

EN - Installation, use and maintenance manual

FLAT - ZENITH - CLASSIC

nobis
YOUR STOVE, OUR PASSION



**WARNING****PERICOLO
DI
USTIONE**SURFACES CAN BECOME **EXTREMELY HOT** - ALWAYS OBSERVE DUE PRECAUTIONS AND WEAR SUITABLE PROTECTIONS.

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

To make the most of the stove and all its features in total safety, we invite you to read this manual carefully before starting to use the product.

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

Keep this manual in a suitable place after reading it carefully.

Improper installation, maintenance or use of the product indemnify the Manufacturer from any liability deriving from damages caused to people or things.

All rights reserved. No part of this instruction manual may be reproduced or transmitted by any electronic or mechanical means - including photocopying, recording or any other storage system - for any purpose other than the purchaser's personal use only without express permission for manufacturer's member.

INDEX

1	INTRODUCTION	4
1.1	SYMBOLS	4
1.2	INTENDED USE	4
1.3	IMPROPER USE	4
1.4	IMPORTANCE OF THE MANUAL	4
1.5	GENERAL SAFETY WARNINGS	4
1.6	LEGAL WARRANTY	5
1.7	WARRANTY EXCLUSIONS	5
1.8	SPARE PARTS	6
1.9	IDENTIFICATION PLATE	6
1.10	PRODUCT DISPOSAL	6
1.11	HERMETIC PRODUCT	6
2	WOOD FEATURES	6
3	INSTALLATION	7
3.1	INSTALLATION ROOM	7
3.2	VENTILATION - AMBIENT AIR INTAKE	8
3.2.1	VENTILATION DUCTING	8
3.3	SMOKE CHANNEL AND FITTINGS	8
3.4	FIREPLACE/FLUE	9
3.5	CHIMNEY TOP	10
3.5	HERMETIC PRODUCT INSTALLATION	10
3.6	EXAMPLES OF PROPER INSTALLATION	11
3.7	DOCUMENTS TO BE ISSUED	11
3.8	UNPACKING THE PRODUCT	11
3.9	FUME EXHAUST ASSEMBLY	12
3.10	VENTILATION/CANALIZATION KIT	13
3.11	ELECTRICAL CONNECTION	14
4	TESTING AND MAINTENANCE	14
4.1	TESTING AND START-UP	14
4.2	MAINTENANCE OF THE FLUE SYSTEM	14
4.3	PRODUCT MAINTENANCE	14
5	PRODUCT TECHNICAL DATA	15
5.1	PRODUCT DETAILS	15
5.2	TECHNICAL FEATURES	15
5.3	PRODUCT DIMENSIONS	15
5.4	SAFETY DISTANCES	17
6	OPERATING PROCEDURES	17
6.1	COMMAND FUNCTIONS	17
6.2	PRODUCT SWITCH-ON	18
6.3	COMBUSTION ADJUSTMENT	19
7	PRODUCT CLEANING	19
7.1	CLEANING THE FIRE COMPARTMENT AND DRAWER	19
7.2	CLEANING THE GLASS	21
8	WIRING DIAGRAM	21

1 INTRODUCTION

This manual must be considered as an integral part of the product. The generator is designed and built with high-quality materials and in compliance with the reference standards for construction products (EN13240 wood stoves, EN14785 pellet appliances, EN13229 fireplaces/wood inserts, EN12815 wood cookers). The products also comply with the essential requirements of Directive 2014/35/EU (Low Voltage) and Directive 2014/30/EU (Electromagnetic Compatibility).

Printing, translation and reproduction - even partial - of this manual must be authorized by the manufacturer. Also, contents related to the product functioning and illustrations are not for reproduction.

Always consult authorized technicians in case of doubts and/or perplexities about the functioning of the product.

The manufacturer reserves the right to modify specifications and technical and/or functional characteristics of the product at any time without prior notice.

1.1 SYMBOLS

This manual contains symbols highlighting the importance of particular descriptions or concepts:



INFORMATION: Complying with the instructions contained in this manual guarantees the correct functioning of the product.



WARNING: Symbol used to identify information of particular relevance.



DANGER: This symbols require utmost attention, to guarantee user safety and product integrity.

1.2 INTENDED USE

The product covered by this manual is a fireplace for domestic use, fuelled exclusively by wood (manual loading).

The product is designed and built to work safely under the following conditions:

- installation performed by specialized technicians in compliance with specific reference standards;
- use within the limits stated on the product sheet and in this manual;
- compliance with the technical procedures described in the manual;
- carrying out ordinary maintenance as per instructions illustrated in this manual;

- timely execution of extraordinary maintenance in case of need (malfunctioning);
- activity and maintenance of safety devices (do not remove or deactivate these devices).

1.3 IMPROPER USE

The product must not be intended for uses other than that for which it was expressly made. Otherwise, the manufacturer cannot be held liable for any damages to people, animals or things.

"Improper use" means:

- using the product as an incinerator;
- using the product with fuel other than that described in the paragraph "Wood features";
- using the product with liquid fuels;
- using the product with the fire door open and/or broken glass and/or ash pan removed.

Any other use of the appliance other than that envisaged must be previously authorized in writing by the Manufacturer.

Furthermore, the Manufacturer declines any liability related to improper installation, adjustments, use and maintenance of the product.

1.4 IMPORTANCE OF THE MANUAL

This manual aims at providing the basic rules for proper installation, use and maintenance of the product.

STORAGE: Keep the manual in an easily accessible place;

DETERIORATION OR LOSS: Visit Nobis' official website to download a digital version;

TERMINATION OF USE: In case of private sale of the product, it is mandatory for the owner to deliver the generator together with this manual, as it is an integral part of the product.

1.5 GENERAL SAFETY WARNINGS

Failure to comply with the instructions in this manual can cause damage to people, animals or things.

- Installation, system check and product functional test must be carried out by qualified and authorized personnel only;
- The product must be connected to a single flue duct which guarantees the draft declared by the Manufacturer and which complies with the installation standards envisaged in the place of assembly of the same;
- The room where the product is installed must be suitably oxygenated (air intake);

- To avoid burns, always wear suitable safety equipment before touching the hot surfaces of the product;
- When in operation, the external surfaces of the product reach high temperatures;
- It is prohibited to make changes to the product unless expressly authorized in writing by the Manufacturer;



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

- The product cannot be used by a minor, a person incapable of giving consent, or by a person with reduced sensory, physical or mental capabilities. Furthermore, it must not be used by persons who, despite the aforementioned capacity, have not had adequate training on use and maintenance, or who - in any case - have not read this manual in its entirety.
- Children must be kept away from the generator, especially during operation and maintenance, and they must be prevented from accessing the product to play, even if the appliance is switched off and cold.
- Cleaning and ordinary maintenance which can be carried out by the user must not be performed by a minor, persons not capable of giving consent or persons with reduced sensory, physical or mental capabilities. Furthermore, it must not be carried out by persons who, despite the aforementioned capacity, have not had adequate training on use and maintenance, or who - in any case - have not read this manual in its entirety.



- Do not place clothes or linen on the product, neither dry nor wet. - **Fire hazard;**
- Any combustible or heat-sensitive material (e.g., sofas, tables, chairs, curtains, etc.) must be kept at a safe distance from the product (see the table in the "Safety distances" chapter for further information) - **Fire hazard.**
- Do not place the drying rack in front of the generator at a distance lower than that indicated in the "Safety distances" chapter - **Fire hazard.**
- While in operation, the product's fireplace door must always be closed;
- The product must be electrically connected to a system equipped with an effective earthing system;
- Do not touch the generator if you are barefoot and/or with wet and/or damp parts of the body;
- Do not pull, disconnect, or twist the electric cables connected to the product - where present - even if disconnected from the power grid, and avoid contact with hot parts and/or smoke outlet;
- The product can be installed in a suitable room with a minimum volume of 50 m³.
- For the non-airtight product, it is prohibited to install the product in bedrooms, bathrooms, toilets and studio apartments;
- It is prohibited to install the product in environments with explosive atmosphere, places exposed to fire hazard, warehouses of combustible materials.

- Installation in rooms for which there is no heating/ not to be heated is not permitted;
- Check the product for any clogging before using it following a long period of non-use.

1.6 LEGAL WARRANTY

In order to enforce the legal guarantee, the user must scrupulously observe the instructions indicated in this manual. In particular, the user must:

- always operate within the limits of use of the product;
- carry out routine maintenance in due time;
- authorize use to people of proven ability, aptitude and adequately trained for the purpose;
- use original spare parts specific for the product model.

It is also necessary to provide the following:

- fiscal receipt proving the date of purchase;
- certificate of conformity of the installation, issued by authorized staff.

Failure to comply with the instructions contained in this manual will result in immediate forfeiture of the warranty, both of the product and of any spare parts fitted at a later time.

1.7 WARRANTY EXCLUSIONS

All malfunctions and/or damage to the appliance due to the following causes are excluded from the warranty:

- damage caused by transport and/or handling;
- negligence, careless use, improper maintenance, or installation which does not comply with the manufacturer's specifications (always refer to this manual);
- further damages caused by wrong interventions by the user in an attempt to remedy the initial malfunctioning;
- increased damage caused by further use of the appliance by the user once the defect has occurred;
- damage deriving from using the product as a chafing dish;
- inefficiency of chimneys, flues, or parts of the system on which the appliance depends and which generate condensate;
- damage caused by tampering, atmospheric agents, natural disasters, acts of vandalism, electric shocks, fires, defects in the electrical and/or hydraulic system;
- damage caused by prolonged excessive fuel load (see the paragraph "Wood features" for more information).

