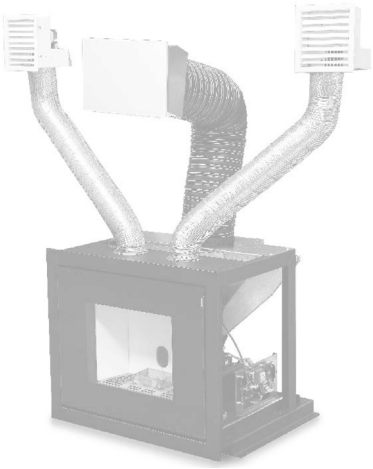
USE AND INSTALLATION MANUAL **GB**



PELLET THERMO FIREPLACE

VIVO 80 PELLET

COMFORT AIR SLIM MODEL

COMFORT AIR BASIC MODEL

Translation of the original instructions

MCZ

8901230200

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INTRODUCTION

Dear Customer,
Thank you for having chosen our product.
To allow for optimal operation and for you to enjoy the warmth and sense of wellbeing that the fire can convey in your home, we advise you to read this manual carefully before starting up the product for the first time.

REVISIONS TO THE PUBLICATION

The content of this manual is strictly technical and property of MCZ Group Spa.
No part of this manual can be translated into another language and/or altered and/or reproduced, even partially, in another form, by mechanical or electronic means, photocopied, recorded or similar, without prior written approval from MCZ Group Spa.
The company reserves the right to make changes to the product at any time without prior notice. The proprietary company reserves its rights according to the law.

CARE OF THE MANUAL AND HOW TO CONSULT IT

- Take care of this manual and keep it in an easily accessible place.
- Should the manual be misplaced or ruined, request a copy from your retailer or directly from the authorised Technical Assistance Department.
- "**Bold text**" requires particular attention.
- "Text in *"italics"* is used to draw your attention to other paragraphs in this manual or any additional explanation.
- "NOTE" provides the reader with additional information.

SYMBOLS USED IN THE MANUAL

	**ATTENTION:** carefully read and understand the relative message because **failure to comply with that which is written can cause serious damage to the product and put the user's safety at risk**.
	**INFORMATION:** failure to comply with these provisions will compromise the use of the product.
	**OPERATING SEQUENCES:** sequence of buttons to be pressed to access the menus or make adjustments.
	**MANUAL** carefully read this manual or the relative instructions.

1 - WARNINGS AND WARRANTY CONDITIONS

SAFETY PRECAUTIONS

- **Installation, electrical connection, functional verification and maintenance must only be performed by qualified or authorised personnel.**
- **Install the product in accordance with all the local and national laws and Standards applicable in the relative place, region or country.**
- **This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or trained on how to use the product by a person responsible for their safety.**
- Only fuel recommended by the company must be used. The product must not be used as an incinerator. It is strictly forbidden to use liquid fuel.
- 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 accidents are prevented.
- 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 can cause hazardous conditions and/or poor operation.
- Do not use the product as a ladder or supporting structure.
- Do not place laundry on the product to dry. Any clothes horses or similar objects 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 from any civil and criminal liability.*
- Any type of tampering or unauthorised replacement with non-original spare parts could be hazardous for the operator's safety and relieves the company from any civil and criminal liability.
- Most of the surfaces of the product can get very hot (door, handle, glass, smoke outlet pipes, etc.). **Avoid contact with these parts unless adequate protective clothing is worn or appropriate means are used, such as heat protective gloves** or cold handles.
- **It is forbidden to operate the product with the door open or the glass broken.**
- The product must be powered by a system that is equipped with an effective earth system.
- Switch the product off in the event of a fault or malfunctioning.
- Accumulated unburned pellets in the burner after each "failed start-up" must be removed before starting up again.
- Do not wash the product with water. Water could penetrate the unit and damage the electrical insulation, thereby causing electric shocks.
- Do not stand in front of the product for a long time. Do not overheat the room where the product is installed. This could affect your physical conditions and cause health problems.
- Do not put any fuel other than wood pellets in the hopper.
- Install the product in rooms that are adequately protected against fire and equipped with all the utilities such as supplies (air and electricity) and smoke outlets.
- If a fire breaks out inside the chimney, switch the appliance off, disconnect it from the mains and do not open the door. Then contact the competent authorities.
- The product and the ceramic/serpentine cladding must be stored in a place where there is no humidity and must not be exposed to the elements.
- It is recommended not to remove the feet that support the product in order to guarantee adequate insulation, especially if the flooring is made of flammable material.
- If the ignition system is faulty, do not force ignition with flammable materials.
- Special maintenance must only be performed by authorised and qualified personnel.
- Assess the static conditions of the surface on which the weight of the product will rest and provide suitable insulation if it is made of flammable material (e.g. wood, fitted carpet or plastic).

