

EN - Installation, use and maintenance manual - WOOD

UNICA 10 V/C

nobis
YOUR STOVE, OUR PASSION





WARNING: THE FIRST SECTION OF THE EXHAUST PIPE MUST WITHSTAND TEMPERATURES WHICH CAN EASILY REACH EVEN MORE THAN 600°C.

THE FLUE DEPRESSION MUST MEET THE MINIMUM VALUE OF 12PA WHEN COLD. THIS ALSO APPLIES FOR PELLET BURNING MODE, NOT JUST FOR WOOD BURNING.

INSTALLATION OPERATIONS MUST COMPLY WITH THE PROVISIONS AS DEFINED IN UNI 10683 (ITALY).



WARNING



BURN HAZARD

SURFACES CAN BECOME **EXTREMELY HOT** - ALWAYS OBSERVE DUE PRECAUTIONS AND WEAR SUITABLE PROTECTIONS

Dear Customer. Thank you for choosing a product from our range.

You are invited to read this manual carefully before using it, to take full advantage of all its features in full safety.

This manual contains information necessary for correct installation, start-up, use, cleaning and maintenance of the product.

Keep this manual in an appropriate place after reading it.

Improper installation, maintenance and use of the product relieve the manufacturer of any liability towards people or property.

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1 INTRODUCTION

The product by Nobis was designed and manufactured in compliance with the reference standards for the manufacturing products (EN13240 wood stoves, EN14785 pellet appliances, EN13229 fireplaces/inserts for wood, EN12815 wood stoves), with high quality materials. The products also comply with the essential requirements of the Directive 2014/35/EU (Low Voltage) and the Directive 2014/30/EU (Electromagnetic Compatibility).

The printing, translation and reproduction, even partial, of this manual is intended as binding by the manufacturer's authorisation and the content of working logic and explanatory figures is considered not to be disclosed.

Always consult the authorised technicians if in doubt and/or confused by operation of the product.


The manufacturer reserves the right to make changes to specifications and technical and/or working features of the product at any time without prior warning.

1.1 SYMBOLS

In the following manual contains symbols which highlight the importance of particular descriptions or concepts;

 **INFORMATION:** Compliance with the specifications guarantees correct operation of the product.

 **ATTENTION:** Symbol used to identify particularly important information

 **DANGER:** The presence of this symbol indicates utmost attention is required, to guarantee user and product safety.

1.2 INTENDED USE

The product in this manual, is a fireplace for domestic heating, fed by automatic loading and exclusively with wood pellets.

The product was designed and manufactured to work in safety if the following conditions occur:

- installation by specialist staff according to the specific reference standards;
- use within the limits declared on the product data sheet and in this manual;
- compliance with technical procedures described in the manual;
- carrying out routine maintenance within the times and methods indicated in this manual;
- prompt execution of extraordinary maintenance if necessary (malfunctioning);

- activity and maintenance of safety devices (do not remove or bypass these devices).

1.3 IMPROPER USE

The product must be intended for the use for which it was expressly designed; for any other use, the manufacturer cannot be held in any way liable for damage caused to people, animals or property.

Improper use is intended as:

- use of the product as an incinerator;
- use of the product with fuel other than wood pellets with a diameter of 6 mm;
- use of the product with liquid fuel;
- use of the product with the fire door open and/or glass broken and/or ash pan removed and/or pellet tank open.

Any other use of the appliance other than that planned must be authorised in advance in writing by the manufacturer.

Furthermore, the manufacturer cannot be held in any way liable for errors in installation, adjustment or maintenance of the product.

1.4 IMPORTANCE OF THE MANUAL

This manual has the purpose of providing essential rules for correct installation, use and maintenance of the product.

PRESERVATION: Keep the manual in a place that is easy and quick to find;

DETERIORATION OR LOSS: Consult the official site to download the manual;

PRODUCT TRANSFER: In the event of sale between private individuals of the product, the owner is obliged to deliver the product with the following manual.

1.5 GENERAL SAFETY WARNINGS

Non-compliance with the provisions of this manual can cause damage to people, animals and property.

- Installation, testing of the system, functionality testing and initial calibration of the product must only be carried out by qualified and authorised staff.
- The product must be connected to a single chimney flue that guarantees the draught declared by the manufacturer and which complies with the installation standards outlined in the assembly location of the product.
- The premises where the product is installed must be adequately ventilated (air intake).
- Do not touch the hot surfaces without adequate protective equipment, to avoid burns.
- When in operation, the external surfaces reach

high temperatures.

- It is forbidden to make changes to the product unless expressly communicated in writing by the manufacturer.



In the event of fire in the chimney flue, contact the Fire Brigade immediately.

- The product can be used by children over 8 years of age and people with reduced physical, sensor or mental capacity, or without experience or the necessary know-how, provided they are supervised, or have received instructions on the safe use of the appliance and have understood the dangers involved. Children must not play with the appliance.
- Cleaning and maintenance intended to be carried out by the user must not be carried out by children without supervision.



Do not dry the laundry on the the product. Fire hazard.

- Fuel and flammable materials must be kept at necessary distance from the product. **Fire hazard.**
- The product must be electrically connected to a system equipped with a sufficient ground system.
- In the event of a fault on the switch on system, do not force switch on using flammable materials and consult an authorised technician.
- For the no hermetic product, installation is forbidden in small rooms and bedrooms.
- Installation is forbidden in surroundings with explosive atmospheres.

- all parts resulting as being faulty due to negligence or careless use, wrong maintenance, non-conforming installation with that specified by the manufacturer (refer to the installation and use manual supplied with the appliance);
- further damage caused by wrong intervention by the user in an attempt to solve the initial fault;
- aggravated damage caused by further use of the appliance by the user once the defect was noted;
- in the presence of a boiler, any corrosion, scale or breakages caused by stray current, condensate, abrasion or acidity in the water, scale removal treatments carried out improperly, no water, sludge or limescale deposits;
- inefficiency of the chimneys, chimney flues or parts of the system on which the appliance depends;
- damage caused by tampering with the appliance, atmospheric agents, natural disasters, vandalism, electrical discharge, fire, faulty electrical and/or plumbing system.

The following are also excluded from the warranty:

- parts subject to normal wear such as gaskets, glass, coverings and grates in cast iron, painted, chrome-plated or gold-plated parts, handles and electrical cables, lights, switch on resistor, indicator lights, knobs, all parts that can be removed from the fireplace (e.g. refractory, brazier);
- colour variations of painted and ceramic parts, as well as the ceramic cracks since they are natural features of the material and use of the product;
- masonry works;
- parts of the system (if present) not supplied by the manufacturer;
- Any technical intervention on the product to eliminate the aforementioned defects or resulting damage should therefore be agreed with the Technical Support Centre, which reserves the right to access or refuse the relevant job and in any case they will not be carried out under warranty, but rather Technical Support will provide the possible conditions to specifically agree upon and according to rates in force for the works to carry out.
- The user will also be responsible for the expenses which will be necessary to resolve any wrong technical intervention, tampering or however damaging factors for the appliance not attributable to the original defects.
- Notwithstanding the restrictions imposed by legislation and regulations, every warranty to contain atmospheric and acoustic pollution is also excluded.

1.6 LEGAL WARRANTY

The user, to benefit from the legal warranty, must strictly comply with the provisions indicated in this manual. In particular:

- always work within the use limitations of the product;
- always carry out routine maintenance;
- authorise people to use the machine with proven capacity, attitudes and who are adequately trained for the purpose;
- use original spare parts and specifically for the appliance model.

It is also necessary to provide a:

- fiscal receipt with the purchase date;
- a certificate of compliance issued for installation by authorised staff.

Non-compliance with the provisions contained in this manual will imply immediate expiry of the warranty on the product and on any spare parts assembled later.

1.7 EXCLUSIONS FROM THE WARRANTY

The warranty excludes all malfunctions and/or damage to the appliance resulting from the following causes:

- damage caused by transport and/or movement;

1.8 SPARE PARTS

Only use original spare parts.

Do not wait for the components to wear from use before replacing them.

This measure promotes prevention of accidents

caused by people, animals or property in the event of product malfunctioning caused by faults. You are advised to contact authorised staff to replace spare parts, worn parts and for extraordinary maintenance of the the product.

1.9 IDENTIFICATION PLATE

The plate placed on the back of the product outlines all the characteristic data of the appliance, including the manufacturer's data, the serial number and the CE marking.

1.10 PRODUCT DISPOSAL

Demolition and disposal of the product is the exclusive responsibility of the owner, who should do so in compliance with legislation in force in his country on safety matters, with respect of and safeguarding the environment.

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

It can be delivered to specific differentiated waste collection centres made available by municipal administrations, or dealers who provide this service.

Disposal of the product as differentiated waste means possible negative consequences for the environment and health are avoided, deriving from inadequate disposal. Furthermore, it allows recovery of materials composing the product to obtain important savings in energy and resources.

1.11 HERMETIC PRODUCT

The products manufactured with a perfectly hermetic structure do not consume oxygen in the environment, since they take all the air from outside the home (if correctly installed) and can therefore be positioned inside all homes with a high level of insulation, such as "passive houses" or "with high energy efficiency". Thanks to this technology, there is no risk of smoke emissions in the environment and no ventilation grates are necessary.

As a result, no cold air flows are created in the environment making it less comfortable and reducing the overall efficiency of the system. Hermetic products can also be installed in the presence of forced ventilation or in premises which can go into negative pressure compared to outside.

2 WOOD RECOMMENDED FEATURES



For its products, the Manufacturer recommends using class A1+ or A1 certified fuel, according to UNI EN ISO 17225-5:2014.

The dimensions of the combustion chamber are as follows:

width 34cm.

height 32cm.

depth 26cm.

Refer to the abovementioned dimensions to purchase pre-sized wood logs.

In any case, it is recommended to buy logs of 20-25 cm. It is best to use durable types of wood, such as beech, oak or elm. Avoid very aromatic types of wood or those rich in resin (myrtaceae, eucalyptus, pine, fir) which can damage the product, even seriously.