The following are also excluded from the product warranty:

- parts subject to normal wear and tear such as gaskets, glasses, coverings and cast-iron grids, painted, chromed or gilded details, handles, electric cables, lamps, ignition resistors, lights, knobs, and all parts that can be removed from the fireplace (e.g., refractory panels, brazier) and/or directly exposed to fire;
- colour changes in the paint of ceramic parts, as well as cracks of the ceramic, as they are natural features of the material and naturally deriving from normal use;
- masonry;
- other system details (if any) not supplied by the manufacturer.

Any technical interventions aimed at restoring the product must be agreed with the Authorized Technical Assistance Centre, which reserves the right to accept the assignment or not. Technical interventions are subject to fees according to the rates in force.

Moreover, any expenses needed for remedying incorrect technical interventions, tampering or, in any case, factors harmful to the appliance and not attributable to manufacturing defects will also be charged to the user.

Without prejudice to the limits imposed by laws or regulations, any guarantee of containment of atmospheric and noise pollution is also excluded.

1.8 SPARE PARTS

Use only original spare parts.

Do not wait for components to wear out before replacing them.

In the event of product malfunction, this helps to prevent accidents caused to people, animals or things.

To replace spare parts, consumables, and to carry out extraordinary maintenance, it is recommended to contact an authorized technician.

1.9 IDENTIFICATION PLATE

An identification plate, to be found on the back of the product, shows all the product technical information, including the Manufacturer's data, serial number and CE marking.

1.10 PRODUCT DISPOSAL

Responsibility for the demolition and disposal of the product is borne solely by the owners, who must act in compliance with the laws in force in their country with regard to safety and environmental protection.

At the end of its useful life, the product must not be disposed of together with municipal waste.

It can be delivered to the local separate waste collection centres provided by the municipal administrations, or to the retailers providing such service.

Disposing of the product through separate waste collection helps to avoid possible negative consequences for both environment and health which can derive from inappropriate disposal. This also allows the recycling of materials and obtain significant savings in terms of energy and resources.

1.11 HERMETIC PRODUCT

The products built with a perfectly air-tight structure do not consume room oxygen, as they take the air from outside the building (if properly installed) and can, therefore, be placed inside all houses with a high degree of insulation, such as "passive houses" or highly energy-efficient. Thanks to such technology, there is no risk of smoke emissions into the environment and, therefore, there is no need for ventilation grids.

Hermetic products can also be installed in the presence of forced ventilation or in rooms where pressure can be lower if compared to the outside.

2 WOOD FEATURES

Permitted fuels: wood logs. Only dry wood logs (max. water content: 20%) must be used. It is recommended to employ a maximum load of 2-3 wood logs. Also, the logs must be approx. 20-30 cm long and have a maximum diameter of 30-35 cm.

The combustion chamber max. dimensions are:
width 32 cm.
height 45 cm.
depth 35 cm.

Use these dimensions as a reference to purchase wood logs no larger than 33 cm. It is recommended to use long-lasting essences such as beech, oak or elm. *Avoid very aromatic essences or essences with high content of resin (myrtaceae, eucalyptus, pine, fir) which can cause problems, even serious ones, to the product.*

Suggested fuel: BEECHWOOD

- calorific value: about 4.6 kWh/kg;
- ideal humidity level: from 15% to 20%;
- maximum log length: 33 cm.



Wood logs must be stored in a dry and not excessively cold place. It is also advisable to keep a quantity of wood logs sufficient for 2/3 days of operation in the room where the product is used, so as to allow any moisture present to dry out. Neglecting this aspect will result in lower thermal potential of the fuel and, as a consequence more maintenance to be carried out.

Be careful when using pressed logs as they have a high calorific value: there is a risk of overheating, which could damage the product.

Prohibited fuels

We recommend not to use the following fuels, as they could be harmful to health and environment, thus **invalidating the warranty**:

- very damp wood
- treated wood (chipboard, lacquered, varnished, glued, etc.)
- treated paper and cardboard (varnished, oiled, impregnated kitchen paper, etc.)
- woodworking residues, such as shavings and/or sawdust
- liquid fuels
- coal and other fossil derivatives
- rubbish, plastic and/or - more generally - anything that releases toxic and polluting substances through combustion.
- Fruit pits, pomace, corn, shells, mixtures of the above with wood pellets, pellets NOT produced with sawdust only.

The declared technical data have been obtained using class A1 beech essence (in compliance with UNI EN ISO 17225-5) and humidity lower than 20%. Using other essences could lead to the need for specific adjustments and could cause the product to obtain different yields.

3 INSTALLATION



Installation and use must take place in compliance with all the respective ISO, EN, UNI reference standards in force and pursuant local and national laws.

Product installation and its connection to both the flue and heating systems must be carried out by a qualified technician, according to the laws in force (in Italy, e.g., see Ministerial Decree 37/08 and subsequent amendments, and Legislative Decree 28/11 and subsequent amendments).



The manufacturer is not liable for any claim for compensation for damages due to installation which does not comply with the technical standards and all the legislative provisions in force, or for installation carried out non-competent and non-authorized persons, as indicated in the previous paragraph.

3.1 INSTALLATION ROOM

- Product position (before assembly) must be chosen according to the following: installation environment; presence of a suitable flue or its possibility to build one; presence of a compliant electrical system; according to the presence of an aerulic or hydraulic system (if applicable); the possibility to have direct, indirect ventilation or air ducting (if applicable).
- The room must be suitable for installation (see also the technical standards in force, e.g., UNI10683). It must not be: a room exposed to the risk of fire, a potentially dangerous room, a deposit of combustible material, a non-heatable room (should the appliance heat the installation room).
- Evaluate the attic/floor capacity before placing the product. If the existing construction does not meet this requirement, appropriate measures should be taken (e.g., installing a load distribution plate). It is recommended to consult a professional on the subject.
- The installation room must have a minimum volume of 50 m³
- Minimum safety distances for fire prevention must be taken into consideration when installing the appliance in the room. In the presence of combustible materials and/or heat-sensitive materials (furniture, curtains, sofas, wooden walls and surfaces, building insulation, etc.) adjacent to the generator, minimum free space must be observed as per values shown in the relevant table of the "Safety distances" chapter.
- The installation of the appliance must take into consideration any presence of other heat generators or suction systems (e.g., hoods, extractor fans, etc.) for the following purposes:
 - summation of the powers, for fire-prevention purposes;
 - possible coexistence, e.g., with non-airtight gas- and/or diesel-fuelled appliances (see technical standard UNI10683). Remember that it is forbidden to install non-airtight biomass appliances in rooms connected with other premises where there is a type A or type B gas or diesel generator;
 - suitability assessment of the direct and/or indirect room ventilation system to serve the suction systems and appliances installed;
- The installer must analyse the technical

specifications of the appliance to verify its compatibility with the energy requirements of the room(s) served and the coexistence with any other appliances.

3.2 VENTILATION - AMBIENT AIR INTAKE

- The installation room of non-hermetic appliances must be sufficiently ventilated with special openings, with particular attention to their position, which has to ensure air to recirculate. Remember that non-hermetic appliances feed the fire by consuming the oxygen present in the installation room.
- Ventilation is considered sufficient when the room is equipped with air intakes according to the table:

APPLIANCE CATEGORY	REFERENCE STANDARD	% NET CROSS-SECTION COMPARED TO STOVE SMOKE OUTLET CROSS-SECTION	VENT. DUCT OPENING MIN. NET VALUE
Fireplaces	UNI EN 13229	50%	200 cm ²
Stoves	UNI EN 13240	50%	100 cm ²
Cookers	UNI EN 12815	50%	100 cm ²

- If the ventilation intake is made in an adjacent room directly connected with the outside, the hole between the ventilation room and the installation room must be doubled at each passage (see UNI10683). The hole to the external environment must be equal to what is prescribed in the previous point. Pay attention to any other suction systems to prevent that negative pressure occurs in the ventilation room and/or installation room.
- The maximum pressure difference allowed between the outside and the installation room is always and in any case 4Pa (that is, room negative pressure).
- Ventilation air for the installation rooms cannot be taken from rooms exposed to the risk of fire, e.g., garages, bedrooms, bathrooms and toilets, shared premises.
- Combustion air cannot be drawn from crawl spaces, or from less than half a metre from the return/delivery vents of the crawl spaces.
- Ventilation holes can be closed with grids as long as they do not reduce their useful section, and do not hinder ordinary maintenance operations.
- The ventilation inlets must NEVER be obstructed by any type of material, not even partially, which could jeopardize the occupants' health.
- The ventilation outlets must comply with the relevant technical standards and any current local and national regulations, specifically with regard to their section, position, type and characteristics.
- Ventilation holes are not made necessary in the case of installation of airtight appliances (which are equipped with their specific ventilation duct).
- In the presence of a CMV system (Controlled Mechanical Ventilation), installation with

combustion air drawn from the installation room is not permitted - see the "Ventilation ducting" chapter;

- The manufacturer is not liable for any claim for compensation for damages due to non-compliant installation of the ventilation outlets with respect to the above, and to the technical standards and all the legislative provisions in force.

3.2.1 VENTILATION DUCTING

- To channel combustion air from the outside to a traditional appliance or, in case of airtight installation (hermetic appliance), it is necessary to install a ventilation duct.
- The ventilation duct must have a section equal to or greater than the combustion air connection of the appliance.
- The ventilation duct must have the same section along its entire length. Narrowing the duct is only allowed at the generator inlet;
- The ventilation ducts and relative grids must comply with the technical standards and any current local and national regulations, specifically with regard to their section, position, type and characteristics.
- The manufacturer is not liable for any claim for compensation for damages due to non-compliant installation of the ventilation ducts with respect to the above, and to the technical standards and all the legislative provisions in force.
- In the presence of a CMV system (Controlled Mechanical Ventilation) the installation of hermetic appliances or appliances with a closed fireplace is permitted as long as combustion air is drawn directly from the outside via a ventilation duct.