1 - WARNINGS AND WARRANTY CONDITIONS

INFORMATION:

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

- only fuel stipulated by the company must be used.
- Check and clean the smoke outlet pipes regularly (connection with the product).
- The product is not a cooking appliance.
- Always keep the cover of the fuel hopper closed.
- Keep this instruction manual in a safe place as it must accompany the product throughout its working life. If it is sold or transferred to another user, always make sure that the manual accompanies the product.

INTENDED USE

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

WARRANTY CONDITIONS

The company provides a product warranty, **excluding the parts subject to normal wear** stipulated below, for a period of **two years** from the date of purchase, which is proven by a supporting document that contains the name of the seller and the date when the sale took place. Warranty cover is valid if the completed warranty is returned within 8 days and the product is installed and tested by a qualified installer, according to the detailed instructions provided in the instruction manual supplied with the product.
The term 'warranty' refers to the (free-of-charge) replacement or repairs of **parts acknowledged to be faulty due to manufacturing defects.**

RESTRICTIONS

The above-mentioned warranty does not cover parts of electrical and electronic components and fans, which are covered for two years from when the product is purchased, proof of which is provided as specified above. The warranty does not cover parts subject to normal wear, such as: gaskets, glass and all parts that can be removed from the firebox.
Replaced parts will be covered by the warranty for the remaining period of the warranty in force as from the date of purchase of the product.

EXCLUSIONS

Variations in colour of the painted or ceramic/serpentine parts and crazed ceramics do not constitute grounds for a claim as they are natural characteristics of the material and product use.
The warranty does not cover any part that may be faulty as a result of negligence or careless use, incorrect maintenance or installation that does not comply with the company's instructions (see the relative chapters in this user manual).
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 all the prescriptions specified in the manual, especially warnings regarding installation, use and maintenance of the appliance.
If the product does not work correctly, contact your local retailer and/or importer.
Damage caused during transport and/or when handled is excluded from the warranty.
The supplied installation guide is the only reference for installation and product use.
The warranty will be rendered null and void in the event of damage caused by tampering, atmospheric agents, natural disasters, electrical discharges, fire, defects in the electrical system, and maintenance not being performed at all or as indicated by the manufacturer.

1 - WARNINGS AND WARRANTY CONDITIONS

INTERVENTION REQUEST

The company declines all liability if the product and any other accessory is used incorrectly or altered without authorisation.
All parts must be replaced with original spare parts.

The request must be sent to the retailer who will forward it to the Technical Assistance Department.

SPARE PARTS

Only original spare parts must be used. The retailer or service centre can provide all the useful information regarding spare parts.
It is recommended not to wait for the parts to be worn before having them replaced. It is important to perform regular maintenance.

PRECAUTIONS FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH THE EUROPEAN DIRECTIVE 2002/96/EC AND ITS SUBSEQUENT AMENDMENT 2003/108 EC.

At the end of its working life, the product must not be disposed of as urban waste.
It must be taken to a special differentiated waste collection centre set up by the local authorities or to a retailer that provides this service.
Disposing of the product separately prevents possible negative consequences for the environment and health deriving from inappropriate

disposal and allows its materials to be recovered in order to obtain significant savings in energy and resources.
As a reminder of the need to dispose of appliances separately, the product is marked with a crossed-out wheeled dustbin.

2-INSTALLATION INSTRUCTIONS

The requirements in this chapter refer to the regulations of the Italian installation Standard UNI 10683. In any case, always comply with the regulations in force in the country of installation

PELLETS

Wood pellets are obtained from compressing sawdust 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 pellets to be produced without glue or binders.

The market offers different types of pellets with characteristics that vary according to the wood mixtures used. The diameter varies between 6 and 8 mm, with a standard length ranging from 5 to 30 mm. Good quality pellets have a density that varies between 600 and over 750 kg/m3, with a moisture content that ranges from 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.

Good-quality wood has a calorific value of 4.4 kW/kg (15% moisture, after about 18 months of seasoning), whereas that of pellets is 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 BAGS OF FUEL

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

DINplus, **Ö-Norm M7135 and Pellet gold** are examples of the major quality certifications of pellets in the European market and guarantee that the following are complied with:

- calorific value: 4.9 kWh/kg.
- Moisture content: max 10% of the weight.
- Percentage of ash: max 0.5% of the weight.
- Diameter: 5 – 6 mm.
- Length: max 30 mm.
- Content: 100% untreated wood with no added binding agents (max percentage of bark: 5%).
- Packaging: in bags made from environmentally friendly or biologically decomposable material.

The company strongly recommends using certified fuel for its products (DINplus, Ö-Norm M7135 or Pellet Gold). Poor quality pellets or others that do not comply with that specified previously compromises the operation of your product and can therefore render the warranty and product liability null and void.

2-INSTALLATION INSTRUCTIONS

PRECAUTIONS REGARDING INSTALLATION

IMPORTANT!
Product installation and assembly must be carried out by qualified personnel.

