



INSERT

VIVO 90 COMFORT AIR 9 M1

SLIM/BASIC version

VIVO 90 COMFORT AIR 11 M1

SLIM/BASIC version

PART 1 - REGULATIONS AND ASSEMBLY

Instructions in English

The MCZ logo is rendered in a bold, black, sans-serif font. The letters 'M' and 'C' are connected, and the 'Z' is a simple, thick stroke.



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INTRODUCTION

Dear Customer,

Our products are designed and manufactured in compliance with European reference standards for construction products (EN13240 for wood-burning stoves, EN14785 for pellet-burning appliances, EN13229 for fireplaces/wood-burning inserts and EN 12815 for wood-burning range cookers), with high quality materials and extensive experience in transformation processes. The products also meet the essential requirements of Directive 2006/95/EC (Low Voltage) and Directive 2004/108/EC (Electromagnetic Compatibility).

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

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

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

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

REVISIONS TO THE PUBLICATION

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

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

CARE OF THE MANUAL AND HOW TO CONSULT IT

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

SYMBOLS USED IN THE MANUAL

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



SAFETY PRECAUTIONS

- **Installation, electrical connection, operating check and maintenance must only be carried out by authorised and qualified personnel.**
- **Install the product in accordance with all local and national legislation and regulations in force in the region or state.**
- Only use the fuel recommended by the manufacturer. The product must not be used as an incinerator.
- It is strictly forbidden to use alcohol, petrol, liquid fuel for lanterns, diesel, bio-ethanol, fluids for lighting charcoal or similar liquids to light/rekindle the flame in these devices. Keep these flammable liquids well away from the appliance when in use.
- Do not put any fuel other than wood pellets in the hopper.
- The instructions provided in this manual must always be complied with to ensure the product and any electronic appliances connected to it are used correctly and to prevent accidents.
- **This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge provided they are supervised or have been given instructions regarding use of the appliance in a safe way and understand the hazards involved. Children must not play with the appliance. Cleaning and maintenance to be performed by the user must not be carried out by children without supervision.**
- The user, or whoever is operating the product, must read and fully understand the contents of this installation guide before performing any operation. Errors or incorrect settings may cause hazardous conditions and/or incorrect operation.
- Do not climb on or lean on the product.

1-WARNINGS AND WARRANTY CONDITIONS

- Do not dry laundry on the product. Any drying racks or the like must be kept at a safe distance from the product. **Fire hazard.**
- *All liability for improper use of the product is entirely borne by the user and relieves the manufacturer of any civil and criminal liability.*
- Any type of tampering or unauthorised replacement with non-original spare parts may be hazardous for the operator's safety and relieves the company of any civil and criminal liability.
- Many surfaces of the product get very hot (door, handle, glass, smoke outlet pipes, etc.). **Avoid coming into contact with these parts without adequate protective clothing or suitable equipment, such as gloves with thermal protection** or "cold handle" operating systems.
- **It is forbidden to operate the product with the door open or the glass broken.**
- **The doors/covers on the appliance must remain closed when it is not being used.**
- The product must be powered by an electrical system that is equipped with an effective earthing device.
- Switch the product off in the event of a fault or malfunction.
- Accumulated unburnt pellets in the burner after each "failed ignition" must be removed before lighting again. Check that the burner is clean and positioned properly before lighting again.
- Do not wash the product with water. Water may penetrate inside the unit and damage the electrical insulation and cause electric shocks.
- Do not stand for a long time in front of the product in operation. Do not overheat the room you are in and where the product is installed. This may harm one's physical conditions and cause health problems.
- Install the product in a location that does not present a fire hazard and is equipped with power and air supplies and smoke outlets.
- In the event of fire in the chimney, turn off the device, disconnect it from the mains and do not open the hatch whatsoever. Then contact the competent authorities.

1-WARNINGS AND WARRANTY CONDITIONS

- The product and the cladding must be stored in a dry place and must not be exposed to weathering.
- It is recommended not to remove the feet that support the product in order to ensure adequate insulation, especially if the flooring is made of flammable materials.
- In the event of a malfunction of the ignition system, do not force it on by using flammable materials.
- Special maintenance must only be performed by authorised and qualified personnel.
- Assess the static conditions of the surface that the weight of the product will rest on and provide suitable insulation if it is made of flammable material (e.g. wood, fitted carpet or plastic).
- Live electrical parts: only power the product once it has been fully assembled.
- Disconnect the product from the 230V power supply before performing any maintenance operations.
- Improper use or poor maintenance of the product can cause hazardous situations to arise.
- **It is forbidden to manually load the fuel into the brazier. Failure to follow this warning can lead to hazardous situations.**
- **Before the product is restarted, always remove any unburned pellets building up in the brazier due to failed ignition, the emptying of the hopper or any situation that may cause this condition.**

1-WARNINGS AND WARRANTY CONDITIONS

INFORMATION:

Please contact the retailer or qualified personnel authorised by the company to resolve a problem.

- Only use the fuel specified by the manufacturer.
- When the product is switched on for the first time, it is normal for it to emit smoke due to the paint heating up for the first time. Therefore make sure the room it is installed in is well-ventilated.
- Check and clean the smoke outlet pipes regularly (chimney fitting).
- The product is not a cooking appliance.
- Always keep the cover of the fuel hopper closed.
- Store this installation and user manual with care as it must accompany the product for the duration of its useful life. If the product is sold or transferred to another user, always ensure the manual is also handed over.

INTENDED USE

The product only works with wood pellets and must be installed indoors.

PRODUCT PERFORMANCE CHECKS.

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

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

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

WARRANTY CONDITIONS

The company guarantees the product, **with the exception of parts subject to normal wear** (listed on the following page), for a period of **2 (two) years** from the date of purchase attested by:

- a document that serves as proof of purchase (invoice and/or receipt) that shows the name of the vendor and the date that the purchase was made on;
- forwarding of the completed warranty certificate within 8 days of purchase.

Furthermore, in order for the warranty to be valid, the device must be installed and calibrated by qualified personnel, and where necessary, the user must be issued with a declaration of conformity and correct product operation.

We recommend testing the product before completing the relative finishes (cladding, painting walls, etc.). Installations that do not meet the current standards, improper use and lack of maintenance as required by the manufacturer, void the product warranty.

The warranty is valid on the condition that the instructions and warnings contained in the user and maintenance manual are observed, and therefore the product is used correctly.

1-WARNINGS AND WARRANTY CONDITIONS

Replacement of the entire system or repair of one of its components does not extend the warranty period, and the original expiry date remains unchanged.

The warranty covers the replacement or free repair **of parts recognised as being faulty at source due to manufacturing defects**. In the event of a fault, to benefit from the warranty, the customer must keep the warranty certificate and provide it along with the document given at the time of purchase to the Technical Service Centre.

EXCLUSIONS

The warranty does not cover malfunctions and/or damage to the appliance that arise due to the following causes:

- Damage caused during transport and/or handling
- all parts that develop faults due to negligence or improper use, incorrect maintenance, installation that does not comply with the manufacturer's instructions (always refer to the installation guide provided with the appliance)
- incorrect sizing with regard to the use or faults in the installation or failure to implement the necessary measures to ensure proper execution
- improper overheating of the equipment, i.e. the use of fuels not conforming to the types and quantities indicated in the provided instructions
- further damage caused by incorrect user operations in an attempt to fix the initial fault
- worsening of the damage caused by the user continuing to operate the appliance even after the fault has been detected
- in the presence of a boiler, any corrosion, deposits or breakage caused by water flow, condensation, hardness or acidity of the water, improperly performed descaling treatments, water outage, mud or limescale deposits
- inefficiency of chimneys, flues or parts of the system affecting the appliance
- damage caused by tampering with the appliance, atmospheric agents, natural disasters, vandalism, electrical discharges, fires, faults in the electric and/or hydraulic system.
- Failure to have yearly stove maintenance performed by an authorised technician or qualified personnel shall render the warranty void.

The following are also excluded from this warranty:

- parts subject to normal wear such as gaskets, glass, cladding and cast iron grilles, painted, chrome-plated or gilded parts, handles and electric cables, bulbs, indicator lights, knobs, all parts which can be removed from the firebox.
- Variations in colour of the painted or ceramic/serpentine parts and crazed ceramics as they are natural characteristics of the material and product use.
- masonry work
- system parts (if included) not supplied by the manufacturer

Any technical operations on the product to remove the aforementioned defects and consequent damage must be agreed upon with the Technical Service Centre, who reserves the right to accept the relative appointment or not. However, said operations shall not be carried out under warranty but as technical support to be granted as part of any potentially and specifically agreed conditions and in accordance with the fees in force for the work to be carried out.

The user will also be charged for any costs incurred to remedy the incorrect technical operations, tampering or damage to the appliance, not attributable to original faults.

Without prejudice to the legal or regulatory limits, the warranty does not cover the containment of atmospheric and acoustic pollution.

The company declines all liability for any damage which may be caused, directly or indirectly, to persons, animals or objects as a consequence of non compliance with any provision specified in the manual, especially warnings regarding installation, use and maintenance of the appliance.

1-WARNINGS AND WARRANTY CONDITIONS

SPARE PARTS

In the event of a malfunction, consult the retailer who shall forward the call to the Technical Assistance Department.

Only use original spare parts. The retailer or service centre can provide all necessary information regarding spare parts. We do not recommend waiting for the parts to get worn out before having them replaced. It is crucial to perform regular maintenance checks.



The company declines all liability if the product and any other accessory is used improperly or modified without authorisation.

All parts must be replaced with original spare parts.

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



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

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

Separate collection and proper treatment of waste electrical and electronic equipment, batteries and accumulators help preserve natural resources and safeguard the environment as well as ensuring health protection.

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

WHY SEALED

Products built with a perfectly sealed structure do not consume the room's oxygen but draw all the air from the outer environment (if suitably ducted) and may therefore be installed in all houses that require a high degree of insulation such as "passive" or "high energy efficiency" houses. Thanks to this technology there is no risk of smoke emissions into the room, hence no air inlets and relative ventilation grilles are required on the installation premises.

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

2-INSTALLATION



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

PELLETS

Wood pellets are manufactured by extruding sawdust which is produced during the processing of natural dried wood (without paint). The compactness of the material is guaranteed by the lignin contained in the wood itself and allows the pellets to be produced without glue or binders.

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

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

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

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



15 Kg BAG OF PELLETS



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

The main quality certifications for pellets currently available on the European market guarantee that the fuel complies with class A1/A2 according to ISO 17225-2 (ex EN 14961). These certifications include, for example, **ENplus**, **DINplus**, **Ö-Norm M7135**, and specifically assure that the following characteristics are complied with:

- calorific value: 4.6 - 5.3 kWh/kg.
- Water content: $\leq 10\%$ of the weight.
- Percentage of ash: max 1.2% of the weight (A1 less than 0.7%).
- Diameter: $6 \pm 1/8 \pm 1$ mm.
- Length: 3-40 mm.
- Content: 100% untreated wood without the addition of binding agents (max 5% bark).
- Packaging: in sacks made from ecologically compatible or biologically decomposing material.



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

2-INSTALLATION

FOREWORD

The installation position must be chosen according to the room, smoke extraction system and flue. Check with local authorities whether there are any restrictive regulations in force regarding the combustion air inlet, the smoke outlet system, the flue or the chimneypot. The manufacturer declines all responsibility in the event of installations that do not comply with the laws in force, incorrect room air exchange, electrical connection non-compliant with the standards and inappropriate use of the appliance. The installation must be carried out by a qualified technician, who must issue a declaration of conformity of the system to the purchaser and shall assume full responsibility for final installation and consequent good operation of the product.

In particular one must ensure that:

- there is a suitable combustion air inlet and smoke outlet in compliance with the type of product installed
- other stoves or devices installed do not cause negative pressure in the room where the product is installed (for sealed appliances only, a maximum of 15 Pa of negative pressure in the room is allowed)
- when the product is switched on there is no reflux of smoke in the room
- smoke extraction takes place in full safety (sizing, smoke seal, distances from flammable materials...).

We especially recommend checking the data plates of the flue for the safety distances that must be observed in the presence of combustible materials and the type of insulating material to be used. These indications must be followed strictly to prevent serious harm to people and to the integrity of the home. Installation of the appliance must ensure easy access to clean the appliance itself, the smoke outlet pipes and the flue. **It is forbidden to install the stove in rooms with a fire hazard. Installation in studio flats, bedrooms and bathrooms is only permitted with sealed or closed appliances equipped with suitable combustion air ducting directly outside. Always maintain adequate distance and protection in order to prevent the product from coming into contact with water.**

If there are several appliances installed, the external air inlet must be sized accordingly.

MINIMUM DISTANCES

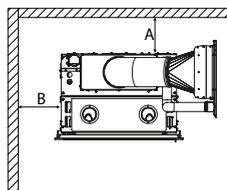
It is recommended to install the stove detached from any walls and/or furniture, with a minimum clearance to allow effective aeration of the appliance and a good distribution of heat in the room. Comply with the distances from flammable or heat-sensitive objects (sofas, furniture, wood panelling, etc.) as specified below. The frontal distance from flammable materials must be at least as specified in the product's technical data table.

If there are particularly delicate objects such as furniture, curtains or sofas, increase the stove distance accordingly.



If the floor is made of wood, it is recommended to fit a floor protection sheet in compliance with the standards in force in the country of installation.

	Non-flammable walls	Flammable walls
VIVO 90 COMFORT AIR 9 M1	A = 20 mm B = 20 mm	A = 220 + 30 (INSULATION) mm B = 70 + 30 (INSULATION) mm
VIVO 90 COMFORT AIR 11 M1	A = 20 mm B = 20 mm	A = 220 + 30 (INSULATION) mm B = 70 + 30 (INSULATION) mm



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

The appliance must be installed on a floor with adequate load capacity.

If the existing construction does not meet this requirement, appropriate measures must be taken (for example a load distribution plate).



Attention! The combustible material must be kept at least 30 cm away from the hot air vents.

2-INSTALLATION

FOREWORD

This Flue chapter has been drawn up with reference to the provisions of European Standards (EN13384 - EN1443 - EN1856 - EN1457). The chapter provides indications for installing an efficient and correct flue but is under no circumstances to substitute the regulations in force, which the qualified manufacturer must be in possession of. Check with local authorities whether there are any restrictive regulations in force regarding the combustion air intake, the smoke outlet system, the flue or the chimney pot. The Company declines all liability relating to the poor functioning of the stove if this is due to the use of an insufficiently sized flue in violation of the standards in force.

FLUE

The flue or chimney is of great importance for the proper operation of a solid fuel-burning heating appliance with forced draught, as modern heating appliances have high efficiency with cooler flue gases and consequently less draught, it is therefore crucial for the flue to be built to professional standard and always kept in perfect working order. A flue for a pellet/wood fuelled appliance must be at least category T400 (or greater if the appliance requires so) and resistant to soot fires. Smoke must be extracted through a single flue made of insulated steel (A) or an existing flue that complies with the intended use (B).

A simple air shaft made of cement must be suitably piped. In both solutions there must be an inspection cap (AT) and/or inspection access panel (AP) - FIG.1.

It is prohibited to connect more than one wood/pellet (*) or any other type of appliance (cowl vents ...) to the same flue.

(*) unless there are national derogations (for instance in Germany), which under suitable conditions allow for the installation of several appliances in the same fireplace. In any case, strictly follow the product/installation requirements of the relative regulations/legislation in force in that country

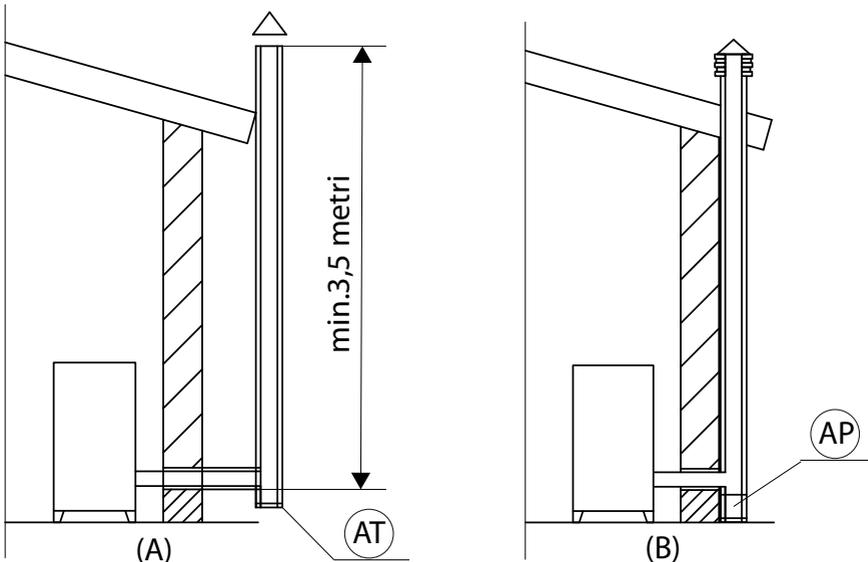


FIGURE 1 - FLUE

2-INSTALLATION

TECHNICAL SPECIFICATIONS

Have the efficiency of the flue checked by an authorised technician.

The flue must be sealed against flue gases, in a vertical direction without narrowing, be made with materials impermeable to smoke, condensation, thermally insulated and suitable to resist normal mechanical stress over time (we recommend fireplaces made of A/316 or refractory material with insulated round section double chamber). It must be suitably insulated externally to avoid condensation and reduce the smoke cooling effect. It must be separated from combustible or easily flammable materials via an air gap or insulating materials: check the distance specified by the chimney manufacturer according to EN1443. The chimney opening must be in the same room as the appliance, or at most in the adjoining room, and have a soot and condensation collection chamber beneath the opening, and be accessible via a sealed metal hatch.

