



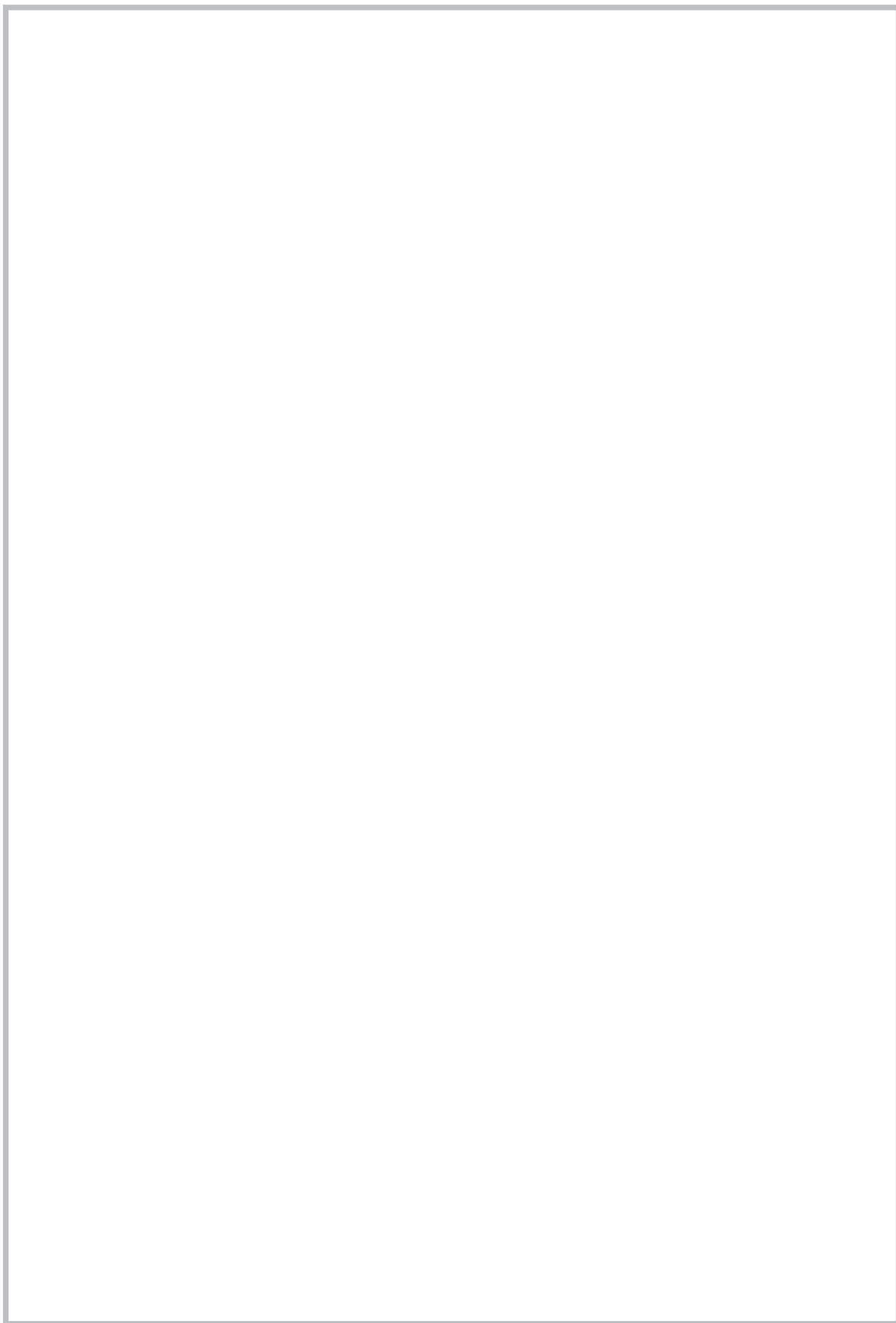
Riscalda la vita.



WOOD PRODUCTS USER MANUAL

MADE IN ITALY
design & production

MONOBLOCCO 3LC.165





ATTENTION

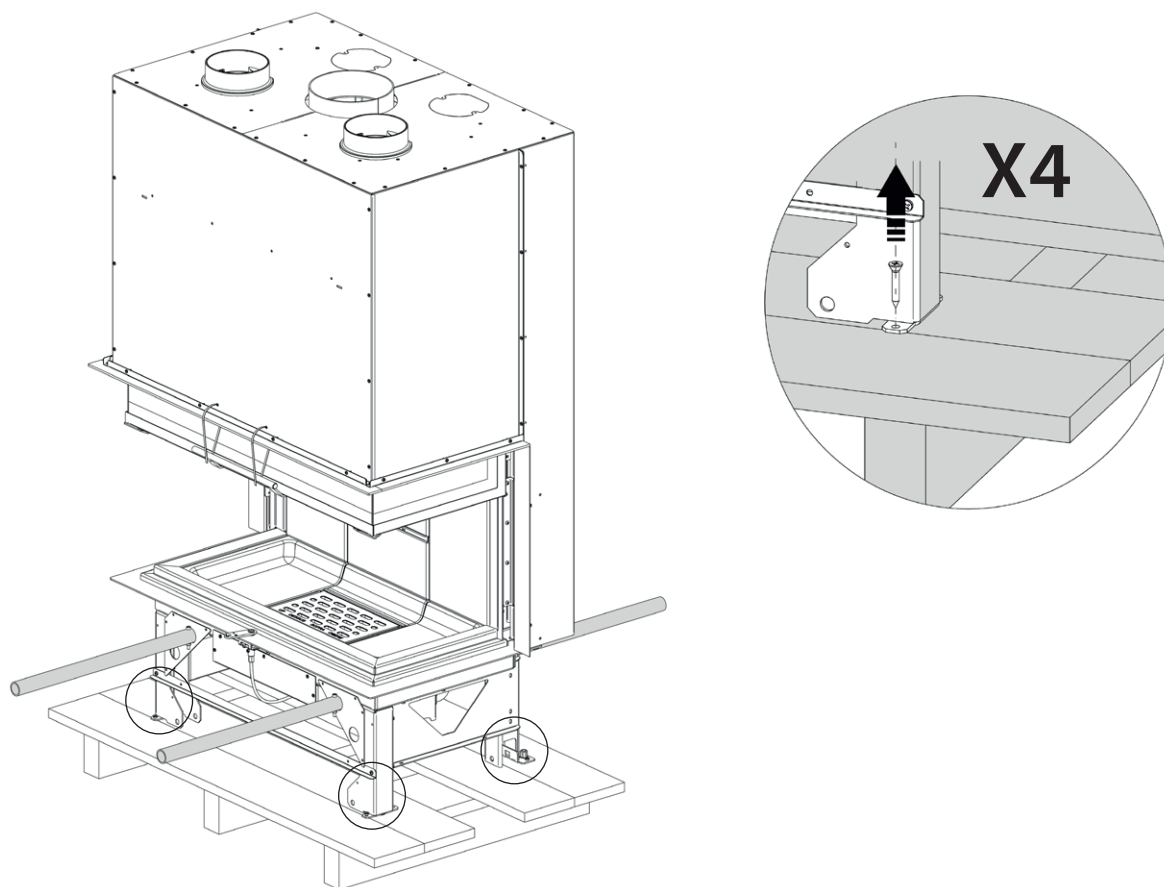


**SURFACES CAN BECOME VERY HOT!
ALWAYS USE PROTECTIVE GLOVES!**

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

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INSTALLAZIONE - INSTALLATION - INSTALLATION - L'INSTALLATION - LA INSTALACIÓN



Per facilitare la movimentazione del Monoblocco sono stati previsti dei fori nella base delle gambe per l'utilizzo di eventuali tubi rotondi. I tubi dovranno avere un diametro da 1" (33.7mm) e uno spessore di 3.2 mm.

To facilitate the handling of the Unit, there are some holes in the base of the legs to use round tubes. The tubes must have a diameter of 1" (33.7mm) and a thickness of 3.2 mm.

Um die Handhabung des Monoblocks zu erleichtern, wurden an der Basis der Füße Löcher für die Verwendung beliebiger Rundrohre vorgesehen. Die Rohre müssen einen Durchmesser von 1" (33,7 mm) und eine Dicke von 3,2 mm haben.

Pour faciliter le déplacement du Monobloc, des trous ont été prévus dans les pieds pour utiliser, si nécessaire, des tubes ronds. Les tubes devront avoir un diamètre d'1" (33.7mm) et une épaisseur de 3.2 mm.

Para facilitar el desplazamiento del Monobloque, se han previsto orificios en la base de las patas para el uso de eventuales tubos redondos. Los tubos deberán tener un diámetro de 1" (33.7mm) y un espesor de 3.2 mm.

AVVERTENZA: NEL MOVIMENTARE IL MONOBLOCCO FARE MOLTA ATTENZIONE A NON RIBALTARLO.

WARNING: WHEN MOVING THE UNIT, TAKE GREAT CARE NOT TO TIP IT OVER.

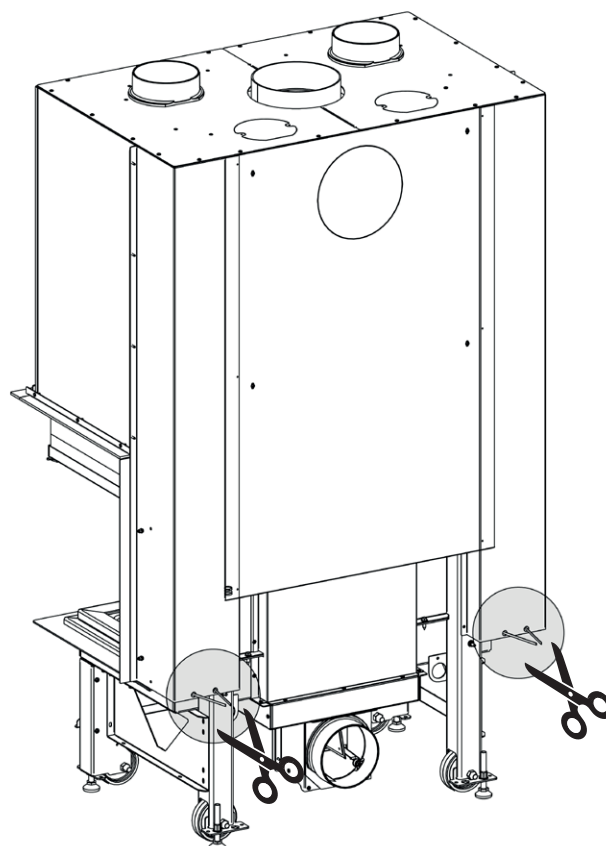
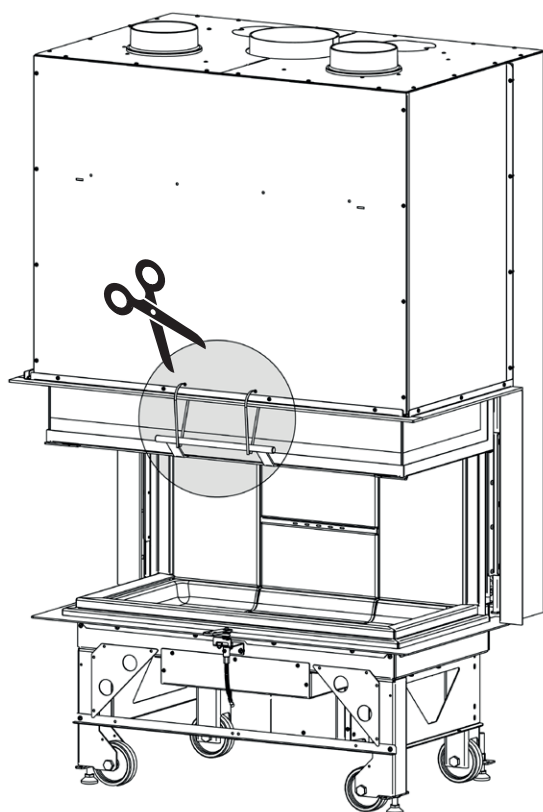
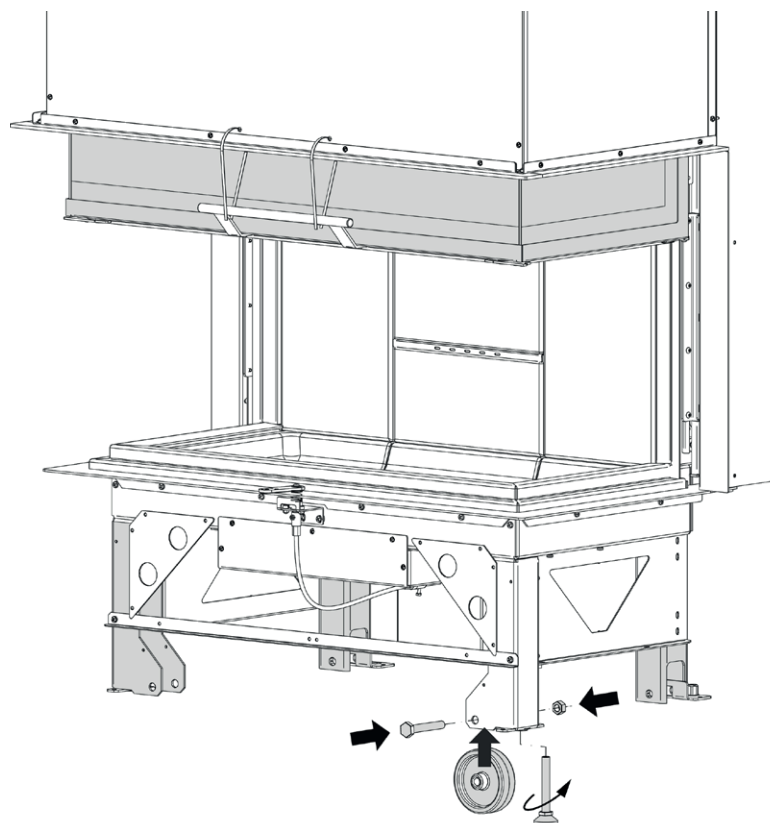
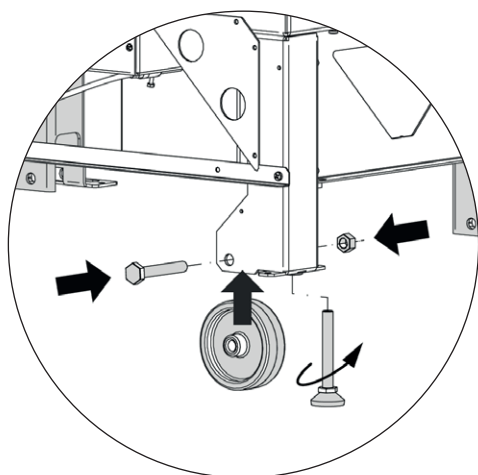


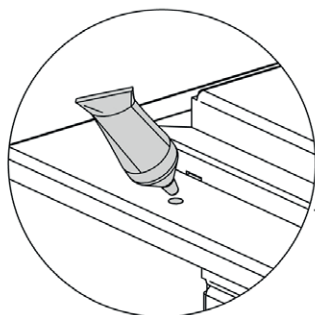
WARNHINWEIS: BEI DER BEWEGUNG DES MONOBLOCKS MÜSSEN SIE SEHR BEHUTSAM VORGEHEN, DAMIT ER NICHT UMKIPPT.