The product must be installed in a suitable place for it to be regularly opened and routine maintenance to be performed.
The site must be:

- compliant for proper operation.
- Equipped with an adequate smoke expulsion system.
- Equipped with ventilation intake from outside.
- Equipped with 230V 50 Hz power supply with an EC compliant earth system.

The product must be connected to a chimney or an internal or external vertical duct that complies with current regulations.
The product must be positioned in such a way that the electrical socket is accessible.

IMPORTANT!
The product must be connected to a chimney or a vertical duct that can expel the smoke at the highest point of the building.
The smoke derives from the combustion of wood essence and if it comes in contact with or close to walls, the latter can become dirty. Moreover, utmost attention is required as they are almost invisible but very hot and can cause burns. The holes of the external air inlet and the smoke outlet pipe must be drilled before positioning the product.

THE OPERATING ENVIRONMENT

For correct operation and even distribution of heat, the product must be placed where the air required for combustion can flow.

The volume of the room should be no less than 15 m^3.

The air must enter through permanent openings in the walls (near the product) that reach outside with a minimum section of 80 cm^2 without the protective grille.
These openings (air inlets) must be made in such a way that it is impossible for them to be obstructed in any way.
Air can also be drawn from adjacent rooms to the one that is to be ventilated, provided they have an external air inlet and are not used as a bedroom or bathroom or where there is a fire hazard, such as: a garage, wood shed or where flammable materials are stored, and applicable regulations must be strictly complied with.

If the product is placed too close to the wall it could cause overheating and damage the plaster (yellowing, cracking, etc.).

2-INSTALLATION INSTRUCTIONS

POSITIONING AND RESTRICTIONS

In the case of simultaneous installation with other heating appliances, provide appropriate air inlets for each one (according to the instructions of each product).

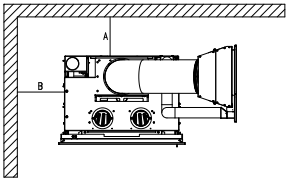
The product cannot be installed (except for sealed or closed operation appliances with external ducted combustion air intake):

- ***in bedrooms or bathrooms;***
- ***in rooms where there are liquid fuel appliances with continuous or intermittent operation that draw the combustion air from the room they are installed in;***
- ***in rooms where there are B-type gas heating appliances, with or without domestic hot water production and interconnecting rooms;***
- ***where another heating appliance is installed without an independent air flow.***

It is forbidden to place the product in an explosive atmosphere.

MINIMUM DISTANCES

VIVO 80 PELLET	Non-flammable walls	Flammable walls
Comfort Air Version	A = 20 mm B = 20 mm	A = 50 mm B = 50 mm



If particularly delicate objects are present, such as furniture, curtains or sofas the distance of the product must be significantly increased.

If the floor is made of wood, it is recommended to place a floor protection in accordance with the Standards in force in the country of installation.

Heat-sensitive or flammable objects cannot be placed near the product. Keep such objects at a minimum distance of 80 cm from the outermost point of the product.

2-INSTALLATION INSTRUCTIONS

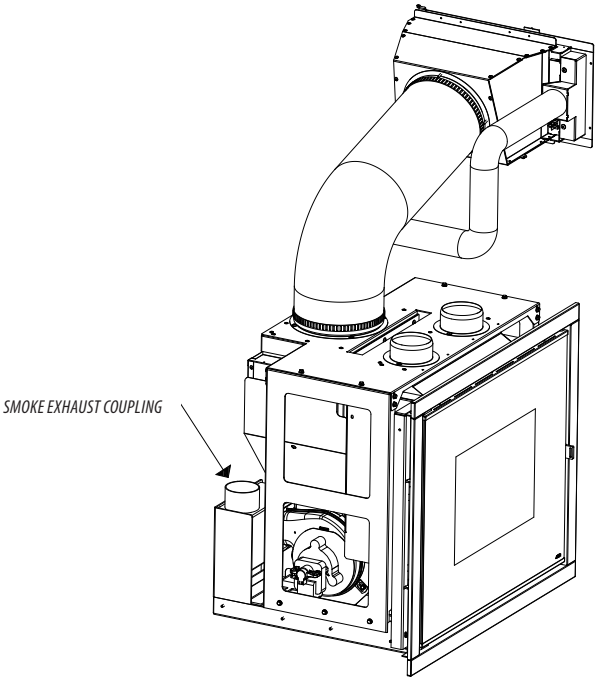
CONNECTION OF THE SMOKE EXHAUST DUCT

When drilling the hole for the smoke exhaust pipe, the possible presence of flammable materials must be considered. If the hole must be made through a wooden wall or thermolabile material, the **INSTALLER MUST** first use the relative wall fitting (minimum diam. 13 cm) and adequately insulate the pipe of the product that passes through it, using suitable insulating material (1.3 - 5 cm thick with minimum thermal conductivity 0.07 W/m°K).

