARTMENT

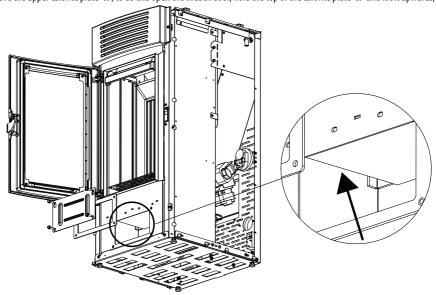
To clean the bottom ash compartment, it is necessary to remove the bottom panel, as described in Chapter 5. Now remove the four screws "y" by removing the plate "n" and gasket "o"; using the nozzle of a vacuum cleaner, remove any ash and soot that may have built up in the lower exchanger indicated by the arrow.

Before putting the cap "n" back, it is recommended to change the gasket "o".

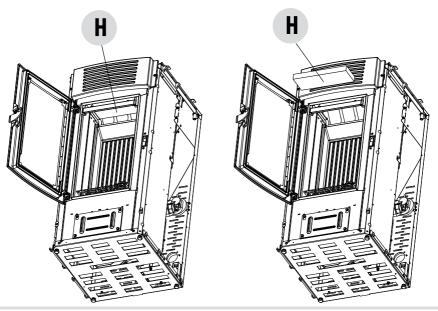


CLEANING THE EXCHANGER CLEANING THE UPPER COMPARTMENT

Clean the upper exchanger when the stove is cold. After removing the cap to clean the lower compartment "**n**" (see previous paragraph), use a stiff rod or a bottle brush to scrape the walls of the firebox (see arrow) to make the ash fall into the lower compartment. Then remove the upper calorite plate "**H**", to do this open the firebox door, hold the top of the calorite plate "**H**" and lift it upwards, tilt it to



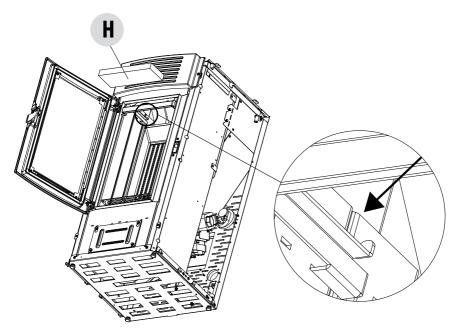
the right or to the left in order to release it from the supports and remove it. Use a stiff rod or a bottle brush to scrape the walls of the firebox (see arrow - respectively to the right and to the left of the firebox) to make



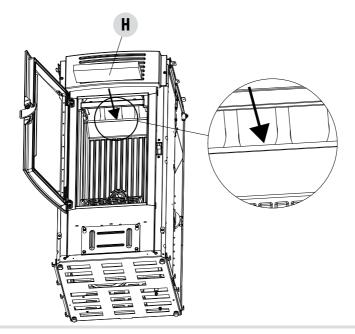
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the ash fall into the lower compartment.

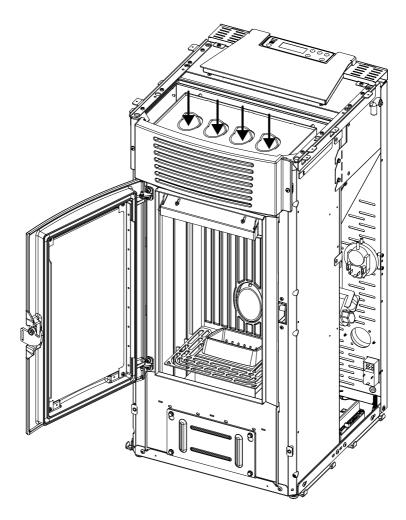
Using the nozzle of a vacuum cleaner, remove any ash and dust that may have built up on the exchanger (see arrow).



Even in the upper part, under the cover (top), use the nozzle of a vacuum cleaner to remove any dust that may have built up.



Then also thoroughly clean the lower exchanger, changing the gaskets, before remounting everything.



CLEANING THE SMOKE DUCT AND GENERAL CHECKS

Clean the smoke extractor system, especially around the "T" joints, elbows and any horizontal sections of the smoke duct. For information on periodically cleaning the flue, contact a skilled chimney sweep.