AVERTISSEMENT : LORS DU DÉPLACEMENT DU MONOBLOC, FAIRE TRÈS ATTENTION À NE PAS LE RENVERSER.

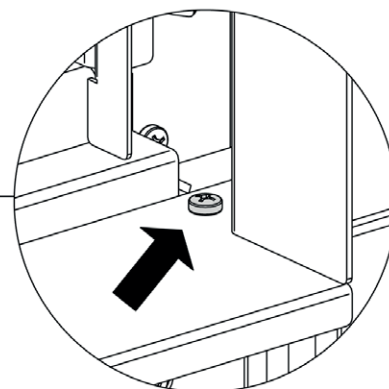
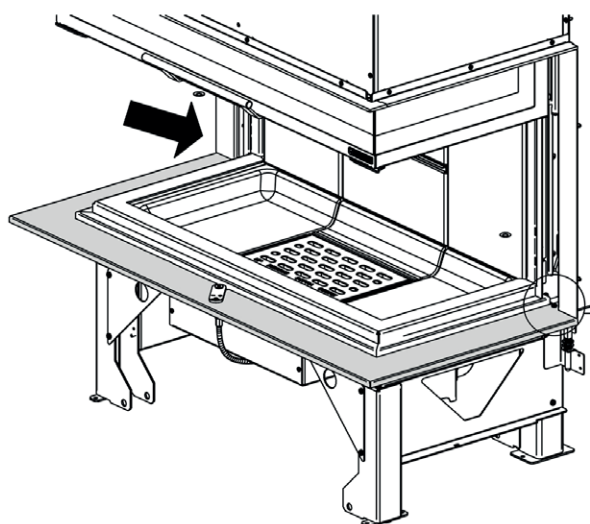
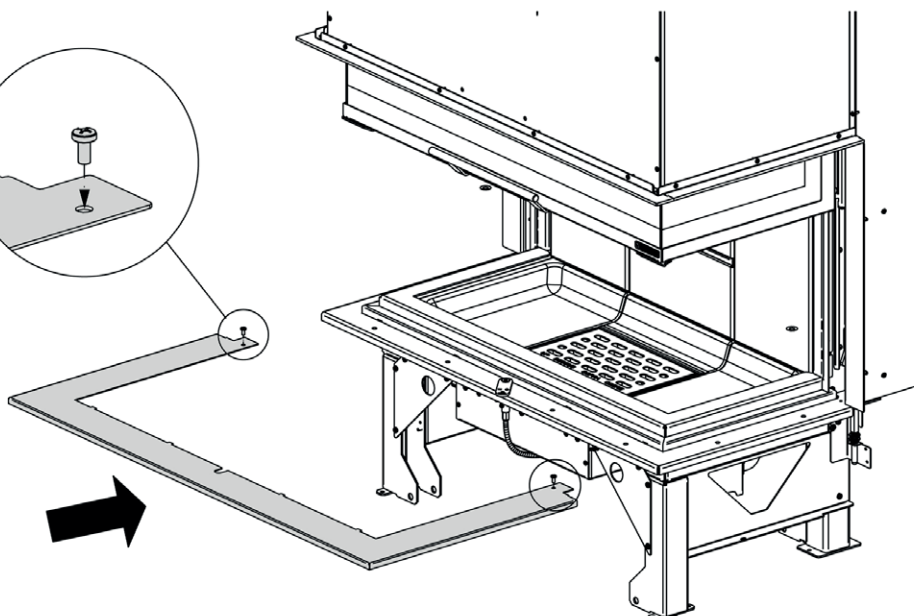
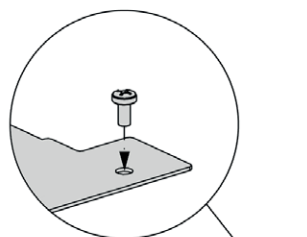
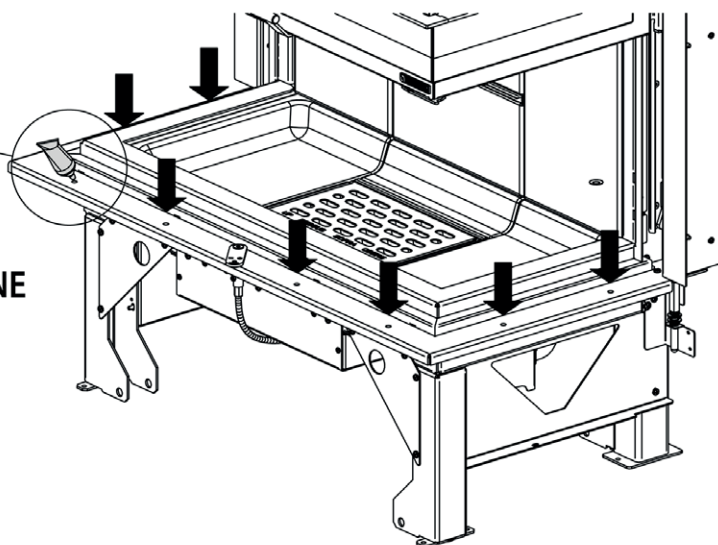
ADVERTENCIA: AL MOVER EL MONOBLOQUE PRESTAR ATENCIÓN A NO VOLCARLO.

X4





HIGH TEMPERATURE SILICONE



MANUFACTURER'S DECLARATION OF CONFORMITY

SUBJECT: ABSENCE OF ASBESTOS AND CADMIUM

IT IS HEREBY DECLARED THAT ALL APPLIANCES ARE ASSEMBLED USING MATERIALS THAT DO NOT CONTAIN ASBESTOS OR ASBESTOS DERIVATIVES AND THAT CADMIUM IS NOT PRESENT OR USED IN ANY FORM IN THE FILLER MATERIAL USED FOR WELDING, IN FULL COMPLIANCE WITH THE RELEVANT STANDARD.

SUBJECT: REGULATION EC No. 1935/2004

IT IS HEREBY DECLARED THAT IN ALL APPLIANCES WE MANUFACTURE, THE MATERIALS INTENDED TO COME INTO CONTACT WITH FOOD ARE SUITABLE FOR FOOD USE, IN COMPLIANCE WITH THE REFERENCED CE REGULATION.

GENERAL NOTICES

LA NORDICA S.p.A's LIABILITY IS LIMITED TO THE SUPPLY OF THE APPLIANCE.

THE INSTALLATION MUST BE CARRIED OUT IN COMPLIANCE WITH INDUSTRY BEST PRACTICES, IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THESE INSTRUCTIONS AND PROFESSIONAL STANDARDS, BY QUALIFIED PERSONNEL ACTING ON BEHALF OF COMPANIES CAPABLE OF ASSUMING FULL RESPONSIBILITY FOR THE ENTIRE SYSTEM.

LA NORDICA S.p.A. IS NOT RESPONSIBLE FOR ANY UNAUTHORISED MODIFICATIONS TO THE PRODUCT, NOR FOR THE USE OF NON-ORIGINAL SPARE PARTS.

This appliance is not suitable for use by individuals (including children) with reduced physical, sensory or mental capabilities, or those lacking experience and knowledge, unless they are supervised and instructed in the use of the appliance by a responsible person ensuring their safety. Children must be supervised to ensure they do not play with the appliance (EN 60335-2-102 / 7.12).

IT IS MANDATORY TO COMPLY WITH NATIONAL AND EUROPEAN STANDARDS, AS WELL AS LOCAL BUILDING REGULATIONS AND FIRE SAFETY REGULATIONS.



NO MODIFICATIONS TO THE APPLIANCE ARE PERMITTED. LA NORDICA S.P.A. DISCLAIMS ALL LIABILITY FOR ANY FAILURE TO OBSERVE THESE PRECAUTIONS.

THIS INSTRUCTION MANUAL FORMS AN INTEGRAL PART OF THE PRODUCT. ENSURE THAT IT REMAINS WITH THE APPLIANCE AT ALL TIMES, EVEN IN THE EVENT OF SALE, TRANSFER TO ANOTHER OWNER OR USER, OR RELOCATION TO ANOTHER PREMISES. IF IT IS LOST OR DAMAGED, REQUEST A REPLACEMENT FROM YOUR LOCAL TECHNICAL SERVICE PROVIDER. THIS PRODUCT MUST BE USED ONLY FOR ITS EXPRESSLY INTENDED PURPOSE. THE MANUFACTURER ACCEPTS NO CONTRACTUAL OR EXTRA-CONTRACTUAL LIABILITY FOR DAMAGES TO PERSONS, ANIMALS, OR PROPERTY CAUSED BY INCORRECT INSTALLATION, IMPROPER ADJUSTMENT OR MAINTENANCE, AND MISUSE OF THE APPLIANCE.

INSTALLATION MUST BE CARRIED OUT BY QUALIFIED AND AUTHORISED PERSONNEL, WHO WILL ASSUME FULL RESPONSIBILITY FOR THE FINAL INSTALLATION AND PROPER OPERATION OF THE PRODUCT. ALL NATIONAL, REGIONAL, PROVINCIAL AND LOCAL LAWS AND REGULATIONS IN THE COUNTRY WHERE THE APPLIANCE IS INSTALLED, AS WELL AS THE INSTRUCTIONS IN THIS MANUAL, MUST BE CONSIDERED.

THE USE OF THE APPLIANCE MUST COMPLY WITH ALL LOCAL, REGIONAL, NATIONAL AND EUROPEAN REGULATIONS. THE MANUFACTURER ACCEPTS NO LIABILITY IF THESE PRECAUTIONS ARE NOT FOLLOWED.

AFTER UNPACKING, CHECK FOR ANY DAMAGE OR MISSING PARTS. IF THE APPLIANCE DOES NOT MEET EXPECTATIONS, CONTACT THE RETAILER WHERE IT WAS PURCHASED.

ALL ELECTRICAL COMPONENTS (WHERE PRESENT) COMPRISING THE PRODUCT, AND WHICH ARE ESSENTIAL FOR ITS PROPER FUNCTIONING, MUST ONLY BE REPLACED WITH ORIGINAL SPARE PARTS BY AN AUTHORISED TECHNICAL SERVICE CENTRE.

SAFETY

- ♦ **THIS APPLIANCE MAY BE USED BY CHILDREN AGED 8 AND ABOVE, AS WELL AS INDIVIDUALS WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR THOSE WITHOUT EXPERIENCE OR KNOWLEDGE, PROVIDED THEY ARE SUPERVISED OR HAVE RECEIVED INSTRUCTIONS ON THE SAFE USE OF THE APPLIANCE AND**

UNDERSTAND THE POTENTIAL HAZARDS. CHILDREN MUST BE SUPERVISED TO ENSURE THEY DO NOT PLAY WITH THE APPLIANCE. CLEANING AND MAINTENANCE INTENDED TO BE PERFORMED BY THE USER MUST NOT BE CARRIED OUT BY CHILDREN WITHOUT SUPERVISION.

- ♦ **DO NOT TOUCH THE HEATER WITH BARE FEET OR WITH WET OR DAMP BODY PARTS.**
- ♦ **MODIFICATIONS TO THE APPLIANCE ARE STRICTLY PROHIBITED.**
- ♦ **DO NOT PULL, DISCONNECT OR TWIST THE ELECTRICAL CABLES PROTRUDING FROM THE APPLIANCE (IF PRESENT), EVEN WHEN THE UNIT IS UNPLUGGED.**
- ♦ **ENSURE THAT THE POWER CORD (IF PRESENT) IS POSITIONED SO THAT IT DOES NOT COME INTO CONTACT WITH HOT PARTS OF THE APPLIANCE.**
- ♦ **THE POWER PLUG MUST REMAIN ACCESSIBLE AFTER INSTALLATION.**
- ♦ **DO NOT CLOSE OR REDUCE THE SIZE OF THE AIRING VENTS IN THE INSTALLATION SITE, AS THESE ARE ESSENTIAL FOR PROPER COMBUSTION.**
- ♦ **DO NOT LEAVE PACKAGING ITEMS WITHIN REACH OF CHILDREN OR UNASSISTED INCAPACITATED PERSONS.**
- ♦ **THE COMBUSTION CHAMBER DOOR MUST ALWAYS REMAIN CLOSED DURING OPERATION AND SHOULD ONLY BE OPENED FOR FUEL LOADING, IGNITION AND CLEANING.**
- ♦ **WHEN THE APPLIANCE IS IN OPERATION, ALL EXTERNAL SURFACES BECOME HOT, THEREFORE, EXERCISE CAUTION**
- ♦ **BEFORE RESTARTING THE APPLIANCE AFTER A LONG PERIOD OF NON-USE, CHECK FOR OBSTRUCTIONS.**
- ♦ **IN THE EVENT OF A FLUE FIRE, USE APPROPRIATE FIRE SUPPRESSION METHODS OR CALL THE FIRE BRIGADE.**
- ♦ **THIS APPLIANCE MUST NOT BE USED AS A WASTE INCINERATOR**
- ♦ **NEVER USE PETROL, KEROSENE, LIGHTER FLUID, ETHANOL OR SIMILAR LIQUIDS TO START OR RESTART THE HEATER.**
- ♦ **MAJOLICA TILES (WHERE PRESENT) ARE HIGH-QUALITY HANDCRAFTED PRODUCTS AND MAY THEREFORE EXHIBIT MINOR SPECKLING, CRAZING OR SLIGHT COLOUR IMPERFECTIONS. THESE CHARACTERISTICS ATTEST TO ITS HIGH-QUALITY NATURE. DUE TO THE DIFFERENT EXPANSION COEFFICIENTS OF ENAMEL AND MAJOLICA, MICRO-CRACKS (CRAZING) MAY APPEAR, PROVING THEIR AUTHENTICITY. TO CLEAN MAJOLICA SURFACES, USE A SOFT, DRY CLOTH. IF ANY CLEANING AGENTS OR LIQUIDS ARE USED, THEY MAY PENETRATE THE MICRO-CRACKS, MAKING THEM MORE VISIBLE.**

FIRE SAFETY

MINIMUM CLEARANCES

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

ALL NATIONAL, REGIONAL, PROVINCIAL AND LOCAL LAWS AND REGULATIONS IN THE COUNTRY WHERE THE APPLIANCE IS INSTALLED, AS WELL AS THE INSTRUCTIONS IN THIS MANUAL, MUST BE CONSIDERED.