FLAT ROOF

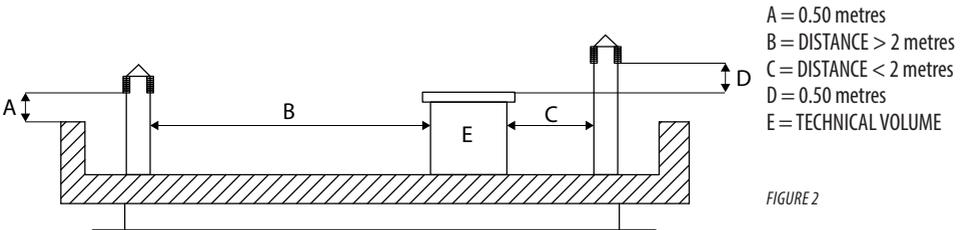


FIGURE 2

ROOF AT 15°

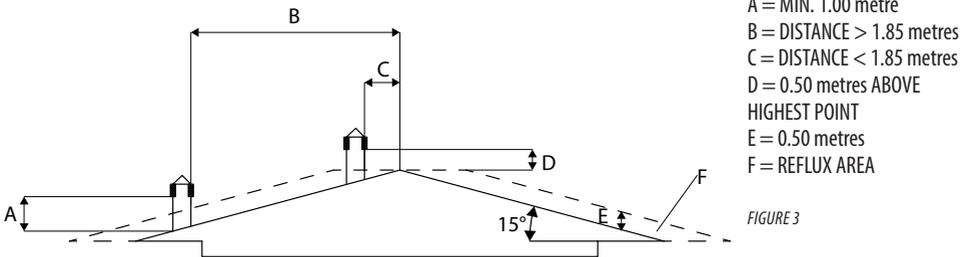


FIGURE 3

ROOF AT 30°

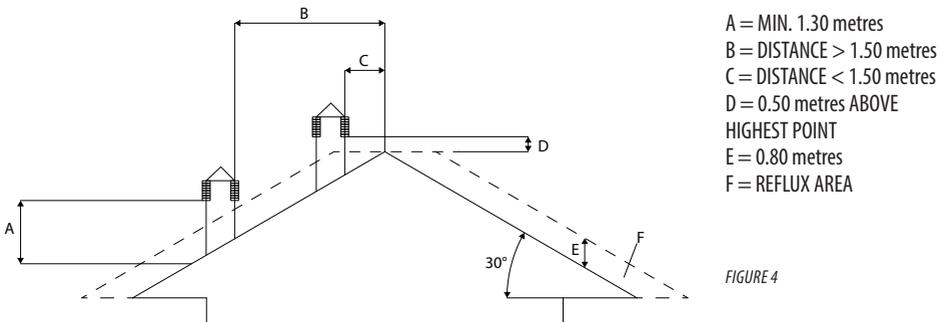


FIGURE 4

2-INSTALLATION

ROOF AT 60°

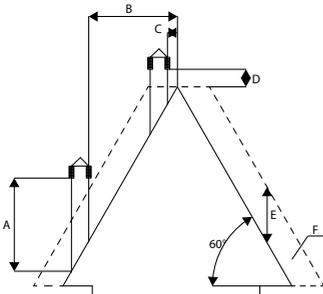


FIGURE 5

- A = MIN. 2.60 metres
- B = DISTANCE > 1.20 metres
- C = DISTANCE < 1.20 metres
- D = 0.50 metres ABOVE HIGHEST POINT
- E = 2.10 metres
- F = REFLUX AREA

ROOF AT 45°

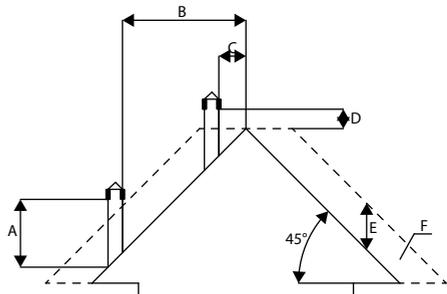


FIGURE 6

- A = MIN. 2.00 metres
- B = DISTANCE > 1.30 metres
- C = DISTANCE < 1.30 metres
- D = 0.50 metres ABOVE HIGHEST POINT
- E = 1.50 metres
- F = REFLUX AREA

SIZING

The negative pressure (draught) of a flue also depends on its height. Check the negative pressure with the values indicated in the technical specifications. The minimum height of the chimney is 3.5 metres.

The interior cross-section of the flue can be round (best solution), square or rectangular (the ratio between the internal sides must be ≤ 1.5) with the sides joined with a minimum radius of 20 mm. The dimension of the cross-section must be **minimum $\varnothing 100\text{mm}$** .

The cross-sections/lengths of the chimneys shown in the technical data tables are indications for correct installation. Any alternative configurations must be correctly sized in accordance with the general method of calculation of UNI EN13384-1 or other proven efficiency methods.

Some examples of flues available on the market are provided below:

AISI 316 steel chimney with double chamber insulated with ceramic fibre or equivalent resistant up to 400°C.

Refractory chimney with double insulated chamber and external lightweight concrete cladding with cellular material such as clay.

Traditional square-section clay chimney with insulating empty inserts.

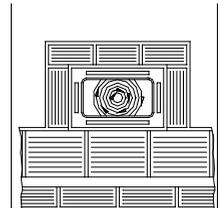
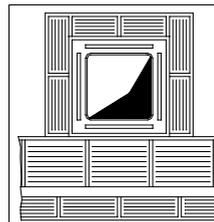
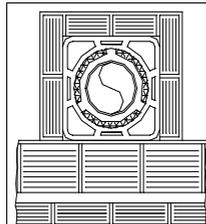
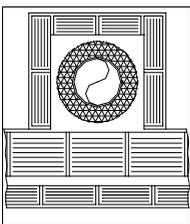
Avoid products with an internal rectangular section where the larger side is 1.5 times the smaller side (e.g. 20x40 or 15x30).

EXCELLENT

GOOD

POOR

VERY POOR



2-INSTALLATION

MAINTENANCE

The flue must be kept clean, since the deposit of soot or unburnt oils reduces the cross-section, blocking the draught and thus compromising the efficient operation of the stove and, if large build-ups accumulate, can catch fire. The flue and chimneypot must be cleaned and checked by a qualified chimney sweep at least once a year. Once the inspection/maintenance has been performed, request a written report that the system is safe.

Failure to perform cleaning jeopardises the system's safety.

CHIMNEYPOT

The chimneypot is a crucial element for correct operation of the heating appliance: we recommend a windproof chimneypot (A), see Figure 7.

The area of the opening for smoke extraction must be at least double the cross-section of the flue/piped system, and arranged so that the smoke outlet is ensured even in the presence of strong wind. The chimneypot must prevent rain, snow or animals from entering the chimney. The height of outflow into the atmosphere must be beyond the reflux area caused by the shape of the roof or any nearby obstacles (see Figures 2-3-4-5-6).

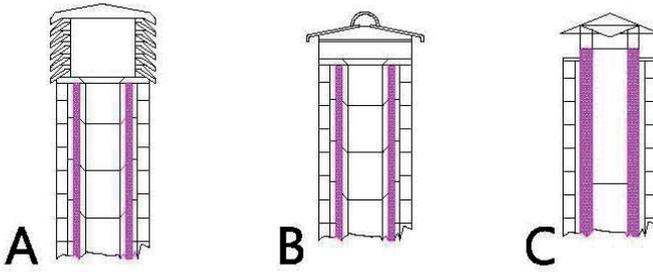
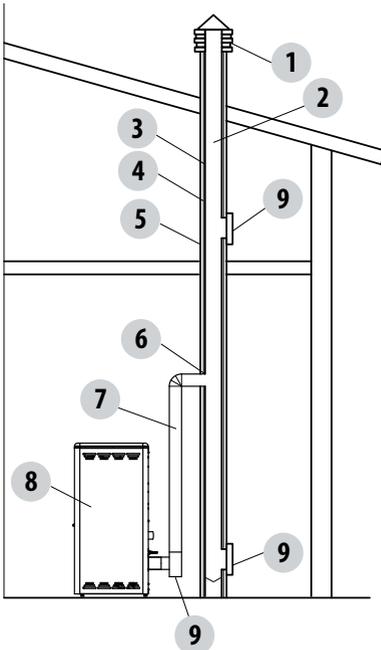


FIGURE 7

CHIMNEY COMPONENTS



- KEY:
- (1) CHIMNEYPOT
 - (2) REFLUX CHANNEL
 - (3) SMOKE DUCT
 - (4) THERMAL INSULATION
 - (5) OUTSIDE WALL
 - (6) CHIMNEY FITTING
 - (7) SMOKE DUCT
 - (8) HEAT GENERATOR
 - (9) INSPECTION ACCESS PANEL

FIGURE 8

2-INSTALLATION

EXTERNAL AIR INLET

It is mandatory to provide an adequate external air inlet that supplies the combustion air required for the product to work properly. The flow of air between the outside and the installation room may be direct, through an inlet in an external wall of the room (preferable solution see Figure 9 a), or indirect, via air intake from adjoining rooms and connecting permanently with the installation room (see Figure 9 b). Adjoining areas may not include sleeping areas, bathrooms, garages or general areas with a fire hazard. During installation it is required to check the minimum clearances required to draw air from outside. Take into account the presence of doors and windows that may interfere with the proper flow of air to the stove (see diagram below).

The air intake must have a minimum total net area of 80 cm²: the surface must be increased accordingly if other active generators (for example: electric fan for stale air extraction, kitchen hood, other stoves, etc.), which may cause negative pressure in the room, are installed. Make sure that, with all appliances on, the pressure drop between the room and the outside does not exceed the value of 4 Pa (also for Oyster appliances if the combustion air has not been suitably ducted outside). If required, increase the intake section of the air inlet, which must be made at floor level and always protected with a bird-proof outer protection grid and in such a way that it cannot be obstructed by any object.

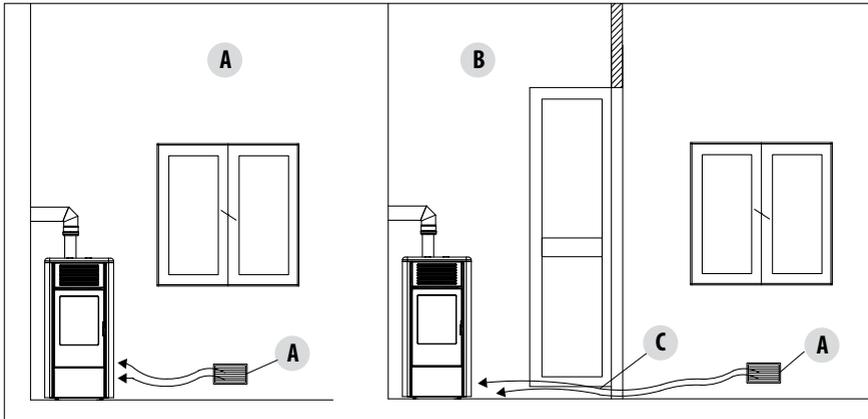
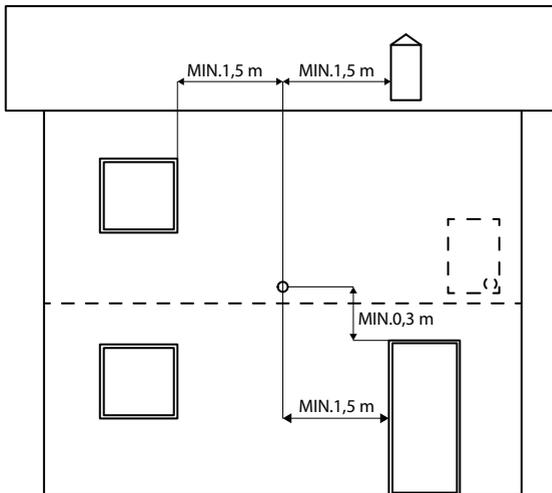


FIGURE 9 A - DIRECTLY FROM OUTSIDE

FIGURE 9 B - INDIRECTLY FROM THE ADJACENT ROOM



A=AIR INLET
B=ROOM TO BE VENTILATED
C=INCREASE OF THE GAP UNDER THE DOOR

It is possible to connect the air required for combustion directly to the outside air inlet, with a pipe of at least Ø50mm, with maximum length of 3 linear metres; each pipe bend shall be considered equivalent to a linear metre. To attach the pipe see the rear of the stove.

For stoves installed in studio flats, bedrooms and bathrooms (where allowed), it is mandatory to connect the combustion air outside. Specifically for sealed stoves the connection must be sealed in order not to compromise the overall sealing of the system.

FIGURE 10

2-INSTALLATION

DISTANCE (metres)	The air inlet must be at a distance of:	
1.5 m	BELOW	Doors, windows, smoke outlets, gaps,
1.5 m	HORIZONTALLY	Doors, windows, smoke outlets, gaps,
0.3 m	ABOVE	Doors, windows, smoke outlets, gaps,
1.5 m	AT A DISTANCE	from smoke outlet

CONNECTION TO THE FLUE

The connection between the flue and the appliance must be via a smoke duct compliant to EN 1856-2. The connecting section must extend no more than 4 m horizontally, with a minimum slope of 3% and with a maximum of 3 x 90° bends (accessible for inspection - do not count the Tee fitting at the appliance outlet).

The diameter of the smoke duct must be equal to or greater than that of the outlet of the appliance (Ø 80 mm).

TYPE OF SYSTEM	SMOKE DUCT
Minimum vertical length	1.5 metres
Maximum length (with 1 accessible 90° bend)	6.5 metres
Maximum length (with 3 accessible 90° bends)	4.5 metres
Maximum number of accessible 90° bends	3
Horizontal sections (minimum slope 3%)	4 metres

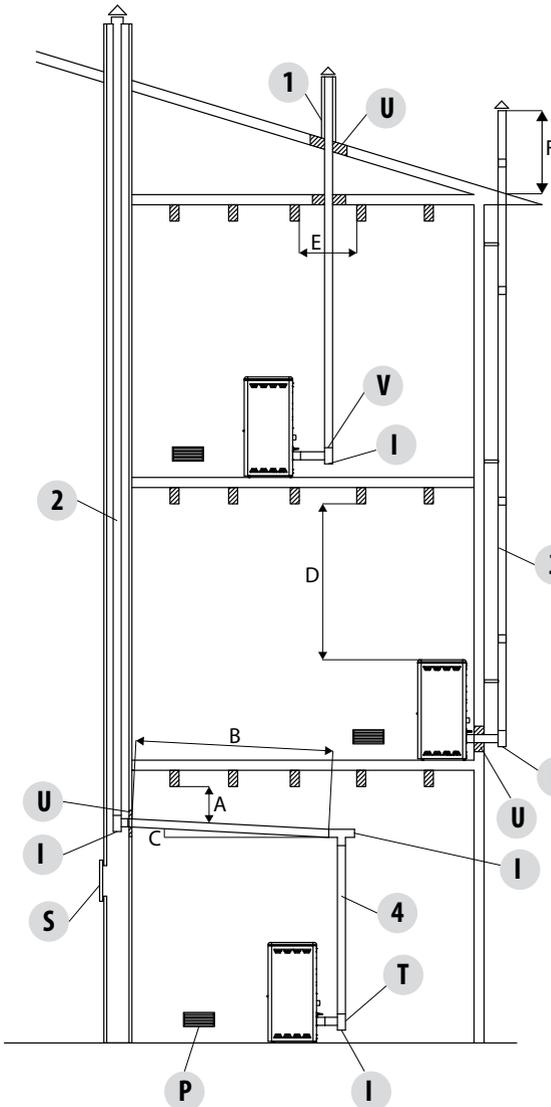
Use smoke ducts with a diameter of 80mm or 100mm depending on the type of system, with silicone gaskets or similar sealing devices that can withstand the high operating temperatures of the appliance (min. T200 class P1). **The use of flexible metal hoses made of fibre cement or aluminium is forbidden. For direction changes, we always recommend the use of a Tee fitting with an inspection cap allowing easy access for cleaning the tubes.** Always ensure that the inspection cap is put back in place and sealed hermetically with the relevant seal intact after cleaning.

It is prohibited to connect more than one appliance to the same smoke duct, or the discharge from hoods above it. It is forbidden to extract the combustion products directly through the wall, whether towards indoor spaces or outdoors.

The smoke duct must be at a minimum distance of 400 mm from flammable or heat-sensitive structures.

2-INSTALLATION

EXAMPLES OF CORRECT INSTALLATION



1. Installation of $\varnothing 120\text{mm}$ flue with hole for the passage of the pipe increased by:
 minimum 100mm around the pipe if next to non-flammable parts such as cement, brick, etc.; or
 minimum 300mm around the pipe (or as required by plate data) if next to flammable parts such as wood etc.
 In both cases, install suitable insulation between the flue and the ceiling.

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

The previous rules also apply for holes made in walls.

2. Old flue, minimum pipe $\varnothing 100\text{mm}$ with the inclusion of an external access door for chimney cleaning.

3. External flue made of insulated stainless-steel pipes, i.e. with double walls minimum $\varnothing 100\text{mm}$: all securely mounted on the wall. With windproof chimneypot. See fig. 7 type A.