- Recommended fuel: BEECH;
- calorific value: approximately 4.6 kWh/kg;
- ideal humidity level: from 15% to 20%;
- length of the logs: 20-25 cm.



Wood should be stored in a dry and not excessively cold environment. It is also advisable to keep a quantity of wood sufficient for 2/3 days of operation in the room where the product is installed, so as to allow any moisture in it to dry out. Neglecting this aspect will reduce the thermal potential of the fuel and will require more maintenance of the product.

Be careful when using pressed logs, as they have a high heating value: this results in the danger of overheating the device, thus affecting its operation.

Prohibited fuels

It is recommended not to use the following fuels, as they could jeopardize both your health and the environment, in addition to **invalidate the product warranty**:

- very damp wood;
- treated wood (chipboard, lacquered, varnished, or glued, wood etc.);
- treated paper and cardboard (painted, oiled, impregnated paper towels, etc.);
- wood processing residues such as shavings and/or sawdust;
- liquid fuels;
- coal and other fossil derivatives;
- rubbish, plastics and/or anything that generally releases toxic and polluting substances during its combustion;
- fruit pits, pomace, corn, shells, mixtures of the above with wood pellets, pellets NOT produced with sawdust only.

3 INSTALLATION



All local and national legislation and European standards must be met when installing and using the the product.

The assembly position must be chosen based on the environment, the discharge and the chimney flue. Check, with your local authority, if there are more restrictive provisions regarding the oxidising air intake, the smoke discharge system including the chimney flue and chimney pot.



The manufacturer cannot be held in any way liable in the event of installation non-compliant with legislation in force, of incorrect premises air exchange or electrical connection non-conforming with standards and/or inappropriate use of the appliance.

Installation must be carried out by a qualified technician, who will issue the purchaser with a Declaration of Conformity for the system and will assume complete responsibility for final installation and resulting good operation of the product.

In particular, he should ascertain:

- there is an adequate oxidising air intake and good smoke discharge compliant with the type of product installed;
- other stoves or devices installed do not cause negative pressure in the room where the product is installed (only for hermetic appliances, a maximum of 15 Pa depression in the surroundings is permitted);
- when the product is on, there is no smoke back draught in the surroundings;
- smoke evacuation is implemented in total safety (dimensioning, smoke seal, distances from flammable materials..).

Once the position is decided where to install the product, you need to pay attention:

- if the floor is made of combustible material, you should use protection in suitable material (steel, glass...) which also protects the front part from any falling burning fuel during cleaning operations;
- that the floor guarantees adequate load capacity if the existing building does not meet this requirement, you should take appropriate measures (for example a load distribution plate).

3.1 AIR INTAKE

|| The installation premises of non-hermetic appliances must be sufficiently ventilated with specific openings, with particular attention on the position (they must NEVER be blocked), which consent air reintegration in the environment.

The air must be taken directly from outside (not from other rooms, garage, etc.) and must have a net useful section equal or higher than 80 cm² pellet burning stoves and thermostoves (EN 14785) and 100 cm² for boilers (EN 303-5).

The air intake is not necessary for installation of the hermetic appliances that take air directly from outside. Check and comply with the ventilation requirements for simultaneous operations with other combustion devices and in the presence of forced ventilation systems or hoods (refer to

section 6.4 of UNI 10683).

3.2 SMOKE CHANNEL AND FITTINGS

The term smoke channel indicates the piping connecting the appliance to combustion with the chimney flue.

For heat generating appliances with an electric fan to expel the smoke, the following installation instructions must be followed, provided by the manufacturer concerning the maximum length and number of curves the smoke channels can have. If no indications are given for maximum values or deriving from preliminary calculations according to UNI EN 13384-1, the following provisions must be applied:

- comply with the product standard EN1856-2;
- the horizontal sections must have a minimum slope of 3% upwards;
- the length of the horizontal section must be minimal and its projection on plan must not exceed 2 metres;
- the number of changes of direction including introduction in the chimney flue must not exceed 2;
- the changes of direction must not have an angle over 90° (45° curve recommended);
- the section must have a constant diameter equal to the output of the fireplace up to the fitting in the chimney flue;
- it is forbidden to use flexible metal and fibre cement piping, furthermore the piping must guarantee pressurised sealing;
- the smoke channels must not cross premises in which installation is forbidden of combustion appliances;
- Use watertight piping with silicone gaskets.

In any case, the smoke channels must be sealed by combustion and condensate products, as well as insulated if passing inside the installation premises.

Assembly is not permitted of draught manual adjustment devices on forced draught appliances.



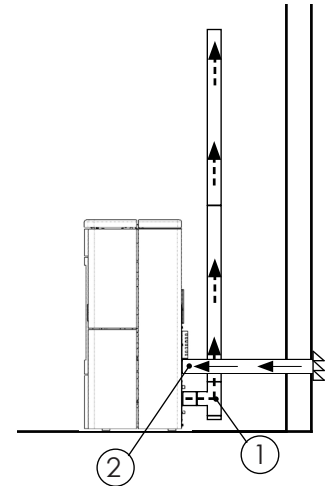
You need to install a first vertical smoke channel section of at least 1 metre to guarantee correct smoke ejection.

3.3 CHIMNEY FLUE

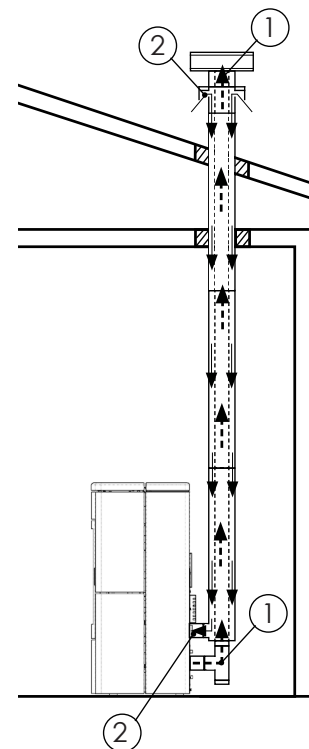
When installing the chimney flue, the following provisions must be applied.

- comply with the product standard EN 1856-1;
- it must be installed using materials suitable to guarantee resistance to normal mechanical and chemical stress, and have a correct insulation, to avoid the formation of condensate, therefore it must be hermetically insulated;
- have a mainly vertical state and not be choked along its length;

- be correctly spaced using air cavities and insulated from flammable materials,
- the changes in direction must be at most 2 and with an angle not exceeding 45°;
- the chimney flue inside the home must, however, be insulated and can be inserted in a cavity provided it complies with the relevant piping standards;
- the smoke channel should be connected to the chimney flue using a "T" joint with an inspectable collection chamber for collection of fuel residue and, in particular, for condensate collection.



- smoke discharge (1) and oxidising air channelling (2) taking advantage of its coaxial discharge to expel the smoke and pick the air; therefore, installation is not necessary of a grate to recirculate the air inside the premises where the the product.



! It is not possible to connect the appliance to a chimney flue shared with other combustion appliances or in the presence of hood exhausts.

! It is forbidden to use direct wall discharge or towards closed spaces or any other form of discharge not planned by legislation in force in the country of installation (In Italy, only roof discharge is permitted)

! You are advised to check the safe distances which must be complied with in the presence of combustible materials and the type of insulating material to use (data available directly on the chimney flue plate).

3.4 CHIMNEY STACK

The standard UNI 10683 states the stack must meet the following features:

- the smoke outlet section must be at least double the inner section of the chimney;
- shaped to prevent water or snow penetration;
- be built in such a way that wind cannot affect the smoke outlet (wind-proof cap);
- the opening measurement, which is measured between the lower coverage protective layer and the lower point of the smoke outlet section into the atmosphere, must be outside the back draught area;
- be built far from antennas or satellite dishes and must never be used as a support.

3.5 HERMETIC PRODUCT

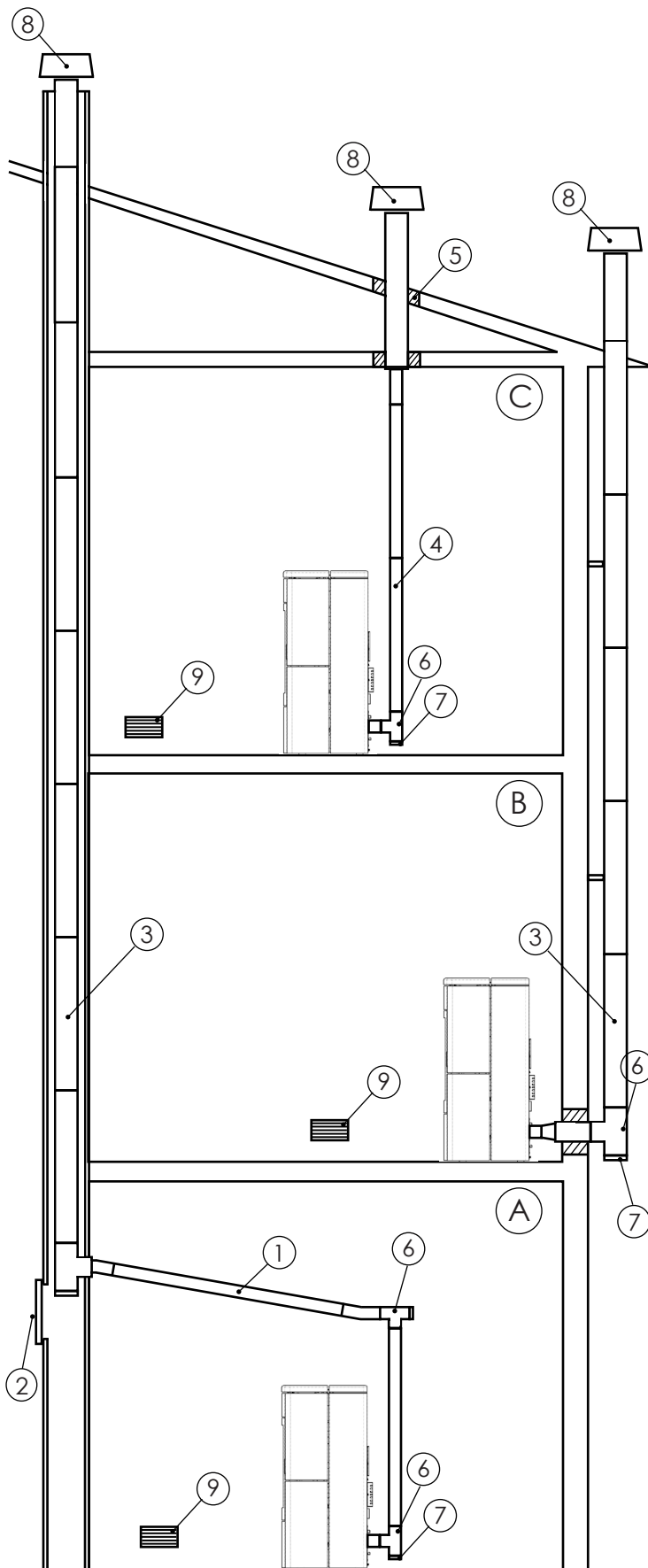
In the event of installation of a hermetic product, you can execute one of the following types of connection with the piping:

- smoke discharge (1) and recovery of oxidising air directly from outside (2)



For coaxial installation or air sampling directly from the outside, it is recommended not to exceed 2.5/3 linear meters in order to ensure correct oxygen supply to combustion.