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 in negative pressure.

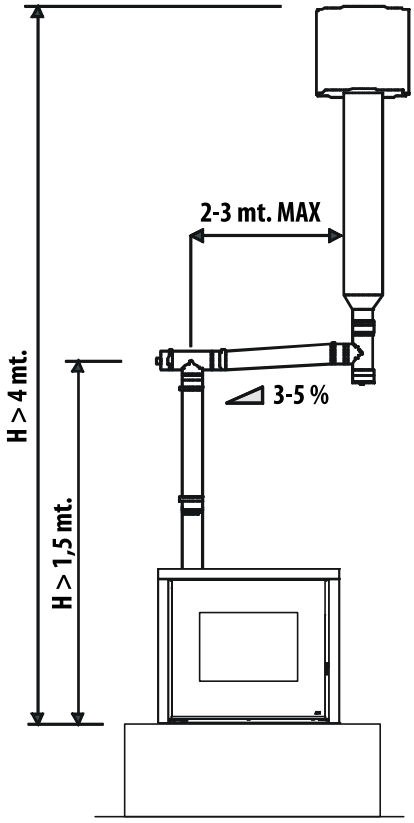


2-INSTALLATION INSTRUCTIONS

Always use pipes and fittings with appropriate seals that guarantee tightness.
It must be possible to inspect all sections of the flue duct and they must be removable for periodic internal cleaning (T-fitting with inspection hole).
Position the product considering all the above requirements and instructions.

IMPORTANT!
The following conditions must be complied with when connecting the appliance to the chimney:

- ***the smoke duct must be at least category T200 (or higher if required by the smoke temperature of the appliance) and P1-type (airtight).***
- ***All 90° angles (max. 3) in the smoke exhaust duct must be preferably fitted with the relative T-fittings with inspection hole. (See pellet product accessories).***
- ***It is strictly forbidden to fit a mesh at the end of the exhaust pipe as it could cause the product to malfunction (due to clogging).***
- ***It is forbidden to use counter-sloping pipes.***
- ***The horizontal section of the smoke duct must not be longer than 2-3 m.***
- ***It is also recommended not to exceed 6 metres in length with the pipe Ø 80 mm.***
- ***The smoke duct must not cross rooms in which it is forbidden to install combustion appliances.***



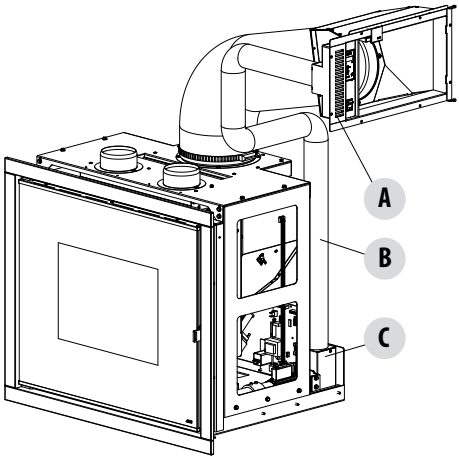
2-INSTALLATION INSTRUCTIONS

COMBUSTION AIR

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

The combustion air in this product is autonomously drawn directly from the grille on the pellet loading door. The 65 mm diameter pipe supplied must be connected to the product and the door as shown in the figure.

The user can decide to draw the combustion air from outside, in which case, the pipe must be connected to the product and an external air intake.



A - AIR INLET FROM THE PELLET LOADING DOOR
B - FLEXIBLE PIPE
C - PIPE CONNECTION TO THE PRODUCT

HOT AIR OUTLET DUCTING

The product can distribute the hot air by **Forced Convection** by means of a forced ventilation kit (supplied).

The product comes with two types of kits:

- Comfort Air Slim.
- Comfort Air Basic.

The main characteristics of the two kits are:

- Kit Comfort Air Slim - 12 multi diffuser, 60 mm diameter ducting and a motor between the thermo fireplace and the diffuser.
- Kit Comfort Air Basic - 20 multi diffuser, 100 mm diameter ducting and a motor behind the fan.

Other optional types of diffusers can be applied depending on the kit chosen.

Refer to the relative manual inside the kit for the installation instructions.

An air intake must be installed in the place of installation in order to guarantee the air for combustion.

2-INSTALLATION INSTRUCTIONS

FANS ELECTRICAL CONNECTION

The kit comes with 2.5 metre long silicone cables for fans cabling. Start cabling 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 do not have polarization) (fig.7).
The terminal block, to which one must connect the fan cables (fig.8), is screwed to the upper part of the structure .
Connect the two fans earthing cables to the first clamp on the left (**T**). Connect the remaining two cables from the LH fan with the clamps connected to the white cables (**B**). Connect the remaining two cables from the RH fan with the clamps connected to the purple cables (**V**).