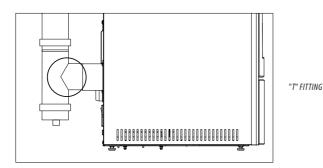
Check the seal of the ceramic fibre gaskets on the door of the stove. If necessary, order new replacement gaskets from the retailer or contact an authorised service centre to carry out the operation.



ATTENTION:

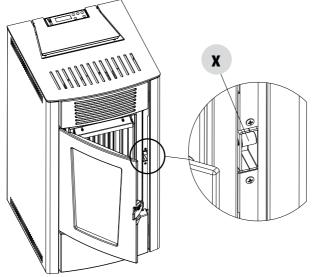
The frequency with which the smoke outlet system is cleaned depends on the use of the boiler and the type of installation.

We recommend relying on an authorised service centre for end-of-season cleaning and maintenance, as they will carry out all of the previously mentioned work and inspect the stove components.



PERIODICAL CHECK OF THE DOOR CLOSURE

Make sure the door closure ensures a correct sealing action (with the "paper sheet" test) and that when the door is closed, the closing block (X in the figure) does not protrude from the sheet metal to which it is secured. For some products it will be necessary to disassemble the cladding to be able to assess the anomalous protrusion of the block when the door is closed.



END-OF-SEASON SHUTDOWN

At the end of each season, before switching the product off, it is recommended to remove all the pellets from the tank with a vacuum cleaner with a long pipe.

We recommend removing the unused pellet from the tank because it can retain humidity. Disconnect any combustion air ducting that can lead humidity inside the combustion chamber but, above all, ask the specialised technician to refresh the paint inside the combustion chamber with the special silicone spray paints (available at any store or CAT) during the necessary annual end of season scheduled maintenance operations. In this way the paint will protect the inner parts of the combustion chamber, blocking any type of oxidative process.

When not in use the appliance must be disconnected from the mains power supply. It is recommended to remove the power cable for additional safety, especially in the presence of children.



The service fuse may have to be replaced if the control panel display does not switch on when the product is switched on again by pressing the main switch on its side.

There is a fusebox on the side of the product, near the power socket. Open the fusebox cover with a screwdriver and replace the fuses if necessary (5x20 mm T delayed /3.15 A 250V) - seek assistance from an authorised and qualified technician.

CHECKING THE INTERNAL COMPONENTS



CAUTION!

The internal electromechanical components must only be checked by qualified personnel whose technical expertise includes combustion and electricity.

We recommend that an annual maintenance service is carried out (with a scheduled service contract). This service is essentially a visual and functional inspection of the internal components. The following is a summary of the checks and/or maintenance that are essential for the correct operation of the product.

PARTS/INTERVAL	1 DAY	2-3 DAYS	30 DAYS	1 YEAR
Brazier	•			
Ash box		•		
Glass		•		
Lower exchanger				•
Complete exchanger				•
Smoke duct			•	
Door gasket				•
Door closure operation				•

17-FAULTS/CAUSES/SOLUTIONS



ATTENTION:

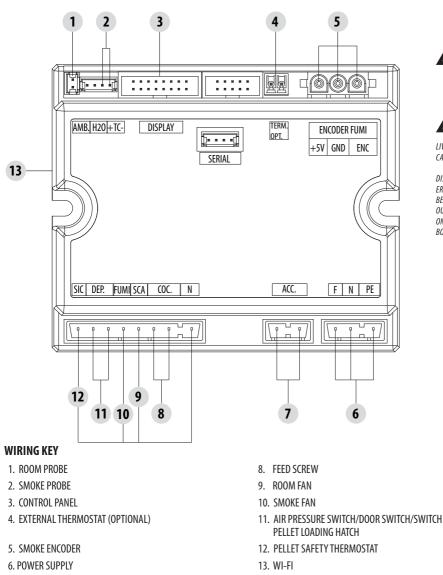
All repairs must only be carried out by a specialised technician, with the product switched off and the plug disconnected.