3.6 EXAMPLES OF PROPER INSTALLATION



Always refer to the UNI 10683 standard when having the product installed by a qualified professional. The installation technician has the obligation to issue the CERTIFICATE OF CONFORMITY OF INSTALLATION for the whole Italian territory. In example (A) a horizontal section is needed to connect to an existing flue pipe. Respect the slope of 3-5% upwards, in order to reduce ash deposit in the section of the horizontal pipe, which must not exceed 3m (1). The existing flue pipe must be accessible for inspection (2).

The installation of the product in example (B) requires an insulated duct (3), as the entire flue pipe has been installed outside the house.

Example (C) uses a single-wall flue pipe (4) for the indoor section. With regard to the part located in the attic, outside the room where the generator is installed, it is necessary to install an insulated section, with double crossing of the slab and the roof; the passing holes of the pipe must respect the minimum safety distances indicated on the labels of the sections of the pipe itself, paying attention to the possible contact with the material crossed, as is the case with:

- concrete, bricks, etc.;
- wood, composite materials, etc.

In both cases, make sure the passage for the flue pipe through the slab and the roof is wide enough to allow suitable safety distance (5).

It is recommended to check and respect the data on the flue plate, paying particular attention to safety distances from combustible materials.

The previous rules also apply to connection holes made on the wall.

In the lower part of the flue pipe, as well as at the chimney flue inlet, a "T" type connector (6) with inspection plug (7) has been fitted for the all the 3 types of installation.

In the upper part of the chimney flue, a windproof chimney cap (8) has been fitted for all the 3 types of installation.

For all the 3 types of installations, a grate (9) has been provided to ensure good oxygenation of the room where the product has been placed. In case of hermetically sealed appliance, equipped with direct outdoor connection of the air-intake system, a grate is not required.



It is not recommended to install a 90-degree elbow as first section, for the ash would quickly clog the duct, causing air draft problems.



In the event of particular atmospheric conditions and/or unfavorable draft, the product is able to compensate for such situations, provided that necessary precautions have been taken during the installation, such as, for example, a windproof chimney.

3.7 DOCUMENTS TO BE ISSUED

When installation is concluded, the installation technician must deliver to the user:

- the use and maintenance booklet of the appliance supplied by the manufacturer;
- the technical documentation of the accessories used and subject to maintenance;
- the documentation relevant to the evacuation system of combustion products;
- the system booklet (where planned);
- the documentation certifying installation;

The useful documentation for installation liability must include:

- a detailed description (also including photographs) of the presence of other heat generators;
- Declaration of Conformity of the system to standard (M.D. 37/08);
- general description, or diagram or photographic documentation of the changes made to the system, if intervention was necessary during installation;
- Use of certified material with the CE mark (305/2011);
- possible instructions relating to the warranty;
- the date and signature of the installation technician;



NOBIS SRL cannot be held in any way liable in the event of non-compliance with the installation and start-up standards of its products.

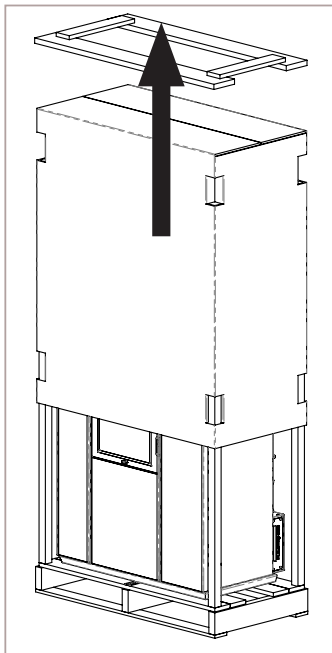
3.8 UNPACKING THE PRODUCT

L'ipackaging is composed of boxes in recyclable cardboard according to the RESY standards and wooden pallets. All packaging materials can be re-used for similar use or, if necessary, disposed of as urban waste, in compliance with legislation in force.

Remove the strap binding the pallet to the packaging and lift the cardboard; remove the plastic bag around the product, ensuring it is intact.

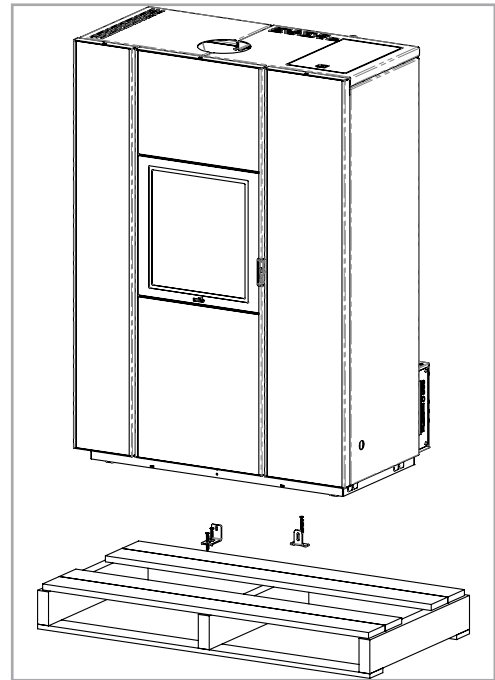
The body must always be moved in a vertical position using trolleys.

Pay particular attention so that the door and its glass are protected against mechanical impact which would compromise their integrity.



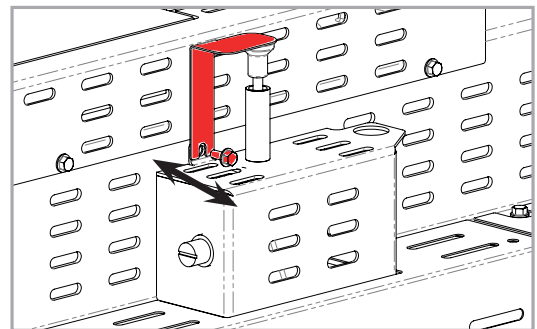
If possible, unpack the product near the area where it will be installed.

To remove the device from the pallet, unscrew the metal supports holding it, so as to release it from the wooden base.



Place the appliance and connect it to the flue pipe. **Install the 4 adjustable feet to be found in the accessory box** and adjust them to properly connect the smoke outlet with the collar. Also remember to leave enough space to place the lower wooden decorative panel.

Unlock the control mechanism of the fume safety hatch (located on the rear right side of the pellet tank cover) by loosening the locking screw of the support to release it. Pay attention to the lever, for it will rise due to the fact that the stove is not powered. Tighten the screw back in place after removing the support.



3.9 INSTALLING EXHAUST PIPE/CANALIZATION

Below you will find the instructions to properly install the smoke extraction system, as well as

the optional canalization kit and a disassembly/reassembly diagram for the decorative cover of the appliance.

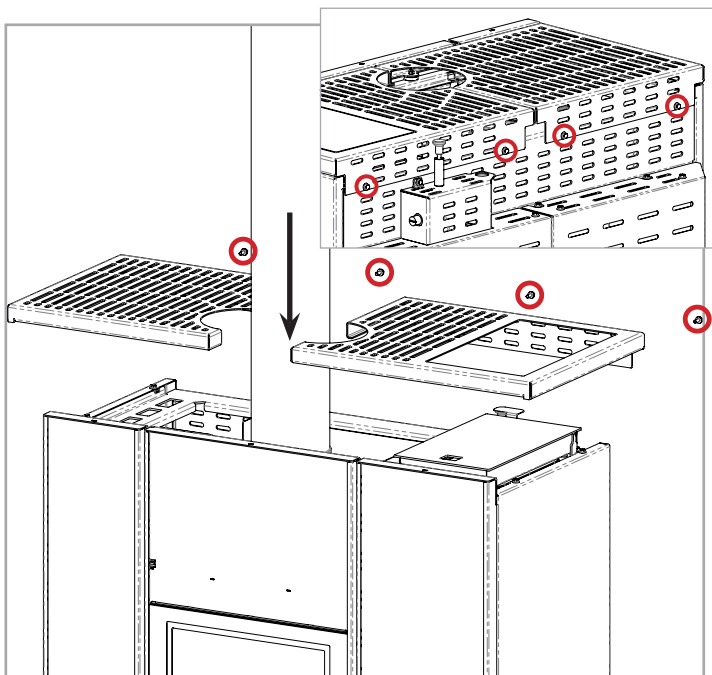


This chapter also deals with non-standard installation options. Pipes which are not supplied with the product can still be purchased from your trusted dealer/service center.



The installation, disassembly and reassembly of the device must be carried out by qualified personnel authorized by Nobis Srl. Please note that having the device opened/disassembled by unauthorized personnel will invalidate the product warranty.

CONNECTION TO THE SMOKE EXHAUST SYSTEM



When installing the first section of the flue pipe, always remove the two upper diffusers to avoid damaging the paint.

First and foremost, unscrew the 4 screws highlighted on the back side and lift the two diffusers (held by magnets on the front).