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

FIGURE 11

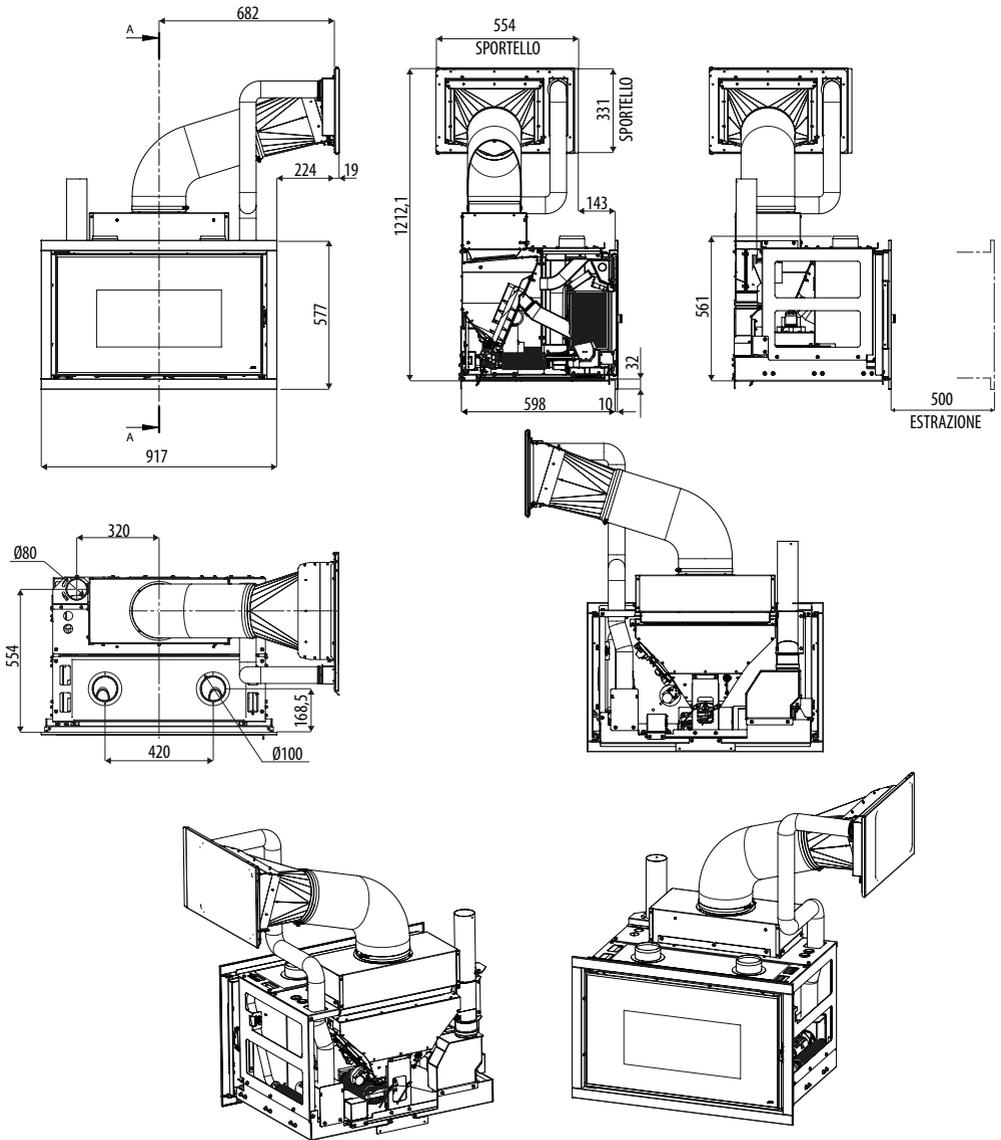
U = INSULATION
 V = ANY REDUCTION FROM 100 TO 80 MM
 I = INSPECTION CAP
 S = INSPECTION ACCESS PANEL
 P = AIR INLET
 T = TEE FITTING WITH INSPECTION CAP

A = MINIMUM 40 MM
 B = MAXIMUM 4 M
 C = MINIMUM 3°
 D = MINIMUM 400 MM
 E = HOLE DIAMETER
 F = SEE FIG.2-3-4-5-6

3-DRAWINGS AND TECHNICAL FEATURES

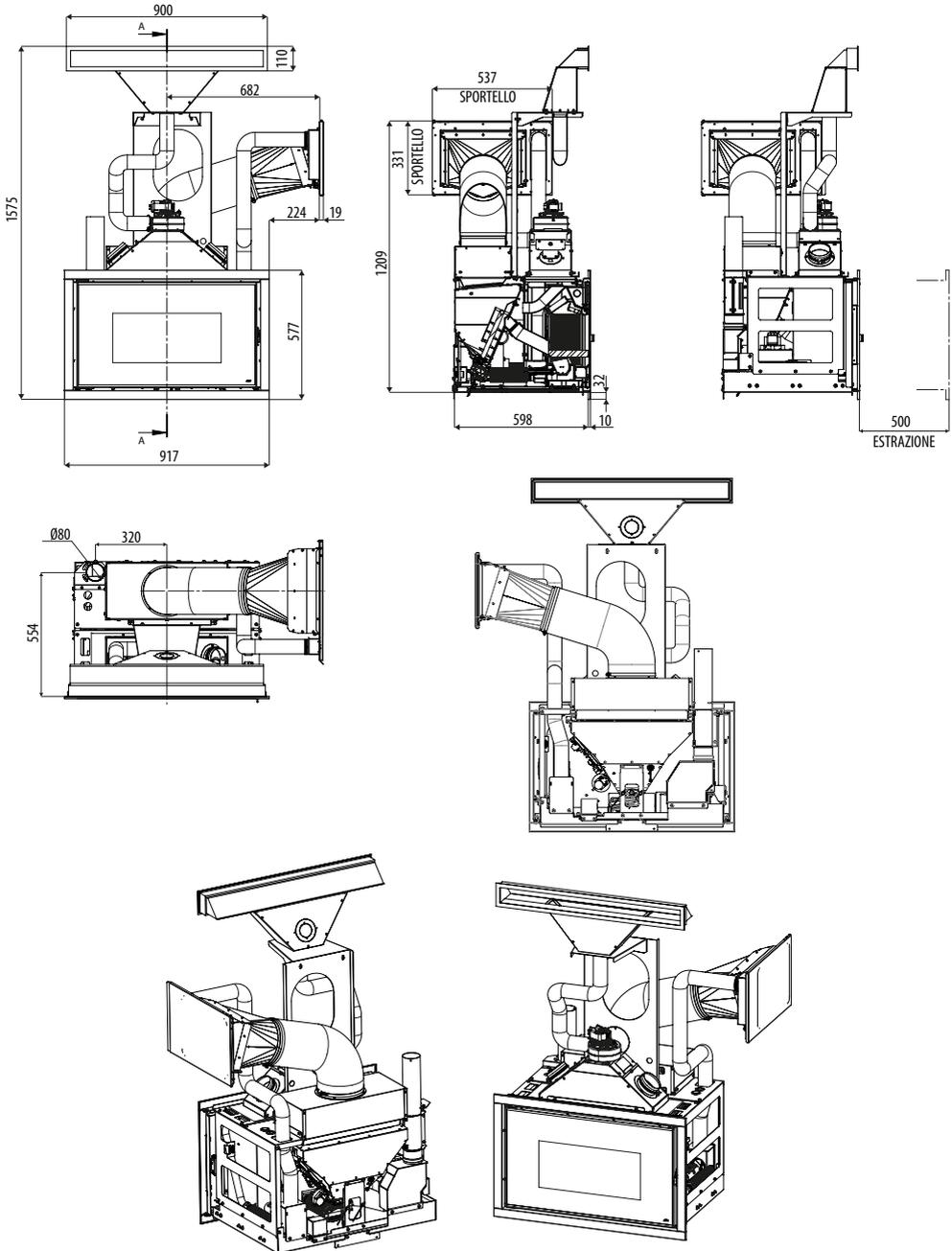
DRAWINGS AND CHARACTERISTICS

VIVO 90 COMFORT AIR 9 M1 DIMENSIONS (dimensions in mm)



3-DRAWINGS AND TECHNICAL FEATURES

VIVO 90 COMFORT AIR 11 M1 DIMENSIONS (dimensions in mm)



3-DRAWINGS AND TECHNICAL FEATURES

TECHNICAL SPECIFICATIONS	VIVO 90 COMFORT AIR 9 M1
Energy Efficiency Class	A+
Nominal output power	8.9 kW (7654 kcal/h)
Minimum output power	2.5 kW (2150 kcal/h)
Efficiency at Max	92.4%
Efficiency at Min	95.7%
Temperature of exhaust smoke at Max	150°C
Temperature of exhaust smoke at Min	74°C
Particulate / OGC / Nox (13%O ₂)	14 mg/Nm ³ - 8 mg/Nm ³ - 127 mg/Nm ³
CO at 13% O ₂ at Min and at Max	0.051 – 0.005%
CO ₂ at Min and at Max	6.2% - 10.6%
Recommended draught at Max power ***	0.10 mbar - 10 Pa***
Minimum draught allowed at minimum power	0.05 mbar - 5 Pa
Smoke mass	6.0 g/sec
Hopper capacity	35 litres
Type of pellet fuel	Pellet diameter 6 mm and size 3 - 40 mm
Hourly pellet consumption	Min ~ 0.6 kg/h* - Max ~ 2.0 kg/h*
Autonomy	Al min ~ 38 h* - Al max ~ 11 h*
Heatable volume m ³	191/40 – 219/35 – 255/30**
Combustion air inlet	Ø 50 mm
Smoke outlet	Ø 80 mm
Air inlet	80 cm ²
Rated electrical power (EN 60335-1)	106 W (Max 360 W)
Supply voltage and frequency	230 Volt / 50 Hz
Net weight	180 kg
Weight with packaging	190 kg
Distance from combustible material (back/side/under)	220 +30 (insulation) mm/70 + 30 (insulation) mm/500 mm
Distance from combustible material (ceiling/front)	750 +30 (insulation) mm/1000 mm

* Data that may vary depending on what type of pellets are used

** Volume that can be heated, according to the power requirement per m³ (respectively 40-35-30 Kcal/h per m³)

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

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

3-DRAWINGS AND TECHNICAL FEATURES

TECHNICAL SPECIFICATIONS	VIVO 90 COMFORT AIR 11 M1
Energy Efficiency Class	A+
Nominal output power	10.9 kW (9374 kcal/h)
Minimum output power	2.5 kW (2150 kcal/h)
Efficiency at Max	90.7%
Efficiency at Min	95.7%
Temperature of exhaust smoke at Max	180°C
Temperature of exhaust smoke at Min	74°C
Particulate / OGC / Nox (13%O ₂)	13 mg/Nm ³ - 4 mg/Nm ³ - 133 mg/Nm ³
CO at 13% O ₂ at Min and at Max	0.051 – 0.005%
CO ₂ at Min and at Max	6.2% - 10.5%
Recommended draught at Max power ***	0.10 mbar - 10 Pa***
Minimum draught allowed at minimum power	0.05 mbar - 5 Pa
Smoke mass	7.4 g/sec
Hopper capacity	35 litres
Type of pellet fuel	Pellet diameter 6 mm and size 3 - 40 mm
Hourly pellet consumption	Min ~ 0.6 kg/h* - Max ~ 2.5 kg/h*
Autonomy	Al min ~ 38 h* - Al max ~ 9 h*
Heatable volume m ³	234/40 – 268/35 – 312/30 **
Combustion air inlet	Ø 50 mm
Smoke outlet	Ø 80 mm
Air inlet	80 cm ²
Rated electrical power (EN 60335-1)	136 W (Max 360 W)
Supply voltage and frequency	230 Volt / 50 Hz
Net weight	180 kg
Weight with packaging	190 kg
Distance from combustible material (back/side/under)	220 +30 (insulation) mm/70 + 30 (insulation) mm/500 mm
Distance from combustible material (ceiling/front)	1000 +30 (insulation) mm/1000 mm

* Data that may vary depending on what type of pellets are used

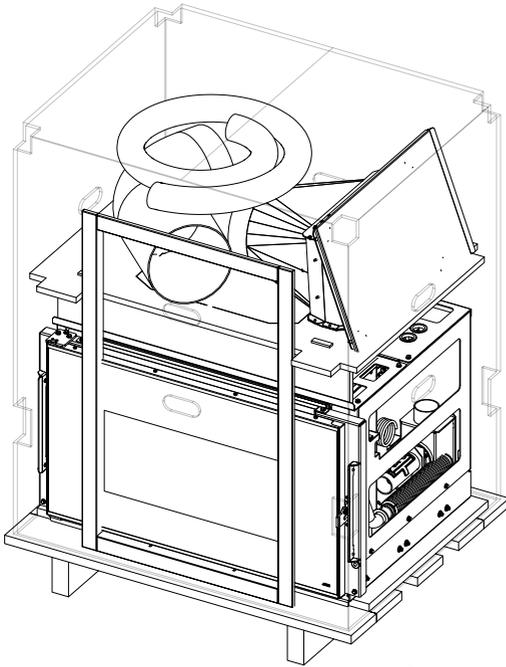
** Volume that can be heated, according to the power requirement per m³ (respectively 40-35-30 Kcal/h per m³)

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

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

4-UNPACKING

PREPARATION AND UNPACKING



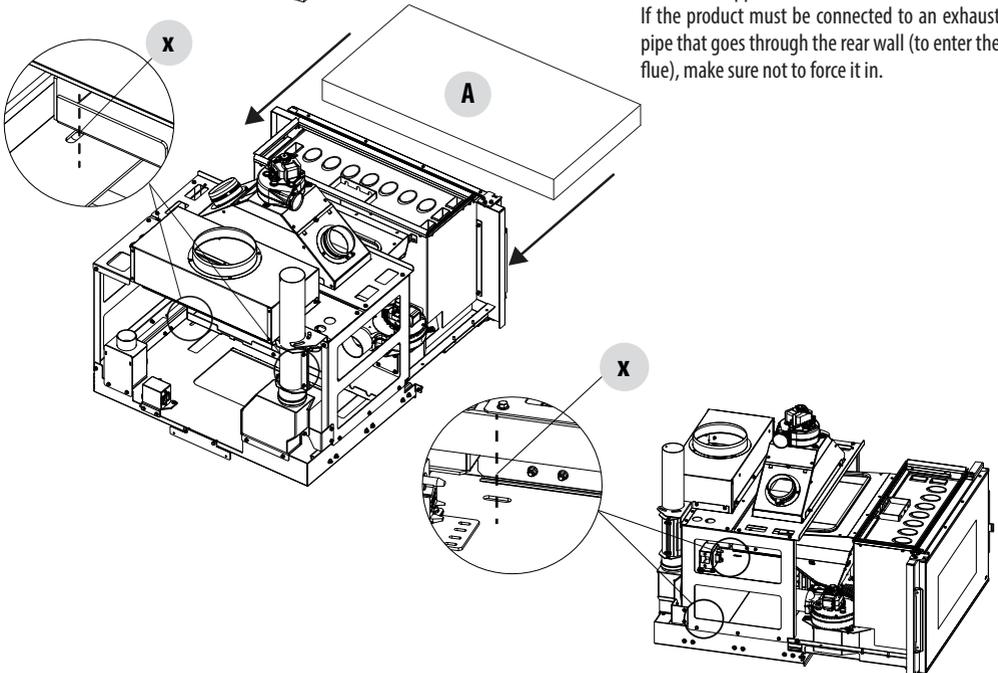
The product is supplied in a single package. Open the package, remove the accessories, any straps, cardboard and polystyrene and take the appliance off the pallet.

To remove the product from the pallet you must extract the movable part of the insert and take out the four Phillips screws securing it to the pallet. Once the insert has been taken out, before removing the screws, it is advisable to place a support "A" under the movable part of the insert so as to work safely.

The appliance must always be carried upright, taking care with its moving parts. Pay particular attention to the door and its glass, protecting them from mechanical impact that would compromise their integrity.

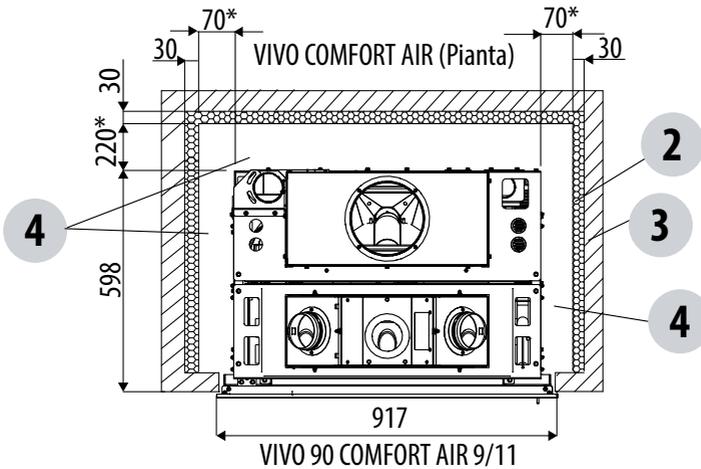
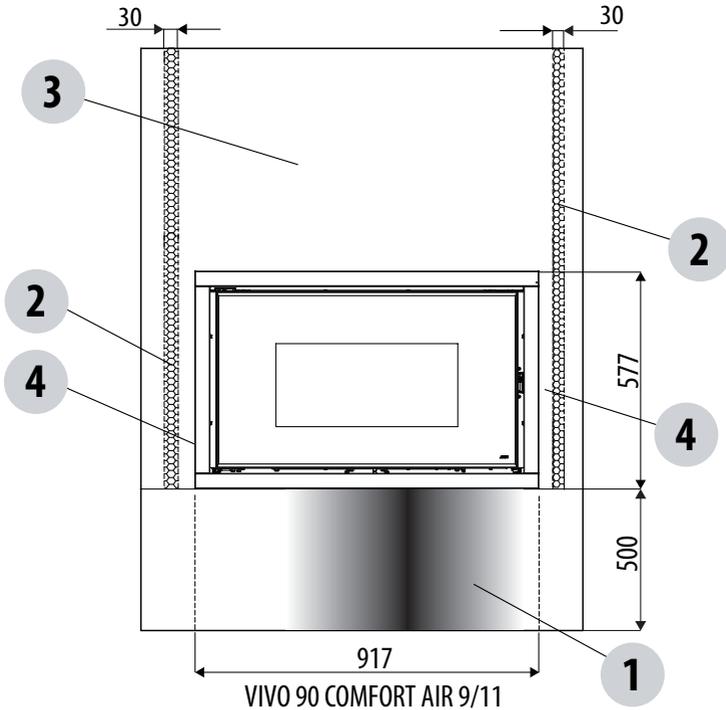
The product must always be handled with care. If possible, unpack the product near the place of installation. The packaging materials are neither toxic nor harmful, and therefore no particular disposal measures are required. Therefore, the end user is responsible for product storage, disposal or possible recycling in compliance with the relative applicable laws in force.