IMPORTANT!
The fan connection cable is made of silicone to resist high temperatures. In the event of extension cables (over 2.5 m) and in any case under all circumstances, make sure that the cable does not come into contact with hot parts of the unit, or with air connecting pipes within the cladding or structure.

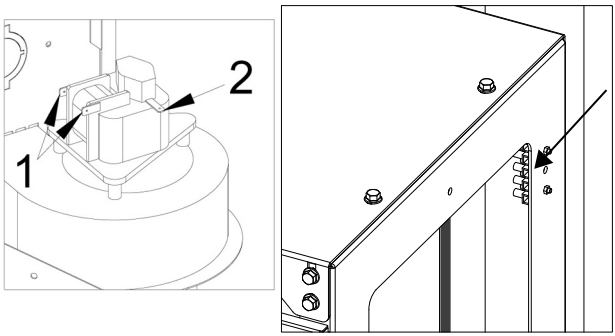


FIGURE 7– FANS CLAMPS POSITION

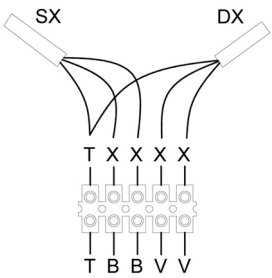


FIGURE 8– CABLES POSITION ON TERMINAL BLOCK

2-INSTALLATION INSTRUCTIONS

CONNECTION TO THE EXTERNAL AIR INLET

It is essential for the room where the product is installed to be adequately ventilated in order to guarantee sufficient air for proper combustion in the appliance. This is possible by means of suitable ventilation openings in the room itself or in an interconnected room through a permanent opening between the rooms.
For this purpose, drill a hole on the outer wall close to the product with a minimum section of 80 cm^2 (11 cm in diameter or 10x10 cm if rectangular, considering the protective grids), protected by a grid on the outside.

The air inlet must also:

- be protected with a grid, metal mesh, etc. without reducing the net section.
- Be positioned in such a way so as not to be obstructed.
- Allow maintenance to be performed.
- Be directly interconnected with the room where the product is installed.
- In the case of ducting, up to 3.5 linear metres, increase the cross-section by about 5%, whereas for longer ducts, increase it by 15%.

Remember that the ventilation grilles always have a useful section in cm^2 on one side. When choosing the grille and size of the hole, check that the useful section of the grille is larger or equal to the section required by the company for product operation.

IMPORTANT!
The air flow can also be drawn from an adjacent room to that of the room where the product is installed, provided the air can flow freely through permanent openings interconnected with the outside; air inlets connected to thermal units, garages, kitchens or bathrooms must be avoided.

CONNECTION TO THE CHIMNEY

The chimney is the fundamental element for smoke expulsion and must therefore comply with the following requirements:

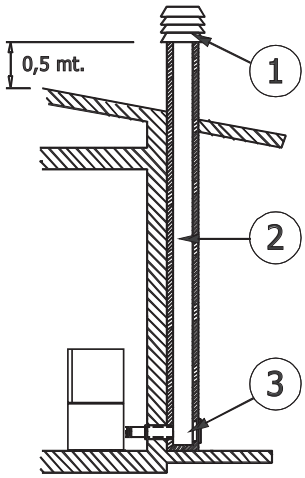
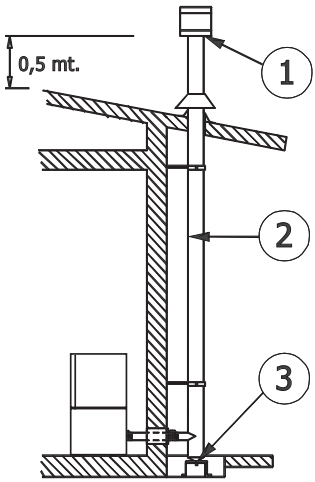
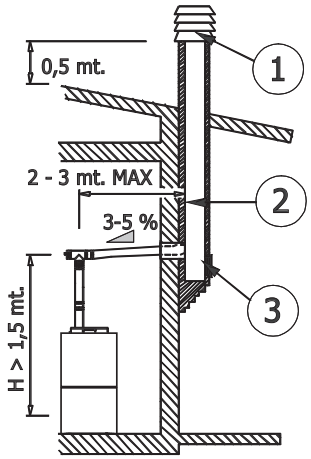
- be waterproof and thermally insulated.
- Be made of suitable materials that resist mechanical stress over time, heat, the effects of the combustion products and any possible condensation.
- Have a vertical set-up with deviations from the axis of no more than 45° and free of bottlenecks.
- Must be suitable for the specific operating conditions of the product and have the CE marking (EN1856-1, EN1443).
- Must be adequately sized for the draught/smoke expulsion requirements that are necessary for the product to operate correctly (EN13384-1).
- The internal section is preferably circular.
- In the case of a pre-existing product that has been used, it must be cleaned.