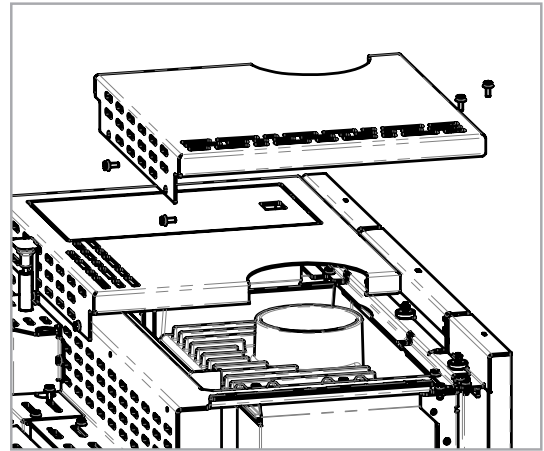
Insert the first section of the flue pipe ($\varnothing 130\text{mm}$). This must be of good quality and resistant to the high temperatures it could be subjected in the event of the opening of the safety bypass hatch. Reassemble all the parts following the instructions in reverse.



WARNING: THE SECTION OF THE EXHAUST PIPE MUST WITHSTAND TEMPERATURES WHICH CAN EASILY REACH EVEN MORE THAN 600°C. THE DEPRESSION OF THE SMOKE EXHAUST SYSTEM MUST RESPECT THE VALUE OF 12Pa.

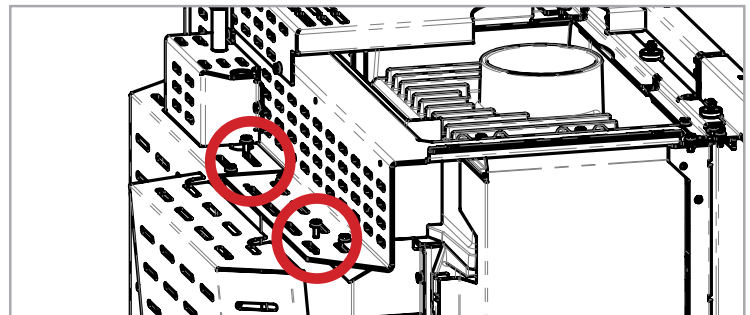
ASSEMBLY OF THE CANALIZATION KIT (OPTIONAL)

Remove the screws securing the upper left cover of the diffuser.

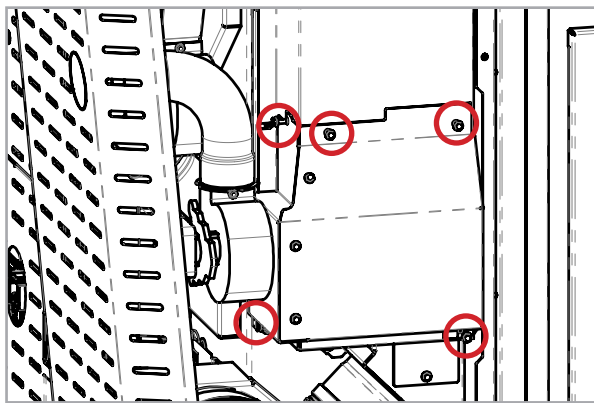
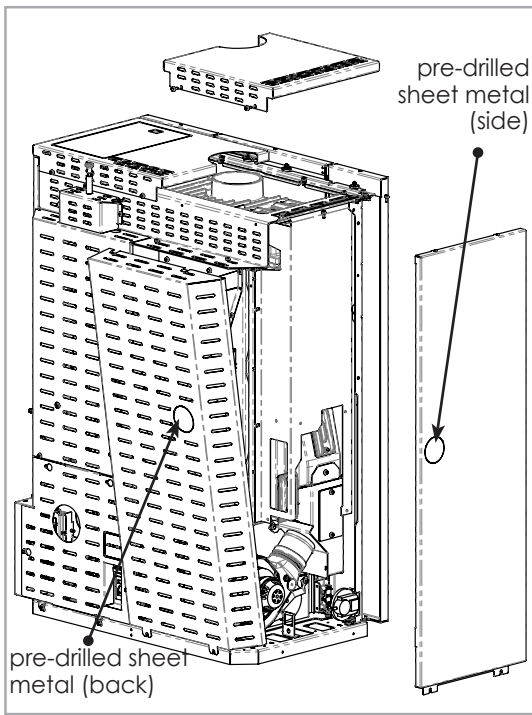


Remove the wooden cover (which is attached on the underside by means of magnets). Then unhook the side panel by unscrewing the two upper fixing screws. Remove it by lifting it from the lower screws (bayonet joint). Loosen the two screws holding the rear panel at the top (highlighted by the circles) and remove it.

Detach the pre-drilled sheet metal on the left or the one on the back, depending on the desired orientation of the canalization.

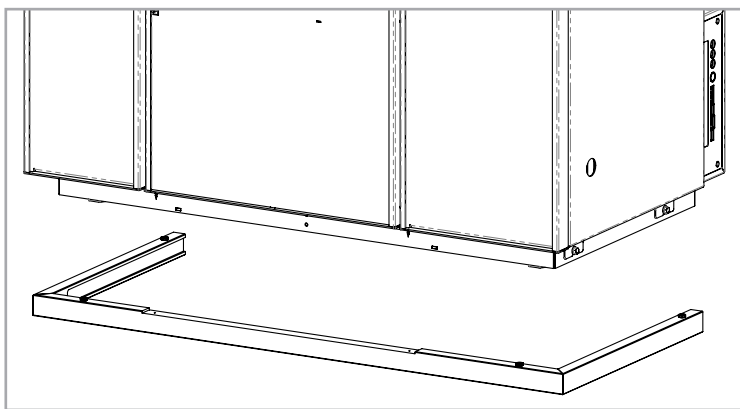


Fix the canalization kit using the 5 screws (highlighted) already present in the stove. After properly securing the carter with the motor, plug in the electrical connection using the wiring already present in the device and already in place. Don't forget to activate the single pipe option in the user menu (via remote control).



3.10 WOODEN PANEL

The wooden decorative panel is equipped with magnets to easily attach it to the base of the stove.



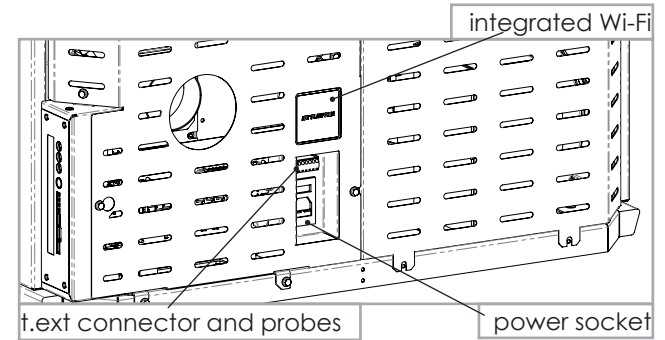
3.11 ELECTRICAL CONNECTION

The product power supply cable must only be connected after concluding installation and assembly of the product, it must not be in contact

with hot parts and must remain accessible after installation.

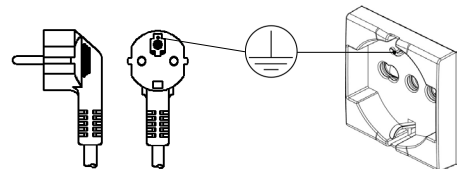
To carry out electrical connection, proceed as described below:

- connect the power supply cable on the back of the appliance;
- connect the cable plug to the current socket on the wall.



i You can connect an outer thermostat with timer to the appliance for its regulation or to switch on and off. For connection and management of the "outer thermostat" function, refer to the specific chapter in the following pages of this manual.

! It is compulsory for the system to be grounded and have a differential switch in compliance with legislation in force. Furthermore, ensure the socket is compatible with the type of plug on the power cable used.



4 MAINTENANCE

The maintenance operations, excluding routine cleaning (explained in the relevant paragraph), must be carried out by authorised, technical staff. Remember, before carrying out any maintenance operation, implement the following precautions:

- all parts of the product must be "cold";
- ensure there is no form whatsoever of combustion (for example ash still hot);
- use of safety devices as per the directive;
- remove the plug from the electrical socket;
- having terminated maintenance, reset the product paying attention to re-activate all the safety devices.

! DO NOT DROP ASH AND EMBERS FROM THE GRATE INTO THE HOLE OF THE BRAZIER - DANGER OF BREAKAGE OF THE MECHANICAL CLEANER AND/OR MALFUNCTION OF THE ELECTRICAL RESISTANCE NEEDED TO IGNITE PELLETS.

4.1 MAINTENANCE OF THE SMOKE SYSTEM

See the corresponding paragraph in the PELLET manual.