ANOMALY	POSSIBLE CAUSES	SOLUTIONS	
The pellets are not fed into	The pellet hopper is empty	Fill the hopper with pellets.	
the combustion chamber.	Sawdust has blocked the feed screw	Empty the hopper and remove the sawdust from the feed screw by hand.	
	Faulty gear motor	Replace the gear motor.	
	Faulty electronic board	Replace the circuit board.	
The fire goes out or the	The pellet hopper is empty	Fill the hopper with pellets.	
boiler stops automatically.	The pellets are not fed See the previous anomaly.		
	The pellet temperature safety probe has been triggered	Let the product cool down, restore the thermostat until the lockout is off and switch the product back on. If the problem persists, contact Technical Assistance.	
	The door is not closed properly or the gaskets are worn	Close the door and replace the gaskets with original ones.	
	Unsuitable pellets	Change the type of pellets with those recommended by the manufacturer.	
	Low pellet supply	Check the flow of fuel following the instructions in the manual.	
	The combustion chamber is dirty	Clean the combustion chamber, following the instructions in the manual.	
	Clogged outlet	Clean the smoke duct.	
	Faulty smoke extraction motor	Check the motor and replace it, if necessary.	
	Pressure switch broken or defective.	Replace the pressure switch.	
The product works for a few	Start-up phase is not completed	Repeat start-up.	
minutes and then switches off.	Temporary power cut	Wait for the automatic restart.	
	Clogged smoke duct	Clean the smoke duct.	
	Faulty or malfunctioning temperature probes	Check and replace the probes.	
	Faulty spark plug	Check the spark plug and replace it, if necessary.	
Pellets accumulate in the brazier, the glass of the door gets dirty and the flame is weak.	Insufficient combustion air.	Clean the brazier and check that all the holes are clear. Perform a general cleaning of the combustion chamber and the smoke duct. Check that the entry of air is not obstructed.	
	Damp or unsuitable pellets.	Change the type of pellets.	
	Faulty smoke evacuation motor.	Check the motor and replace it, if necessary.	

17-FAULTS/CAUSES/SOLUTIONS

ANOMALY	POSSIBLE CAUSES	SOLUTIONS
The smoke evacuation motor does not work.	No electrical supply to the stove.	Check the mains voltage and the protection fuse (T1.25A - 250V).
	The motor is faulty.	Check the motor and capacitor and replace them, if necessary.
	Defective motherboard.	Replace the electronic board.
	The control panel is broken.	Replace the control panel.
The convection air fan never stops.	Faulty or malfunctioning temperature control probe.	Check the probe and replace it, if necessary.
In the automatic position, the stove always runs at full power.	Thermostat is set to minimum.	Reset the temperature of the thermostat.
	The room thermostat is in the maximum position.	Reset the temperature of the thermostat.
	Malfunctioning temperature probe.	Check the probe and replace it if necessary.
	Faulty or malfunctioning control panel.	Check the panel and replace it, if necessary.
The product does not start.	No power supply.	Check that the plug is inserted and the main switch is in the "I" position.
	Pellet sensor has seized up.	Check the recipe parameters.
	Blown fuse.	Replace the fuse.
	Pressure switch broken (lockout indicated).	Insufficient pressure of water in stove.
	Clogged smoke outlet or smoke duct.	Clean the smoke exhaust and/or the smoke duct.
Noisy air fan even though it is set to minimum	High set flame causes ventilation increase	Lower set flame from Adjustments menu
No increase in temperature with stove in operation.	Incorrect combustion adjustment.	Check recipe.
	Set flame 1 setting (level too low)	Increase power from the settings menu.
	Poor pellet quality.	Using pellets from the producer.

18-CIRCUIT BOARD







LIVE ELECTRICAL CABLES

DISCONNECT THE POW-ER SUPPLY CABLE 230V BEFORE CARRYING OUT ANY OPERATIONS ON THE ELECTRICAL BOARDS

7. GLOW PLUG

PLEASE NOTE The electrical wiring of individual components is fitted with pre-wired connectors of different sizes.



Via La Croce n°8 33074 Vigonovo di Fontanafredda (PN) – ITALY Telephone: 0434/997200 Internet: www.red365.it e-mail: info@red365.it