3.3 SMOKE CHANNEL AND FITTINGS

The term "smoke duct" refers to the set of pipes and elements connecting the appliance to the chimney/flue to convey the products of combustion towards the outside.

Smoke ducts are very important sections that must be installed correctly for the whole system to work correctly.

- All smoke ducts must be sized using a thermo-fluid dynamic calculation, in compliance with EN13384-1;
- Smoke ducts must be installed in compliance with Technical Standard UNI10683;
- Metal ducts must comply with Product Standard EN1856-2;
- The sub-horizontal sections must have a minimum upward slope of 3%;
- The length of the sub-horizontal section must be minimal and its floor projection must not exceed

2 metres;

- There cannot be more than 3 changes in direction, including that of the chimney/flue connection and, in the case of appliances with rear outlet, excluding the T-joint or bend at the generator connection. Changes in direction must not have an angle greater than 90° (bends of max. 45° are recommended);
- The section diameter must be constant or greater from the fireplace outlet to its connection with the flue;
- It is prohibited to use flexible metal pipes, even non-telescopic ones;
- The smoke duct for appliances equipped with a smoke fan must ensure the seal of the combustion products and have the seal class at minimum pressure P1;
- In any case, the smoke ducts must seal any combustion products and condensate, as well as be insulated if they present sections extending outside the installation room;



- With regard to the smoke duct, it is necessary to create a first vertical section, at least 1 metre long, to guarantee proper fume discharge;
- The smoke ducts must not cross rooms in which the installation of combustion appliances is prohibited, rooms at risk of fire, fireproof rooms, rooms exposed to a specific risk of fire, or non-inspectable spaces;
- The smoke duct must maintain, throughout its length, safety distances from flammable materials as per specifications given by the smoke duct manufacturer.
- It is prohibited to install manual draft adjustment devices on forced draft appliances;
- It is necessary to provide the sampling point for both draft measurement and fume analysis, as per standards UNI10683 and UNI10389-2.

mechanical stress, it must have suitable resistance to corrosion caused by solid fuels, and be properly insulated to avoid condensation (i.e., thermal insulation);

- The flue must be predominantly vertical and free of bottlenecks along its length;



- Be properly spaced by air gap and isolated from flammable materials. In the case of installation of a composite chimney, to verify surface temperatures for fire-prevention purposes, the thermal calculation must be performed in compliance with EN15287;

- If a chimney system is installed, safety distances from flammable materials must be assessed as per the product designation given in the CE marking, in the DoP and on the chimney plate;

- Changes of direction must be max. 2 and with an angle not exceeding 45°;

- The flue inside the house must in any case be insulated, and can be inserted in a shaft, provided that it complies with the regulations relating to ducting;

- The smoke duct must be connected to the flue by means of a "T" fitting equipped with an inspectable collection chamber (necessary for collecting combustion residue and, above all, condensate);

- The chimney/flue must expel smoke above the roof, as required by the standard UNI10683.



- It is prohibited to connect the appliance to a fireplace/flue shared with other appliances or in the presence of extractor hoods or other aspirators. Collective flues are not permitted. It is forbidden to expel exhaust directly from the wall or into closed spaces, or in any other way not envisaged by the legislation in force in the country of installation (e.g., in Italy, only roof outlet is permitted).

- It is possible to use the air from the interspace of the chimney stack, in compliance with the provisions of UNI10683;

- In case of multiple ducting, avoid mutual interference and pay attention to the pressures, distances and coexistence of the various ducts, in compliance with standard UNI10683;

- In case of wet operation, set up the condensate drainage system by scrupulously following the provisions set by standard UNI10683;

3.4 FIREPLACE/FLUE

The term chimney/flue refers to the section of the smoke exhaust system going from the connection to the generator or smoke duct up to the roof.

When building the chimney/flue, the following requirements must be applied:

- Metal ducts must comply with product standard EN 1856-1;
- All chimneys/flues must be sized using a thermo-fluid dynamic calculation, pursuant EN13384-1.
- Chimneys/flues must be installed according to technical standard UNI10683. Both chimney systems and internal flue ducts are permitted.
- Operation under positive pressure is not permitted. Chimney systems and internal flue ducts must operate with negative pressure with respect to the environment, as per product technical data sheet.
- The flue must be made with suitable materials to guarantee resistance to normal thermal and

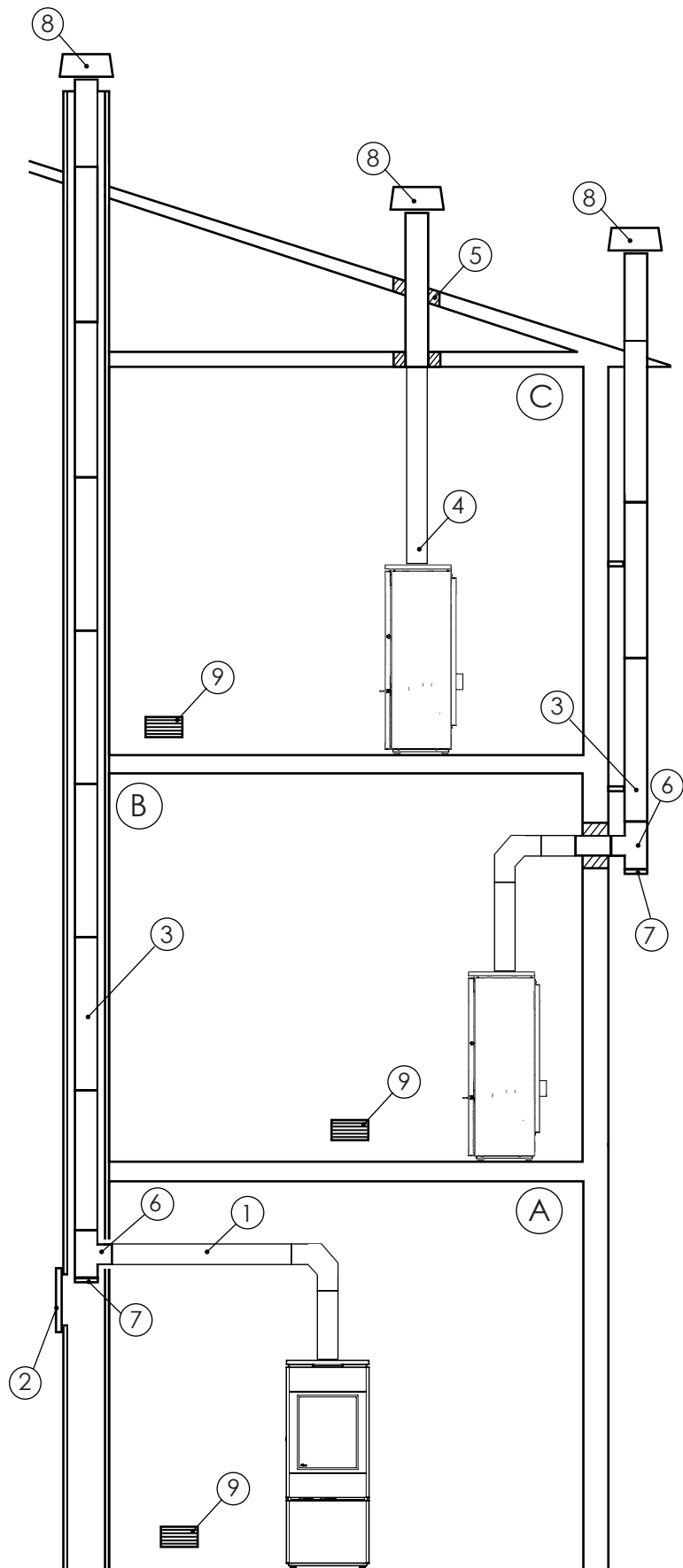
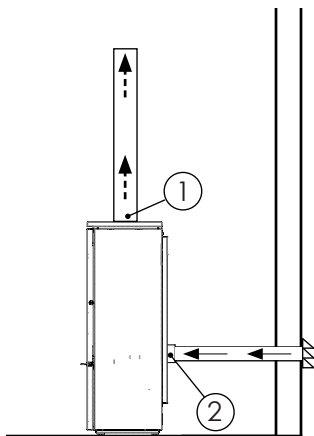
3.5 CHIMNEY TOP

UNI10683 prescribes that the chimney pot must comply with the following requirements:

- The smoke outlet section must be at least double if compared to the internal section of the chimney;
- It must be shaped in such a way as to prevent water or snow from penetrating;
- A windproof cap must be provided to ensure proper smoke outlet even in case of wind;
- The smoke outlet level (which is measured between the lower side of the roof covering and the lower point of the fume outlet section) must be outside the reflux area;
- It must always be placed away from antennas or satellite dishes, and must never be employed to support other objects;
- It must ensure regular maintenance;
- It must be installed at a safe distance from other chimneys, or obstacles with and without openings (e.g., doors, windows, dormer windows, skylights, etc.), in compliance with UNI10683.

3.6 HERMETIC PRODUCT INSTALLATION

In case of hermetic products, you can follow the example below: fume exhaust (1) and recovery of combustion air directly from the outside (2).