The chimney is fundamental for correct operation and safety of your product.

Hereunder are a few guidelines for a correct installation. Any alternative configurations must be suitably sized in accordance with the general method of calculation of UNI EN 13384-1.

2-INSTALLATION INSTRUCTIONS

CONNECTIONS

CONNECTION TO THE CHIMNEY	CONNECTION TO AN EXTERNAL DUCT WITH AN INSULATED OR DOUBLE-WALL PIPE	CONNECTION TO THE CHIMNEY
The internal dimensions of the chimney must not exceed 20x20 cm or 20 cm in diameter. In the case of larger dimensions or bad chimney conditions (e.g. cracks, poor insulation, etc.), it is advisable to fit a stainless steel pipe of suitable diameter throughout the length of the chimney right to the top.	The minimum internal dimensions of the external duct must be 10x10 cm or 10 cm in diameter and must not exceed 20x20 cm or 20 cm in diameter. Only stainless steel insulated (double-wall) pipes must be used, which are smooth on the inside and fixed to the wall. Flexible stainless steel pipes must not be used.	The connection between the product and the chimney or the smoke duct must not have an inclination that is less than 3% in the horizontal sections, which must have a maximum overall length of 2/3 m. The vertical section between one T-fitting and another (angle) must not be less than 1.5 m.
		

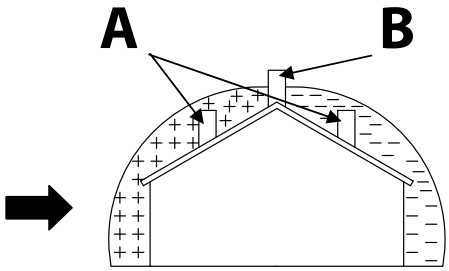
1) WINDPROOF CHIMNEYPOT 2) CHIMNEY 3) INSPECTION HOLE

- ***Use adequate instruments to verify that there is a minimum draught of 5 Pa.***
- ***Set-up an inspection hole at the bottom of the chimney to perform periodic checks and cleaning, which must be done annually.***
- ***The connection to the chimney must be sealed and the fittings and pipes recommended by us must be used (CE marked in accordance with EN1856-2 with the minimum requisites: T200 and P1).***
- ***You must ensure that a windproof chimneypot is installed in accordance with the regulations in force.***
- ***This type of connection guarantees smoke expulsion even in the event of a temporary power cut.***

2-INSTALLATION INSTRUCTIONS

OPERATING PROBLEMS RELATED TO DRAUGHT DEFECTS IN THE CHIMNEY

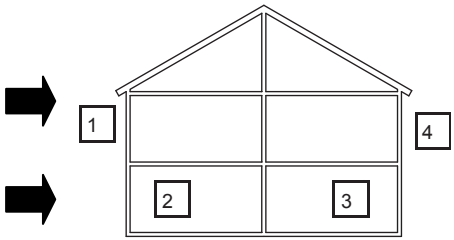
Among all the weather and geographical conditions that affect chimney operation (rain, fog, snow, altitude a.s.l., exposure to sunlight, orientation to the cardinal points, etc.), the wind is certainly the most determinant. In fact, besides the thermal depression caused by the difference in temperature between inside and outside the chimney, there is another type of depression (or overpressure): dynamic pressure caused by the wind. An updraft always increases depression and therefore the draught. A horizontal wind increases depression provided the chimneypot has been installed properly. A downdraft always decreases depression, at times inverting it. Besides the direction and force of the wind, the position of the chimney and the chimneypot with respect to the roof of the building and the surrounding landscape is also important.