If the product must be connected to an exhaust pipe that goes through the rear wall (to enter the flue), make sure not to force it in.



5-OVERALL DIMENSIONS

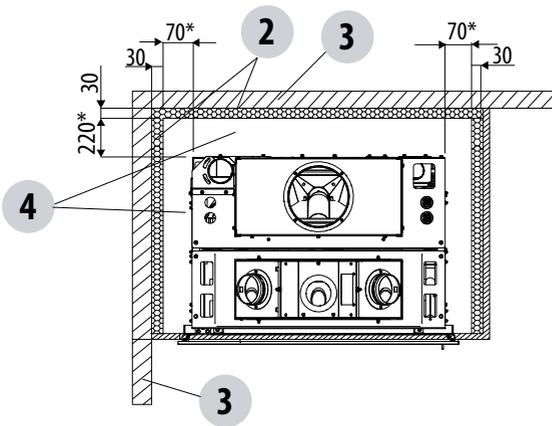
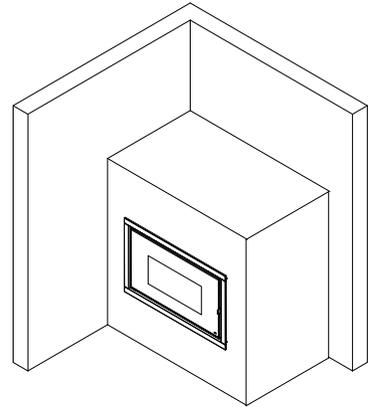
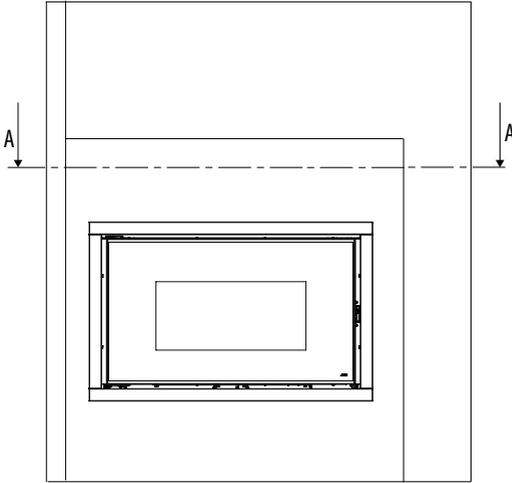
VIVO 90 COMFORT AIR



1	INSERT SUPPORT (existing or new)	3	WALL
2	INSULATION	4	SAFETY DISTANCE FROM COMBUSTIBLE MATERIAL*

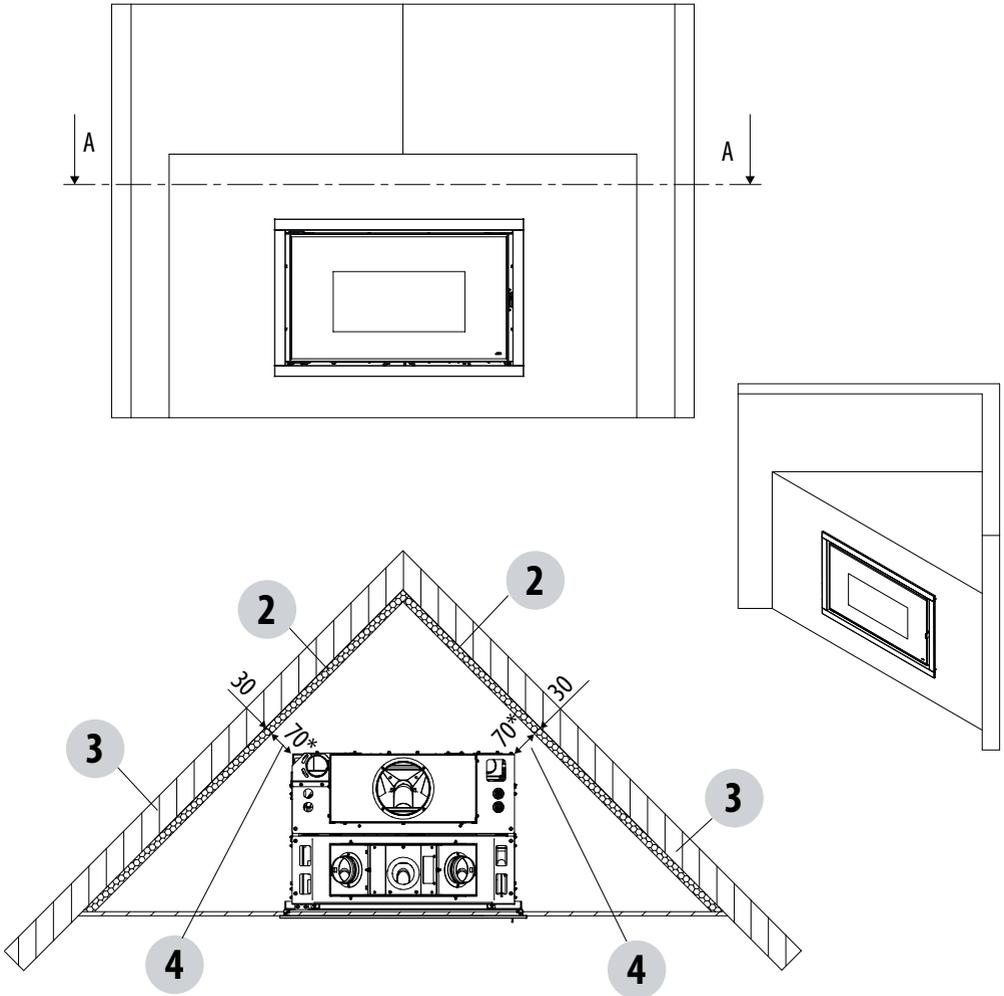
5-OVERALL DIMENSIONS

EXAMPLE OF PLACEMENT AT A 90° ANGLE



5-OVERALL DIMENSIONS

EXAMPLE OF PLACEMENT AT A 45° ANGLE



6-POSSIBLE AIR DUCTING

HOT AIR OUTLET DUCTING

The product has the option of distributing hot air according to the **Forced Convection** method using a forced ventilation kit (supplied). The product can be supplied with two types of kits:

- Comfort Air Slim.
- Comfort Air Basic.

The main features of the two kits are:

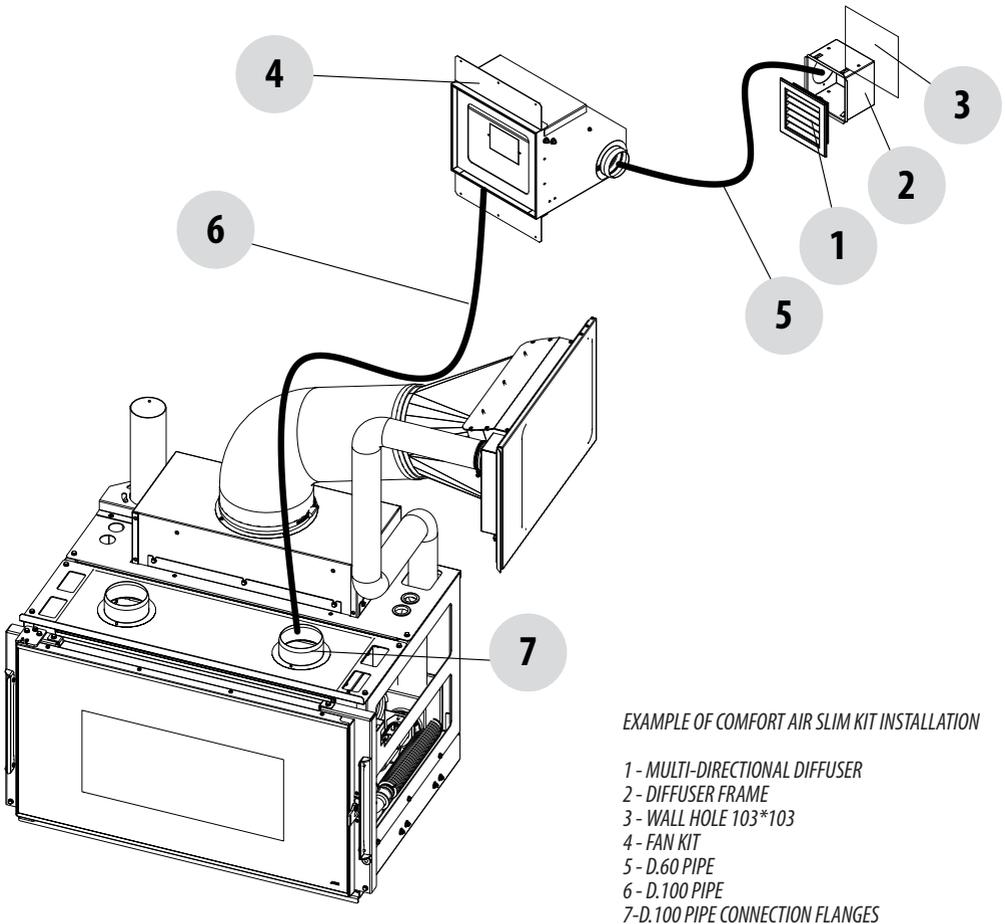
- Comfort Air Slim Kit - multi 12 diffuser, diam.60 mm ducting and motor between insert and diffuser.
- Comfort Air Basic Kit - multi 20 diffuser, diam.100 mm ducting and motor located behind the diffuser.

Depending on the selected kit other types of optional diffusers may be applied.

Please refer to the special manual inside the kit for installation.

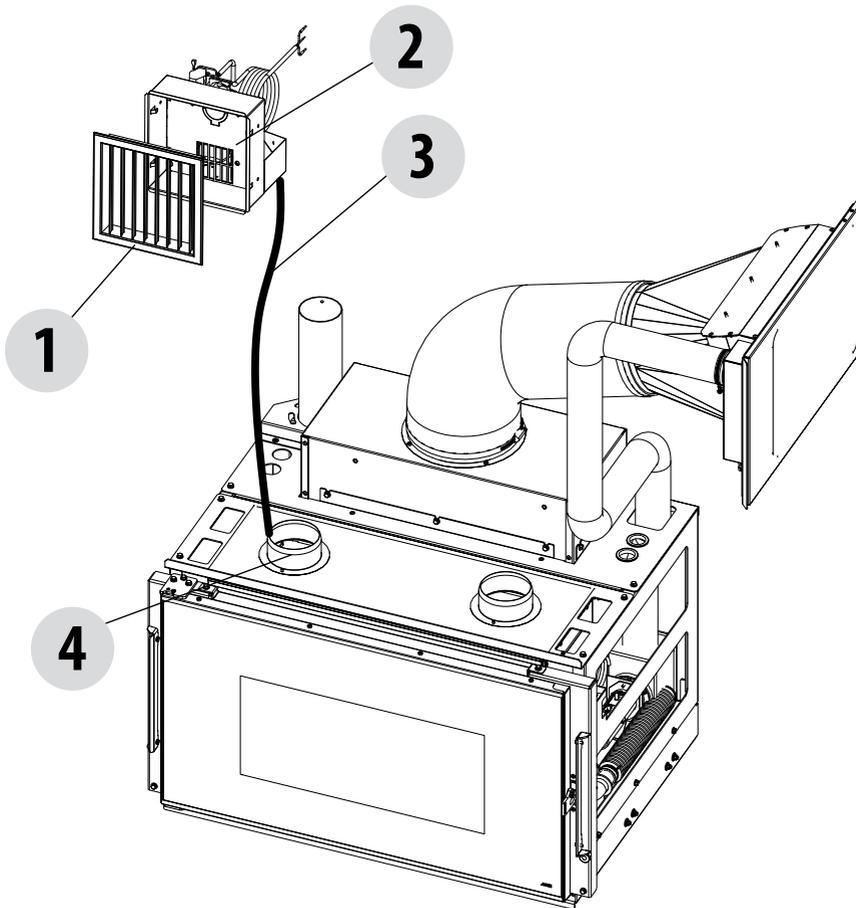
An air inlet should be provided in the installation premises in order to assure combustion air.

VIVO 90 COMFORT AIR 9 M1 with COMFORT AIR SLIM KIT



6-POSSIBLE AIR DUCTING

VIVO 90 COMFORT AIR 9 M1 with COMFORT AIR BASIC KIT

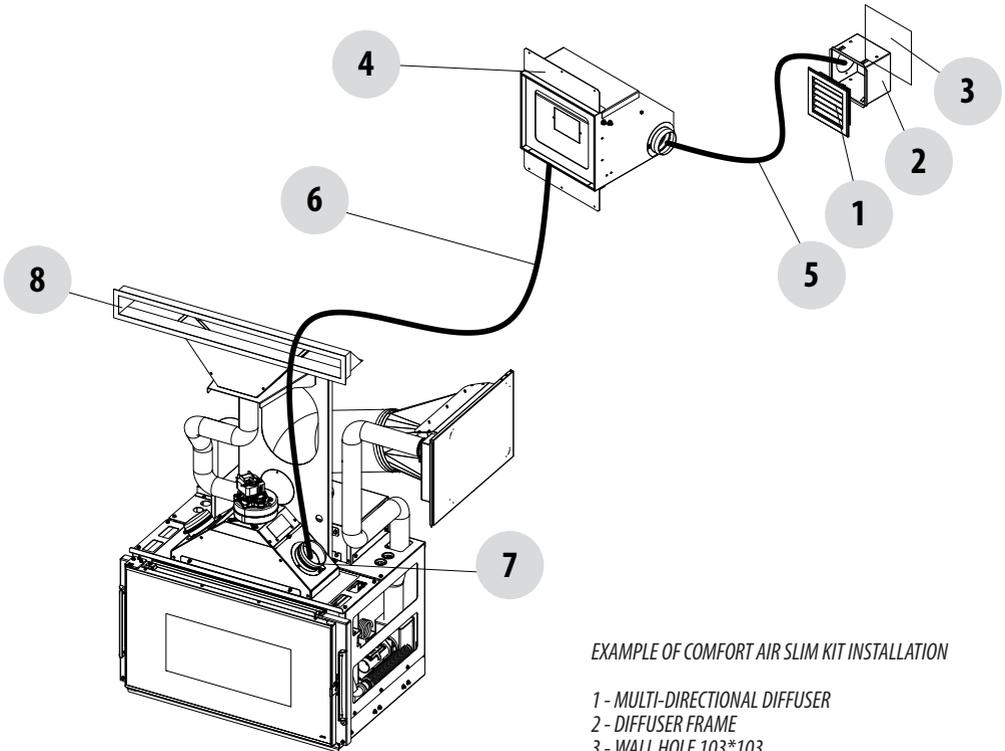


EXAMPLE OF COMFORT AIR BASIC KIT INSTALLATION

- 1 - MULTI-DIRECTIONAL DIFFUSER
- 2 - FAN UNIT
- 3 - D.100 PIPE
- 4 - D.100 PIPE CONNECTION FLANGES

6-POSSIBLE AIR DUCTING

VIVO 90 COMFORT AIR 11 M1 with COMFORT AIR SLIM KIT

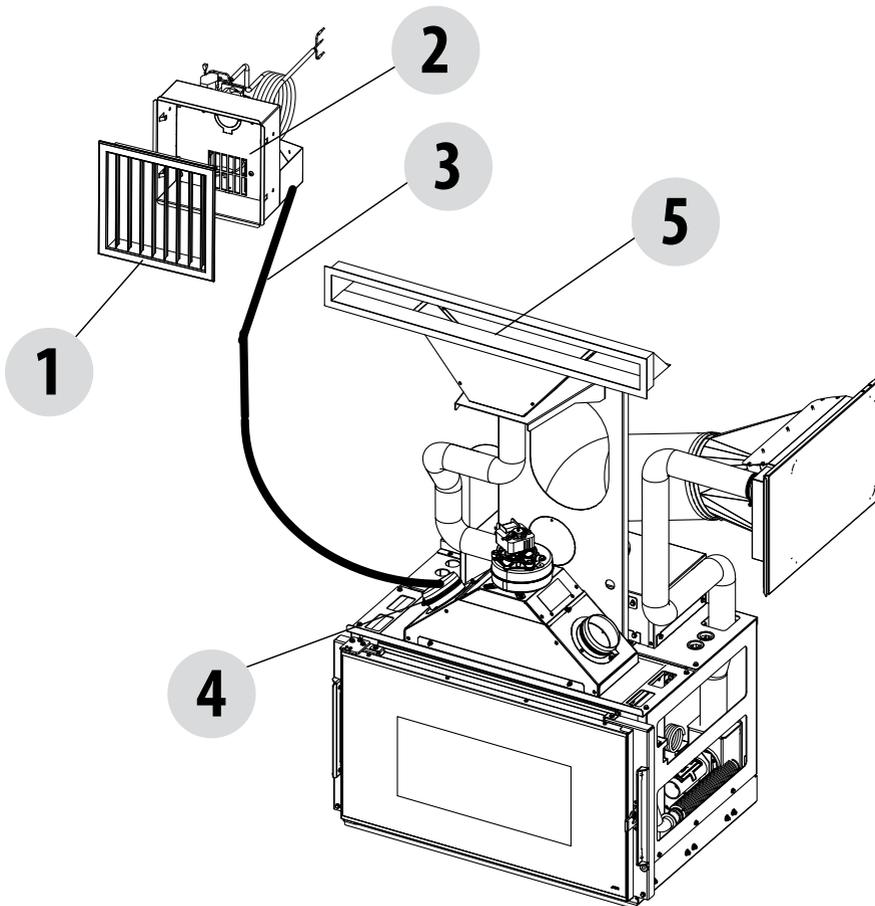


EXAMPLE OF COMFORT AIR SLIM KIT INSTALLATION

- 1 - MULTI-DIRECTIONAL DIFFUSER
- 2 - DIFFUSER FRAME
- 3 - WALL HOLE 103*103
- 4 - FAN KIT
- 5 - D.60 PIPE
- 6 - D.100 PIPE
- 7 - D.100 PIPE CONNECTION FLANGES
- 8 - HOOD VENT