3.7 EXAMPLES OF PROPER INSTALLATION

Always refer to the standard UNI 10683 when product installation has to be carried out by a qualified professional, who is required to issue the INSTALLATION CERTIFICATE OF CONFORMITY on the whole Italian territory. Examples: (A) horizontal section needed for connection to an existing flue. Observe a minimum upward slope (3-5%) to reduce the quantity of ash deposit in the horizontal section of the pipe - which must not exceed 2m (1). The existing flue must be inspectable (2).

The installation of the product (B) requires an insulated flue (3), as the entire smoke pipe has been mounted outside the building.

Example (C) shows a single-wall smoke duct (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 flue pipe itself, paying attention to the possible contact with the material crossed, as is the case with:

- if in contact with concrete, bricks, etc.;
 - if in contact with wood, composite materials, etc.
- In both cases, insert a suitable roof passage (5) between the flue and the attic.

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 drilled on the wall.

In the lower part of the flue pipe, 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 flue, for all 3 examples, a windproof chimney pot (8) has been mounted. 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.

3.8 DOCUMENTS TO BE ISSUED

After installation, the installer must hand over to the user the following:

- use and maintenance manual of the appliance (supplied by the manufacturer);
- technical documents of the accessories used and subject to maintenance;
- the documentation relevant to the evacuation system of combustion products;
- System booklet;
- the documentation certifying installation and functional test;

The useful documentation for the installer's 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);
- any other relevant information useful for warranty purposes;
- date and signature of the installation technician;

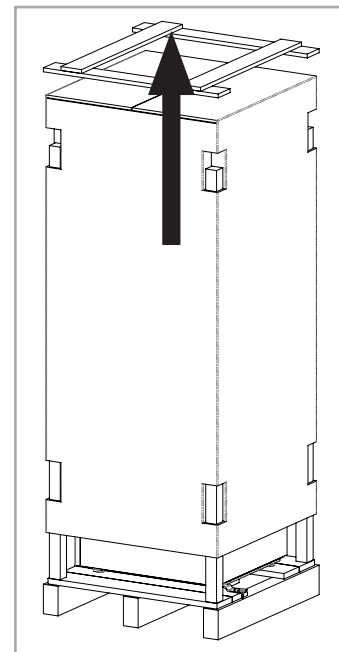


NOBIS SRL cannot be held liable in the event of non-compliance with any installation and startup standards.

3.9 UNPACKING THE PRODUCT

The packaging is composed of boxes in recyclable cardboard, according to 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.

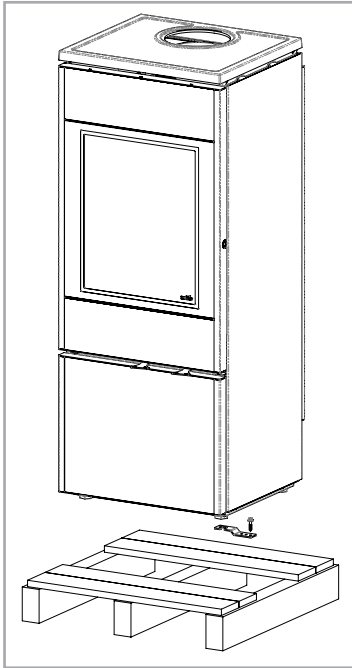
Cut the strap binding the pallet to the packaging and lift the cardboard; remove the plastic bag around the product, ensuring it is intact.



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 impacts which would compromise their integrity.

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



To remove the appliance 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.

3.10 FUME EXHAUST ASSEMBLY

Below you will find the instructions for proper installation of the smoke outlet, which can be upper (standard installation) or rear.

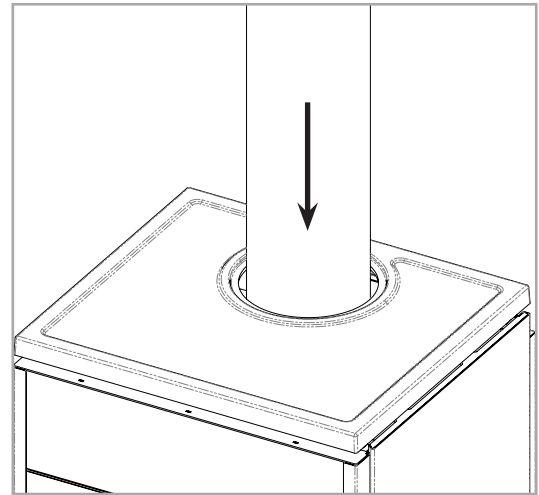


This chapter also deals with non-standard installation options. Pipes for non-standard installations are not provided and have to be purchased from your trusted dealer/assistance centre.



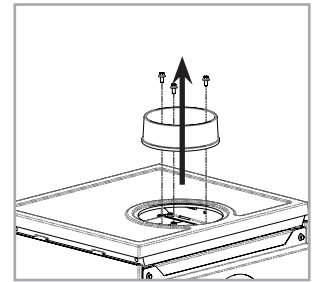
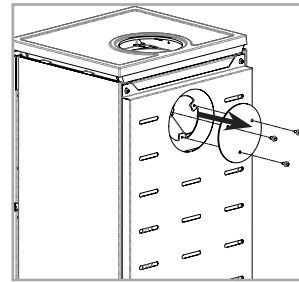
Installation, disassembly/reassembly of the appliance must be carried out by qualified personnel authorized by Nobis Srl. Please note that opening the appliance by unauthorized personnel will invalidate the product warranty.

UPPER CONNECTION

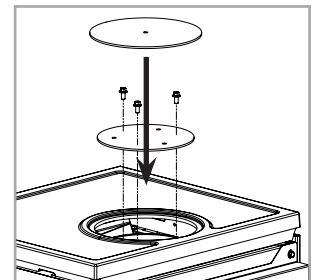
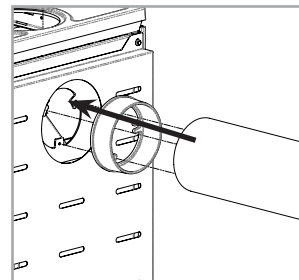


ATTENTION TO THE SECTION OF THE SMOKE DUCT WHICH MUST WITHSTAND TEMPERATURES THAT CAN EASILY REACH 600°C. NEGATIVE PRESSURE IN THE SMOKE EXHAUST SYSTEM MUST RESPECT THE VALUE OF 11Pa.

REAR CONNECTION



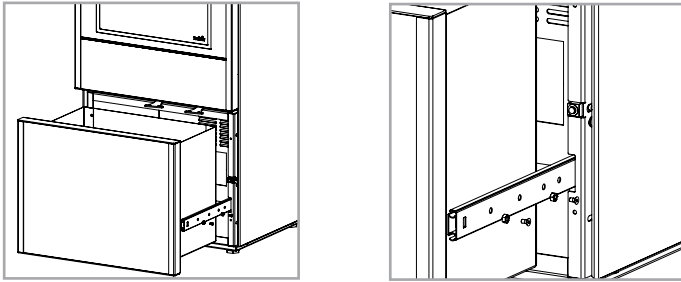
Remove the rear pre-drilled hole to gain access and remove the cap, unscrewing the 3 screws with the size 8 hex key. Repeat the operation to remove the cast-iron collar fixed to the product head.



With the 3 M5 screws, fix the collar where the cap was previously removed and connect the horizontal section of the smoke duct; Fix the cap on the head of the product in correspondence with the hole (previously opened in the "upper outlet" configuration) and place the aesthetic covering panel, supplied as accessory.

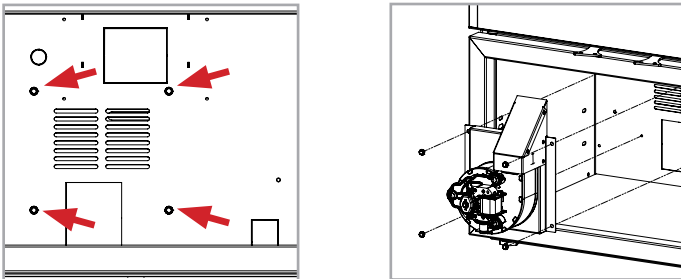
3.11 VENTILATION/CANALIZATION KIT

The installation of the ventilation kit (or the **optional** canalization kit) is illustrated below with the relative disassembly/reassembly diagram of the appliance covering panel.

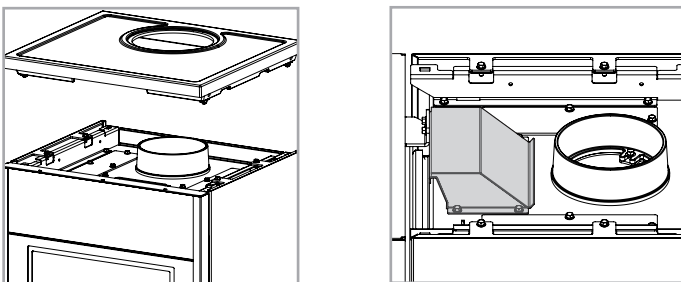


For models equipped with drawer, it is necessary to remove the drawer before installing the kit by acting on its rails with the 2.5 wrench (M4 screws).