DURING INSTALLATION, THE FOLLOWING SAFETY MEASURES MUST BE OBSERVED:

- To ensure adequate thermal insulation, maintain the minimum safety distance at the rear (d_r) and on both sides (d_s) from flammable or heat-sensitive materials (e.g. furniture, wooden cladding, fabrics, etc.). **THESE DISTANCES MUST FALL BELOW THE SPECIFIED VALUES;**
- In front of the firebox door, within its radiation area, there must be no combustible or heat-sensitive objects or construction materials at a distance of less than d_p . This distance may be reduced to 400 mm if a rear-ventilated, heat-resistant protective screen is installed in front of the entire surface to be protected;
- IF THE PRODUCT IS INSTALLED ON A FLAMMABLE FLOOR** (such as carpet, parquet, cork, etc.), **THE FLOOR MUST BE PROTECTED WITH A NON-COMBUSTIBLE COVERING**, such as ceramic, stone, glass or steel, etc. The non-combustible protective material must: cover the area beneath the appliance and extend forward by at least the distance specified as d_f ; sideward by at least the distance specified as d_s ; and rearward by at least the distance specified as d_r . These distances ensure effective and safe protection;
- Above the product, within the distance specified as d_c , **THERE MUST BE NO FLAMMABLE MATERIALS** (e.g. furniture, overhead cabinets);
- IF THE PRODUCT IS INSTALLED IN DIRECT CONTACT WITH A WALL MADE OF FLAMMABLE MATERIAL, THE AFFECTED SECTION OF THE WALL MUST BE PROTECTED WITH A LAYER OF NON-FLAMMABLE MATERIAL**, such as ceramic, stone, glass or steel etc. The protection must cover the rear area of the product and extend sideward at least as far as the distance indicated as d_s (for kitchens, above the hob, the sideward extension must be at least as far as the distance indicated as D , see the next figure) and vertically at least as far as the distance indicated as d_c ;
- For non-flammable materials, a minimum side and rear clearance must be maintained, as indicated by the distance marked d_{non} .

THE PRODUCT MUST OPERATE EXCLUSIVELY WITH THE ASH DRAWER INSERTED. THE SOLID COMBUSTION RESIDUE (ASHES) MUST BE COLLECTED IN AN AIRTIGHT, FIRE-RESISTANT CONTAINER. THE PRODUCT MUST NEVER BE IGNITED IN THE PRESENCE OF GASEOUS EMISSIONS OR VAPOURS (FOR EXAMPLE, LINOLEUM GLUE, PETROL, ETC.). DO NOT STORE FLAMMABLE MATERIALS NEAR THE PRODUCT.



DURING COMBUSTION, THERMAL ENERGY IS RELEASED, CAUSING SIGNIFICANT HEATING OF THE SURFACES, DOORS, HANDLES, CONTROLS, GLASS, FLUE PIPE AND POTENTIALLY THE FRONT SECTION OF THE APPLIANCE. AVOID CONTACT WITH THESE COMPONENTS WITHOUT SUITABLE PROTECTIVE CLOTHING OR ACCESSORIES (HEAT-RESISTANT GLOVES, CONTROL DEVICES). ENSURE THAT CHILDREN ARE AWARE OF THESE DANGERS AND KEEP THEM AWAY FROM THE FIREBOX DURING ITS OPERATION.

WHEN USING INCORRECT OR OVERLY MOIST FUEL, TAR DEPOSITS (CREOSOTE) CAN FORM INSIDE THE FLUE, INCREASING THE RISK OF FIRE.

BEAM PROTECTION

Considering the radiation emitted by the firebox, special attention must be afforded to the protection of beams when designing your fireplace, take into account, on one hand, the proximity of the beam to the external surfaces of the firebox, and on the other, the radiation from the glass door, which is typically very close to the beams.

Be aware that, in any case, the internal or bottom surfaces of this beam, made of a combustible material, must not be exposed to temperatures exceeding 65°C. **Figure 1** provides several possible solutions.



WE CANNOT BE HELD LIABLE FOR THE MALFUNCTIONING OF INSTALLATIONS THAT DO NOT COMPLY WITH THESE INSTRUCTIONS OR IF UNSUITABLE COMPLEMENTARY PRODUCTS ARE USED.

INSTALLATION REGULATIONS

THE INSTALLATION OF THE PRODUCT AND ITS AUXILIARY EQUIPMENT RELATED TO THE HEATING SYSTEM, MUST COMPLY WITH ALL CURRENT STANDARDS AND REGULATIONS, AS WELL AS LEGAL REQUIREMENTS.

THE INSTALLATION, SYSTEM CONNECTIONS, COMMISSIONING AND OPERATIONAL TESTING MUST BE CARRIED OUT IN COMPLIANCE WITH BEST PRACTICES BY PROFESSIONAL, QUALIFIED PERSONNEL, ENSURING FULL ADHERENCE TO NATIONAL, REGIONAL, PROVINCIAL AND MUNICIPAL REGULATIONS IN THE COUNTRY WHERE THE APPLIANCE IS INSTALLED, AS WELL AS THESE INSTRUCTIONS.

THE INSTALLATION MUST BE CARRIED OUT BY AUTHORISED PERSONNEL, WHO MUST ISSUE THE PURCHASER WITH A DECLARATION OF CONFORMITY FOR THE SYSTEM, AND ASSUME FULL RESPONSIBILITY FOR THE FINAL INSTALLATION AND THE PROPER FUNCTIONING OF THE INSTALLED PRODUCT.

The product is pre-assembled and ready for connection and must be connected via a connector to the pre-existing building flue. The connector should ideally be short, straight, horizontal or slightly inclined upwards. All connections must be airtight.

Before installation, perform the following checks:

- ♦ Hot air ducting (if present).
- ♦ Determine the type of ventilation (natural or forced – see chapter HOOD OR ADJACENT ROOM VENTILATION - if present)
- ♦ Check the load-bearing capacity of the structure to ensure it can support the weight of the appliance. If the load-bearing capacity is insufficient, appropriate measures must be taken. **LA NORDICA S.p.A.**'s responsibility is limited to supplying the appliance only (see technical data in the document "CE MARKING INFORMATION").
- ♦ Ensure that the floor can support the weight of the appliance; if made of flammable material, appropriate insulation must be provided.
- ♦ Check that the room where the appliance will be installed is suitably ventilated, paying attention in particular to airtight doors and windows (with sealing gaskets).
- ♦ AVOID INSTALLATION IN ROOMS WITH SHARED VENTILATION DUCTS, KITCHEN HOODS (WITH OR WITHOUT EXTRACTORS), TYPE B GAS APPLIANCES, HEAT PUMPS, OR ANY OTHER APPLIANCES WHOSE SIMULTANEOUS OPERATION COULD CREATE NEGATIVE PRESSURE IN THE ROOM (see **UNI 10683 Standard**). **Under all conditions, including the presence of extractor hoods and/or controlled forced ventilation systems, the pressure difference between the rooms where the heater is installed and the outside must always be ≥ -4 Pa (e.g. -3 Pa is an acceptable value).**
- ♦ Check that the flue and pipes to which the appliance will be connected are suitable (see the technical data in the document "CE MARKING INFORMATION").
- ♦ The diameter of the opening for the connection to the chimney must at least correspond to the diameter of the flue pipe. The opening should be equipped with a wall connection for inserting the exhaust pipe and a rosette.
- ♦ The unused flue exhaust hole must be sealed with the appropriate cap (if present).
- ♦ The installation must allow access for cleaning and maintenance of both the product and the flue.
- ♦ Use a spirit level to ensure that the appliance is perfectly level, allowing for the proper movement of the door (if a sliding door is present). Adjust the levelling feet (if present).



LA NORDICA S.p.A. DISCLAIMS ALL LIABILITY FOR DAMAGE TO PROPERTY AND/OR PERSONS CAUSED BY THE INSTALLATION. FURTHERMORE, THE COMPANY IS NOT RESPONSIBLE FOR ANY UNAUTHORISED MODIFICATIONS TO THE PRODUCT, NOR FOR THE USE OF NON-ORIGINAL SPARE PARTS..

MAINTENANCE PROVISIONS

For non-routine maintenance of the product, it may be necessary to move it away from the adjacent walls. This operation must be carried out by a qualified technician, authorised to disconnect and subsequently reconnect the exhaust ducts for combustion products. For heaters connected to a water system, the connection between the system and the product must be such as to allow a qualified technician to move the heater at least 1 metre away from adjacent walls during non-routine maintenance

VENTILATION AND AERATION OF THE INSTALLATION AREA

AS THESE PRODUCTS DRAW COMBUSTION AIR FROM THE INSTALLATION ROOM, IT IS **MANDATORY** TO ENSURE A SUFFICIENT SUPPLY OF FRESH AIR WITHIN THE ROOM ITSELF. IN THE CASE OF AIRTIGHT WINDOWS AND DOORS (E.G. ENERGY-EFFICIENT HOMES), THE SUPPLY OF FRESH AIR MAY NO LONGER BE GUARANTEED, WHICH CAN COMPROMISE THE APPLIANCE'S DRAUGHT, USER COMFORT AND SAFETY.

IMPORTANT: For improved air quality and proper oxygenation of the environment, combustion air can be drawn directly from the outside via a connection to a flexible hose. The connecting pipe (NOT supplied) must be smooth and have a minimum diameter as specified in **Figure 2**. Its maximum length must not exceed 3 m for STOVES and COOKERS and 4 m for FIREPLACES, with no more than three bends. If this hose is connected directly to the outside, it must be equipped with a windbreak.

FOR PROPER OPERATION OF THE APPLIANCE, IT IS MANDATORY TO ENSURE AN ADEQUATE SUPPLY OF AIR IN THE INSTALLATION AREA, BOTH FOR COMBUSTION AND FOR RE-OXYGENATION OF THE ROOM.

This means that, through dedicated openings communicating with the outside, combustion air must be able to circulate even when doors and windows are closed.

The air intakes must meet the following requirements:

- ♦ BE PROTECTED USING GRATES, WIRE MESH, ETC., WITHOUT REDUCING THE NET FREE SECTION;
- ♦ BE DESIGNED TO ALLOW FOR MAINTENANCE OPERATIONS;
- ♦ BE POSITIONED IN A WAY THAT PREVENTS OBSTRUCTION;
- ♦ IF EXTRACTOR HOODS ARE PRESENT IN THE INSTALLATION ROOM, THEY MUST NOT BE USED SIMULTANEOUSLY WITH THE APPLIANCE. These may cause smoke to escape into the room, even when the firebox door is closed.

Fresh, uncontaminated air intake can also be provided from an adjacent room (indirect ventilation and airing), provided the airflow is unobstructed through permanent openings connected to the outside.

THE ADJACENT ROOM MUST NOT BE USED AS A GARAGE, STORAGE AREA FOR COMBUSTIBLE MATERIALS, HIGH FIRE-RISK AREA, BATHROOM, BEDROOM OR SHARED/Common AREA OF THE BUILDING.

Ventilation is considered sufficient when the room is equipped with air intakes according to the table:

Appliance categories	Reference standard	Required net opening cross-section as a percentage of the appliance's flue gas outlet	Minimum net opening size of the ventilation duct
Fireplaces	EN 16510-2-2	50 %	200 cm ²
Stoves	EN 16510-2-1	50 %	100 cm ²
Cookers	EN 16510-2-3	50 %	100 cm ²

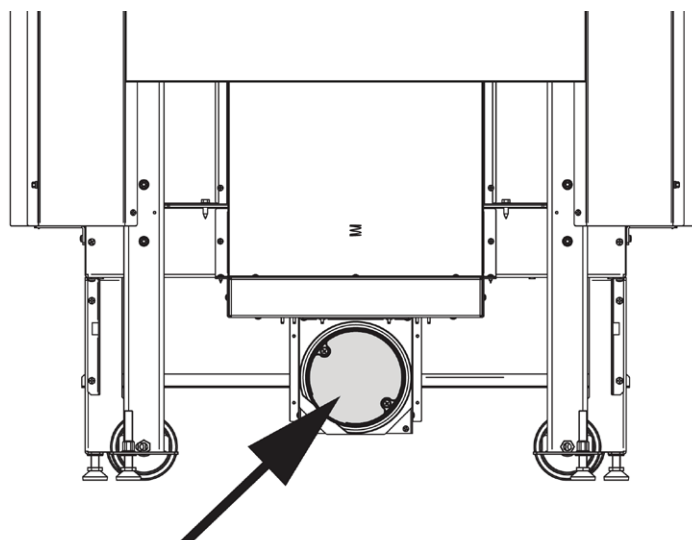


INSTALLATION IS PROHIBITED IN ROOMS WITH A FIRE HAZARD. INSTALLATION IS ALSO PROHIBITED IN RESIDENTIAL ROOMS WHERE THE MEASURED PRESSURE DIFFERENCE BETWEEN THE INDOOR AND OUTDOOR ENVIRONMENT EXCEEDS 4 Pa – REFERENCE FOR ITALY ACCORDING TO UNI 10683 REGULATIONS. UNDER ALL CONDITIONS, INCLUDING THE PRESENCE OF EXTRACTOR HOODS AND/OR CONTROLLED FORCED VENTILATION SYSTEMS, THE PRESSURE DIFFERENCE BETWEEN THE ROOMS WHERE THE HEATER IS INSTALLED AND THE OUTSIDE MUST ALWAYS BE ≥ -4 Pa (E.G. -3 Pa IS AN ACCEPTABLE VALUE).

IT IS MANDATORY TO COMPLY WITH ALL NATIONAL, REGIONAL, PROVINCIAL AND LOCAL LAWS AND REGULATIONS IN THE COUNTRY WHERE THE APPLIANCE IS INSTALLED.

Figure 2

FRESH AIR INTAKE



FLUE EXHAUST

FLUE PIPE

THE COMPONENTS OF THE COMBUSTION GAS EVACUATION SYSTEM MUST BE SELECTED AND RATED IN ACCORDANCE WITH CURRENT REGULATIONS, CONSIDERING THE SPECIFIC INSTALLATION CONDITIONS.