6-POSSIBLE AIR DUCTING

VIVO 90 COMFORT AIR 11 M1 with COMFORT AIR BASIC KIT



EXAMPLE OF COMFORT AIR BASIC KIT INSTALLATION

- 1 - MULTI-DIRECTIONAL DIFFUSER
- 2 - FAN UNIT
- 3 - D.100 PIPE
- 4 - D.100 PIPE CONNECTION FLANGES
- 5 - HOOD VENT

6-POSSIBLE AIR DUCTING

ELECTRIC FAN CONNECTION

The supplied kit includes 2 silicone cables, 2.5 metre long for wiring the fans. Start by wiring as follows:

In position 2 connect the yellow/green wire while in position 1 connect the remaining two wires (the colour sequence does not matter as the fans have no polarisation) (fig.7).

The terminal board where the fan wires will be connected is screwed into the structure upright, at the top (fig.8).

Connect the two earthing cables of the fans in the first terminal on the left (T). Connect the remaining two cables from the LEFT fan with the terminals wired with the red cables (R). Connect the remaining two cables from the RIGHT fan with the terminals wired with the purple cables (V).



IMPORTANT!

The cable for connecting the fan is made of silicone to withstand high temperatures. In the event of cable extensions (over 2.5 m) and at every opportunity, ensure the cable does not touch hot parts of the monoblock, and the air connecting pipes inside the cladding or structure.

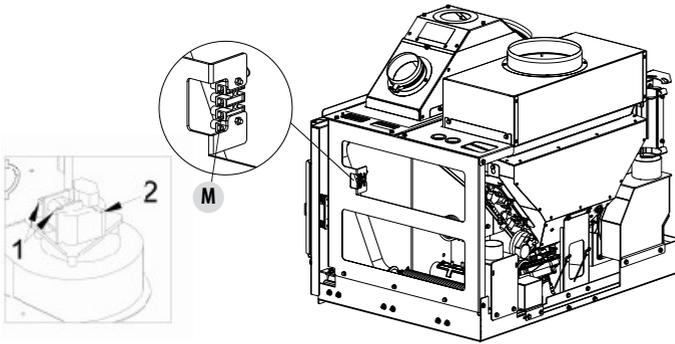


Figure 7— Position of fan terminals

Figure 7— Position of terminal board

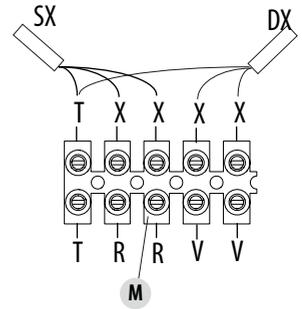
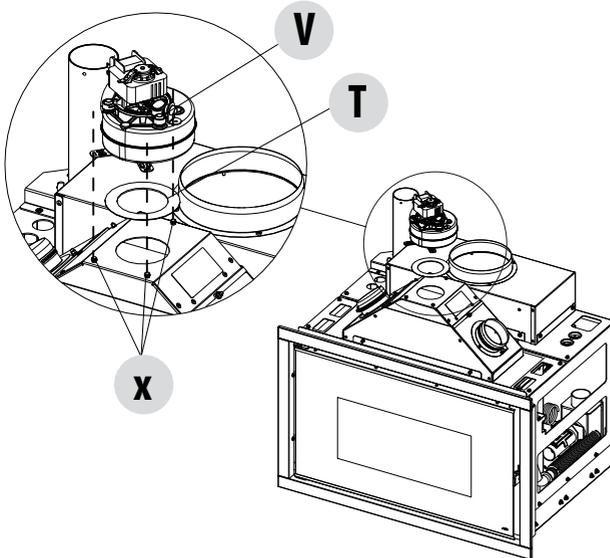


Figure 8— Position of cables on the terminal board



The fan "V" must be fixed to the structure of the VIVO insert.

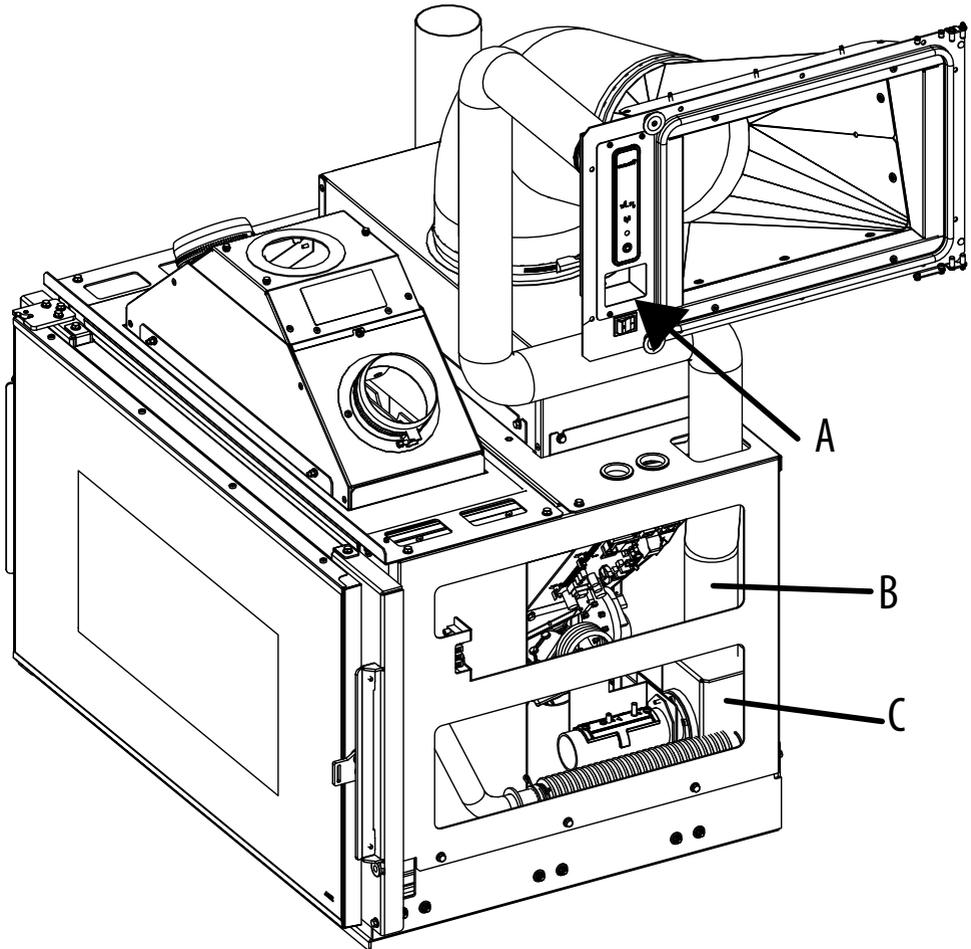
- Place the gasket "T" near the hole on the top of the insert
- fix the fan "V" to the structure using the three screws "X".

7-CONNECTIONS

COMBUSTION AIR

During operation a certain amount of air is drawn from the room where the product is installed and this air must be supplemented through an external air inlet.

The combustion air "B" in this product is autonomously drawn directly from the front grille, however, the user can have the air drawn from outside by connecting pipe "A" to an optional air kit (see details on the next pages).



A - COMBUSTION AIR INLET FROM PELLET LOADING HATCH
B - FLEXIBLE HOSE
C - PIPE CONNECTION TO THE PRODUCT



ATTENTION! It is forbidden, in secondary use heating appliances, to use the product at maximum power for more than 2/3 hours.

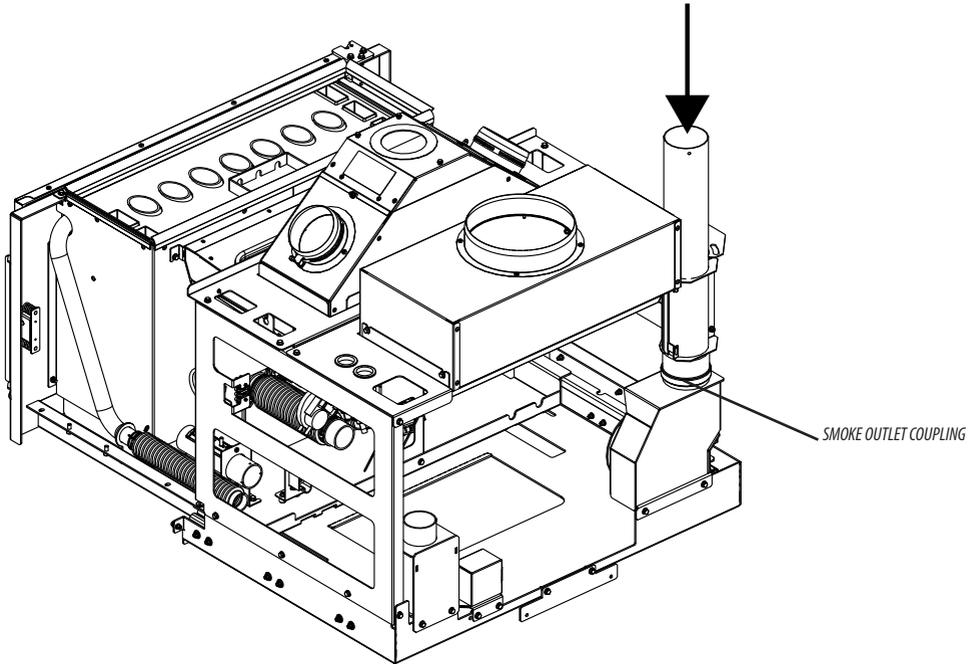
Improper use of the product is borne by the user and relieves the manufacturer of any civil and criminal liability.

7-CONNECTIONS

CONNECTION OF THE SMOKE OUTLET DUCT

When making the hole to pass the smoke outlet pipe through, it is necessary to take into account the possible presence of flammable materials. If the hole has to be in a wall made of wood or other thermolabile material, **THE INSTALLER MUST** first set up the relative wall fitting (diameter 13 cm minimum) and insulate the pipe the product passes with appropriate insulating material (1.3 - 5 cm thick with minimum heat conductivity of 0.07 W/m²K).

The same minimum distance must be applied if the pipe of the product must pass through vertical or horizontal sections near the thermolabile wall. It is recommended to use an insulated double-wall pipe in external sections in order to prevent condensation from forming. The combustion chamber works at negative pressure.

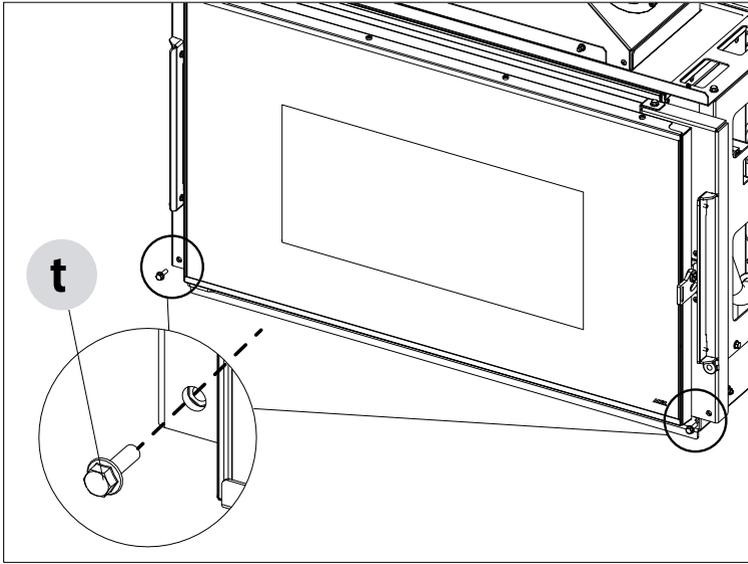


8-PRELIMINARY STEPS

8-PRELIMINARY STEPS

Proceed as follows to release the fixed part of the insert:

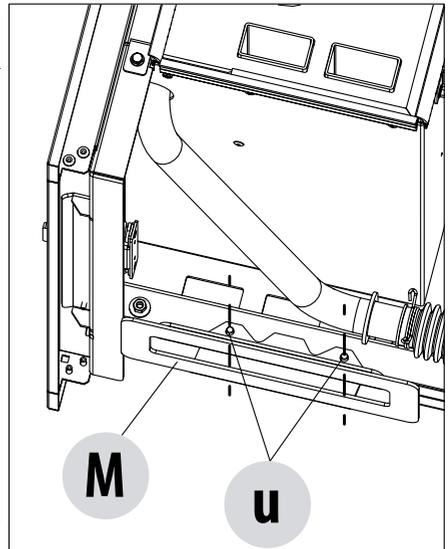
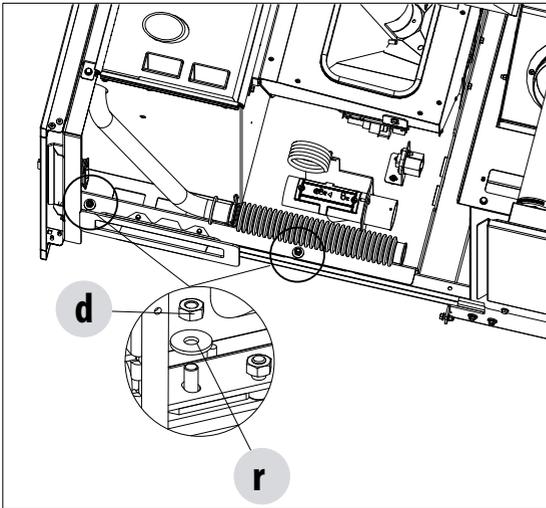
- remove the two screws "t" on the front



- remove the two nuts "d" and the two washers "r" from the right and left of the insert
- take out the mobile part of the insert

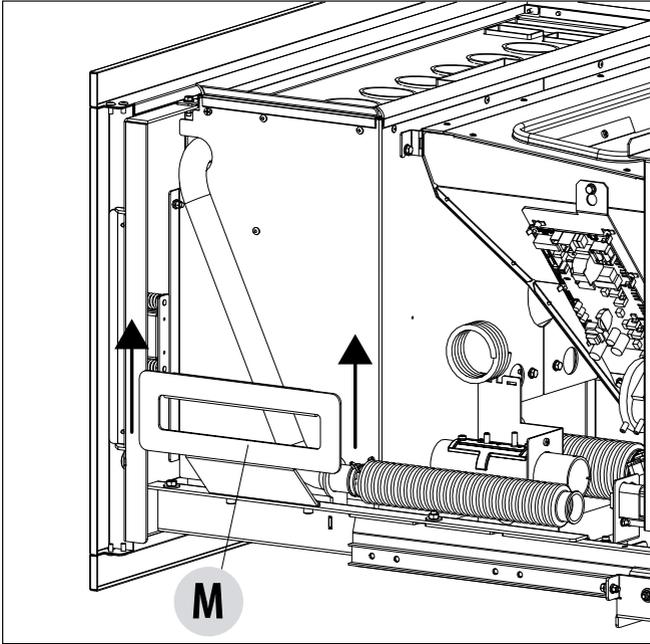
to make it easier to hold, take the two optional handles "M" and fasten them to the insert

- there are two nuts "u" on the insert to be removed, insert the handle "M" and put the two nuts "u" back in place

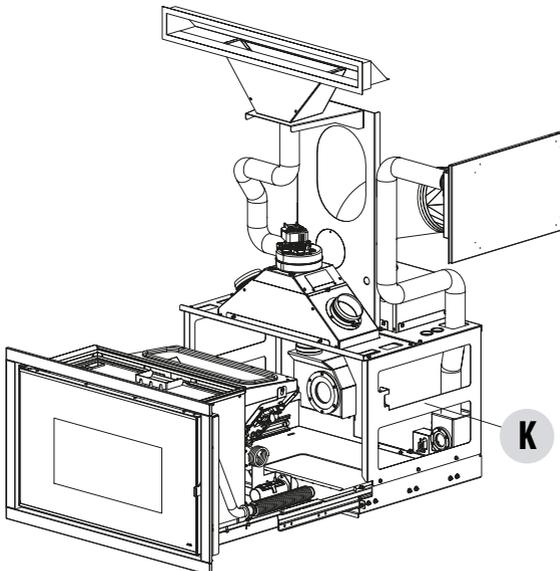


8-PRELIMINARY STEPS

- the handles "M" are now fastened on the insert. Hold the two handles "M" and lift the insert



- the fixed part "K" is now free and you can fasten it into the optional support or on an existing surface (as explained in the next pages)



9-TYPE OF FASTENING

HOW TO FASTEN THE INSERT

It is **mandatory** to anchor the product to a surface since, during annual maintenance operations by the authorised technician, or when the fuel is loaded, the combustion chamber may be extracted from its seat with the aid of two retractable guides.