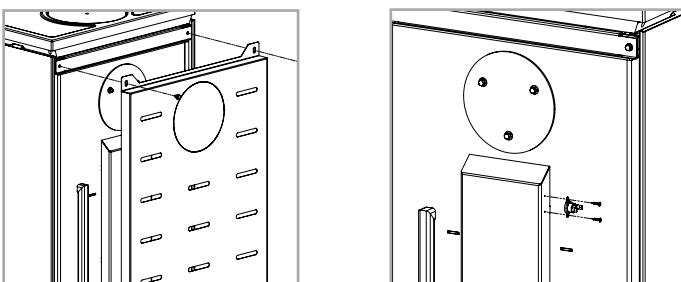
INSTALLATION OF THE VENTILATION KIT



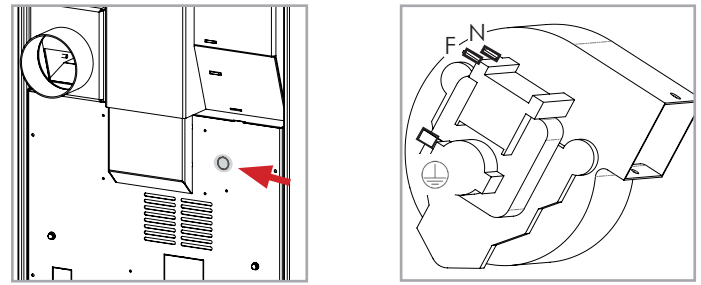
Following the holes (see arrows), fix the ventilation kit to the internal rear plate with a size 8 key (M5 screws).



Lift the cast-iron top cover and fix the air conveyor with the size 8 key (M5 screws).

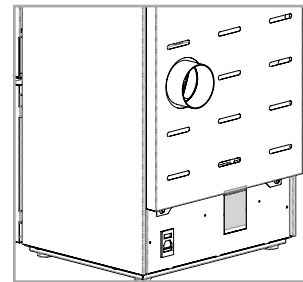


Remove the rear side with the size 8 key (M5 screws), take the contact thermostat from the kit box and connect it to the side of the air duct using a Phillips screwdriver.

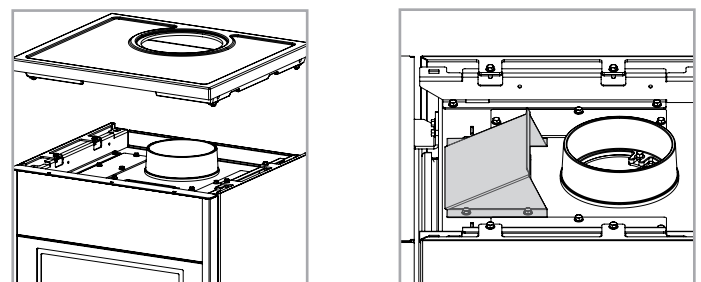
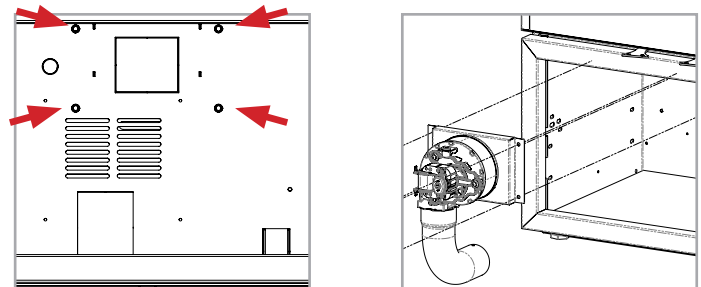


Remove the pre-drilled grid to allow the wiring to pass from the contact thermostat to the air fan (see wiring diagram at the end of the manual for further details).

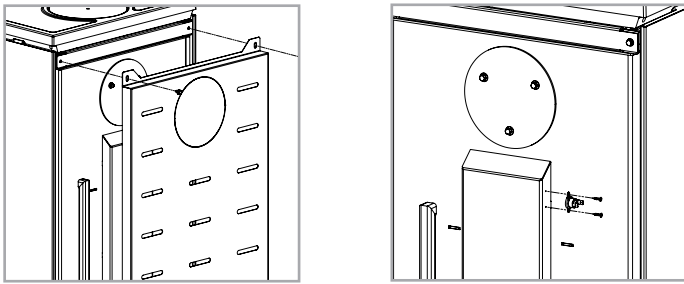
INSTALLATION OF THE CANALIZATION KIT



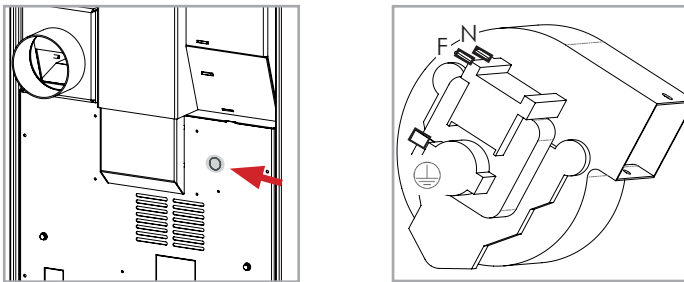
Remove the pre-drilled hole on the back of the product and, following the hole pattern (see arrows), fix the ducting kit to the internal rear plate with a size 8 spanner (M5 screws).



Lift the cast iron top and fix the air conveyor with the size-8 key (M5 screws).



Remove the rear side with the size 8 key (M5 screws), take the contact thermostat from the kit box and connect it to the side of the air duct using a Phillips screwdriver.



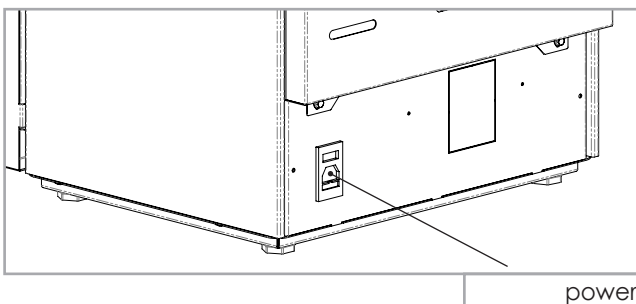
Remove the pre-drilled grid to allow the wiring to pass from the contact thermostat to the air fan (see wiring diagram at the end of the manual for further details).

3.12 ELECTRICAL CONNECTION

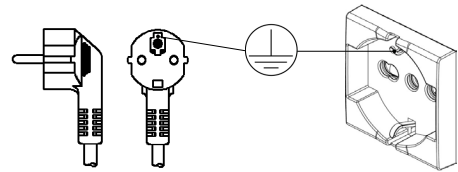
The product power cord must be connected only after the installation and assembly of the product have been carried out. The cord must not enter in contact with hot parts and must remain accessible even after installation.

To plug in the product, proceed as follows:

- connect the power cord to the back of the appliance;
- connect the plug of the power cable to the wall socket.



It is mandatory that the system is equipped with both earthing and differential switch, as per the laws in force. Also, make sure that the socket is compatible with the type of plug on the power cord used.



4 TESTING AND MAINTENANCE

Testing and maintenance operations, with the exception of ordinary cleaning (see related section in this manual), must be carried out by an authorized technician. Before carrying out any operation on the product, take the following precautions:

- all parts of the product must be "cold";
- make sure that there is no form of combustion (e.g., ash and embers still hot);
- dump the ash into a metal container;
- always use protective devices;

4.1 TESTING AND START-UP

Before starting up the product make sure to test proper functioning of the following elements: connection to the smoke exhaust system; check that all the materials for the construction of the smoke duct, flue and chimney pot are compliant with the law and fit for use. The test is successful only when all the operating parts have been verified without detecting anomalies.

4.2 CHIMNEY SYSTEM MAINTENANCE

The flue pipe must always be clean, as deposits of soot or unburned residues can clog its section, thus reducing draft and compromising proper functioning of the product. Moreover, if present in large quantities, they can catch fire. It is mandatory to have the flue and chimney pot cleaned and checked by a qualified chimney sweep at least once a year or after a prolonged inactivity. At the end of the check/maintenance, get a report certifying that the system is safe.

Neglecting to clean the product jeopardizes the safety of the system.

4.3 PRODUCT MAINTENANCE

To be done at least once a year. During maintenance, the authorized technician will have to:

- carry out a complete and thorough cleaning of the smoke duct;
- reassemble the appliance in all its parts;

- check the tightness of all seals and gaskets;
- check proper functioning and combustion.

The data shown are indicative and not binding. Also, they may vary depending on the type of wood used. The manufacturer reserves the right to make any modifications to improve the performance of the products.

5 PRODUCT TECHNICAL DATA

This chapter provides the end user with all the information relating to the technical data of the product: overall dimensions, installation dimensions and minimum mandatory distances to be kept from walls, furniture and any flammable objects that can be found in the premises where the product is installed.

5.1 PRODUCT DETAILS

PRODUCT DETAILS		
EU 2015/1186		
Brand	Nobis	
Model	FLAT/ZENITH/ CLASSIC 8KW	FLAT/ZENITH/ CLASSIC 10KW
Energy efficiency class	A+	A+
Direct heating output (kW)	7.2	8.8
Indirect heating output (kW)	-	-
Energy efficiency index	113	115
Useful efficiency (rated pwr. %)	85	86.1
Please observe the warnings, installation procedures and guidelines for regular maintenance contained in this manual.		