4.2 PRODUCT MAINTENANCE

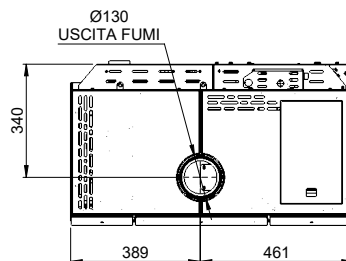
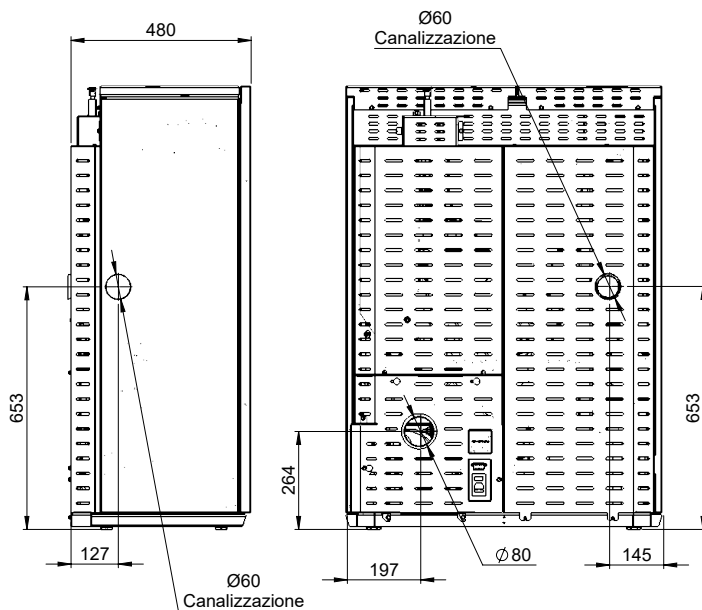
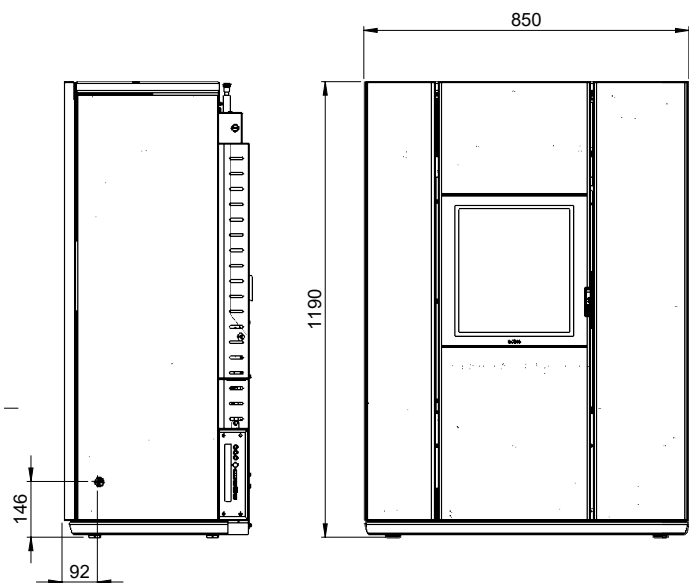
See the corresponding paragraph in the PELLET manual.

5 TECHNICAL DATA OF THE PRODUCT

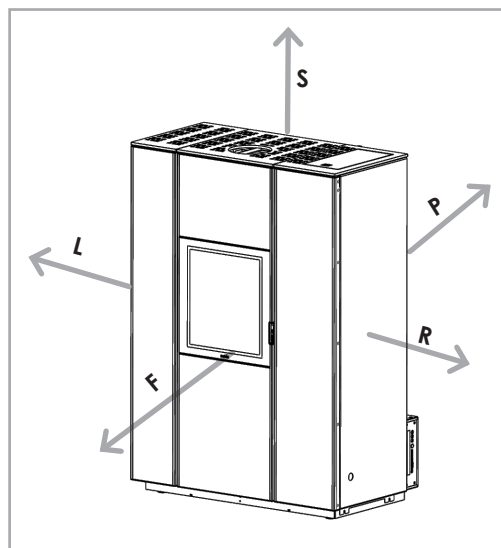
This chapter issues to the end user all the information relating to the technical data of the product, the dimensions, the installation measurements, the minimum distance to comply with from walls and furniture, sofas, etc.

The manufacturer reserves the right to change the features of its products to improve performance.

5.1 DIMENSIONS



5.2 SAFETY DISTANCES

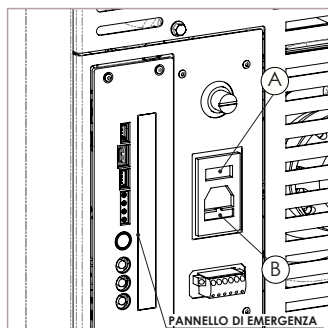


Minimum distance from flammable materials		
R	Right-hand side	400 mm
L	Left-hand side	400 mm
P	Back side	100 mm
F	Front side	1000 mm
S	Upper side	1000 mm



6 PRODUCT SETUP

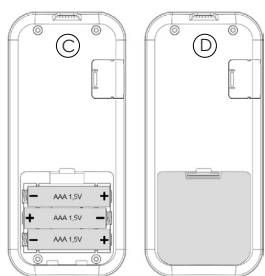
Once all the installation, covering assembly (where present as a kit) and electrical connection are in place, with utmost attention, access the rear part of the product to power it.



The "I/O" switch (**A** in the figure above) must be positioned on "I". In the event of a power failure, check the condition of the fuse placed under the switch **B** (4A fuse EU configuration). During periods of non-use, you are advised to disconnect the cable powering the appliance, and also the batteries from the handheld device..

6.1 REMOTE CONTROL

Remove the protective cover of the batteries on the rear of the remote control, as in the figure **C**, and insert 3 batteries (type AAA Alkaline 1.5V) in the handheld device compartment, paying attention to polarity. Close the protective cover of the batteries as in the figure **D**.



The batteries, once exhausted, must be disposed of in the dedicated collection centers. To protect the battery from adverse conditions or misuse, remember to:

- keep the command away from heat sources, risk of explosion;
- remove the batteries in case of prolonged not use of command, risk of oxidation and liquid leakage;

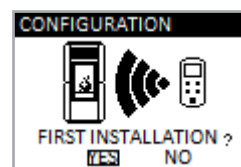
Nobis srl declares that the type of "Handheld" radio device complies with Directive 2014/53 / EU. The full text of the EU declaration of conformity is available at the following Internet address:

<https://www.nobisfire.it/wp-content/uploads/2019/04/DoC-Palmare-Radio-Nobis-1.pdf>

The handheld device, after a first short screen with the manufacturer's logo, lists a series of languages available on the menu: press \uparrow \downarrow to select your language and then press **OK** to confirm.

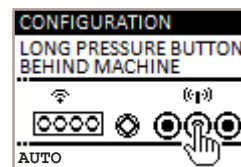


To work correctly, the handheld device requires interfacing with the electronic board inside the product. For this reason, the display shows a first installation message.

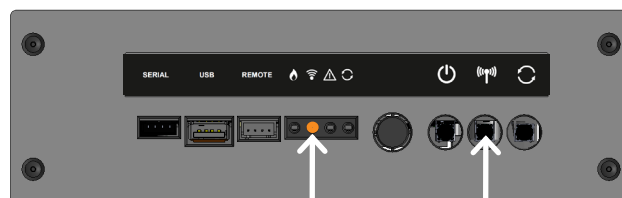


If this is the first time you are using the remote control, choose YES with the selection keys \uparrow \downarrow and press **OK** to confirm and display the next screen.

Follow the instructions to link via remote the appliance to the display, as outlined in the figure below.



To start the connection procedure, long press the radio-connection button (the one in the center among the three available) on the electronic board (located on the right side of the product) for a few seconds, until the orange LED begins to flash, as shown in the image below.



Press **OK** to pair the remote to the device (it might be necessary to press it twice).

A tick sign on the display, accompanied by an acoustic signal, indicates the remote connection has been successful.



When replacing the batteries, it will not be necessary to pair the remote control again. When the question "FIRST INSTALLATION?" will be displayed, select **NO** and press **OK**.

If the automatic connection is hindered by any interference, it is possible to repeat the connection procedure by forcing a fixed channel (**CH1** or **CH2**) using the directional keys \uparrow \downarrow , or else by inserting the batteries, answering **YES** to the question "NEW INSTALLATION?"; when the display will ask you to press the button on the electronic card, before pressing it, use the directional buttons on the remote control to choose one of the two fixed channels instead of **AUTO**. If interferences are still disrupting the connection, find out which device is causing it and have it checked by its manufacturer's technical support.



6.2 EXTERNAL THERMOSTAT

If you want to manage the appliance from a different room (in that specific room, the remote handheld device cannot communicate), you can connect an external thermostat to the product, to allow modulation of combustion or, by activating a particular function, allow switch on or off of the product. As in the figure below, connect the terminals of the thermostat to the terminal board on the back of the product (near the emergency panel).



The external thermostat **MUST** operate with "clean contact" or "dry contact" in normally "closed mode", otherwise the electronic control unit will be damaged. Once connected, the recognition function must be enabled to allow the control unit to detect the presence of the external thermostat, from the **USER SETTINGS** menu (see the paragraph "ENABLE EXTERNAL THERMOSTAT").

i Enabling the external thermostat will deactivate the temperature management functions on the

remote control. In such case, the remote control will display **TON** if room temperature has not been reached yet, otherwise the writing **TOFF** will be displayed.

6.3 LOADING LOGS

Firewood must be loaded by inserting the logs into the fireplace following the instructions given in Chapter 9.

7 REMOTE CONTROL

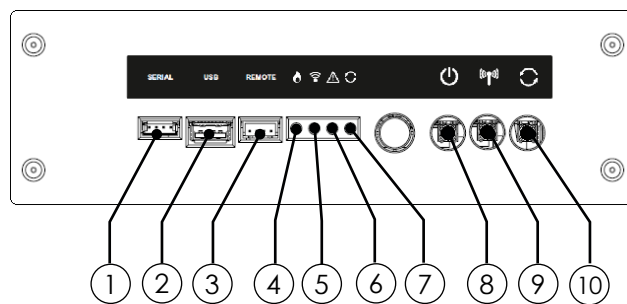
Before switching on the appliance, you are advised to read the following chapter carefully relating to use of the receiver and the remote control, as well as their related functions.

INFORMATIVE NOTE:

- frequency bands and transmitted power used by the equipment as reported in the technical documents: 868.3MHz - 869.85MHz
- frequency bands and respective power limits transmitted applicable to the device (frequencies and standardized powers): 6dBm ERP

7.1 RECEIVER

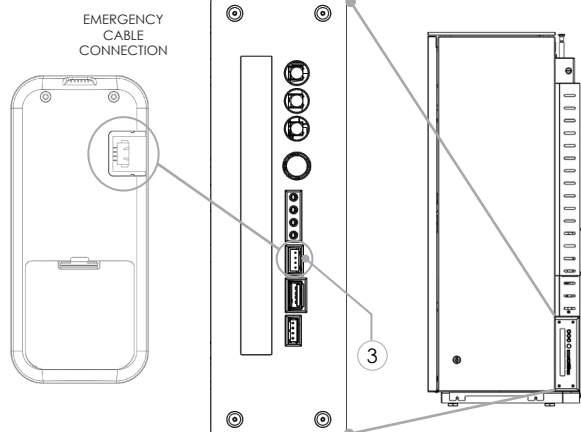
The appliance is equipped with an emergency remote board, placed at the back of it, which allows basic management of the functions in the event the remote control is faulty or not working properly.