The product can be anchored to an existing surface (which must have certain characteristics) or it can be fastened to the optional support.



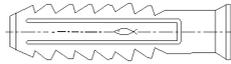
Attention! The support surface of the insert must be completely flat.

Fastening to an existing surface - suggested characteristics

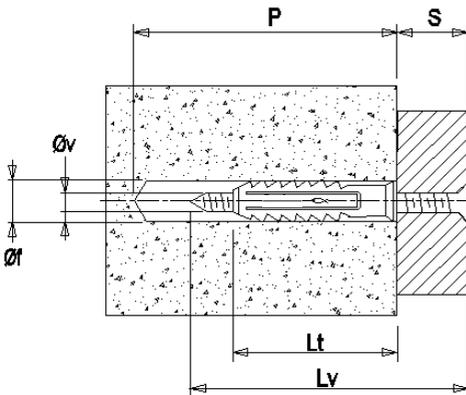
Installation data

The surface where the fixed part of the insert will be fastened must be in R250 kg/cm² concrete, if the support is made of poor material, it is advisable to use a suitable slab for fastening.

We recommend using an anchor bolt with the following characteristics:



DIMENSIONS (TYPE)	DIAMETER	LENGTH
LH 10	10 mm	50 mm



KEY

$L_v = L_t + S$ (Screw length)

L_t = Anchor bolt length

S = Maximum thickness of object being fastened

\varnothing_f = drill bit diameter

P = minimum hole depth

\varnothing_v = screw diameter

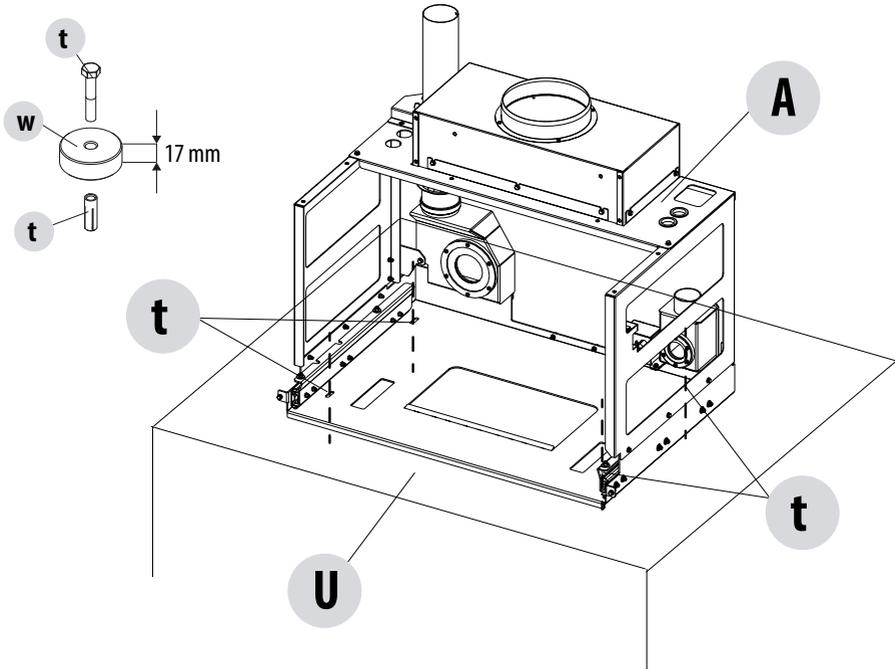
TYPE	L_t (anchor bolt length)	Screw $\varnothing V \times L_v$	P (Minimum Hole depth)	\varnothing_f (drill bit diameter)	S (Max Object thickness)
LH 10	50 mm	8x60 mm	70 mm	10 mm	10 mm

9-TYPE OF FASTENING

Fastening to an existing surface

Key

POSITION	DESCRIPTION
A	FIXED INSERT PART
U	EXISTING SURFACE
t	ANCHOR BOLTS (SEE PREVIOUS PAGE)



For installation on an existing surface, ensure there is a thickness of at least 17 mm between the fixed wall "A" and the existing surface "U", and fix the insert and surface using plugs "t" as shown on the previous page. Make sure everything is level.

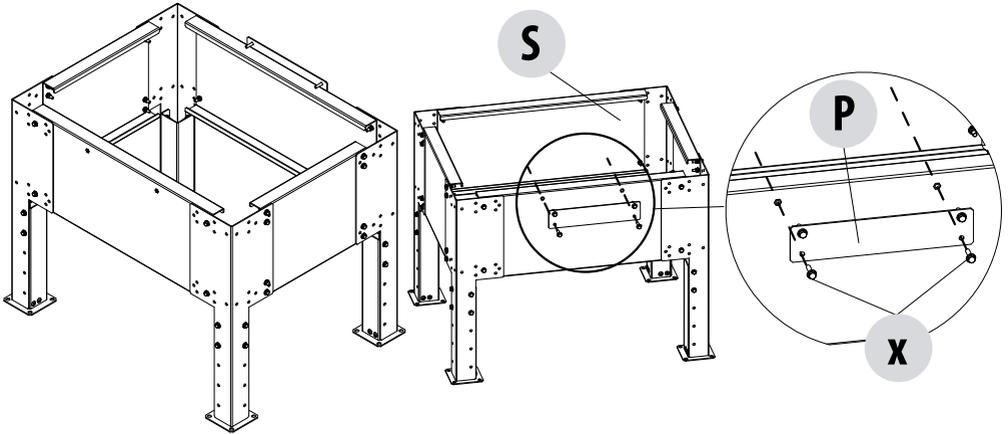
9-TYPE OF FASTENING

Fastening to the horizontal support

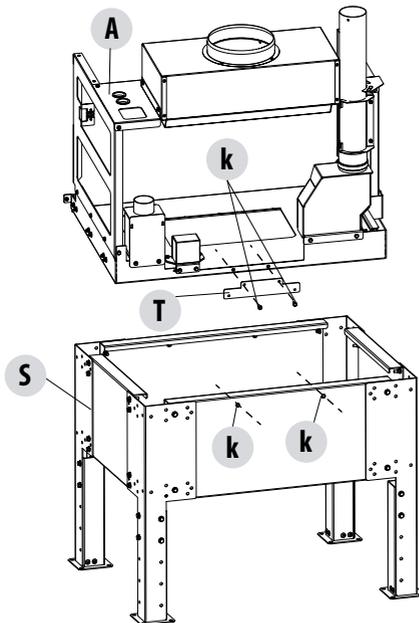
Place the base in the desired position (after mounting it as explained in the instructions attached to the accessory) and adjust the height by using the feet (from a min. of 500 mm to a max. of 650 mm).

Make sure there is a power socket behind the pedestal so that the plug is accessible after the unit has been installed. Connect the smoke outlet and make the air inlets.

It is mandatory to fasten the support to the floor with anchor bolts and 8 mm diameter screws that will ensure stability of the product. Take the sliding base and fasten it with the support bracket. The support is already provided with bracket "P" for other types of product. Do not mount the bracket "P" supplied in the support pack but use the one provided with the insert.



Take the movable part off the insert and connect the fixed part "A" to the support "S" with the bracket "T" and screws "k" provided.



10-ACCESSORIES

ACCESSORIES

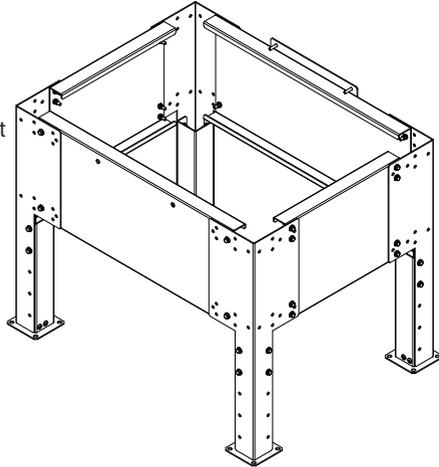
Pellet level sensor

Used to measure the level of pellets in the hopper.



Support

Used to position the Boxtherm at the required height without using an existing surface.



10-ACCESSORIES

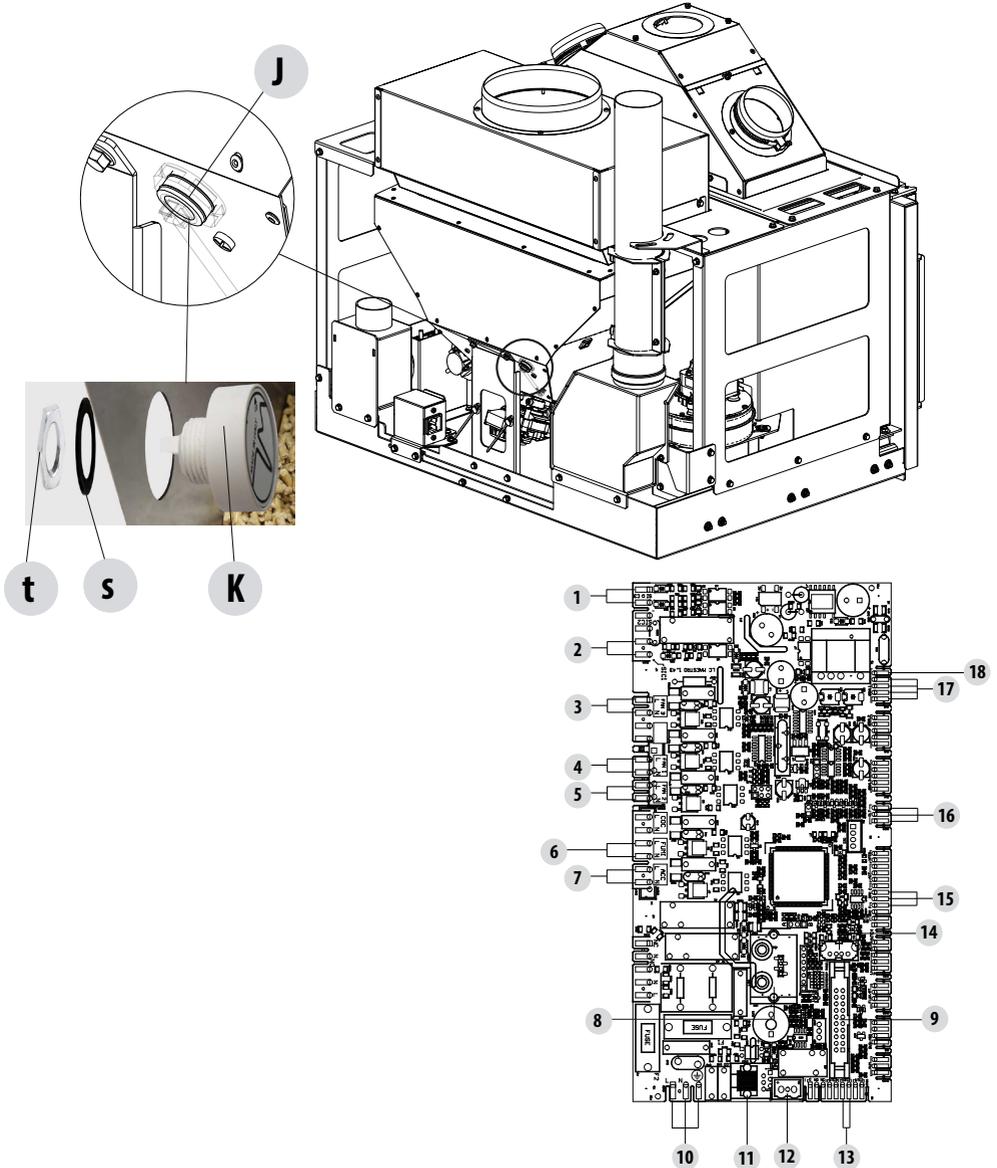
ASSEMBLING PELLET LEVEL SENSOR

The pellet sensor is a low fuel indicator that warns the user that the pellets are finishing.

With the hopper empty, lift the pellet loading cover and manually remove the cap "J" fitted inside, then insert the pellet level sensor "K" from inside the hopper.

The sensor is locked to the hopper by externally mounting the seal "s" and firmly securing it with the ring nut "t".

The sensor must then be connected to position 16 on the circuit board with the supplied cable.



11-INSTALLATION

PELLET LOADING CHUTE ASSEMBLY

Another choice to be made before placing the product is to define which side to install the chute on for loading the fuel. VIVO 90 PELLET is delivered with two clamps, the connection pipe and the chute with hatch.

The chute may be mounted on the right side, on the left side or at the front. The connection pipe is 1 metre long.



It is obligatory to shorten the connection pipe, depending on positioning (side or front), so that it is properly taut and at a minimum angle with respect to the horizontal. This operation is required for pellet descent.

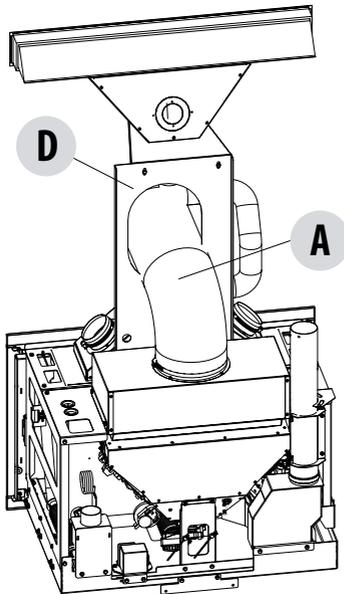
Before installing the cladding perform a fuel loading test to ensure it descends correctly towards the hopper.

It is obligatory to correctly insulate the pipe in case it is fitted on the left side where the smoke exhaust is.

The manufacturer disclaims all liability in the event of failure to comply with the above warning.

Fire hazard!!

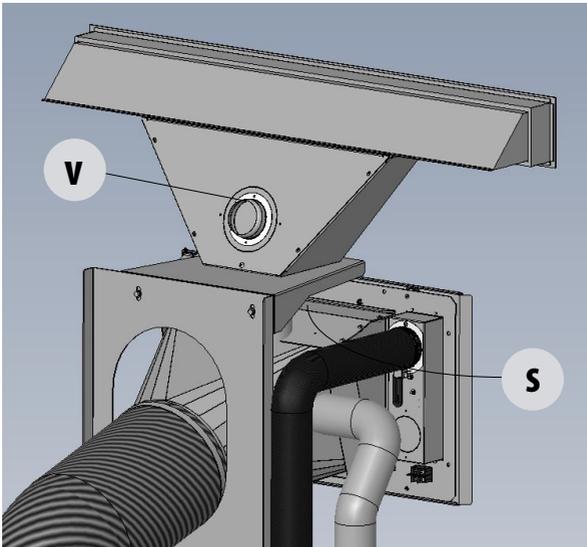
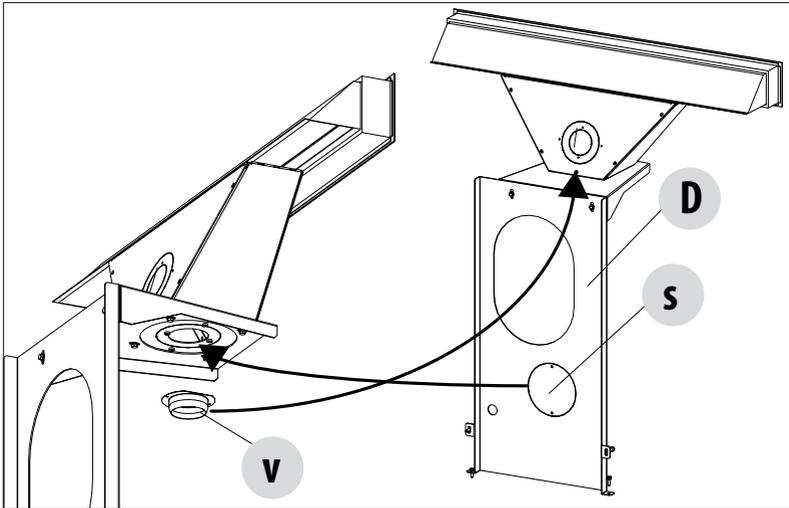
If loading the chute into VIVO 90 COMFORT AIR 11 M1 from the front, pass pipe "A" through the hole on support "D".