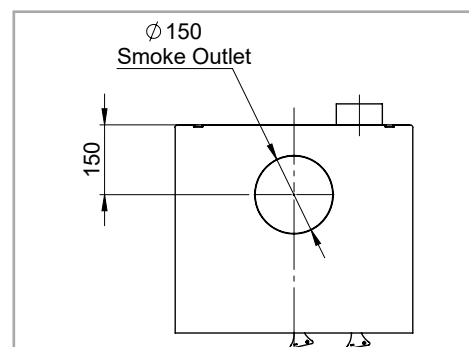
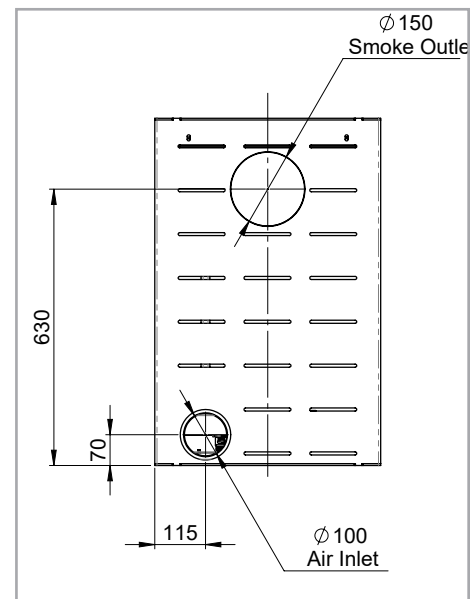
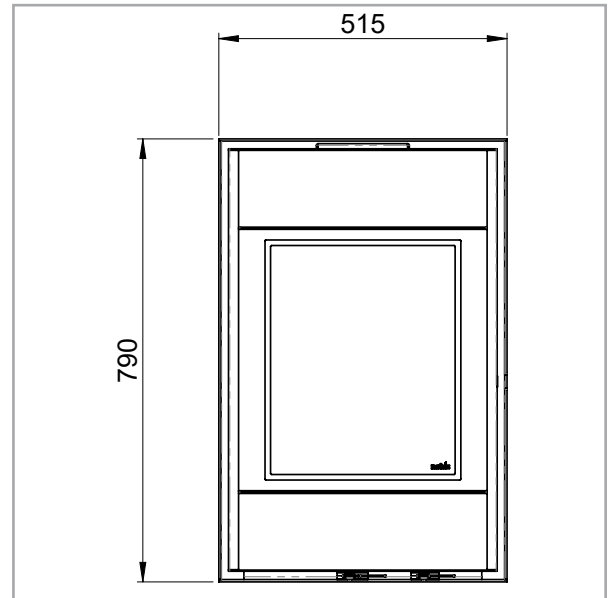
5.2 TECHNICAL FEATURES

Model	FLAT/ZENITH/CLASSIC 8KW	FLAT/ZENITH/CLASSIC 10KW
Weight (Kg)	165	
Ø air inlet (mm)	100	
Ø smoke outlet pipe (mm)	150	
Heating max. vol.* (m ³)	177	216
Input power (kW)	8.5	10.2
Output power (kW)	7.2	8.8
Yield (%)	85	86.1
CO with 13% of O ₂ (mg/m ³)	610	455
Wood hourly consumption (kg/h)	1.98	2.41
Exhaust gas flow (g/s)	9.1	8.8
Min. draft (Pa)	12	11
Smoke temperature (°C)	189	194

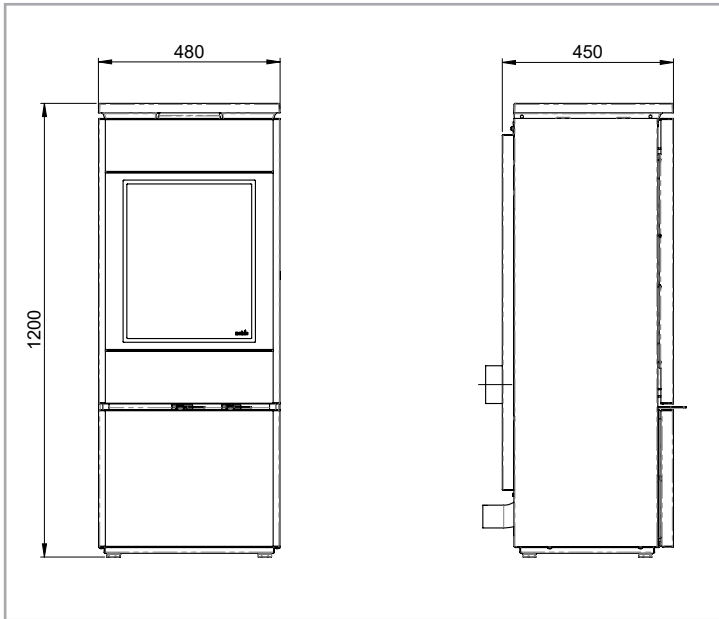
* this value may vary from the type of energy class of the house and from the type of wood used.

5.3 PRODUCT DIMENSIONS

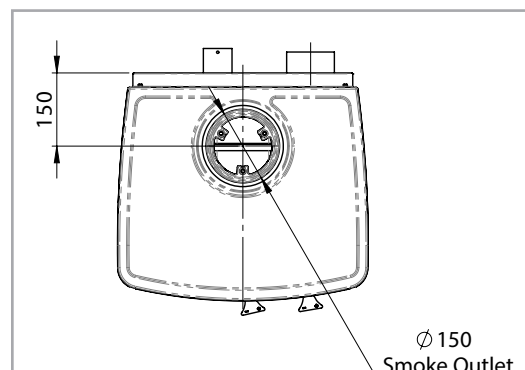
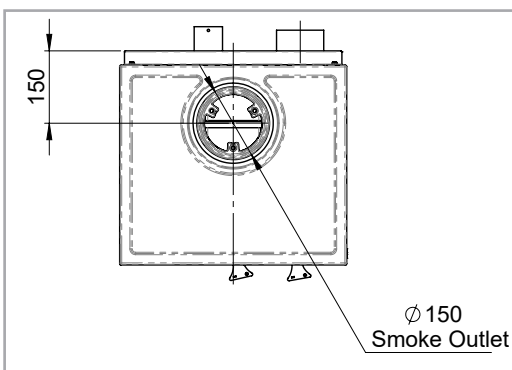
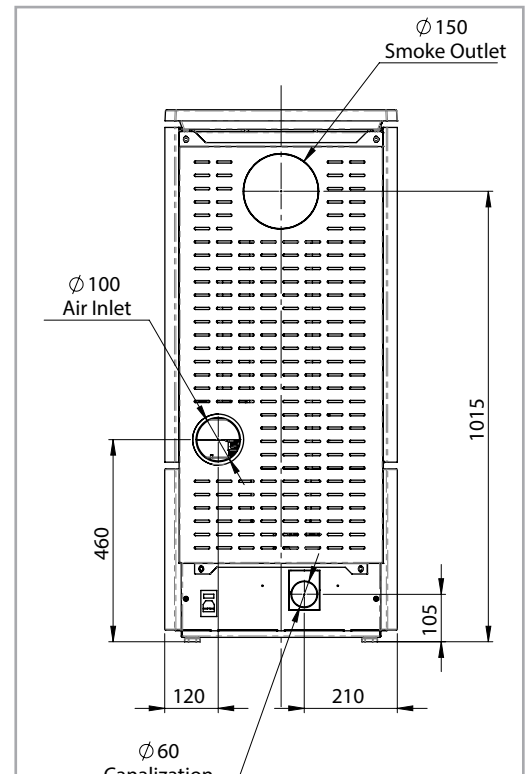
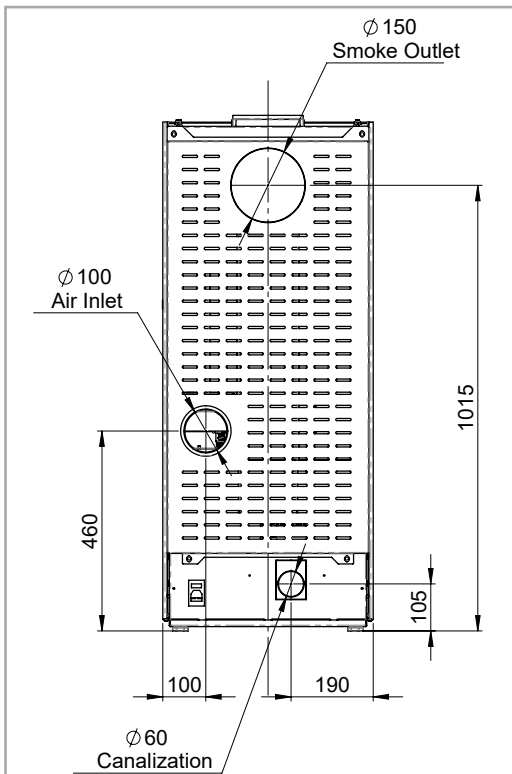
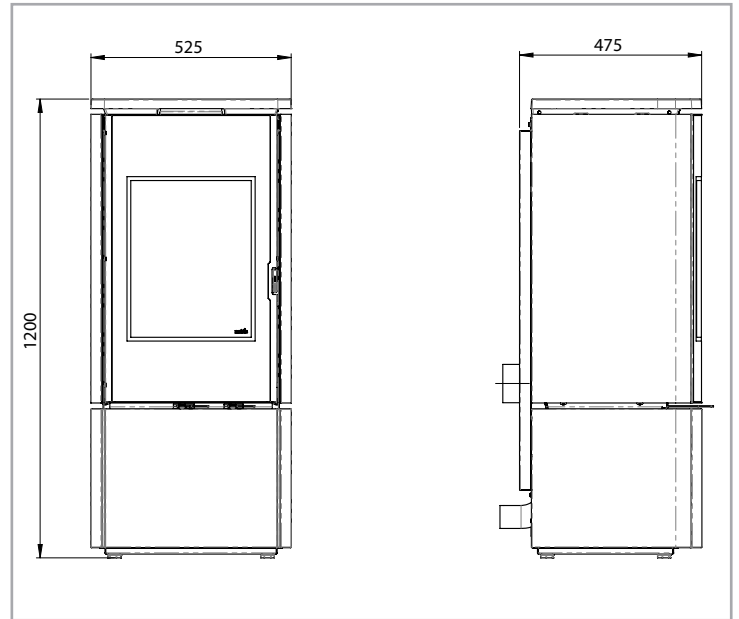
FLAT 100