The following checks are recommended:

- ♦ The chimney system must be assessed in accordance with the following technical standards (where applicable): EN 15287-1, EN 15287-2, EN 13063-1, EN 13063-2, EN 1457, EN 1806, EN 1856-1, EN 1856-2, and EN 13384-1;
- ♦ The proper operation of the chimney system must be verified in accordance with EN 13384-2, based on the specific installation conditions;
- ♦ The number of directional changes, including those caused by the use of T-joints, must not exceed four;
- ♦ A T-joint with a condensate collection cap must be installed at the base of the vertical section;
- ♦ The vertical duct may be located either inside or outside the building. If the flue pipe is connected to an existing flue, it must be certified for solid fuels;
- ♦ The flue pipe must include at least one airtight port for potential flue gas sampling;
- ♦ All sections of the flue pipe must be accessible for inspection;
- ♦ Inspection openings must be provided for cleaning;

When using metal pipes, the following requirements (EN 1856-1 and EN 1856-2) must be met:

FLUE - Temperature class, at least T 600 G (as stated in the technical data sheet), soot-fire resistant.

FLUE PIPE - Temperature class, at least T 600 G (as stated in the technical data sheet), soot-fire resistant.

The flue pipe is the section of piping that connects the appliance to the flue. When connecting it, the following simple but crucial principles must be observed:

- ♦ Under no circumstances should the flue pipe have a diameter smaller than that of the appliance's outlet collar. The internal diameter of the connecting pipe must match the external diameter of the appliance's flue exhaust stub (DIN 1298);
- ♦ Each metre of horizontal flue pipe travelled causes a significant pressure loss, which must be compensated for by increasing the flue pipe height if necessary;
- ♦ Each bend in the flue pipe significantly reduces the flue draught, which must be offset by an adequate increase in height;
- ♦ A maximum of three direction changes of no more than 90° each is allowed, including the connection from the appliance to the chimney (UNI 10683). These must be easily inspectable;
- ♦ The horizontal length of the flue pipe must be kept to a minimum, and its total horizontal projection must not exceed 4 metres (UNI 10683);
- ♦ Horizontal sections must have a minimum upward slope of 3%;
- ♦ The use of flexible metal pipes, fibre cement pipes or aluminium pipes is strictly prohibited.
- ♦ The connection must be made with stable and robust pipes that comply with all current standards, regulations and legal requirements. The connection to the flue must also be airtight.



CAUTION: WHEN MAKING THE FLUE CONNECTION AND WORKING NEAR FLAMMABLE MATERIALS, FOLLOW THE REQUIREMENTS OF UNI 10683. THE FLUE MUST BE PROPERLY DISTANCED FROM FLAMMABLE OR COMBUSTIBLE MATERIALS USING SUITABLE INSULATION OR AN AIR GAP. MINIMUM CLEARANCE: 25 CM.



IMPORTANT: THE UNUSED FLUE EXHAUST HOLE MUST BE SEALED WITH THE RELATIVE CAP (SEE DETAILS CHAPTER).

FLUE

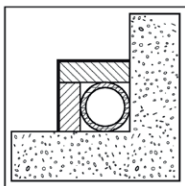
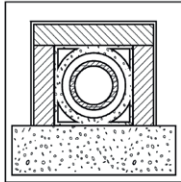
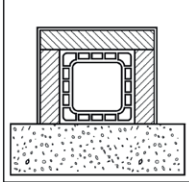
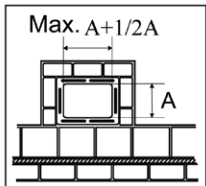
ESSENTIAL REQUIREMENTS FOR PROPER OPERATION OF APPLIANCE:

- ♦ The internal cross-section should preferably be circular;
- ♦ **It must be thermally insulated, waterproof and made of materials resistant to heat, combustion by-products and potential condensates;**
- ♦ It must be free of constrictions and have a predominantly vertical layout, with deviations not exceeding 45°;
- ♦ If previously used, it must be cleaned;
- ♦ All sections of the flue pipe must be accessible for inspection;
- ♦ Inspection openings must be provided for cleaning;
- ♦ Comply with the technical specifications outlined in the instruction manual;

IF THE FLUE HAS A SQUARE OR RECTANGULAR CROSS-SECTION, THE INTERNAL CORNERS MUST BE ROUNDED WITH A RADIUS OF NO LESS THAN 20 MM. FOR RECTANGULAR CROSS-SECTIONS, THE MAXIMUM SIDE RATIO MUST BE ≤ 1.5 .

A cross-section that is too small will reduce the draught. A minimum height of 4 metres is recommended.

The following materials are **PROHIBITED**, as they compromise the proper functioning of the appliance: fibre cement, galvanised steel, rough or porous internal surfaces. **Figure 3** illustrates several possible solutions.

Figure 3				
1*	Steel flue with insulated double chamber using material resistant to 400°C. Efficiency 100% excellent.			
2*	Refractory flue with insulated double chamber and external cladding in lightweight concrete. Efficiency 100% excellent.			
3*	Traditional clay flue with square cross-section and air gaps. Efficiency 80% good.			
4	Avoid flues with rectangular internal cross-section whose ratio differs from the design. Efficiency 40% poor.			

*- Material compliant with current Standards and Regulations, as well as legal requirements.



FOR CORRECT INSTALLATION, THE FLUE DIMENSIONS MUST COMPLY WITH THE CE MARKING INFORMATION. FOR INSTALLATIONS WITH DIFFERENT DIMENSIONS, THE FLUE MUST BE SIZED IN ACCORDANCE WITH STANDARD EN13384-1.

A flue with an excessively large cross-section may generate a volume too large to be heated, thus causing operational difficulties for the appliance. To prevent this, it should be lined along its entire height. A cross-section that is too small will reduce the draught.



IT IS STRICTLY PROHIBITED TO ROUTE ANY OTHER SYSTEM PIPES OR AIR SUPPLY DUCTS INSIDE THE FLUE. ADDITIONALLY, IT IS PROHIBITED TO CREATE FIXED OR MOVABLE OPENINGS IN THE FLUE FOR THE CONNECTION OF ADDITIONAL UNRELATED APPLIANCES (SEE THE CHAPTER ON CONNECTING AN OPEN FIREPLACE OR FIREBOX TO THE FLUE).

THE DRAUGHT GENERATED BY YOUR FLUE MUST BE SUFFICIENT BUT NOT EXCESSIVE.

Measurements must always be taken when the appliance is hot (at nominal heat output).

If the negative pressure exceeds 17 Pa (= 1.7 mm water column), it must be reduced by installing an additional draught regulator (throttle valve) on the exhaust pipe or inside the chimney, in accordance with current regulations.



FOR BEST PERFORMANCE OF THE APPLIANCE, THERE MUST BE A SUFFICIENT SUPPLY OF COMBUSTION AIR TO THE INSTALLATION AREA (see the chapter on VENTILATION AND AIRING OF INSTALLATION ROOMS).

SHARED CHIMNEY FLUE

Check on the CE Technical Data Sheet whether the product is suitable for installation in a shared chimney flue (i.e. with multiple connection).

Suitable devices can be installed in shared flue systems provided that:

- ♦ installation in a shared chimney flue (i.e. with multiple connection) is allowed in the place of installation;
- ♦ the requirements of national and regional Standards are strictly complied with [for GERMANY, for example, DIN EN 13384-2, DIN V 18160-1, DIN 18896 and MFeuV-2007 (Muster-Feuerungsverordnung)];
- ♦ the installer or district chimney sweep has inspected and approved the installation conditions.

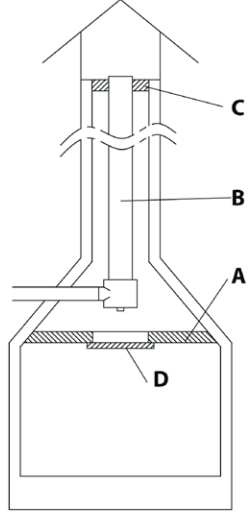
Please also remember the following indications, which the end user must comply with:

- ♦ The device can be operated only with the doors closed.
- ♦ The doors and all setting devices must remain closed when the device is not on (except for cleaning and maintenance operations).

FLUE FOR AN OPEN FIREPLACE OR FIREBOX

When using the flue of an open fireplace or firebox, the hood must be airtight below the connection point of the flue pipe (Pos. **A** **Figure 4**.

If the flue is too large (e.g. 30x40 cm or 40x50 cm), it must be lined with a stainless steel pipe with a minimum diameter of 200 mm (Pos. **B**), ensuring that the remaining space between the pipe and the flue is completely sealed immediately below the chimney pot (Pos. **C**.

Figure 4	Images are for illustrative purposes	
A	Airtight closure	
B	Stainless steel	
C	Sealing	
D	Inspection hatch	

CHIMNEY POT

THE FLUE DRAUGHT ALSO DEPENDS ON THE SUITABILITY OF THE CHIMNEY POT.

IT IS THEREFORE ESSENTIAL THAT, IF THE POT IS CUSTOM-BUILT, THE OUTLET CROSS-SECTION BE AT LEAST TWICE THE INTERNAL CROSS-SECTION OF THE FLUE (**Figure 5**).

Since the chimney pot must always extend beyond the roof ridge, it must also ensure proper exhaust even in windy conditions (**Figure 6**).

The chimney pot must meet the following requirements:

- ♦ Have an internal cross-section equivalent to that of the chimney.
- ♦ Have an effective outlet cross-section twice the internal cross-section of the flue.
- ♦ Be designed to prevent the infiltration of rain, snow or any foreign objects into the flue.
- ♦ Be easy to inspect, allowing for maintenance and cleaning operations.

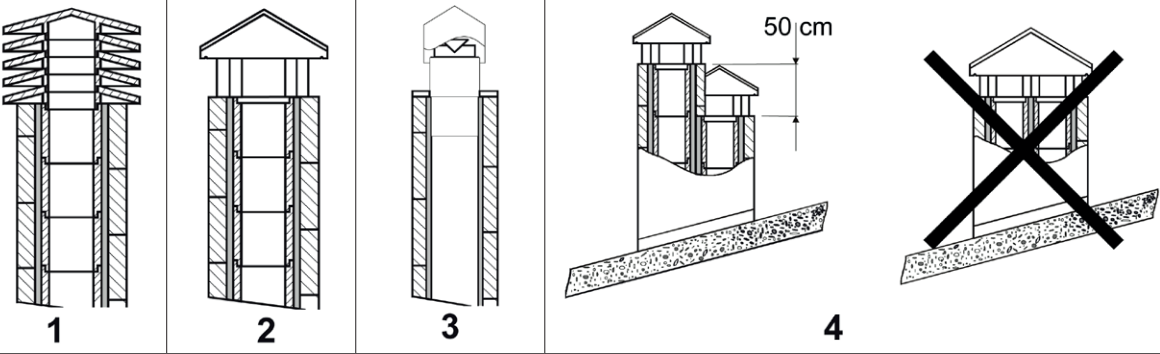
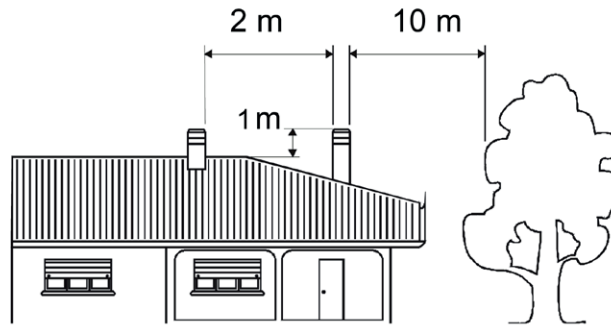
Figure 5	
1	Prefabricated industrial chimney pot, ensuring excellent smoke dispersion.
2	Custom-built chimney pot. The minimum outlet cross-section must be at least twice, and ideally 2.5 times the internal cross-section of the flue.
3	Chimney pot for steel flue, featuring an internal smoke baffle cone.
4	For adjacent flues, one chimney pot must be positioned at least 50 cm higher than the other to prevent pressure transfer between the flues.

Figure 6

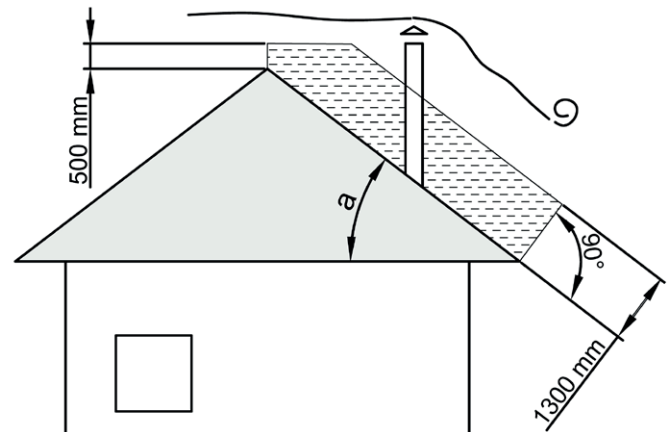
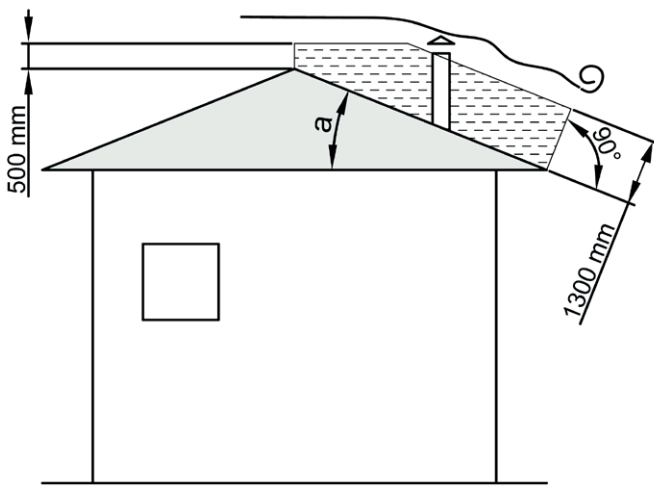


The chimney pot must not have any obstructions within 10 m, such as walls, roof slopes or trees. Otherwise, it must be raised by at least 1 m above the highest obstacle. The chimney pot must extend at least 1 m above the roof ridge.

CHIMNEY POT DISTANCES AND POSITIONING (UNI 10683)

Roof inclination

$>10^\circ$



PERMITTED/NOT PERMITTED FUELS

Only logs may be used as fuel. Only dry logs (max. moisture content 20%) should be used. A maximum of 2 or 3 logs should be loaded at a time. Logs should be approximately 20–30 cm in length and have a maximum circumference of 30–35 cm.