- 1 Serial connection (use by authorised staff ONLY)
- 2 USB connection (use by authorised staff ONLY)
- 3 Emergency cable connection
- 4 GREEN LED - appliance working status
- 5 YELLOW LED - remote communication in progress
- 6 RED LED - alarm on
- 7 BLUE LED - System updating in progress
- 8 Appliance switch on/off button
- 9 Receiver handheld device remote combination button
- 10 Manual upgrade button (use by authorised staff ONLY)

i In the event of malfunctioning of the remote communication between the remote control

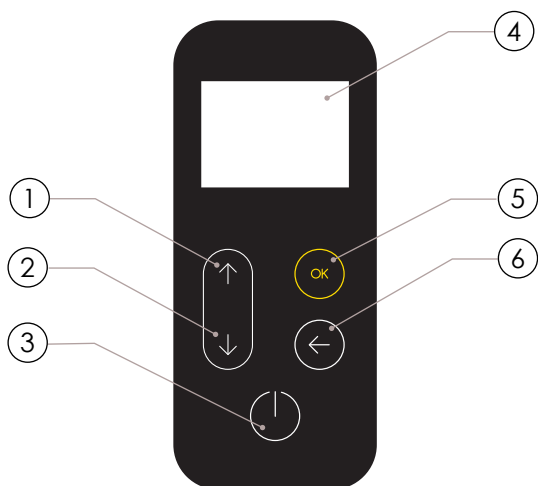
and the receiver, or if the batteries are flat, use the **emergency cables** supplied, to restore communication between the remote devices.




 Before connecting the emergency cable, remove the batteries from the remote control. **FIRE HAZARD.**

7.2 KEYS

The remote control is as in the image below:



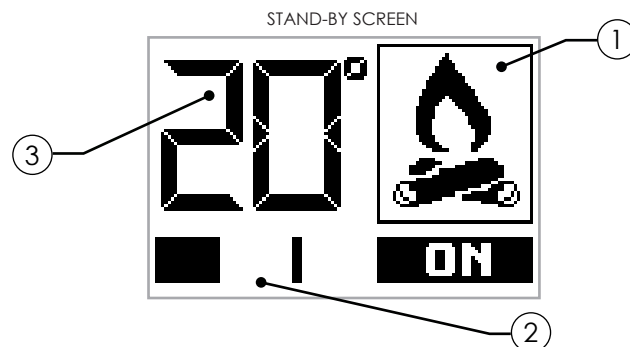
- 1 Increase key (selection key)
- 2 Decrease key (selection key)
- 3 ON/OFF or reset from "Sleep" mode key
- 4 Display
- 5 MENU access and confirm key
- 6 Back to previous screen key



 In "Sleep" mode, the screen of the remote control turns off, maintaining enabled, if necessary, only the remote communication with the appliance to reduce battery consumption.


7.3 DISPLAY


The screen of the remote control appears as

illustrated in the figure below:




 After 20 seconds of inactivity, the remote control display blacks out and switches to "SLEEP" mode, maintaining the remote connection with the appliance. Press  to reactivate it.

 This Icon indicates the appliance status (see the icon list for further information).

 It indicates the operating power. Press the scroll key \downarrow to display power settings, and use the two scroll keys $\uparrow\downarrow$ to make changes. Any change is automatically confirmed within 3 seconds after editing, or else by pressing **OK**. An acoustic signal will confirm the change has been carried out successfully.



 It displays the room temperature detected by the remote control. Press the scroll key \uparrow to display the temperature settings, and use the two scroll keys $\uparrow\downarrow$ to make changes. Any change is automatically confirmed within 3 seconds after editing, or else by pressing **OK**. An acoustic signal will confirm the change has been carried out successfully.



7.4 FLAT BATTERIES

In case of flat batteries, the screen will display a symbol indicating their current status. The remote control will nonetheless continue to operate.



As soon as the batteries are completely flat, remote communication with the appliance will stop and the remote control will display a full-screen image of a flat battery, blocking all the functions connected to it until the batteries are replaced.



7.5 ICON LIST - WOOD

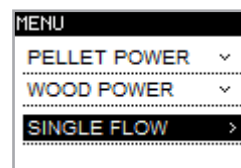
①	②	③	MEANING
			TURN ON (WOOD) OR SWITCH TO WOOD MODE
			OPERATION (WOOD MODE)
			WOOD SAVING MODE
			WOOD FINAL CLEANING
			REMOTE CONTROL BATTERIES ALMOST FLAT
			ALERT (see specific paragraph)
			LOAD MORE WOOD (see specific paragraph)
			WARNING (see specific paragraph)

7.6 POWER MANAGEMENT

From the standby screen, press the ← key (paragraph 7.3) to access Unica's power management contextual menu for pellets and wood. It is also possible to set canalization operating modes, when installed (optional) and

enabled.

The menu is useful when you want to adjust the operating power to restart the appliance in pellet mode while Unica is running with wood.

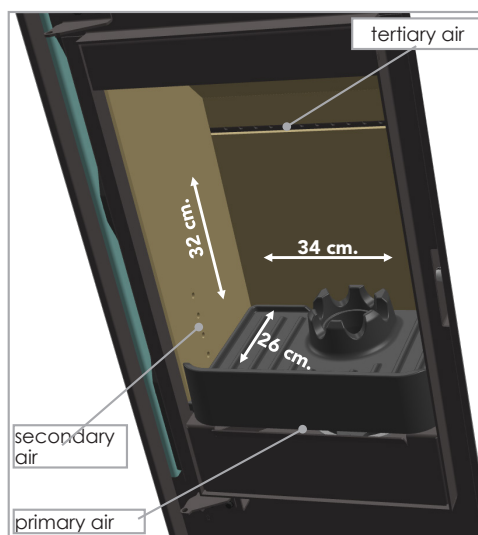


8 NAVIGATION MENU

See the corresponding paragraph in the PELLET manual.

9 START-UP INSTRUCTIONS

This chapter highlights a series of operations to be carried out during the first start-up of the appliance.



DO NOT OVERLOAD! - SEE CHAPTER 2 FOR RECOMMENDED WOOD TYPE AND QUANTITY. Load wood when Unica requests it (provided you have not disabled the prior-notification function) and only when intense ember are present. To avoid serious damage due to overheating, **not covered by any type of warranty**, do not leave the primary air (manual operation) completely open while using the generator without electricity ("forging effect").

9.1 DATE AND HOUR SETTINGS

See the corresponding paragraph in the PELLET manual.

9.2 ROOM PROBE SETTINGS (REMOTE CONTROL)

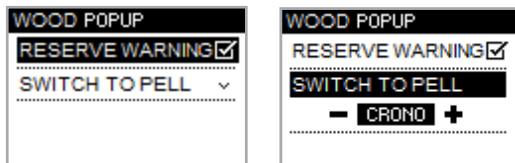
See the corresponding paragraph in the PELLET

manual.

9.3 SWITCHING TO PELLETT MODE

Unica gives users freedom of choice once they decide not to load more wood.

A special menu, available in user menu > settings > wood pop-up.



RESERVE WARNING

This function enables/disables the automatic "load wood" sound alert.

SWITCHING TO PELLETT

This function allows you to choose 3 modes:

- 1. CHRONO** (default settings) - Unica will continue to burn pellets only if the unit is within an operating range of parameters set with the chronothermostat.
- 2. NEVER** - Unica switches off like a normal wood stove.
- 3. ALWAYS** - once the wood is finished, Unica will switch to pellets automatically.

9.4 ROOM TEMPERATURE SETTINGS

Room temperature defines the desired temperature in the room where the product is installed.

When operating with wood, the stove will heat the room according to the quantity of wood introduced (see dedicated table below) while allowing the user to set the desired room temperature. This is due to the fact that, even if in wood mode, the stove can manage the front fan and – with the optional kit installed, also the canalization fan – to better distribute the heat in short time.

9.5 HEARTH POWER SETTINGS

The hearth power defines the amount of heat produced by the appliance, which implies a different fuel consumption according to the settings. As mentioned, this depends on the quantity of wood introduced into the hearth, according to the hourly limits (see dedicated chapter 2). Changing the power in wood mode allows you to adjust the amount of combustion air to burn the wood more or less slowly.

From the STAND-BY screen, press ↓ to activate power modification.

Values range from 1 to 3. They are represented by black boxes visible below room temperature.



Make changes by pressing ↑↓.

Confirm the new settings by pressing **OK**, or wait 3 seconds for auto-confirmation.

9.6 RECOMMENDED IGNITION (WOOD)

UnBeing a dual-fuel product, Unica has a considerable advantage: it can use the flame produced by the pellets to comfortably light the wood.

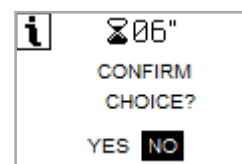
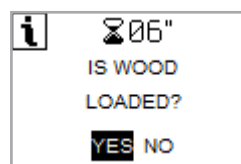
In fact, this is the ideal way to ignite wood.

To turn on the product in pellet mode, follow all the steps indicated in the dedicated paragraph of the PELLETT MODE manual, until Unica is running properly and the hearth is well heated.



Set the operating power on at least P3 for about ten minutes before inserting the wood logs.

Just open the door to notify Unica that you are going to introduce some firewood. On the remote control will appear (for 30 seconds) a request for confirmation, accompanied by a sound signal. In case no confirmation is given, the stove will use **YES** as the default answer and will start igniting the firewood as soon as possible, thus switching to wood mode.



The **NO** option has been added for those operations where the intervention of an authorized technician is required. In the rare event that the door must be opened with the remote control, ALWAYS answer "**NO**" TO THE QUESTION if you have NOT loaded wood.

Opening the door to add more wood will no longer trigger the question.



There is no valid reason for the user to open the stove door while pellets are burning: danger of fire or burns.

If no wood is loaded after **60 seconds**, the stove will trigger a sound alarm signaling that the fire door is open. Being a pellet stove operating with predetermined fuel loads, if the door is opened during operation, pellet loading will stop for safety.

reasons.