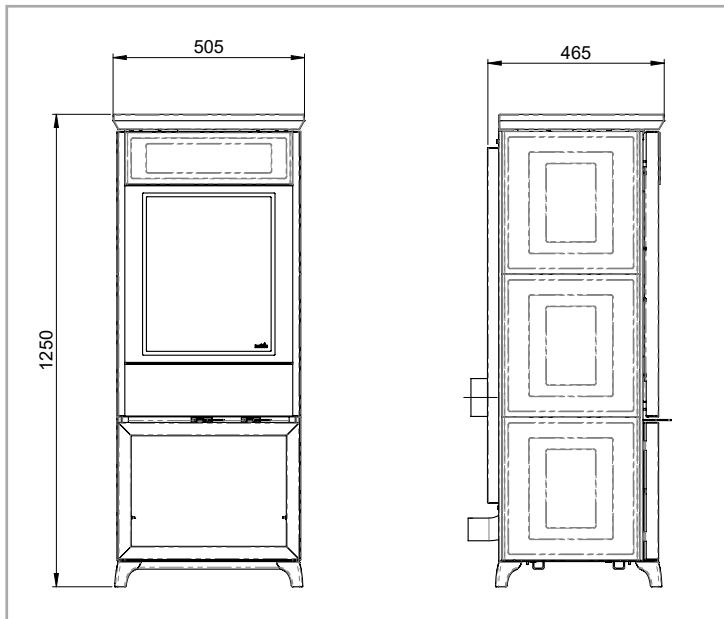
FLAT



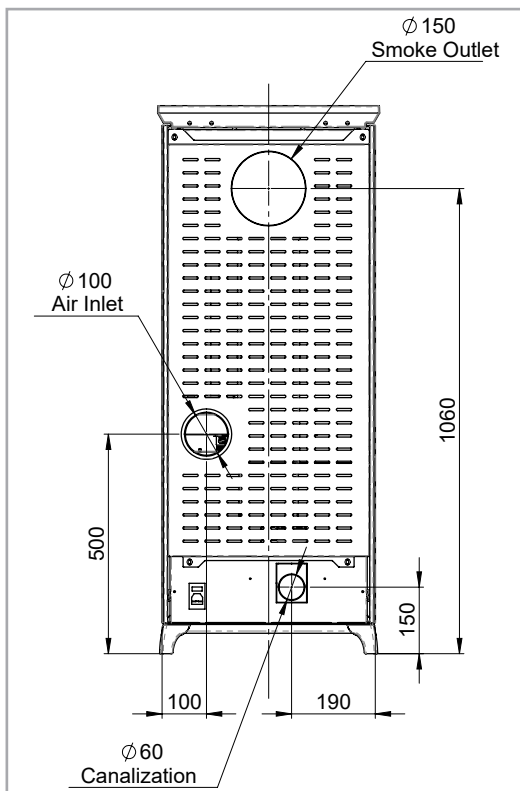
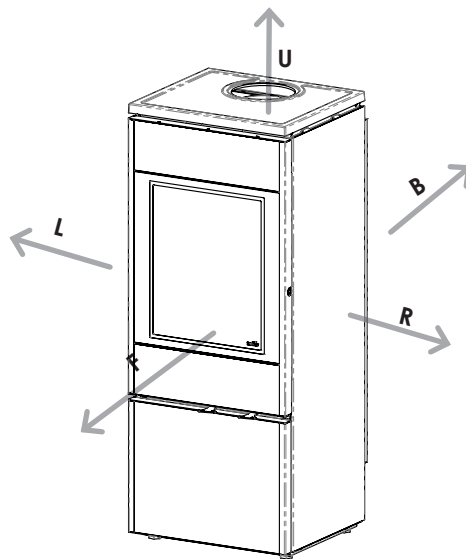
ZENITH



CLASSIC



5.4 SAFETY DISTANCES



Minimal distance from flammable materials		
R	Right	400 mm
L	Left	400 mm
B	Back	250 mm
F	Front side	800 mm
U	Upper side	800 mm



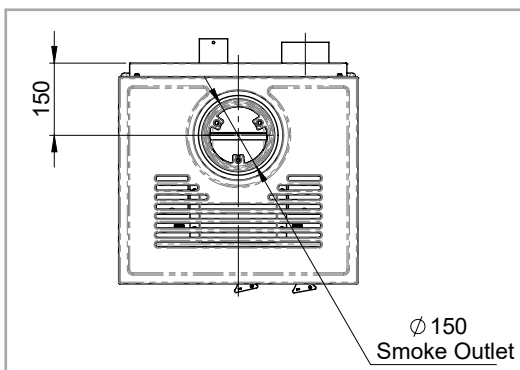
6 OPERATING PROCEDURES

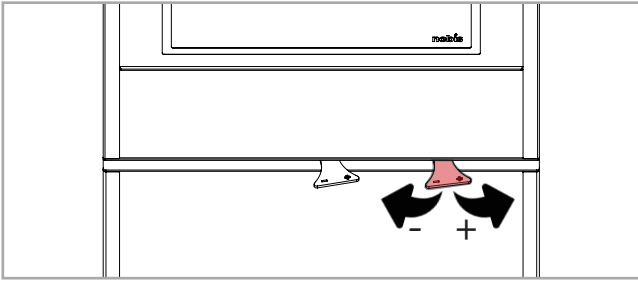
This chapter shows how to best operate the product: ignition and optimal combustion adjustments.

6.1 COMMAND FUNCTIONS

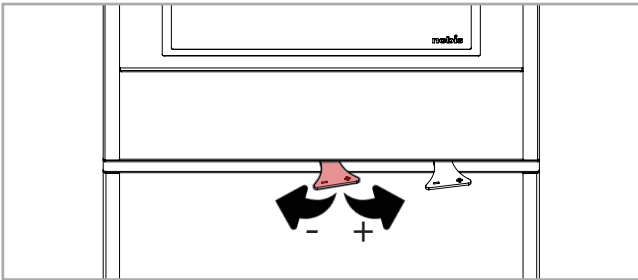
The air supply for combustion is controlled by two valves which are operated by special control handles.

The control handle on the right of the product controls the primary air flow, which is used to light the flame and for combustion when the wood is denser. During ignition the combustion chamber needs to get as much air as possible, i.e., the lever has to be fully turned to the right (+). When combustion has propagated completely, the primary air intake can be delicately closed by sliding the lever (-) to the left.





The central handle controls secondary air and is used to adjust combustion when the stove is running. Secondary air is fully open when the handle is turned to the right (+), while it decreases when the handle is moved to the left (-).



To verify proper combustion, check the colour of the flame. If the flame tends to darken, generating soot in the combustion chamber and black puffs of smoke, this is an indicator of bad combustion due to lack of air. It will therefore be necessary to add secondary air by turning the central lever to the right (+) to improve combustion. Please also note that the logs must measure max. 33cm in length and no more than 8cm in diameter; wood humidity must be less than 18-20%.

6.2 PRODUCT SWITCH-ON

This chapter highlights a series of operations to be carried out when switching on the appliance for the first time.



When the product is switched on for the first time, unpleasant odours or fumes may be generated due to the evaporation or drying of some of the materials used. Such phenomenon will disappear after a few hours of use. During this period, it is advisable to keep the premises well ventilated.

Below is the sequence of operations to be performed to optimize the product start-up:

1. Clean the combustion grate, removing any residues left from previous use. If necessary, empty the ash drawer.
2. Adjust both the primary and secondary air levers so that they are set to the right (+);
3. Prepare a multi-level ignition module on the grate as follows:
 - 4 dry logs crossed on 2 levels, about 25-30 cm long and weighing about 0.5 kg each;

- 2 levels of thin pieces of firewood (about 20-25 cm long) to ignite the flame, as shown in the figure



4. Place the natural firelighter (flame) on top of the ignition module.
5. Close the door of the combustion chamber.



Do not overload the appliance. The tertiary air holes on the back of the combustion chamber must never be blocked. Exceeding the recommended refill quantities may damage product, thus voiding the warranty. An excessive load, will result in poor combustion and will lead to excessive smoke temperatures, which can damage the product, the smoke duct and flue.



All the external surfaces of the product reach high temperatures. Take precautions if you have to touch the surfaces of the appliance.

It is recommended to keep the two combustion air handles open for the entire duration of the first load (after ignition) to bring both the combustion chamber and the smoke duct up to temperature, and to prevent the flame from extinguishing.



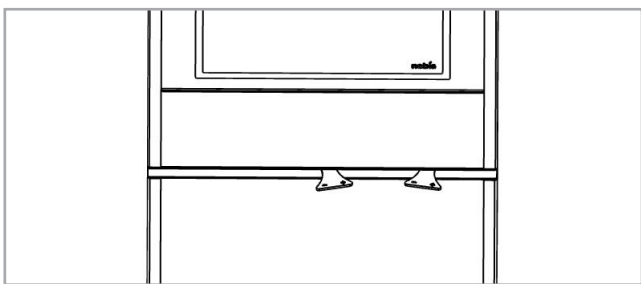
When the stove is running and - above all - during the heating and cooling phases, ticking noises may be heard. These are due to thermal expansion/contraction of the materials due to changes in temperature throughout operation.

During operation, do not use the product with the fire door open. The fire door can be opened only for the time needed to load the wood. To avoid excessive leakage of combustion smoke into the room, it is recommended to open the door slowly.