NON-RESINOUS PRESSED WOOD LOGS MUST BE USED WITH CAUTION TO AVOID OVERHEATING THAT COULD DAMAGE THE APPLIANCE, AS THEY HAVE A HIGH HEATING VALUE.

The firewood must have a moisture content of less than 20% and be stored in a dry location. Damp wood makes ignition more difficult, as more energy is required to evaporate the moisture present. The moisture content also creates the disadvantage that, as the temperature drops, the water condenses first in the firebox and then in the chimney, causing a considerable deposit of soot with the subsequent possible risk of fire.

Freshly cut wood contains about 60% H₂O, making it unsuitable for burning. It must be stored in a dry, ventilated area (e.g. under a shelter) for at least two years before use.

THE FOLLOWING MATERIALS MUST NOT BE BURNED: COAL, WOOD SCRAPS, BARK RESIDUE, WOOD PANELS, DAMP OR PAINTED WOOD, PLASTICS. USING THESE MATERIALS WILL VOID THE PRODUCT WARRANTY.

PAPER AND CARDBOARD SHOULD ONLY BE USED FOR IGNITION.

BURNING WASTE IS STRICTLY PROHIBITED AS IT MAY DAMAGE THE APPLIANCE AND THE FLUE, CAUSE HEALTH RISKS AND LEAD TO COMPLAINTS FROM NEIGHBOURS DUE TO UNPLEASANT ODOURS.

Wood is not a long-burning fuel, meaning continuous heating throughout the night is not possible.

Species	kg/m ³	kWh/kg 20% Moisture
Beech	750	4.0
Turkey oak	900	4.2
Elm	640	4.1
Poplar	470	4.1
Larch*	660	4.4
Spruce*	450	4.5
Scots pine *	550	4.4

* UNSUITABLE RESINOUS WOODS



THE CONTINUOUS AND PROLONGED USE OF FIREWOOD THAT IS PARTICULARLY RICH IN AROMATIC OILS (E.G., EUCALYPTUS, MYRTLE, ETC.) CAUSES THE RAPID DETERIORATION (FLAKING) OF THE CAST-IRON COMPONENTS IN THE PRODUCT.

The declared technical data were obtained using class "A1" beech wood in accordance with UNI EN ISO 17225-5, with a moisture content of less than 20%. The use of other wood types may require specific adjustments and could result in different product performance.

CALCULATION OF THE HEAT OUTPUT

There is no absolute rule for calculating the correct power required. This power depends on the space to be heated, but is also largely influenced by the level of insulation.

On average, the heat output required for a properly insulated room will be 30 kcal/h per m³ (for an outside temperature of 0 °C).

Since 1 kW corresponds to 860 kcal/h, we can assume a value of 35 W/m³.

Assuming you wish to heat a 150 m³ (10 x 6 x 2.5 m) room in an insulated house, you will need 150 m³ x 35 W/m³ = 5250 W or 5.25 kW. As a primary heating source, an 8 kW appliance should be sufficient.

Fuel	Unit	Indicative combustion value		Required quantity in relation to 1 kg of dry wood
		kcal/h	kW	
Dry wood (15% moisture)	kg	3600	4.2	1,00
Wet wood (50% moisture)	kg	1850	2.2	1.95
Wood briquettes	kg	4000	5.0	0.84
Brown coal briquettes	kg	4800	5.6	0.75
Normal anthracite	kg	7700	8.9	0.47
Coke	kg	6780	7.9	0.53
Natural gas	m ³	7800	9.1	0.46
Naphtha	L	8500	9.9	0.42
Electricity	kWh	860	1.0	4.19

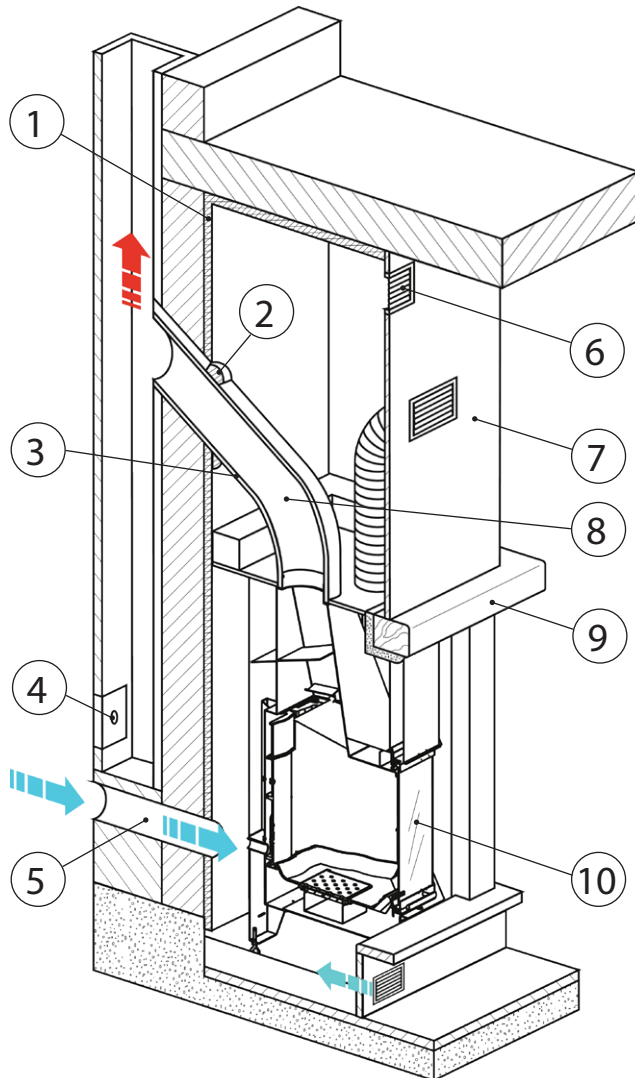
INSTALLATION OF MONOBLOCCO 3LC.165

ASSEMBLY MUST BE CARRIED OUT BY QUALIFIED PERSONNEL!



THE HEAT VENT GRATE (**FIGURE 8** POS. 6 - **FIGURE 9**) IS TO BE INSTALLED ON THE UPPER PART OF THE HOOD ABOUT 20 CM FROM THE CEILING. THIS MUST ALWAYS BE INSTALLED, AS ITS FUNCTION IS TO RELEASE THE HEAT ACCUMULATED INSIDE THE HOOD (OVERPRESSURE) INTO THE ROOM.

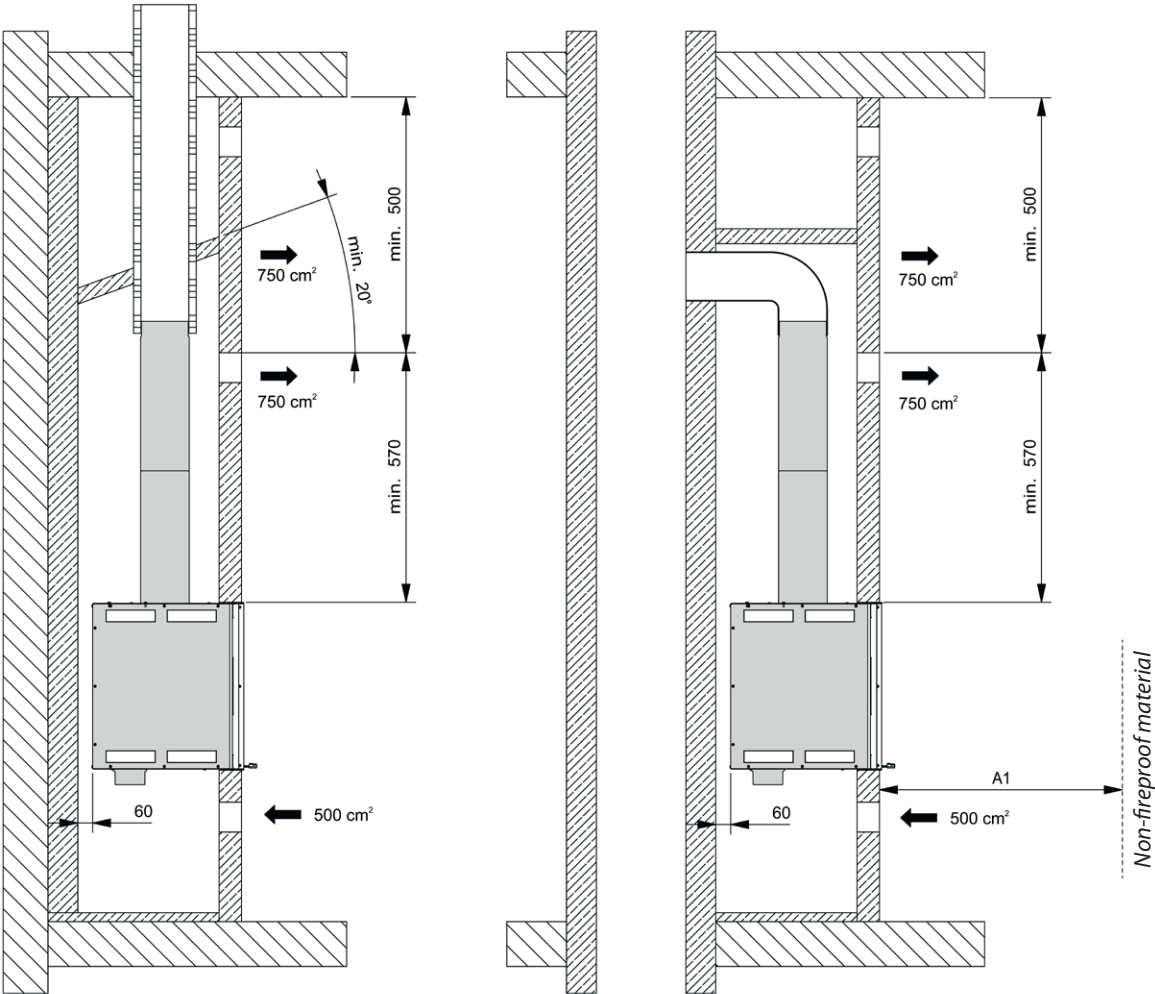
Figure 7



1*	Insulation
2	Seal
3	Insulation covering with aluminium foil on the outside.
4	Cleaning door.
5	Fresh air intake.
6	Heat vent grate.
7	Fireproof counter-hood.
8	Maximum inclination 45°.
9*	Shield wooden parts with insulating material.
10***	All minimum clearances (cm) are indicated on the product's rating plate and must NOT fall below the indicated values (See also CE Marking Information and Declaration of Performance).

* AS PER EXISTING REGIONAL PROVISIONS

Figure 8



		
NON-FIREPROOF MATERIAL	FIREPROOF MATERIAL	INSULATED FLUE

Images are for illustrative purposes

HOOD OR ADJACENT ROOM VENTILATION

The product can distribute heated air by NATURAL CONVECTION, or FORCED CONVECTION using the OPTIONAL ventilation - **WIND AIR KIT** (see separate instructions).



DURING INSTALLATION, THE TYPE OF CONVECTION TO BE USED MUST BE DETERMINED

A) NATURAL CONVECTION:

See **Figure 9 - 10**

B) FORCED CONVECTION:

By installing the **optional WIND AIR KIT (Figure 11 C)**, it is possible to distribute hot air to adjacent rooms via ducting up to 4 metres in length.

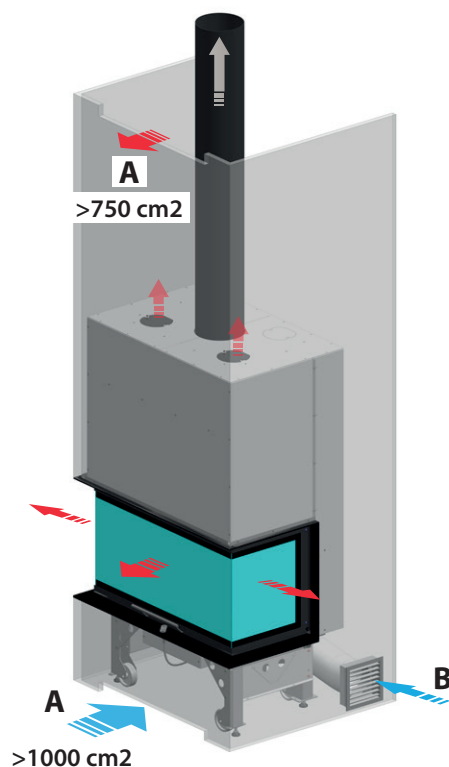
The **upper outer casing** is equipped with 4 outlets with a 150 mm (15 cm) diameter for connecting heat-resistant ducts.

- Drill holes in the walls or existing hood to allow for the passage and application of the ducts (fireproof) 15 cm in diameter, along with the corresponding vents;
- secure the ducts to the corresponding collars and vents; after having removed the half-cover caps;
- each duct must be no longer than 2 metres for natural ventilation and 4 metres for forced ventilation, and must be insulated with insulating materials to avoid noise and heat dispersion;
- the vents must be positioned at a height of no less than 2 m from the floor to prevent direct exposure to hot air. Ensure compliance with local building regulations regarding convection openings;
- the lengths of the ducting hoses must be the same length to avoid having different amounts of air distributed from each outlet.

CONNECTING THE HEAT-RESISTANT HOSES - NOT SUPPLIED

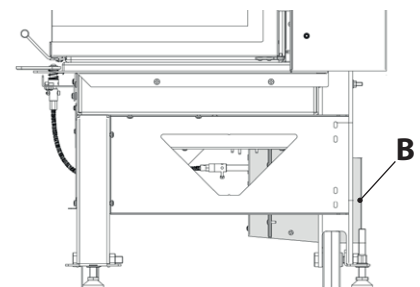
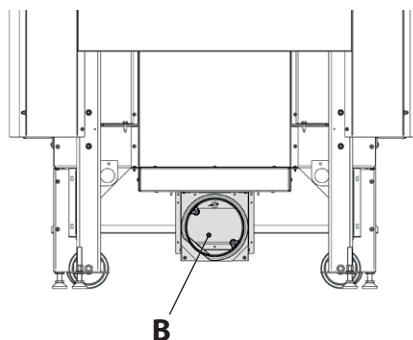
- Drill holes in the walls or existing hood to allow for the passage and application of the hoses (fireproof, NOT
- supplied) with their respective vents;
- Secure the hoses to the corresponding collars and vents using clamps;
- Each duct must be no longer than 1.5 m for natural ventilation and 8 m for forced ventilation, and must be insulated with appropriate materials to avoid noise and heat dispersion;
- The vents must be positioned at a height of no less than 2 m from the floor to prevent direct exposure to hot air. Ensure compliance with local building regulations regarding convection openings;
- The lengths of the ducts must be equal to avoid airflow imbalances.