A=LESS FAVOURABLE POINTS
B=THE MOST FAVOURABLE POSITION

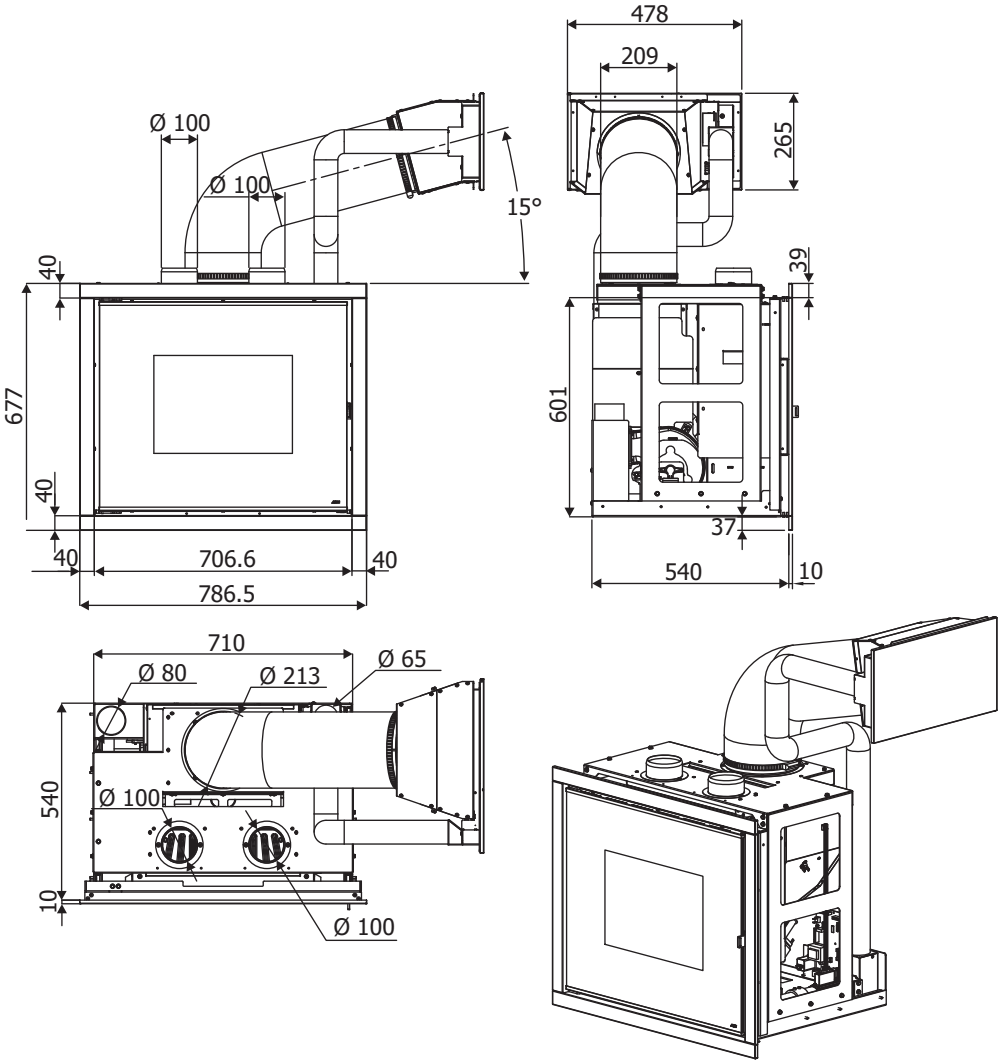
The wind also affects chimney operation indirectly by creating overpressure and depression zones within the building as well as outside. An internal overpressure can be created in rooms that are directly exposed to the wind (2), which can enhance the draught in stoves and fireplaces, however, it can be counteracted by the external overpressure if the chimneypot is situated on the side exposed to the wind (1). On the other hand, a dynamic depression can be created in rooms that are opposite the wind direction (3), which competes with the natural thermal depression generated by the chimney, however, this can be compensated for (sometimes) by placing the smoke duct opposite the wind direction (4).

IMPORTANT!
The operation of the pellet product is significantly affected by the chimney layout and position.
Hazardous conditions can only be resolved by qualified personnel setting the product appropriately.



DRAWINGS AND CHARACTERISTICS

DIMENSIONS: VIVO 80 PELLET



3-INSTALLATION AND ASSEMBLY

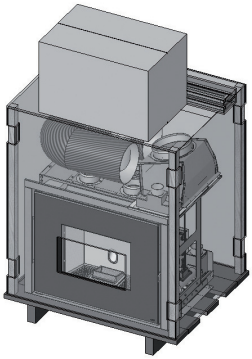
TECHNICAL CHARACTERISTICS	VIVO 80 PELLET COMFORT AIR (SLIM-BASIC)
Nominal output power	10,5 kW (9030 kcal/h)
Minimum output power	2,7 kW (2322 kcal/h)
Efficiency at Max	92,2%
Efficiency at Min	95,8%
Temperature of exhaust smoke at Max	170 °C
Temperature of exhaust smoke at Min	70 °C
Particulate/OGC/Nox (13%O_2)	19 mg/Nm^3 - 2 mg/Nm^3 - 133 mg/Nm^3
CO at 13% O_2 at Min and at Max	0,03 – 0,01%
CO_2 at Min and at Max	6,4% - 8,1%
Recommended draught at Max power	0,10 mbar - 10 Pa
Recommended draught at Min power	0,05 mbar - 5 Pa
Mass of smoke	8,9 g/sec
Hopper capacity	20+15 litres
Type of pellet fuel	Pellet diameter 6-8 mm and size 5/30 mm
Pellet hourly consumption	Min ~ 0.6 kg/h* - Max ~ 2.2 kg/h*
Autonomy	At min ~ 39 h* - At max ~ 11 h*
Heatable volume m^3	226/40 – 258/35 – 301/30 **
Combustion air inlet	External diameter 50 mm
Smoke outlet	External diameter 80 mm
Air inlet	80 cm^2
Nominal electrical power (EN 60335-1)	100 W (Max 420 W)
Supply voltage and frequency	230 Volt / 50 Hz
Net weight	170 kg
Weight with packaging	190 kg

* These data may vary according to the type of pellets used.
** Heatable volume based on the requested power per m3 (respectively 40-35-30 Kcal/h per m3).
Tested according to EN 14785 in accordance with Directive 89/106/EEC (Construction Products).