To make loading operations easier, especially during the first period of use, users can place a few logs first and then close the door to resume the burning of pellets and keep the flame active, completing the loading operation after about twenty seconds.



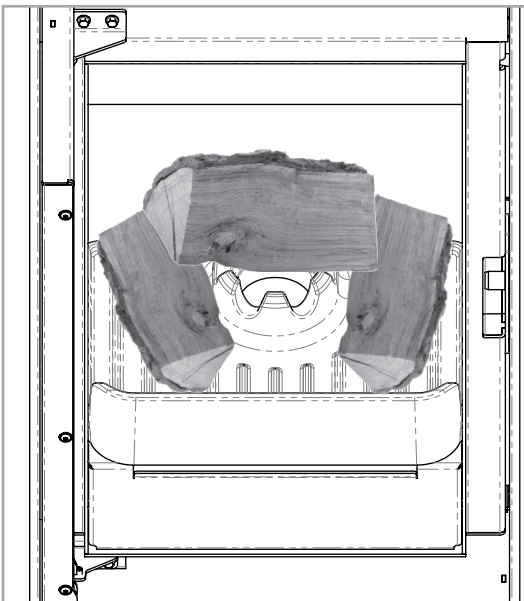
Always open the with the special lever supplied with the product. To prevent backfire, open the door with due caution. Do not open the door abruptly.

When loading wood, do not hurry, always use due protective equipment, being careful not to hit the logs violently against the vermiculite that covers the combustion chamber **to avoid damage**.



To make operations easier and faster, prepare a protective glove and wood logs next to the stove in a log rack.

It is very important to use good quality wood. Do not use whole logs: split them at least in half and never exceed 25 cm. The logs must be well positioned inside the hearth to facilitate ignition, as **shown** in the following figure:



Turn the logs to be placed directly on the grate (over the pellet brazier "crown") with the bark side face down, and place the upper log with the bark facing up, to better stoke the flame.

Thanks to its technology, Unica will ensure intelligent combustion. When the temperatures inside the fireplace (predefined by our laboratory) are reached, Unica will switch to "HOLD" mode.

If you wish to insert a log of wood larger than usual, (under no circumstances should it weigh more than 2/2.5Kg and measure no more than 30cm

in length) do it when there is an intense layer of embers and NEVER place it on the vermiculite, so as not to prevent any ignition or combustion problems.



P1 "HOLD": with each subsequent load of wood, the HOLD mode will be activated automatically. This will maximize efficiency while minimizing emissions to the environment.

9.7 COLD START

Un Thanks to its flexibility, Unica allows you to cold start the product by placing wood logs in the hearth when the stove is off (as shown in the diagram presented in point 9.6), and then turning it on via remote control (by answering **YES** to the question "Is wood loaded?").



In case of cold start, if you intend to use the **programmable thermostat** for automatic start-up in wood mode the next morning, ALWAYS make sure that there are hot embers beneath the ash of the previous wood ignition.



The ash will keep the embers alight for several hours and, if no due care is given, there is a risk that the wood placed for delayed ignition will burn from the embers.

After having memorized the wood load (answer YES on the remote control) when detecting an increase in the hearth temperature, Unica will start the smoke engine automatically, thus activating the intelligent combustion to properly use up the loaded wood.

The user will then find Unica in different STATUSES, depending on the choice selected in the menu SWITCH TO PELLET MODE:

- **CRONO** > if in the ignition range: pellet operation; if in shutdown phase: stove off.
- **NEVER** > stove switched off without wood because it is already burnt or at most extinguished (this depends on the time taken to ignite the burning embers beneath the ash).
- **ALWAYS** > pellet operation, regardless of the activation of the chronothermostat, provided that the pellets are not exhausted. In this case, the stove will also trigger the alarm "no more pellets".

9.8 MANUAL IGNITION

Unica can be switched on like a normal wood stove, without using pellets. As always, it is important to answer **YES** to the question "Is wood loaded?" after loading and when the fire door is closed. Load wood logs as shown in the following

image, taking care to place the ignition materials on top of the wood logs in the hearth.



After that, as soon as Unica detects the increase in temperature, it will activate the smoke engine for smart combustion and room heating with the same logic of cold ignition by pellets.

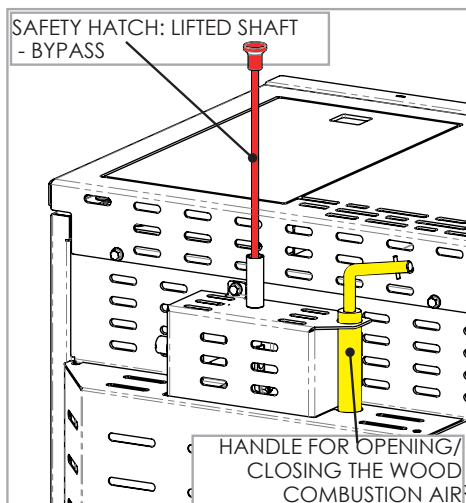
9.9 OPERATION WITHOUT ELECTRICITY

Unica has been designed to work with wood even without electricity. If a blackout occurred while Unica was already working in wood mode, the combustion will not change. On the other hand, if we decide to disconnect the stove from the power supply and use it as a normal WOOD stove, we will have to act differently.

IN CASE OF ELECTRICAL FAILURE

In the event of a sudden loss of electrical power (which powers the motors, fans, safety devices, combustion air management system, etc.), the safety valve, held closed by an electromagnet, will open to facilitate the expulsion of smoke from the hearth.

In the figure below you can see the rod raised, showing the opening of the safety hatch (BYPASS).



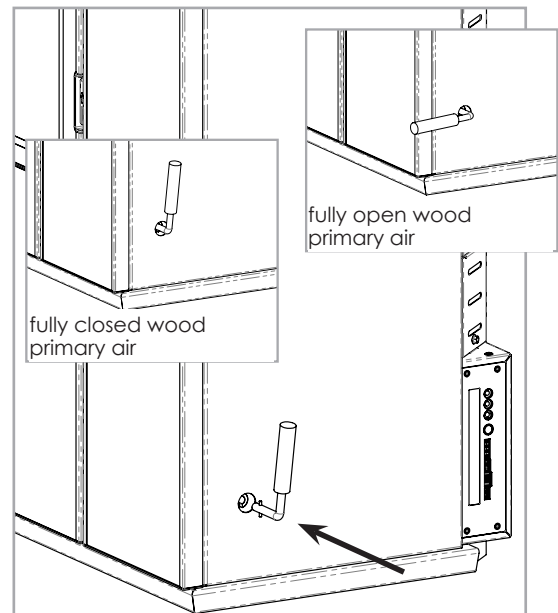
The opening of the BYPASS system is also controlled

by a micro-switch which, when the power returns, warns via the remote control of the need to lower the lever, bringing it back to its initial position (thus closing the by-pass).



Without electricity, Unica requires the combustion air valve to be opened manually, using the handle located next to the BYPASS rod, TO ADJUST AIR SUPPLY FOR COMBUSTION.

The handle must be inserted into the hole at the base of the right side, as shown in the following figures, and must be used when loading new logs to stoke the flame as soon as possible; after this operation, the handle can be closed safely, step by step, as the combustion air management system was already in the ideal position for burning the wood logs.



The manual valve for the wood combustion air is also equipped with a micro switch to notify via remote control it is open when the power returns.



Both the BYPASS valve and the MANUAL WOOD PRIMARY AIR valve must be **CLOSED** in order to restore normal operation with electricity. **ALWAYS close the PRIMARY AIR valve first, then close the safety hatch by means of the rod.** If both valves are open, the smoke motor WILL NOT START for safety reasons, i.e., because the smoke circuit is open, like the duct fan.

IN CASE OF LACK OF ELECTRICITY

To use Unica as a normal wood-burning stove without electricity, load and light the wood as explained in paragraph 9.8 and use the handle for the primary combustion air of the wood as illustrated in the previous paragraph.

Unica will work like a normal wood-burning stove

without any particular problem, managing the primary combustion air through the removable handle, while secondary and tertiary air are predetermined mechanically.

10 OPERATION MODES AND FUNCTIONS

Unica works with 3 power levels, indicated by 3 black squares below room temperature. Once room temperature has been reached as per remote control settings, the device will behave as follows.



In wood mode, AUTO mode is ignored; users can still activate and deactivate it by remote control but nothing will change in the operation of the wood. Such change in settings will be used when starting the product in pellet mode.

10.1 SAVING MODE

During operation, the device works with the aim of reaching room temperature as per settings; when this condition is fulfilled, the power is reduced until switching to ECONOMY mode, a stage where fuel consumption is minimum, actually lower than the P1 HOLD MODE.

10.2 COMFORT CLIMA

This function remains active if you choose to switch to pellets once the wood is finished, in accordance with what explained in paragraph 9.3. If room temperature is higher than the set temperature, Unica will switch to ECO STOP status automatically, waiting for the room temperature to decrease before restarting. In wood mode, this option is inactive.

10.3 POWERFUL

Function ignored when operating in wood mode.

10.4 VENTILATION MANAGEMENT

This function takes over the ventilation management of the same function in pellet mode, with the only difference that it does not have 7 power levels, but 3, plus PS, which automatically follows the power set via remote control. For further information, see the same paragraph in the pellet mode manual.

11 MENU FUNCTIONS

See the corresponding paragraph in the PELLET manual.

11.1 PROGRAMMABLE THERMOSTAT

See the corresponding paragraph in the PELLET manual.

Remember that the chronothermostat can be used to switch on the product where wood has already been loaded confirmed via the remote control, as explained in paragraph 9.7.

Actually, the operating procedure is always the same, the only difference is that for the first start programmed, it has wood and then switches the machine to "wood operation", after which Unica will behave like a smart wood stove.

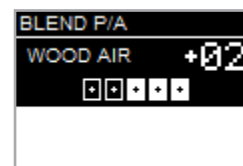
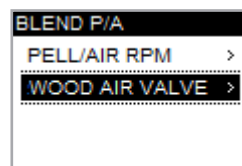
11.2 PELLETS/AIR RATIO AND WOOD VALVE

The management menu for adjusting the amount of combustion air and pellets for the Unica model is also equipped with a function for the management of combustion air for wood (see the menu item "**WOOD AIR VALVE**").