Figure 9



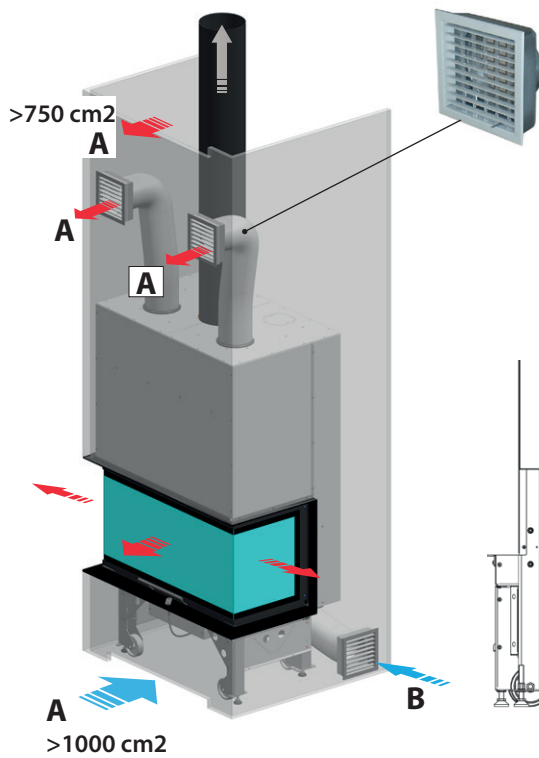
CAUTION It is recommended to construct a fireproof plasterboard counter-hood with a self-supporting metal frame to prevent the weight from being transferred onto the aesthetic cladding (marble).

- A** - Natural convection;
B - Fresh air intake for appliance;



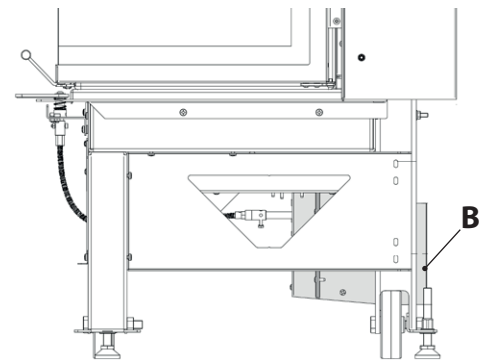
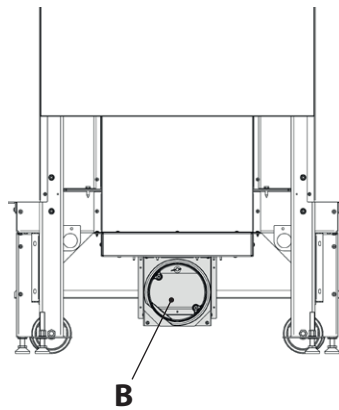
Images are for illustrative purposes

Figure 10



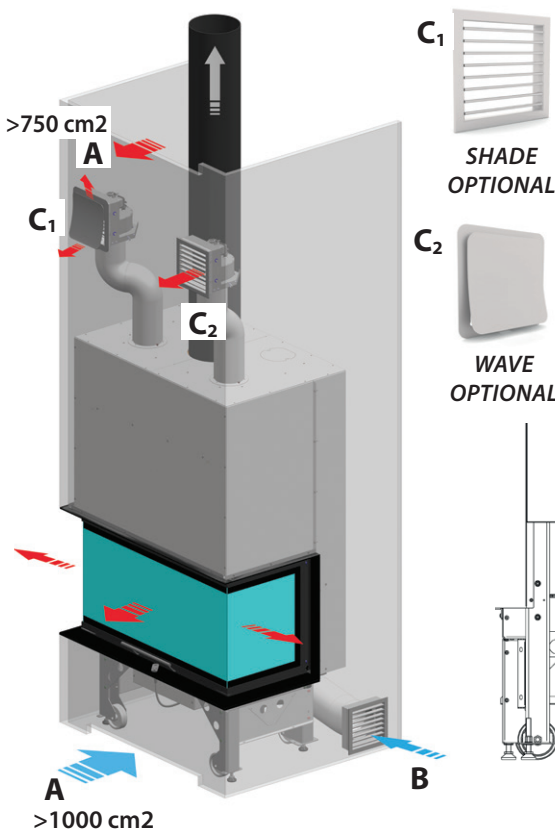
CAUTION It is recommended to construct a fireproof plasterboard counter-hood with a self-supporting metal frame to prevent the weight from being transferred onto the aesthetic cladding (marble).

- A** - Natural convection;
- B** - Fresh air intake for appliance;
- C** - Forced convection



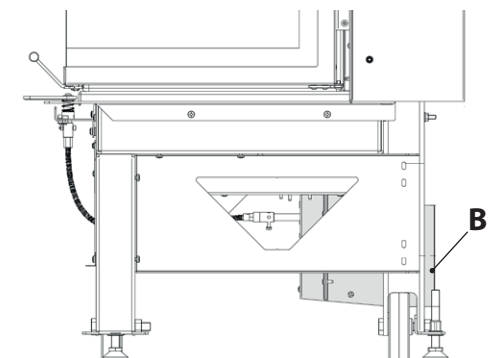
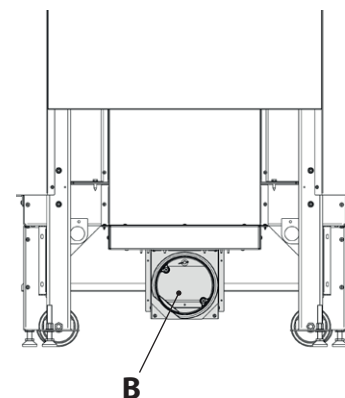
Images are for illustrative purposes

Figure 11



CAUTION It is recommended to construct a fireproof plasterboard counter-hood with a self-supporting metal frame to prevent the weight from being transferred onto the aesthetic cladding (marble).

- A** - Natural convection;
- B** - Fresh air intake for appliance;
- C** - Forced convection



Images are for illustrative purposes

DETAILS OF MONOBLOCCO 3LC.165

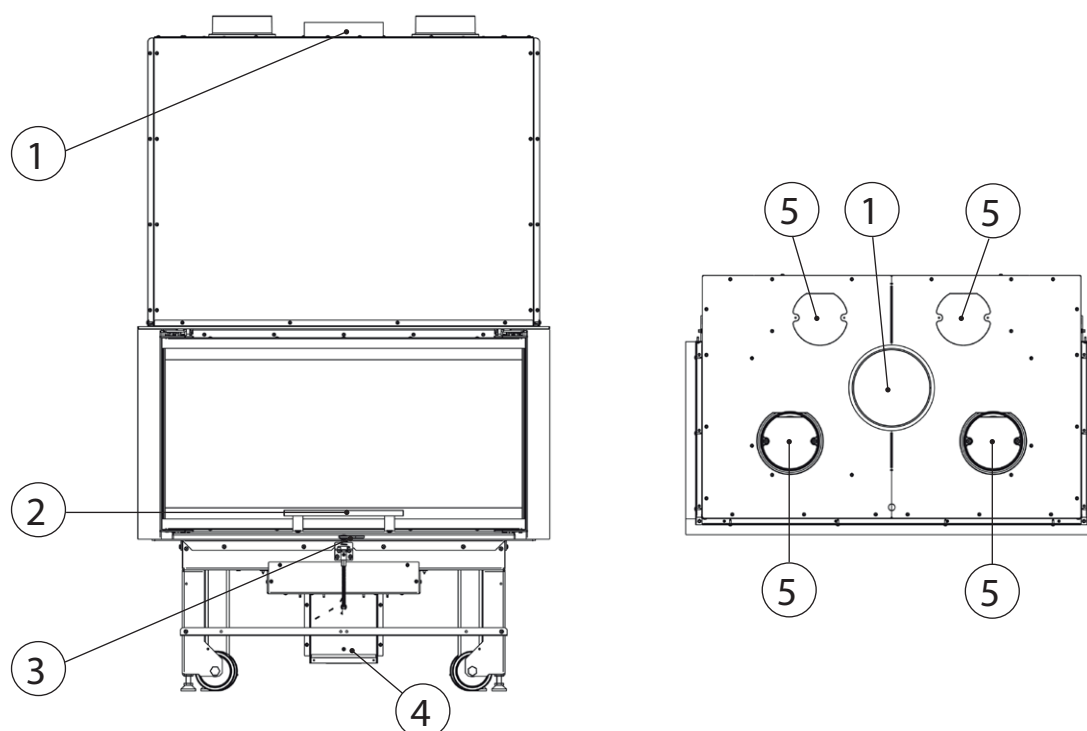


Figure 12

1	Smoke outlet	4	Fresh air intake
2	Firebox door handle	5	Ducted air outlet
3	Primary/secondary air damper	-	-

TECHNICAL DESCRIPTION

La NORDICA wood-fired products are suitable for heating living spaces for certain periods.
LOGS ARE USED AS FUEL.

THIS IS AN INTERMITTENT COMBUSTION APPLIANCE.

CONSTRUCTION SYSTEM:

Type 1: products with automatic door closure.

Type 2: products without automatic door closure.

The appliance is composed of painted sheet steel panels, cast iron and refractory materials.

The firebox is lined with cast iron elements and refractory panels, while the grate support and relative removable grate are both made of cast iron. The entire combustion chamber is hermetically sealed through welding and clad with a galvanised sheet metal casing.

THE APPLIANCES FEATURE AN INTEGRATED AIR CIRCUIT FOR HEAT RECOVERY, CONSISTING OF BAFFLES (RADIANT FINS) ON ALL OUTER SURFACES OF THE HEATING BODY.

THE APPLIANCES ARE EQUIPPED WITH A FIREBOX WITH DOUBLE-THICKNESS BACK PANEL, CONSISTING OF A PERFORATED REMOVABLE PLATE.

IT IS THROUGH THESE HOLES THAT THE PREHEATED AIR ENTERS THE FIREBOX, THUS ENABLING POST-COMBUSTION, WHICH INCREASES EFFICIENCY AND REDUCES UNBURNED GAS EMISSIONS.

The panoramic door is mounted on stainless steel guides and supports with ball bearings, ensuring sturdy, silent and reliable operation over time. The door lifting counterweight is supported by two sturdy chains with corresponding sprockets.

The ceramic door glass (resistant up to 700 °C) provides a captivating view of the burning flames, while preventing any escape of sparks or smoke.



THE PRODUCT IS DESIGNED AND DEVELOPED TAKING INTO ACCOUNT THE NATURAL THERMAL DEFORMATIONS OF THE INDIVIDUAL COMPONENTS MAKING UP THE OVERALL APPLIANCE, DUE TO THE HIGH OPERATING TEMPERATURES INVOLVED.

SPECIAL GAPS HAVE BEEN INTENTIONALLY INCLUDED AT VARIOUS POINTS TO ALLOW FOR NORMAL THERMAL EXPANSION AND CONTRACTION. THEREFORE, ANY SLIGHT MOVEMENTS OR MINOR MISALIGNMENTS OF CERTAIN MOVING OR OVERHANGING PARTS SHOULD BE CONSIDERED NORMAL AND ARE ACCOUNTED FOR IN THE DESIGN.

ACCESSORIES	SUPPLIED STANDARD	OPTIONAL
	GLOVE	WIND AIR KIT (air ducting) Figure 11
	POKER	SHADE model diffuser (air ducting) Figure 11 - C1
		WAVE model diffuser (air ducting) Figure 11 - C2



USING A FLEXIBLE HOSE (FIREPROOF, NOT SUPPLIED), COMBUSTION AIR CAN BE TAKEN DIRECTLY FROM OUTSIDE (SEE SECTION ON VENTILATION AND AIRING OF INSTALLATION ROOMS).

THE ROOM IS HEATED:

- A) **BY CONVECTION:** the passage of air through the enclosure and hood releases heat into the room.
- B) **BY RADIATION** heat is radiated into the room through the panoramic glass and the steel body.

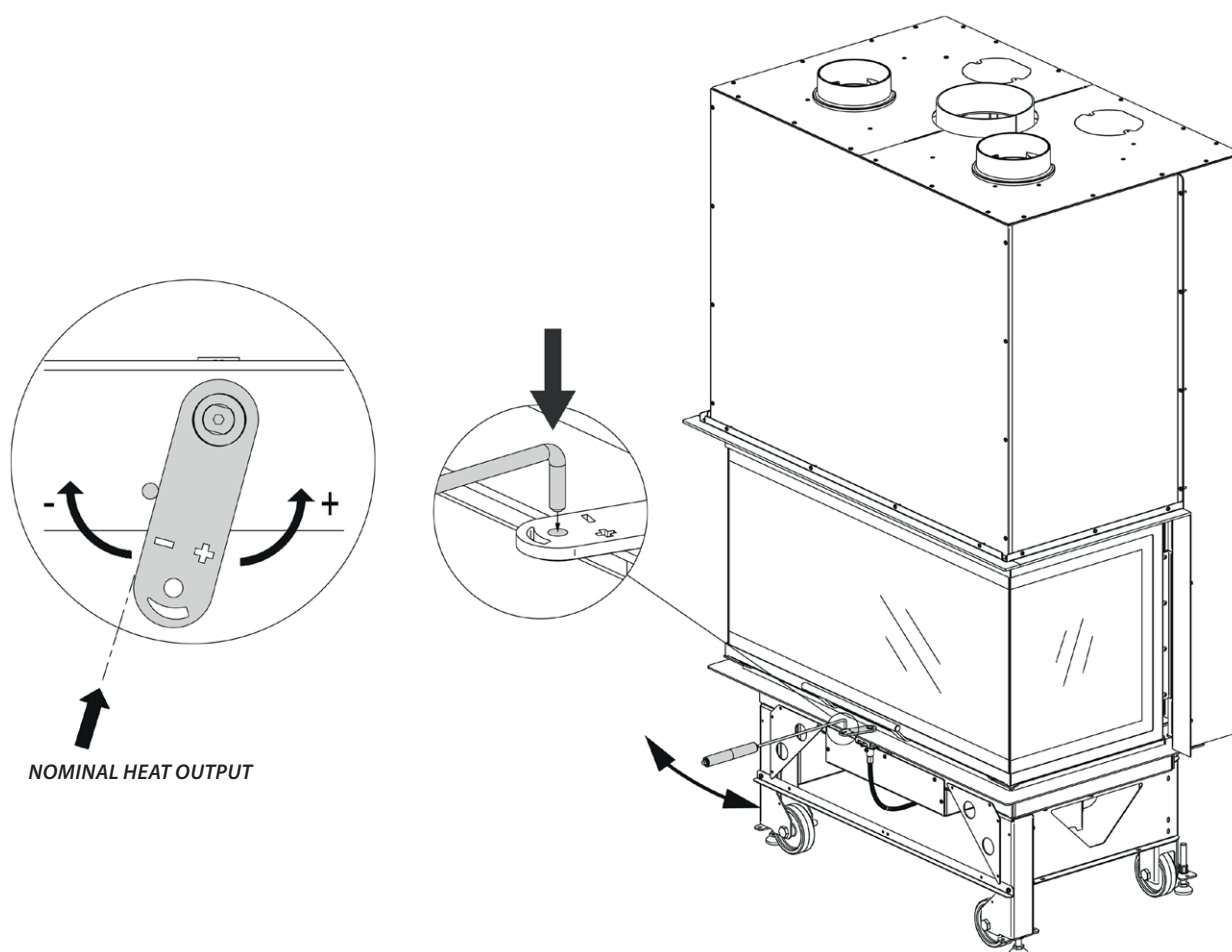
THE PRIMARY AND SECONDARY COMBUSTION AIR OPENINGS ARE MANAGED BY A SINGLE DAMPER.