6.3 COMBUSTION ADJUSTMENTS

Once both the combustion chamber and of the entire flue pipe has reached the right temperature, the primary air handle can be adjusted to optimize combustion performance. The combustion rate and, therefore, the thermal power generated, is regulated both by the quantity of wood in the combustion chamber and primary air. A flame that is too fast decreases the duration of the wood and lowers the yield of the product, therefore, during operation, the primary air must close and combustion must be adjusted by acting on the secondary air.

Maximum performance can be obtained by loading two 250 mm logs of beech wood for a total weight of 2 kg. Primary air fully closed and secondary air open as shown in the figure.



Combustion is efficient and "clean" when the flame looks pale yellow. If the flame tends towards red, or if you notice black smoke in the combustion chamber, turn the handle in the middle to slightly increase secondary air.

To learn how to adjust combustion correctly, an initial period of use is required.



When fuel is added above the embers in the absence of flame, a large amount of smoke could develop. In such event, an explosive mixture of gas and air could form which - in extreme cases - could result in an explosion. For safety reasons, it is advisable to carry out a new ignition procedure using small strips.

7 PRODUCT CLEANING



To ensure easy access to the appliance and the flue, remember to leave enough room to carry out cleaning and maintenance operations when installing the product.



For proper cleaning, please follow the instructions below carefully. Non-compliance with the following instructions could cause malfunctioning.

Take the following precautions before carrying out any cleaning operation:

- Make sure all parts of the appliance are cool to the touch;
- Make sure the ash is completely extinguished and cool to the touch;
- Always be properly equipped when you carry out maintenance;
- After maintenance, reinstall all the removed parts, in the same way, before putting the product back into service.

Use a wet rag moisturised with water and soap to clean painted metal surfaces.

The use of harsh detergents or thinners will damage to the product surfaces.



The quality of the firewood, the way the stove is used and the combustion adjustment settings can influence the frequency of maintenance interventions.

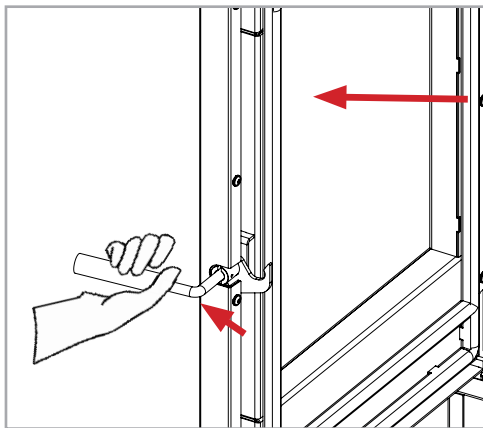
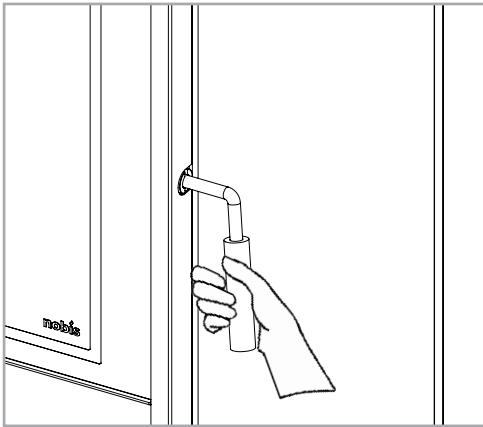
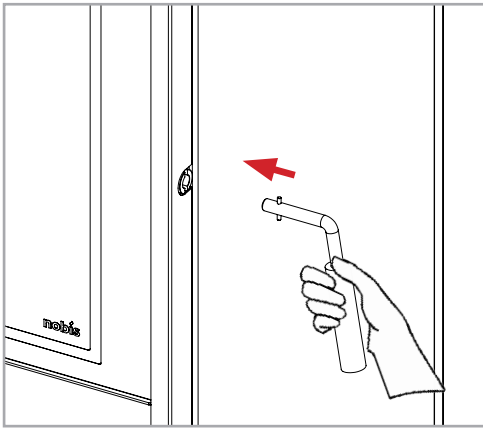
7.1 CLEANING THE FIRE COMPARTMENT AND DRAWER

Open the door using the specific tool and:

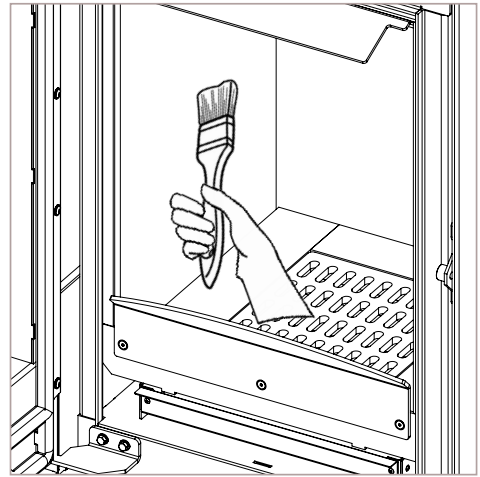
- Vacuum the residues present in the combustion chamber with a suitable ash vacuum cleaner, making sure that the ash is completely extinguished;
- Vermiculite does not require cleaning. In any case, if you intend to remove soot particles, use only a soft brush.

OPERATING PROCEDURE:

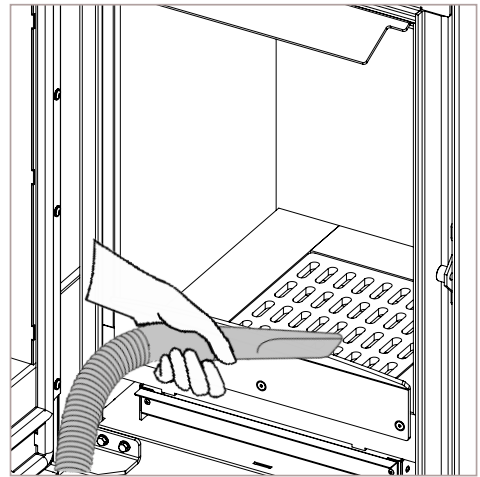
To open the door, use the specific handle supplied with the product by inserting it in its housing, as illustrated below.



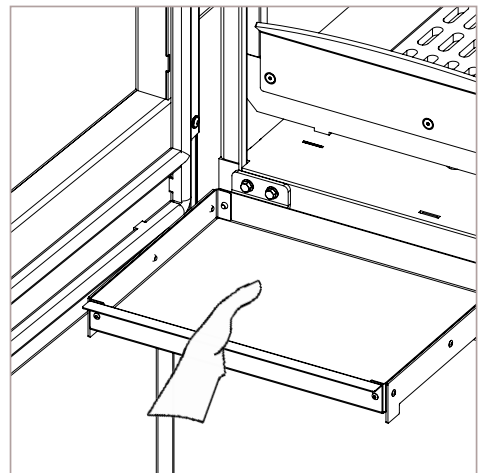
With a soft brush, remove the combustion dust, dumping it onto the underlying surface.



Vacuum the firewood support surface, taking care not to hit the vermiculite with the nozzle of the vacuum cleaner.



Extract the drawer under the grate of the combustion chamber and empty it, paying close attention for the ash could still be incandescent.



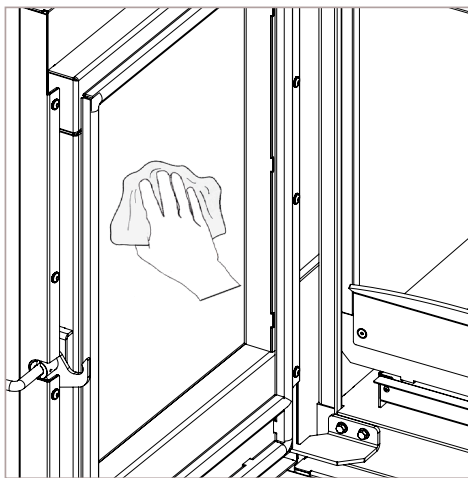
7.2 CLEANING THE GLASS

Use a cotton cloth or a kitchen towel to clean the glass. It is recommended to clean the glass using a cloth dampened with water and combustion ash (which has an abrasive function), avoiding the use of detergent additives which could, over time, deteriorate seals, glass and paint.



Do not turn on the appliance if you notice any damage to the glass. Contact the Service Centre for replacement.

OPERATING PROCEDURE:
Clean with a cotton cloth as shown in the following figure:



CLEANING CYCLE TABLE

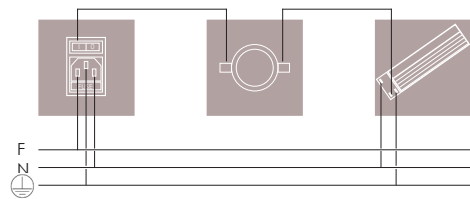
The control and/or maintenance interventions indispensable for the correct functioning of the appliance are summarized below.

PARTS	FREQUENCY
Ash drawer (suggested period)	1 DD
Glass	2-3 DD
Combustion chamber	1 DD
Door gasket*	1 SE
Chimney*	1 SE
Internal smoke duct*	1 SE

KEY:

* - operations to be carried out by a manufacturer-approved technician;
DD - days
SE - season

8 WIRING DIAGRAM



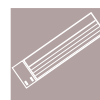
KEY:



POWER SWITCH
VOLT: ~ 220V



CONTACT THERMAL SWITCH



ROOM FAN



NOBIS Srl

Via Palazzolo, 11
25037 - Pontoglio - BS
www.nobisfire.it

Nobis Srl cannot be held, in any way, liable for any errors in this manual and considers itself free to change the features of its products without prior notice.

Code 110-002-0033N_S1