11-INSTALLATION

The installation of the front chute loading with a VIVO 90 COMFORT AIR 11 M1 insert requires two steps:

- remove flange "V" from element "D"
- fix flange "V" at the top (see drawing below)
- remove knockout hole "S" from element "D"
- close the hole at the bottom where the flange "V" has been removed

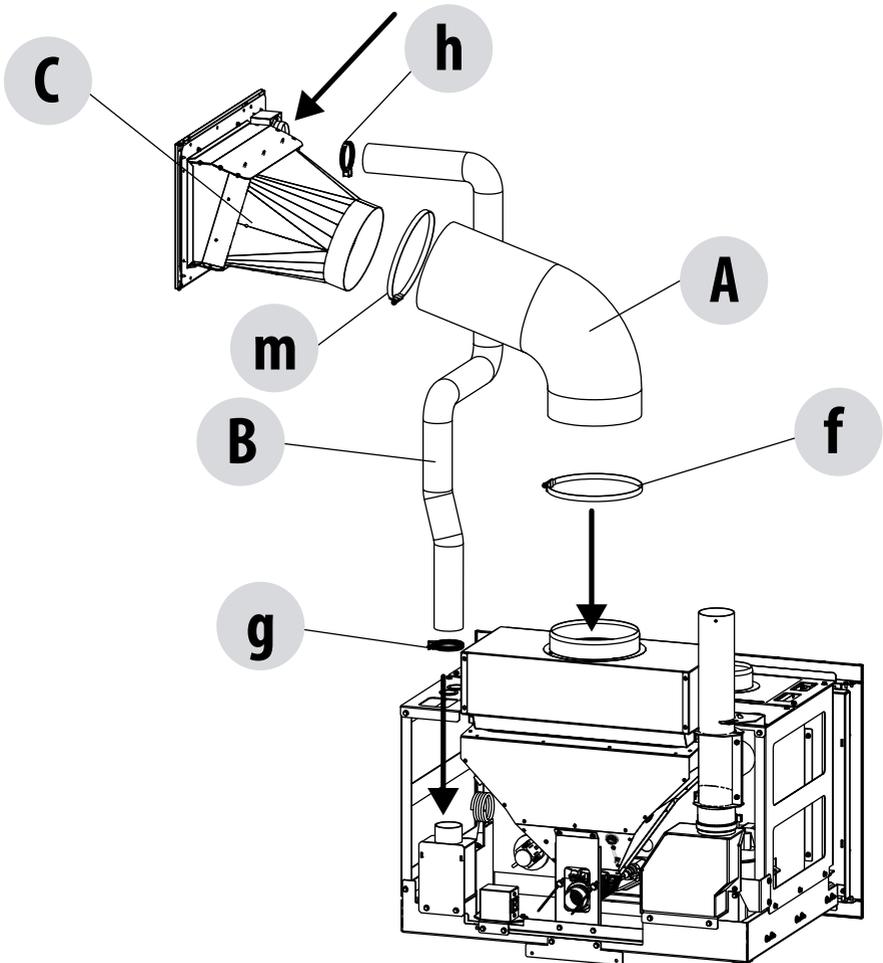


11-INSTALLATION

Steps to assemble the chute.

Take the pellet loader unit out of the packaging:

- fix the pipe "A" to the insert with a clamp "f"
- fix the pipe "A" with a clamp "m" to the loader unit with door
- fix the combustion air hose "B" to the structure using clamp "g"
- fix the pipe "B" with a clamp "h" to the loader unit with door



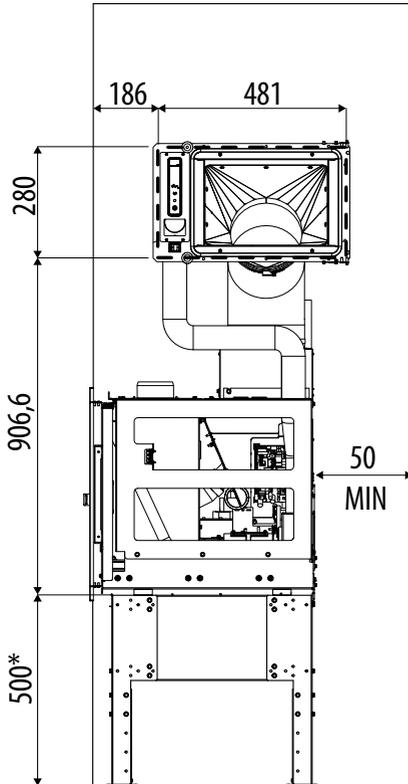
11-INSTALLATION

RIGHT CHUTE SIDE ASSEMBLY

When opting for side chute installation, the distance from the machine axis to the wall must be 80 cm maximum (picture on the side). To position the chute, proceed as follows:

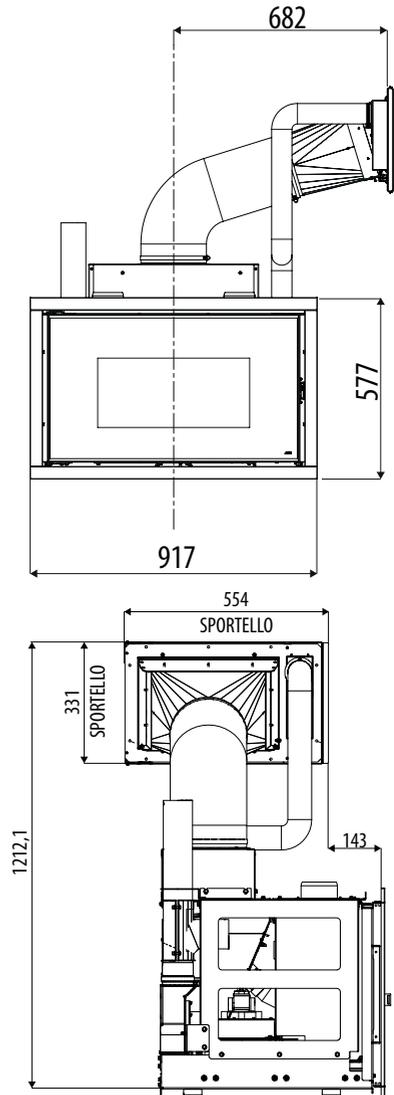
- Connect the pipe supplied to Vivo 80 Pellet ensuring it is rotated to the side, and fasten it with the clamp.
- Connect the pipe (in the top section) to the mouth of the hatch structure using the supplied clamps.
- Position the pipe with the hatch structure so that, when cladding is completed, it may be screwed and fixed to the wall of the cladding on the hole made for its insertion.

To mount the outer hatch refer to the suitable paragraph, since this operation will be performed with completed cladding.

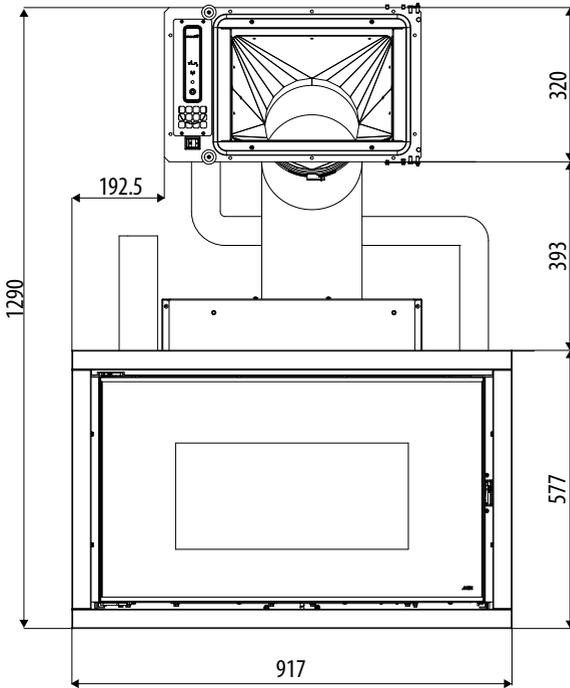


VIVO 90 COMFORT AIR 9 M1
Side chute assembly

**MINIMUM OPTIONAL SUPPORT HEIGHT*



11-INSTALLATION



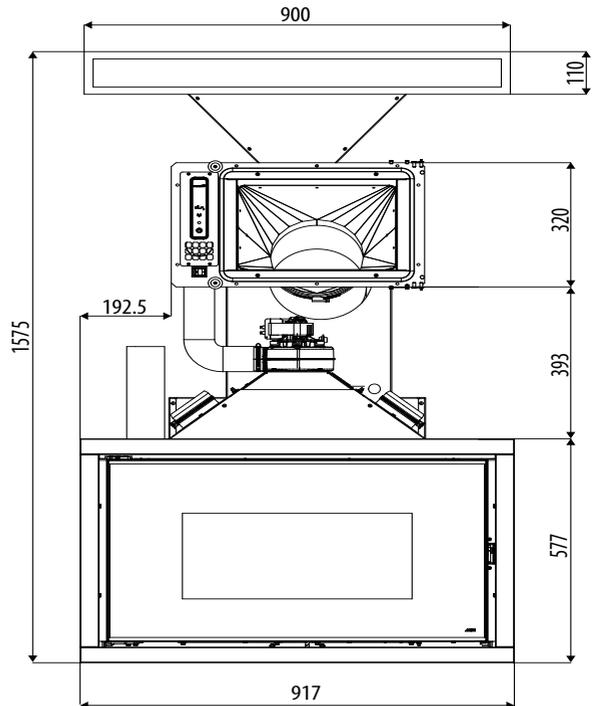
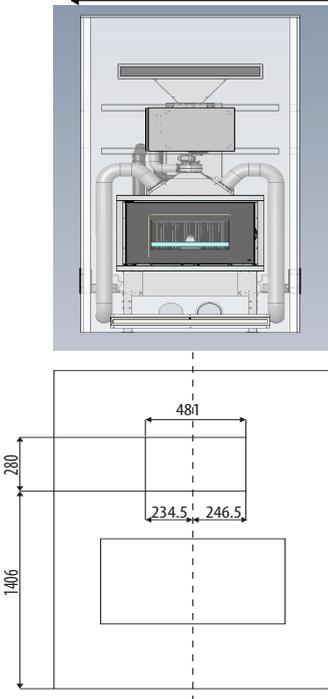
FRONT CHUTE ASSEMBLY

Should you opt for positioning the pipe at the front, do the following:

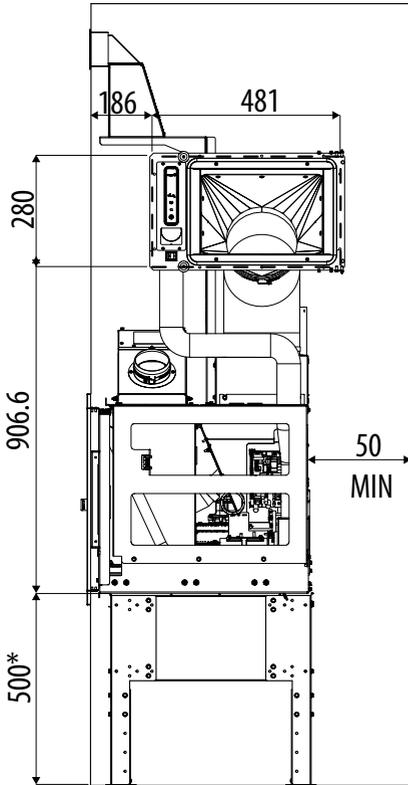
- Connect the supplied pipe to the product ensuring it is rotated to the front, and fasten it with the clamp.
- Connect the pipe to the mouth of the hatch structure by the supplied clamps.
- Position the piping in order to make it accessible when cladding is completed and in order to be able to fasten the hatch structure to the hole arranged on the wall of the cladding.
- To mount the outer hatch, which should only be done when cladding is completed, refer to the suitable paragraph.

VIVO 90 COMFORT AIR 9 M1 Front chute assembly

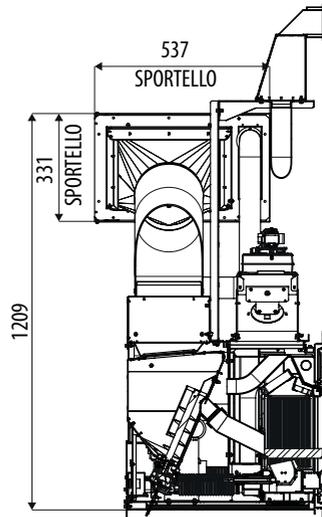
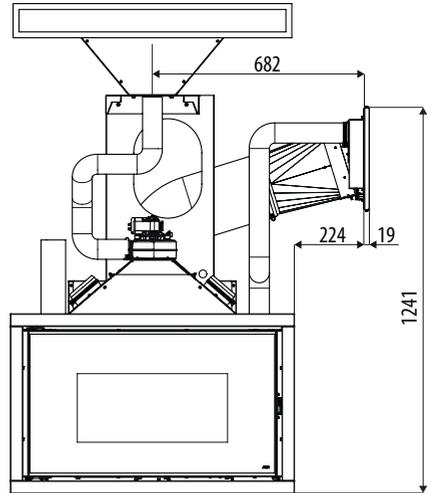
VIVO 90 COMFORT AIR 11 M1 Front chute assembly



VIVO 90 COMFORT AIR 11 M1
Side chute assembly



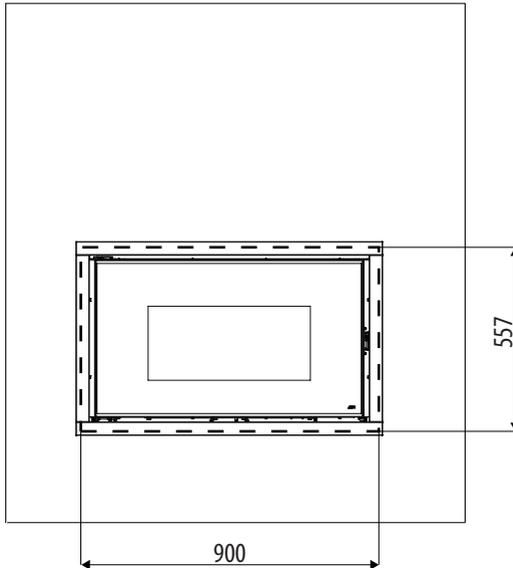
*MINIMUM OPTIONAL SUPPORT HEIGHT



11-INSTALLATION

PRODUCT INSERTION HOLE

The hole to be made on the wall is 900*557 mm. These measurements allow the frame to cover the gap that remains between the product and the hole and also allow the product to be removed if maintenance needs to be performed and/or parts replaced.



CONNECTION OF SWITCH AND CONTROL PANEL

The control panel and the switch are already fitted onto the pellet loading hatch and are already connected to the relevant cables by the manufacturer. Take the switch cable and connect it to the socket at the rear of the product.

The panel cable, instead, must be connected to the electrical board in position 11.

To fasten the switch to the pellet loading hatch the cables must temporarily be disconnected. Reconnect the cables to the relative terminals as shown in the figure.



Pay the utmost attention when handling panels connected to the relative cables.

The cables must remain in areas away from heat or in areas where they cannot be damaged by possible product extraction.

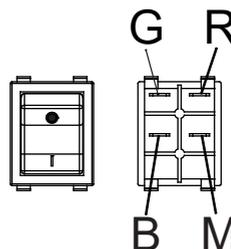
For correct operation, run the flat cable and the switch cable away from each other, on different routes.

Do not in any case force insertion of the connector.

Do not bend and/or twist the cables.

Do not modify connectors or wiring or panel supports.

G = GREY
R = RED
B = BLUE
M = BROWN



11-INSTALLATION

HATCH ASSEMBLY

After performing wiring, before permanently fastening the hatch to the hood, carry out an operational test.

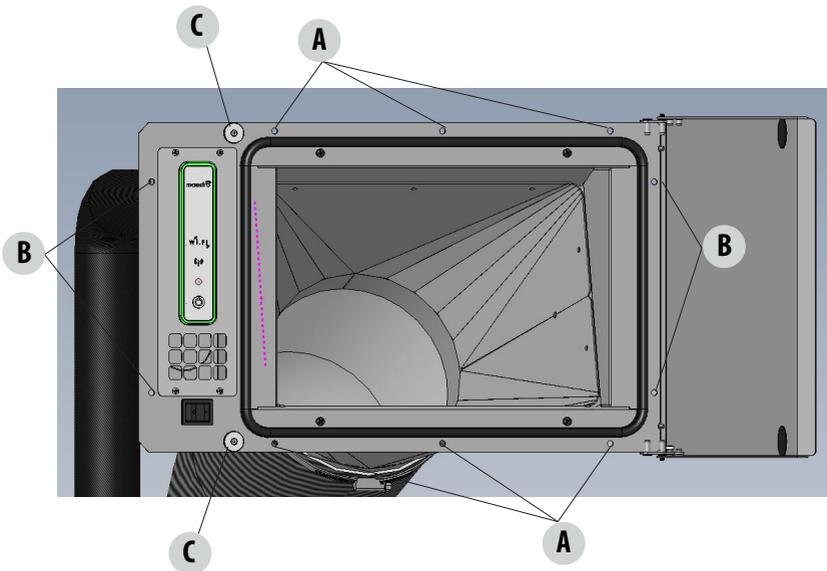
If the test is passed, fasten the hatch to the hood with the screws (A+B), using the holes on the frame of hatch "B".

The holes marked on the hatch horizontal profiles (A), on the other hand, are used to fasten the hatch frame to the chute frame, to permanently secure the two elements and close the hood wall in between.

Prior to that, a rectangular hole must be drilled into the hood at a height established by how the optional support has been installed or by how the masonry platform has been made.

PELLET HATCH OPENING/CLOSING

The hatch has two magnets "C" to open/close it.



11-INSTALLATION

HOOD VENTILATION GRILLES

Foreword

Set up ventilation grilles depending on the model (comfort air 9 or 11 kW).

If used as a new installation, the company recommends installing the ventilation grilles as described in the following paragraph.