SINGLE DAMPER FOR PRIMARY AIR AND SECONDARY AIR (**Figure 13**).

The lever to adjust the combustion air is located underneath the firebox.

The air damper regulates the flow of air entering the lower part of the firebox, which is then directed towards the fuel through specially designed ducts. Air is essential for the combustion process during ignition. The ash drawer must be emptied regularly to prevent ash from blocking the airflow.

Figure 13



IGNITION



AT THE FIRST IGNITION, AN UNPLEASANT ODOUR WILL INEVITABLY BE PRODUCED (DUE TO THE DRYING OF THE ADHESIVES IN THE SEALING GASKET OR THE PROTECTIVE VARNISH), WHICH DISAPPEARS AFTER A SHORT PERIOD OF USE.

HOWEVER, GOOD VENTILATION OF THE ROOM MUST BE ENSURED. AT THE FIRST IGNITION, IT IS ADVISABLE TO LIMIT THE AMOUNT OF LOADED FUEL, GRADUALLY INCREASING THE HEAT OUTPUT OF THE APPLIANCE.

IT IS PROHIBITED TO USE LIQUIDS SUCH AS ALCOHOL, PETROL, PETROLEUM AND THE LIKE.
NEVER SWITCH ON THE APPLIANCE WHEN THERE ARE COMBUSTIBLE GASES IN THE ROOM.

When first igniting products treated with high-temperature paint, it is important to consider the following:

- ♦ the construction materials of the products in question are not homogeneous, in fact cast iron and steel parts coexist.
- ♦ the temperature distribution across the product's body is not uniform: different areas may reach temperatures ranging from 300°C to 500°C;
- ♦ over its lifetime, the product undergoes alternating cycles of ignition and shutdown within the same day, as well as periods of intense use or complete inactivity depending on the season;
- ♦ before being considered fully "broken in", a new product must go through several ignition cycles to allow all materials and the paint to adapt to thermal stress;
- ♦ during the initial ignitions, odours typical of metals exposed to high thermal stress and fresh paint curing, may be emitted.

Therefore, it is extremely important that the following precautions be taken during ignition:

1. Ensure a strong exchange of air in the room where the appliance is installed.
2. On first ignitions, do not overload the combustion chamber (about half the amount indicated in the instruction manual) and keep the product running for at least 6–10 hours continuously, with the dampers less open than indicated in the instruction manual.
3. Repeat this ignition process at least 4–5 times or more, depending on your availability.
4. Gradually increase the load (while adhering to the maximum load recommendations in the instruction manual) and aim for longer ignition periods. Avoid short ignition-shutdown cycles during this initial phase.
5. **ON FIRST IGNITIONS, NO OBJECTS SHOULD BE PLACED ON THE APPLIANCE, IN PARTICULAR ON THE LACQUERED SURFACES. LACQUERED SURFACES MUST NOT BE TOUCHED DURING HEATING.**
6. Once the breaking-in period is complete, the product can be used like a car engine, avoiding sudden overheating with excessive loads.

PREPARING FOR IGNITION

To light the fire, we recommend using small wood kindling with paper or other commercially available fire-starting products. Open the throttle valve, if present, on the flue pipe.



NEVER LEAVE THE FIREBOX UNATTENDED DURING THIS PROCEDURE.

TO LIGHT THE FIRE:

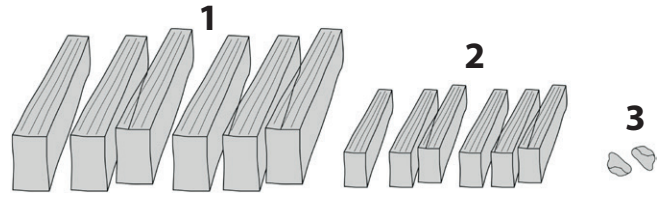
- ♦ Open the throttle valve, if present, on the flue pipe, too.
- ♦ Open the PRIMARY damper.
- ♦ After igniting the fire with small pieces of firewood and waiting for it to be well lit.
- ♦ Leave the dampers and the throttle valve on the flue pipe open, if present.
- ♦ Once the fire is well lit, adjust the dampers to obtain the nominal heat output.
- ♦ Close the throttle valve, if present, on the flue pipe.

THE DAMPERS MUST BE ADJUSTED DURING IGNITION as follows:

COMBUSTION Air	TERTIARY Air
OPEN	PRE-ADJUSTED

FIRST LOAD IGNITION (see **figure A**):

- For ignition, arrange the largest pieces of firewood (**1**) with a maximum length of 25 cm at the bottom;
- Arrange the finer pieces of firewood (**2**), with a maximum length of 25 cm, on top of the other pieces (**1**);
- Place the fire starter (**3**) at the top of the woodpile, which may be, for example wood wool impregnated with wax;
- Light the fire starter (**3**). One match is enough to light the fire.



MAXIMUM PERMISSIBLE WEIGHT

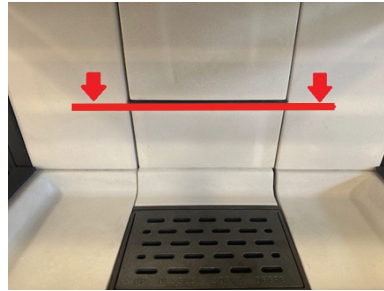
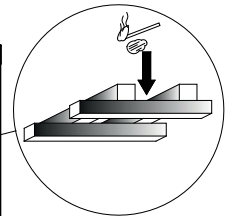
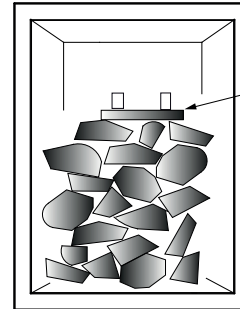


Figure A



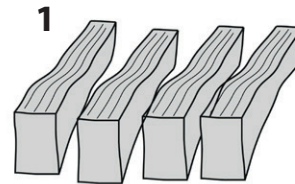
NEVER OVERLOAD THE APPLIANCE. TOO MUCH FUEL AND COMBUSTION AIR CAN CAUSE OVERHEATING AND THUS DAMAGE THE APPLIANCE. THE WARRANTY DOES NOT COVER DAMAGE DUE TO OVERHEATING OF THE APPLIANCE.

After lighting the fire, leave the combustion air damper in the position indicated:

COMBUSTION Air	TERTIARY Air
OPEN	PRE-ADJUSTED

SECOND LOAD IGNITION:

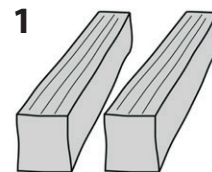
Use large pieces of firewood (1) 25 cm long.
Reload only when the flame is nearly extinguished.



TO AVOID ESCAPING SMOKE, THERE SHOULD BE ONLY EMBERS WHEN THE FIREWOOD IS LOADED.

THIRD LOAD IGNITION:

The nominal load consists of large pieces of firewood (1) 25 cm long.
Reload only when the flame is nearly extinguished.



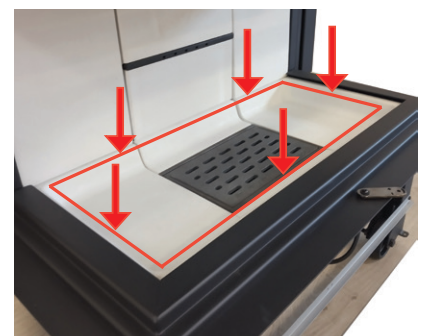
DO NOT EXCEED THE MAXIMUM FIREWOOD LOAD - SEE TECHNICAL DATA AND HOURLY CONSUMPTION IN THE DOCUMENT "CE MARKING INFORMATION".

Upon completion of the ignition cycle, load more firewood to bring the product up to the optimal operating speed.

To achieve nominal operation, a bed of embers approximately 3cm high (20-25% of the nominal load) is required.

If the ember bed is excessive, first stir it with the poker to allow the ash to fall into the ash drawer, then use a metal shovel to remove the excess embers.

The embers must not exceed the reference shown in the figure opposite.



NORMAL OPERATION

Before placing the firewood, fully open the primary air damper and, using the supplied poker, stir the embers to reignite them. Once the firewood is in the combustion chamber (see LOADING INSTRUCTIONS) close the door and wait up to 3 minutes for the flame to ignite, then set the damper in the appropriate position to obtain the nominal output. Loading takes approximately 45 minutes.

LOADING INSTRUCTIONS

No. logs	2
Nominal load weight	2.9 kg
Log length	33 cm
Positioning in chamber	7 cm from profile (see figure)
Log shape	(see figure)

TO OBTAIN THE NOMINAL HEAT OUTPUT, THE DAMPERS MUST BE SET AS FOLLOWS:

COMBUSTION Air	TERTIARY Air
Figure 13	PRE-ADJUSTED

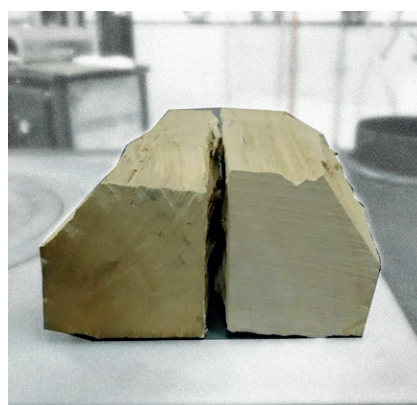
Loading is complete when, after loading, the combined weight of the ember and ash bed does not differ by more than 100g from the weight of the previous load.

THE USE OF THERMAL INSULATION ACCORDING TO ENERGY-SAVING REGULATIONS INCREASES THE HEATED VOLUME. IN THE CASE OF TEMPORARY HEATING WITH INTERRUPTIONS OF MORE THAN 8 H, THE HEATING CAPACITY DECREASES BY APPROXIMATELY 25%.

THE TECHNICAL DATA DECLARED IN THE DOCUMENT "CE MARKING INFORMATION" WERE OBTAINED USING CLASS "A1" BEECH WOOD ACCORDING TO UNI EN ISO 17225-5 WITH A MOISTURE CONTENT OF LESS THAN 20%. THE USE OF OTHER WOOD TYPES MAY REQUIRE SPECIFIC ADJUSTMENTS AND COULD RESULT IN DIFFERENT PRODUCT PERFORMANCE.



Log shape



ALWAYS USE THE PRODUCT WITH THE DOOR CLOSED TO AVOID DAMAGE DUE TO OVERHEATING (FORGING EFFECT). FAILURE TO DO SO WILL INVALIDATE THE WARRANTY.



FOR SAFETY REASONS, THE FIREBOX DOOR MAY ONLY BE OPENED DURING FUEL LOADING. THE FIREBOX MUST REMAIN CLOSED DURING OPERATION AND PERIODS OF NON-USE.

The dampers are used to regulate the heat output of the firebox. They should be opened according to the required heat output. The best combustion (with minimal emissions) is achieved when, after loading wood, most of the combustion air passes through the secondary air damper.

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

MAINTENANCE AND CARE

FOLLOW ALL THE INSTRUCTIONS WITH MAXIMUM SAFETY!

- ♦ ENSURE THE POWER CORD (WHERE PRESENT) IS UNPLUGGED.
- ♦ THAT THE HEATER AND ALL ITS PARTS HAVE COOLED.
- ♦ THAT THE ASHES HAVE FULLY COOLED.
- ♦ ENSURE EFFICIENT AIR EXCHANGE IN THE ROOM WHEN CLEANING THE PRODUCT.
- ♦ POOR CLEANING NEGATIVELY AFFECTS THE PERFORMANCE AND SAFETY OF THE PRODUCT!

REGULAR CLEANING UNDER THE USER'S RESPONSIBILITY

The periodic cleaning operations, as indicated in this use and maintenance manual, must be performed with the utmost care after reading the instructions, procedures and regularity described herein.

CHECK AND CLEAN THE FRESH AIR INTAKE AT LEAST ONCE A YEAR. THE CHIMNEY MUST BE REGULARLY SWEEPED BY THE CHIMNEY SWEEP. HAVE YOUR LOCAL CHIMNEY SWEEP CHECK THE PROPER INSTALLATION OF THE PRODUCT, CONNECTION TO THE CHIMNEY AND VENTILATION



CLEANING AND MAINTENANCE MUST ONLY BE PERFORMED WHEN THE APPLIANCE IS COLD. USE ONLY SPARE PARTS EXPRESSLY AUTHORISED AND SUPPLIED BY LA NORDICA S.P.A. PLEASE CONTACT YOUR SPECIALISED RETAILER IF YOU REQUIRE SPARE PARTS. NO CHANGES MUST BE MADE TO THE APPLIANCE!!!