This function allows you to act on the automatic management valve to allow more or less combustion air to pass, to adjust the flame according to your personal preferences:

- less air - slow flame and complete gasification;
- more air - brighter flame, without gasification.

Of course, the more air given to the wood, the faster it will burn, so after experimenting a bit, use the mode that best suits the type of wood to be burned and the type of flame you prefer to see.



12 CANALIZATION

See the corresponding paragraph in the PELLET manual.

13 PHASE LIST

Here is a list of those phases which are different from pellet mode only. For more details, see the corresponding paragraph in the PELLET MODE manual.

PHASE	DESCRIPTION
	<p>The appliance detects fire in the combustion chamber.</p> <p>Until the temperature and fuel control cycles have been carried out, the display will not change.</p>
	<p>The appliance has completed the control PHASE, has verified the correct ignition of the wood logs and switches to "hold mode".</p>
	<p>Room temperature has been reached as per settings.</p>
	<p>The ideal minimum temperature has been reached in the combustion chamber. It is now possible to add more firewood (WOOD ALERT).</p>
	<p>The device is in the shutdown phase and the cooling phase is not yet complete.</p>
	<p>The device is in OFF state and all motors are disabled.</p>

14 FUNCTION LIST

See the corresponding paragraph in the PELLET manual.

15 SIGNAL LIST

Here is a list of those signals which are different from pellet mode only. For more details, see the same paragraph in the PELLET MODE manual.

PHASE	DESCRIPTION
	<p>The stove has detected an operating anomaly: press OK to display more details.</p>

PHASE	DESCRIPTION
	<p>The stove has detected an operating anomaly: press OK to display more details.</p>
	<p>The stove has detected an alarm condition: press OK to view more details. Note: by resolving the condition causing the alarm, Unica will continue to operate.</p>
	<p>The MAXIMUM service hours threshold has been reached. It is recommended to request extraordinary maintenance of the appliance by authorized personnel.</p>

16 ANOMALY LIST

PHASE	DESCRIPTION
	<p>The stove has detected an operating anomaly: press OK to display more details.</p>
	<p>The user has opened the stove door. Carry out loading operation within 60 seconds to prevent the stove from triggering an alarm.</p>
	<p>The stove has detected an operating anomaly: press OK to display more details.</p>
	<p>The device signals a blocking of the safety thermal switch. When Unica switches off in wood mode, alarm 07 will be displayed and you will have to follow the instructions indicated in the alarms chapter of the pellet mode manual.</p>

Anomalies, unlike alarms, are signals that automatically reset once the cause that generated them has been resolved. Such notifications, unlike alarms, do not turn off the machine.

To resolve some anomalies, technical intervention by authorized personnel is necessary. Although the device continues to work, users should take care to contact the local technical support

center to solve the anomaly. **Ignoring the report may lead to malfunctions, even serious. Moreover, the intervention will no longer be covered by the warranty due to negligence on the part of the customer.**

17 DESCRIPTION OF ALARMS

During operation in wood mode, in case of alarms and anomalies, you can press **OK** to see what Unica reports. By doing so, the alarm is not reset, you will have to wait for the machine to turn OFF.

To access the menu, you must first display the anomalies or alarms on the remote screen, then you can access the menu. Be careful not to press OK too many times so as not to accidentally activate the AUTO function, which is ignored anyway when operating in wood mode.

Due to its particular structure, the wood mode allows safe and continuous operation even if significant alarms are triggered, which would immediately stop Unica in case of operation in pellet mode, as for all the other Nobis products belonging to the pellet range:

BLACK OUT WITH OPENING OF THE BYPASS HATCH

SAFETY THERMAL SWITCH

OPEN DOOR

PELLET TANK COVER OPEN

By solving the problem immediately - for example by closing the tank lid or resetting the bypass hatch when the power returns - the alarms will be canceled automatically.

Other alarms, on the other hand, such as a failure of the Kappa probe or the smoke extractor, will block pellet operation or the next ignition with power supply.

To view the meaning of each alarm, see the same paragraph in the PELLETS MODE manual.



Never let ash pile up too much on the grate. If the side holes for secondary combustion air get obstructed, proper functioning is compromised.

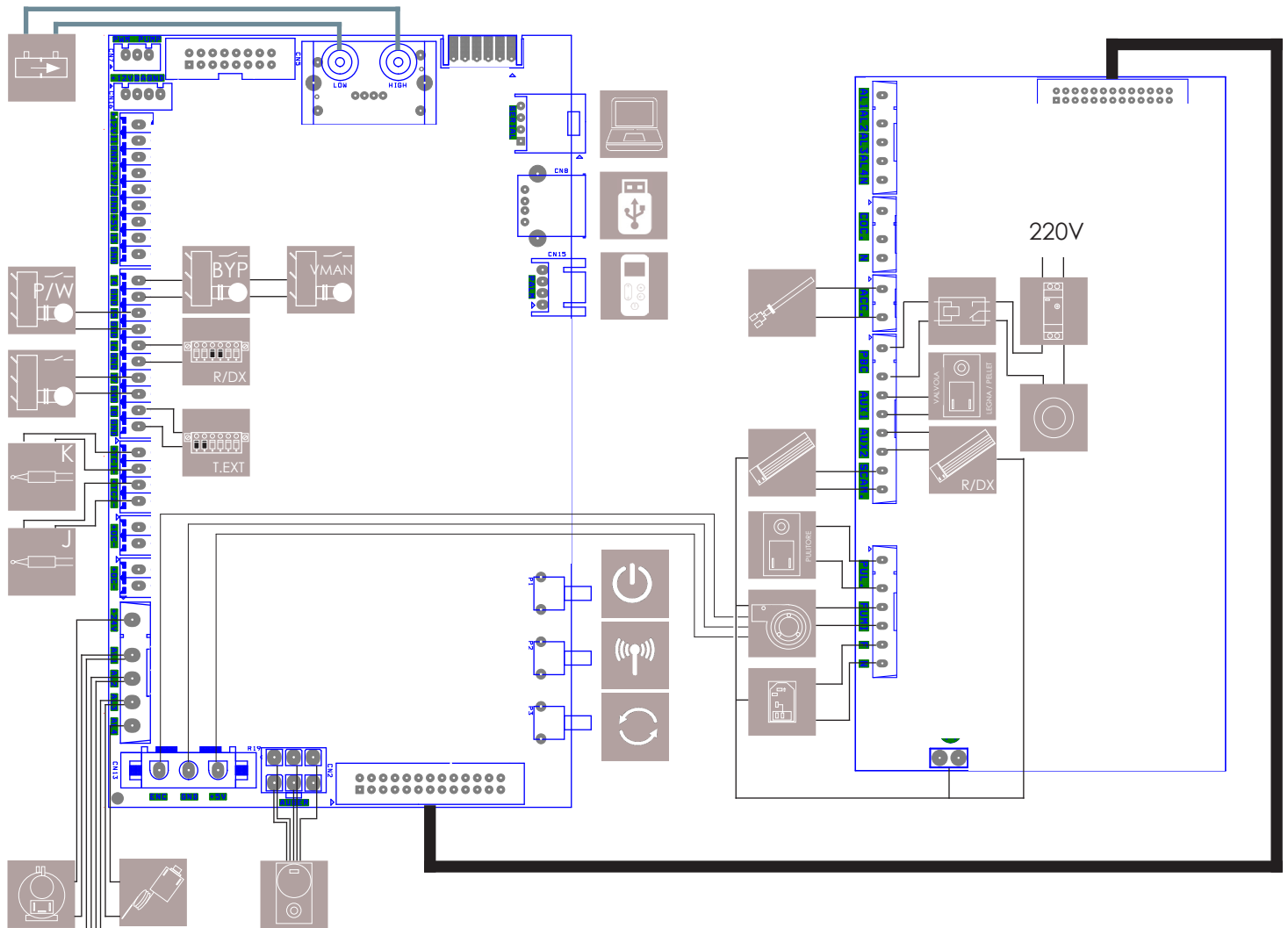
For all other maintenance activities related to Unica, see the same paragraph in the PELLETS MODE manual.

18 CLEANING THE APPLIANCE
































DO NOT DROP ASH AND EMBERS FROM THE GRATE INTO THE HOLE OF THE BRAZIER - DANGER OF BREAKAGE OF THE MECHANICAL CLEANER AND/OR MALFUNCTION OF THE ELECTRICAL HEATER NEEDED TO IGNITE PELLETS.

19 WIRING DIAGRAM



LEGEND:

	PRESSURE SENSOR		RELAIS 220V		ELECTRO MAGNET		220V - 24V TRANSFORMER
	STROKE COUNTER MECHANICAL CLEANER		SMOKE EXTRACTOR		SAFETY VACUUM SWITCH		REMOTE UNIT SELECTION KEY
	TERMINAL BOARD CONNECTION EXT. THERM.		MANUAL RESET THERMAL SWITCH		FRONT VENTILATION		FW UPGRADE KEY (technical support only)
	FLAME PROBE		IGNITION RESISTANCE		LAPTOP CONNECTION (technical support only)		REAR/RIGHT VENTILATION
	SMOKE PROBE		GEARMOTOR MECHANICAL CLEANER		USB CONNECTION (technical support only)		TERMINAL BOARD FOR PROBE OR RIGHT/REAR RIGHT EXT. THERM. CON.
	GEARMOTOR BLDC 24V		DOOR CONTACT/ASH DRAWER (1) PELLETTANK(2)		REMOTE CONTROL EMERGENCY CABLE		TERMINAL BOARD FOR PROBE OR LEFT EXT. THERM. CONNECTION
	PELLET / WOOD VALVE CONTACT		220V SOCKET WITH ON/OFF SWITCH AND FUSE		APPLIANCE SWITCH-ON		WOOD MANUAL VALVE CONTACT
	WOOD BYPASS CONTACT						



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Cod. 110-002-0031N_S1