It is in any case important to arrange for 2 openings, one at the top and the other at the bottom of the cladding.

HOOD VENTILATION GRILLES FOR NEW CLADDING

It is obligatory to install the manufacturer's hood ventilation grilles or grilles that assure the same features and the same air passage section.

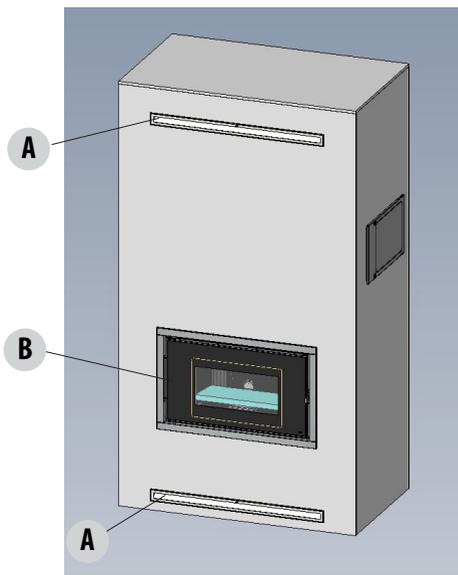
The company is not liable for any damage to the structure or to the electric components caused by failure to comply with this warning.

The structure reaches high temperatures and it is **indispensable** to always assure continuous and efficient ventilation inside the cladding. This practice - as well as assuring perfect operation of the product - makes it possible to recover some of the structure's heat, which would be lost if it remained inside the cladding.

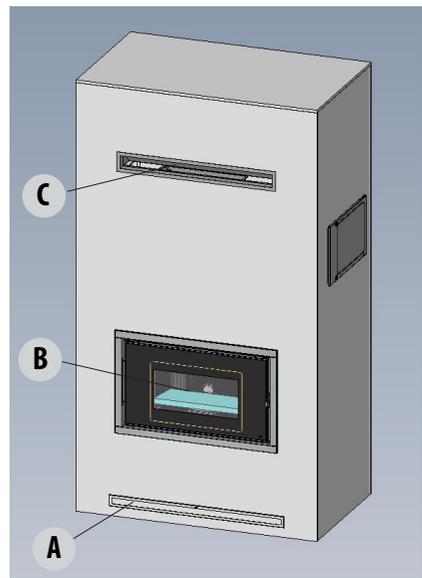
The company provides 2 "Blade" vents "A" for the 9kW version, and 1 "A" vent for the 11kW version, to be installed one at the top and one at the bottom of the cladding.

hot convection air: The hot air that accumulates inside the cladding must be let out.

VIVO 90 COMFORT AIR 9 M1

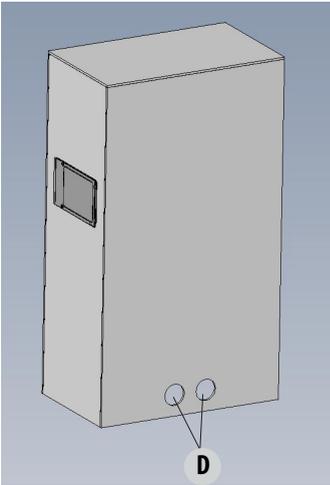


VIVO 90 COMFORT AIR 11 M1



room air inlet: to recycle air. An opening must be arranged at the bottom of the cladding to enhance convection.

11-INSTALLATION



COOLING AIR INLET

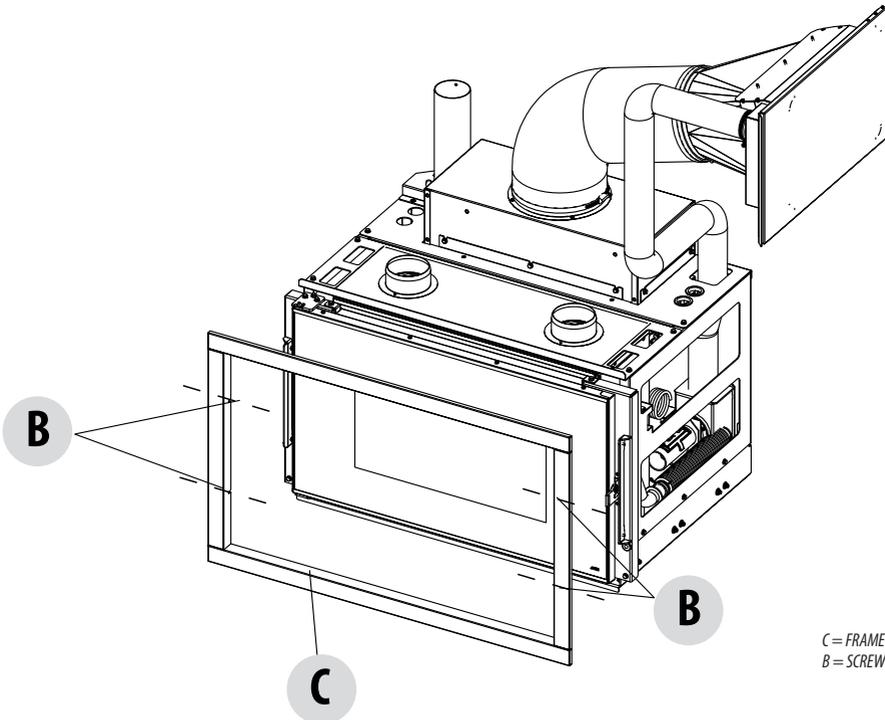
Make two holes "D" with a 150 diameter (equivalent to 35000 mm²) to let in cooling air. These holes "D", or identically-sized holes, must be made away from the hot air vents. These holes can be made on the back (as in the image to the side) or on the side.

ASSEMBLING THE COMPENSATION FRAME

After completing the cladding and/or the plasterboard section, fit the shimming frame.

This frame has the purpose of finishing and covering the gap that is created between the product's metal structure and the cladding.

The frame "C" is assembled simply by opening the door of the product, fitting in the frame as shown in the figure and fastening it to the side uprights of the structure, inside the door profile, with the four screws "B" supplied.



12-LOADING THE PELLETS

LOADING THE PELLETS

The fuel is loaded through the side or front hatch to be mounted onto the cladding, which allows access to the fuel loading chute. The loading procedure is facilitated if performed in a number of steps as described below:

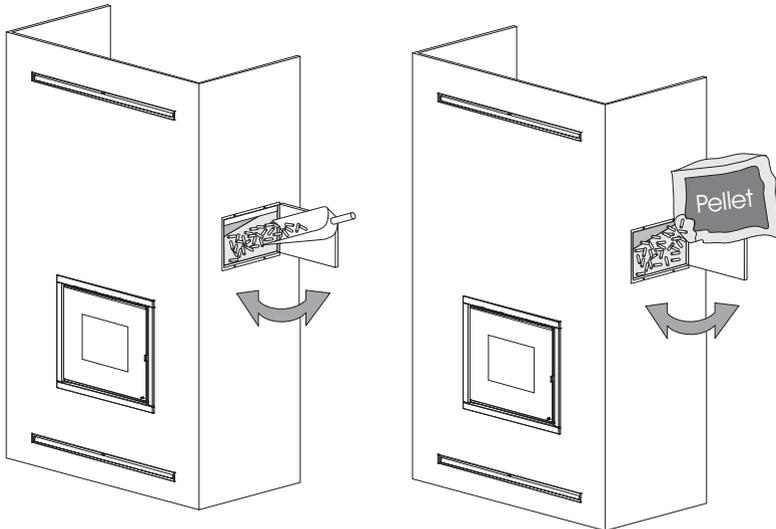
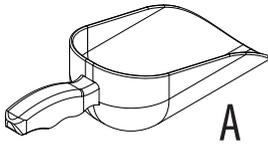
- Open the hatch and pour onto the chute half the content directly from the sack or using the supplied scoop (A)
- Complete the operation by pouring the second half of the sack with the same procedure



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

Store the spare fuel at an adequately safe distance.

Do not load pellets directly onto the brazier, but only into the hopper via the loading system.



13 - DOOR OPENING

DOOR OPENING

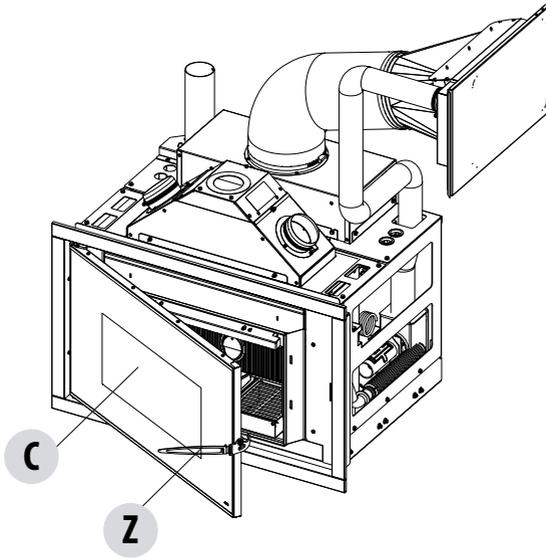
To open the product door "C", fit the cold handle "Z" into the hole in the handle and pull it towards you.



Attention!

The firebox door must be closed properly for the stove to work correctly.

The door must only be opened with the product switched off and cold.



14-ELECTRICAL CONNECTION

ELECTRICAL CONNECTION

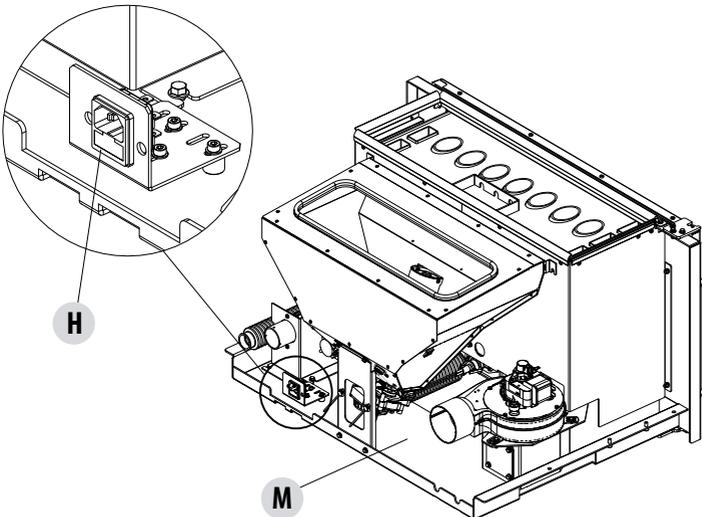
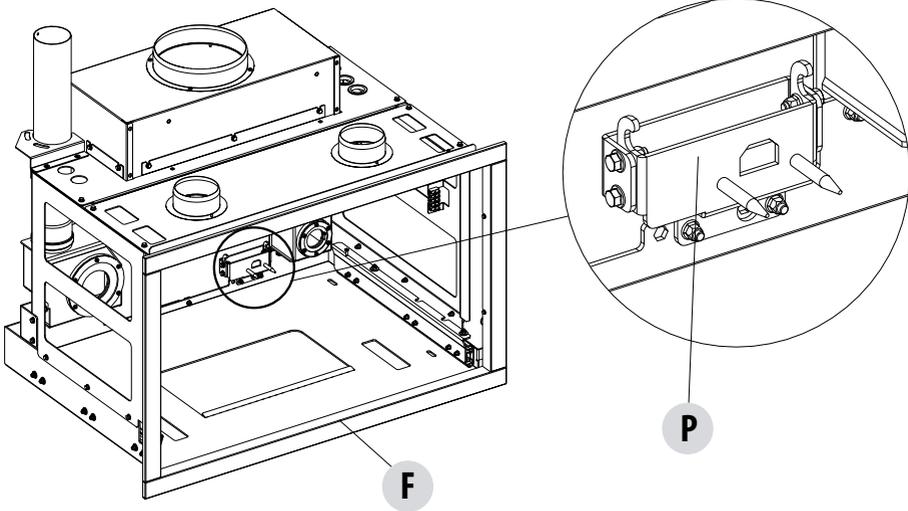
The cable remains in the fixed part "F" (FIG.1) of the insert, while the socket of the switch "H" comes out of the movable part "M" (FIG.2). As per standard, cable "A" (see image on the next page) is already connected to the fixed part of the insert. Simply connect the **wall socket "S" which must always remain accessible**.

Should this not be possible, during installation insert suitable devices for disconnection from the power mains, in compliance with national electrical installation standards.

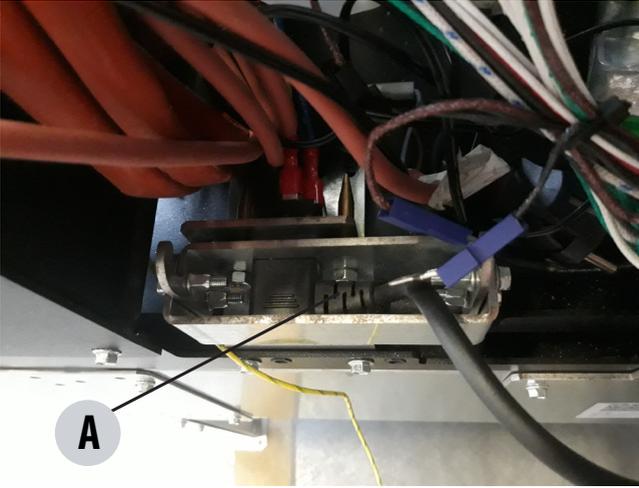
It is recommended to disconnect the power cable when the product is not in use.



The cable must never come into contact with the smoke exhaust pipe or any other part of the stove.

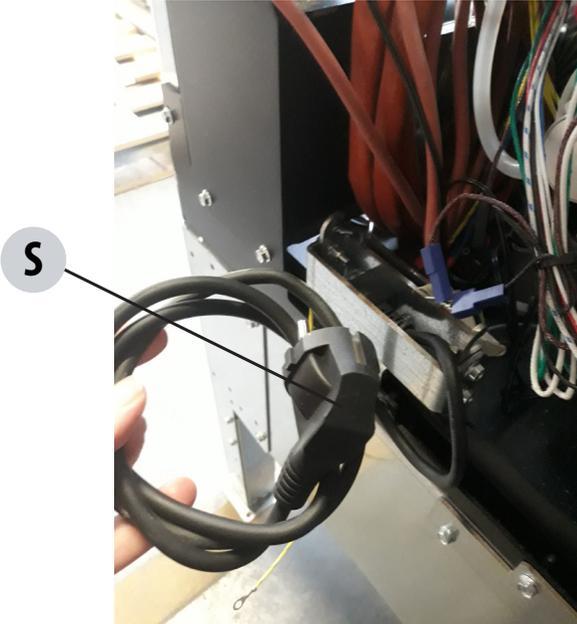


13 - DOOR OPENING



A

In the images to the side the socket "A" is already installed as per standard on the product. It remains fixed in this position even after the insert has been extracted. The other end of the cable "S" must be connected to the wall socket.

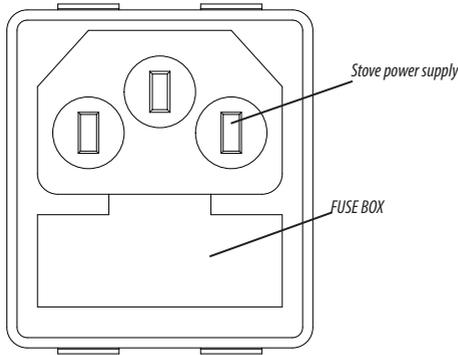


S

13 - DOOR OPENING

STOVE POWER SUPPLY

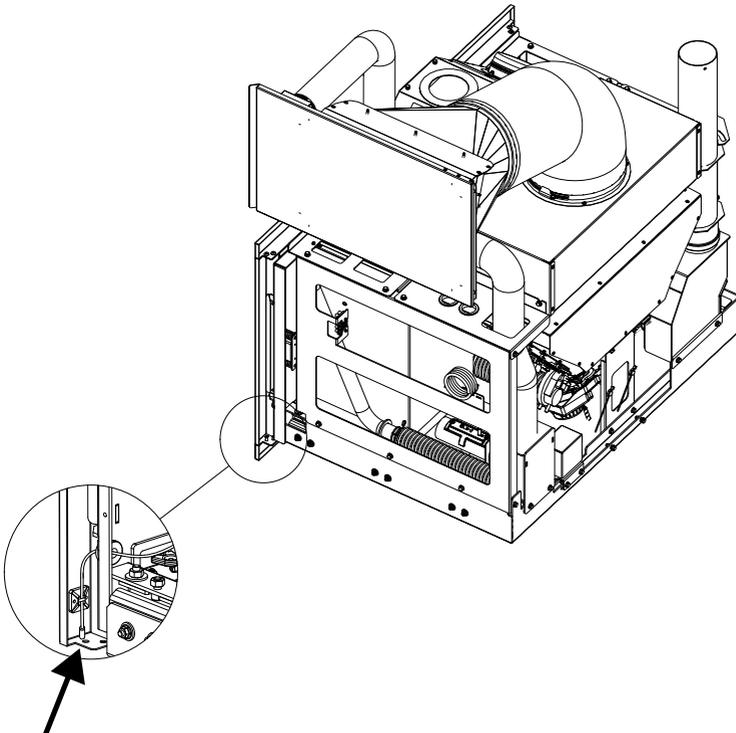
Plug the power cable into an electrical socket, the stove is now powered.



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

ROOM PROBE

The room probe is inside the firebox on the door opening side. Check that the room probe bulb is near the holes on the frame.





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