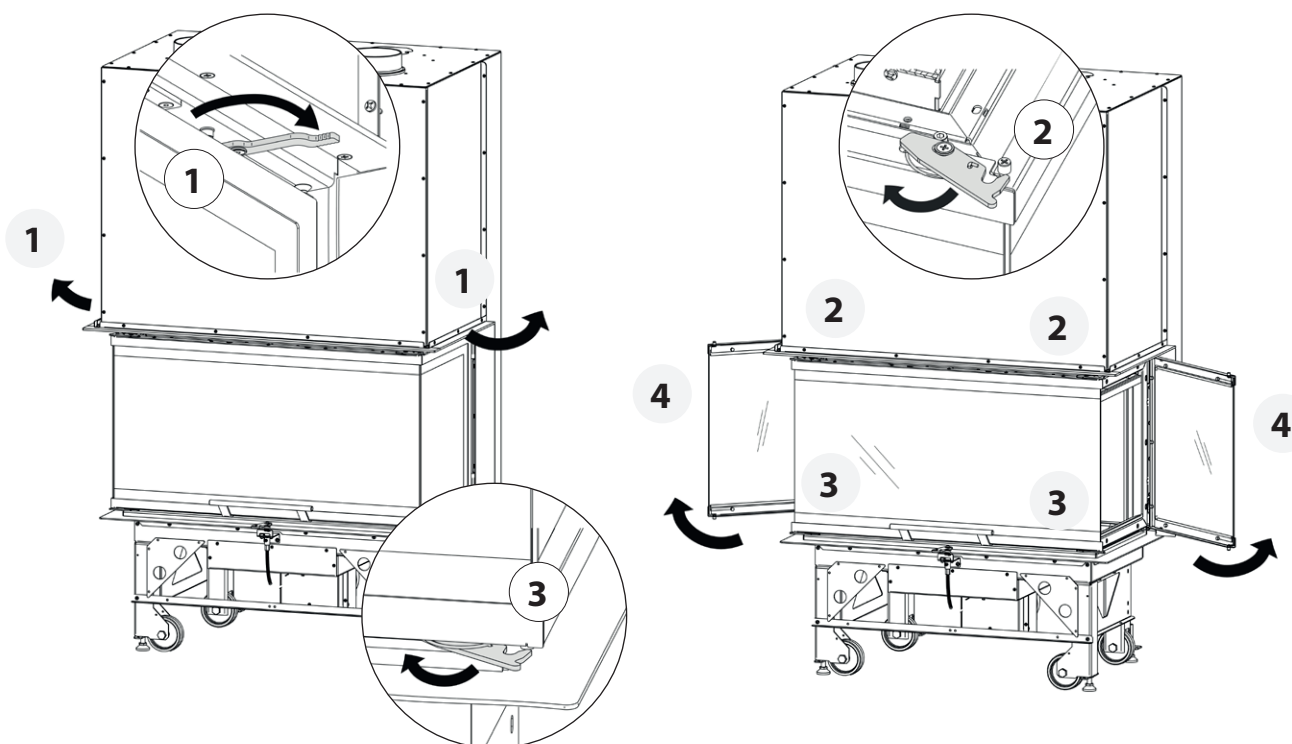
CLEANING THE GLASS

After ensuring that the door is fully lowered, lock the door using the upper side bolts (Figure 14, pos.1), then open the 2 upper front bolts and the 2 lower front bolts (Figure 14 pos.2 pos.3).

Open the side glass panels (Figure 14 pos.4) to access the inner surface of the front glass for proper cleaning.

Once all the glass panels have been cleaned, close the side glass panels first, then the upper and lower front bolts (Figure 14 pos.2 pos.3), then unlock the side bolts (Figure 14 pos.1). Only now can the door be lifted upwards.

Figure 14



A specific secondary air inlet effectively slows down the formation of dirt deposits on the door glass. However, such deposits can never be avoided with the use of solid fuels (e.g. damp firewood) and are not to be regarded as a defect of the appliance.



THE PANORAMIC GLASS MUST ONLY BE CLEANED WHEN THE APPLIANCE IS COLD TO PREVENT IT FROM EXPLODING. CLEANING CAN BE DONE USING SPECIFIC PRODUCTS OR BY DAMPENING A BALL OF NEWSPAPER AND PASSING IT THROUGH THE ASH. HOWEVER, DO NOT USE ABRASIVE OR CHEMICALLY AGGRESSIVE CLOTHS OR PRODUCTS.

Proper ignition, the right type and amount of fuel, the correct setting of the secondary air damper, a suitable chimney draught and steady supply of combustion air are all essential for the optimal performance of the appliance and in keeping the glass clean.



GLASS BREAKAGE: THE GLASS PANES, MADE OF HIGH-QUALITY GLASS-CERAMIC, ARE RESISTANT TO THERMAL SHOCKS AND CAN WITHSTAND TEMPERATURE VARIATIONS OF UP TO 750°C. IT CAN ONLY BE BROKEN BY MECHANICAL SHOCKS (BUMPS OR VIOLENT CLOSURE OF THE DOOR, ETC.). THEREFORE, THEIR REPLACEMENT IS NOT INCLUDED IN THE WARRANTY.

CLEANING THE ASH DRAWER

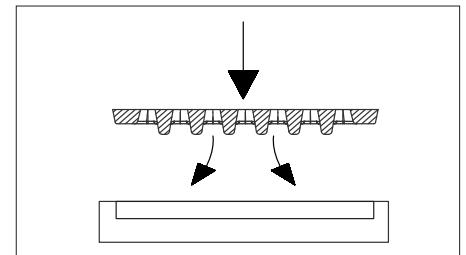
All products have a firebox grate and ash drawer **Figure 15**. We recommend that you periodically empty the ash drawer and avoid filling it completely, so as not to overheat the grate. Moreover, it is suggested to always leave 3-4 cm of ash in the firebox.



CAUTION: THE ASHES REMOVED FROM THE FIREBOX MUST BE STORED IN A CONTAINER MADE OF FIREPROOF MATERIAL FITTED WITH AN AIRTIGHT COVER. THE CONTAINER MUST BE PLACED ON A FIREPROOF FLOOR, AWAY FROM FLAMMABLE MATERIALS UNTIL THE ASH IS EXTINGUISHED AND FULLY COOLED.

CLEANING THE FIREBOX GRATE

IMPORTANT: If for any reason the grate is removed from the firebox, it is **IMPORTANT**, when replacing it, that the flat part with the narrower ash passages be facing upwards; failure to do so would make it difficult to remove the ash from the grate (see figure opposite).



CLEANING THE FLUE

Proper ignition, the right type and amount of fuel, the correct setting of the secondary air damper, a suitable chimney draught and steady supply of combustion air are all essential for the optimal performance of the appliance and in keeping the glass clean. **THE APPLIANCE SHOULD BE THOROUGHLY CLEANED AT LEAST ONCE A YEAR OR WHENEVER REQUIRED (IN CASE OF POOR PERFORMANCE AND LOW OUTPUT). EXCESSIVE SOOT (CREOSOTE) DEPOSITS CAN LEAD TO PROBLEMS IN THE FLUE EXHAUST AND TO FLUE FIRES.**

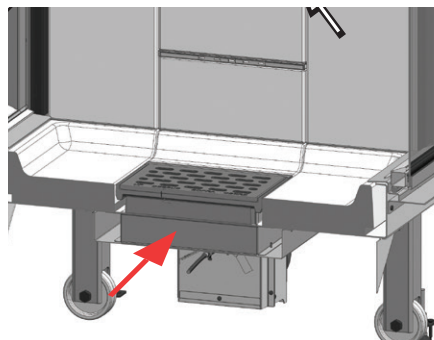


CLEANING MUST ONLY BE CARRIED OUT WHEN THE APPLIANCE IS COLD. THIS PROCEDURE SHOULD BE CARRIED OUT BY A CHIMNEY SWEEP, WHO CAN PERFORM AN INSPECTION AT THE SAME TIME.

During cleaning, the ash drawer (1) and smoke baffle (2) must be removed from the appliance to facilitate cleaning of the soot.

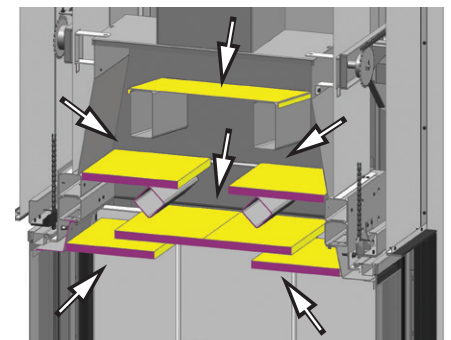
The baffles can be easily extracted from their seats since they are not fastened using screws. When cleaning is complete, they must be replaced in their seats.

Figure 15



1 - ASH DRAWER

Figure 16



2 - SMOKE BAFFLE



THE ABSENCE OF THE SMOKE BAFFLE CAUSES A STRONG VACUUM WITH EXCESSIVELY RAPID COMBUSTION, EXCESSIVE FIREWOOD CONSUMPTION AND RELATIVE OVERHEATING OF THE APPLIANCE.

EXTENDABLE GUIDE MAINTENANCE

The doors are mounted on extendable ball-bearing guides to ensure smooth, reliable and silent operation. With continuous use, the lubricant on the guides gradually depletes, making them less smooth and noisier. Therefore, each appliance comes with high-temperature grease, allowing the user to lubricate the guides when necessary (in case of excessive noise or reduced smoothness). After having fully raised the fireplace door, use a syringe to apply two small drops of grease (each corresponding to 0.5 ml on the syringe scale) inside the track at the highest visible point.



DO NOT EXCEED THE RECOMMENDED AMOUNT. REPEAT THE PROCEDURE ON THE OTHER TRACK, RAISING AND LOWERING THE DOOR MULTIPLE TIMES TO ENSURE THE GREASE IS EVENLY DISTRIBUTED ACROSS ALL THE BALL BEARINGS.

CAUTION: USE ONLY THE GREASE SUPPLIED BY LA NORDICA S.P.A.

SUMMER SHUTDOWN

After cleaning the firebox, chimney and flue, ensuring that all ash and any other residue have been removed, all doors and relative firebox dampers should be closed. If the appliance is disconnected from the chimney, the outlet hole should be closed.

IT IS ADVISABLE TO CLEAN THE FLUE AT LEAST ONCE A YEAR; AT THE SAME TIME CHECK THE ACTUAL CONDITION OF THE GASKETS, WHICH, IF NOT PERFECTLY INTACT - I.E. NO LONGER ADHERING TO THE PRODUCT - WOULD NOT GUARANTEE THE PROPER FUNCTIONING OF THE APPLIANCE! REPLACEMENT WOULD THEREFORE BE NECESSARY.



IF THE APPLIANCE IS INSTALLED IN A DAMP ROOM, PLACE ABSORBENT SALTS INSIDE THE FIREBOX. TO PRESERVE THE APPEARANCE OF THE APPLIANCE OVER TIME, PROTECT CAST-IRON PARTS WITH NEUTRAL VASELINE.

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ROUTINE MAINTENANCE PERFORMED BY QUALIFIED TECHNICIANS

ROUTINE MAINTENANCE MUST BE PERFORMED AT LEAST ONCE A YEAR.

SINCE THE HEATER USES FIREWOOD AS A SOLID FUEL, ANNUAL ROUTINE MAINTENANCE IS REQUIRED, WHICH MUST BE CARRIED OUT BY A QUALIFIED TECHNICIAN, USING ONLY ORIGINAL SPARE PARTS.

FAILURE TO COMPLY MAY JEOPARDISE SAFETY OF THE APPLIANCE AND INVALIDATE THE WARRANTY CONDITIONS.

Observing the cleaning frequencies reserved for the user as described in the use and maintenance manual will ensure the heater's proper combustion over time, avoiding any anomalies and/or malfunctions that could require additional call-outs.

REQUESTS FOR ROUTINE MAINTENANCE ARE NOT COVERED BY THE PRODUCT WARRANTY.

GASKETS

The gaskets ensure the airtightness and proper functioning of the product.

THEY MUST BE REGULARLY CHECKED. THEY MUST BE REPLACED IMMEDIATELY IF THEY ARE WORN OR DAMAGED.

THESE OPERATIONS MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.

CONNECTION TO THE CHIMNEY

ANNUALLY, OR WHENEVER THE DUCT LEADING TO THE CHIMNEY NEEDS TO BE VACUUMED AND CLEANED. IF THERE ARE HORIZONTAL SECTIONS, REMOVE ANY RESIDUE BEFORE IT OBSTRUCTS THE PASSAGE OF SMOKE.

EN 16510-1 Symbol	EXPLANATION
<i>nom</i>	Nominal heat output
<i>part</i>	Part load heat output
<i>CON / INT</i>	Appliance operation, Continuous (CON) or Intermittent (INT)
$CO_{2\text{ nom}} / CO_{2\text{ part}}$	Carbon dioxide emission
$CO_{\text{ nom}} / CO_{\text{ part}}$	Carbon monoxide emission
d_B	Minimum distances to combustible materials - bottom
d_C	Minimum distances to combustible materials - ceiling
d_F	Minimum distances to combustible materials - floor in front
d_L	Minimum distances to combustible materials - side radiation area
d_{non}	Minimum distances to non-combustible walls
d_{out}	Flue gas exhaust pipe
d_p	Minimum distances to adjacent combustible materials - front
d_R	Minimum distances to combustible materials - rear
d_s	Minimum distances to combustible materials - side
<i>E, f</i>	Power supply voltage, frequency
<i>EEl</i>	Energy Efficiency Index
el_{max}	Consumption of electrical auxiliary energy at nominal heat output
el_{min}	Consumption of electrical auxiliary energy at part load heat output
el_{SB}	Consumption of electrical auxiliary energy at standby
<i>H</i>	Appliance height
<i>L</i>	Appliance depth
<i>m</i>	Net weight
m_{chim}	Maximum load of a chimney the appliance max carry
$m_{h\text{ nom}} / m_{h\text{ part}}$	Hourly consumption
$NO_{x\text{ nom}} / NO_{x\text{ part}}$	Nitrogen oxides emission
$OGC_{\text{ nom}} / OGC_{\text{ part}}$	Emission of organic gaseous carbon
$PM_{\text{ nom}} / PM_{\text{ part}}$	Particulate matter emissions
$P_{\text{ nom}} / P_{\text{ part}}$	Heat output
$p_{\text{ nom}} / p_{\text{ part}}$	Minimum flue draught
$P_{SH\text{ nom}} / P_{SH\text{ part}}$	Space heat output
p_W	Permissible maximum water operating pressure
$P_{W\text{ nom}} / P_{W\text{ part}}$	Water heat output
<i>s</i>	Thickness of the protective insulation material
T_{class}	Chimney designation
$T_{fg\text{ nom}} / T_{fg\text{ part}}$	Mean flue gas temperature
$T_{s\text{ nom}} / T_{s\text{ part}}$	Flue gas outlet temperature
<i>W</i>	Appliance width
W_{max}	Maximum electric power input
$\eta_{\text{ nom}} / \eta_{\text{ part}}$	Efficiency
η_s	Seasonal space heating efficiency at nominal heat output
$\Phi_{fg\text{ nom}} / \Phi_{fg\text{ part}}$	Flue gas mass flow
<i>Wood Pellet (L)</i>	Wood Pellet
<i>Wood Logs (l)</i>	Wood Logs
	Read and follow the user operating instructions



Riscalda la vita.

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MADE IN ITALY
design & production

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The manufacturer reserves the right to vary the characteristics and the data reported in this pamphlet at any moment and without notice, in order to improve its products.