3-INSTALLATION AND ASSEMBLY

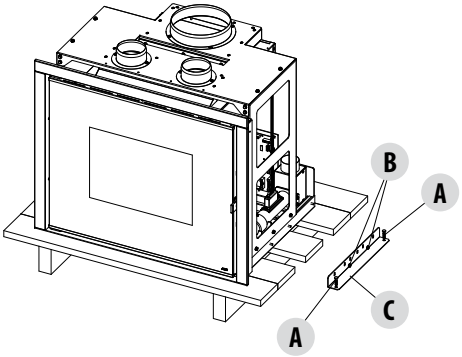
PREPARATION AND UNPACKING

The product is supplied in a single package. The pipe, feeding door and ventilation grille are packaged inside. A box is placed on top of the package with the Comfort Air Slim or Basic Kit inside.



PACKAGING: VIVO 80 PELLET COMFORT AIR

Open the package, remove the product from the pallet and set it in the pre-selected place, making sure this complies with the requirements. The two brackets must be removed in order to remove the product from pallet, by loosening the two flanged nuts and the two screws.



A - SCREW
B - NUT
C - BRACKET

The appliance must always remain in a vertical position and handled solely with a cart. Pay particular attention to the door and its glass, protecting them from mechanical knocks that would compromise their integrity.
In any case, 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.
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.

3-INSTALLATION AND ASSEMBLY

POSITIONING

Evaluate the optimal condition of installation before placing the product.
The product can be installed in an existing traditional firebox or as a new system.
Furthermore, an iron support can be purchased separately in order to raise the product to the recommended height, 500 mm, (see the relative price list of accessories - optional) or build a base on site.

INSTALLING IN AN EXISTING FIREBOX

Evaluate the following elements:
The product support surface must have the following characteristics:

- bear the weight of the product and any accessories
- its texture must allow anchors to be set with dowels for safety purposes
- be perfectly level
- the back panels must be as perpendicular to the surface as possible

The housing compartment must not wide enough for the product to fit in.
After having verified the conditions required for a correct installation, proceed with the product assembly:

- fasten the base of the product to the support surface
- make the various connections to the fireplace in compliance with all the applicable regulations.

Any space between the cladding walls and the product can be closed with a compensation frame that must be easily removed if maintenance is to be performed on the insert.
It is mandatory for the product to be fastened to the support surface as it may tip over when being extracted.
Verify that all the connections (hydraulic and electrical) allow the product to be extracted.

INSTALLING AS A NEW SYSTEM

Evaluate the following elements:
The product support surface must have the following characteristics:

- bear the weight of the product and any accessories
- its texture must allow anchors to be set with dowels for safety purposes
- be perfectly level

After having verified the conditions required for a correct installation, proceed with the product assembly:

- fasten the base of the product to the support surface
- make the various connections to the fireplace in compliance with all the applicable regulations.

It is mandatory for the product to be fastened to the support surface as it may tip over when being extracted.
Verify that all the connections allow the product to be extracted.

- Proceed with the cladding assembly.

3-INSTALLATION AND ASSEMBLY

FASTENING TO THE BASE OF THE INSERT

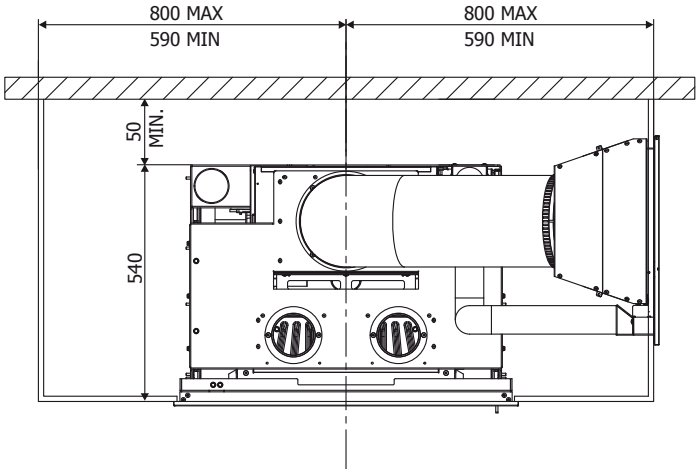
It is mandatory to anchor the product to a support as the authorised technician can remove the combustion chamber from its seat by means of two extendable guides while performing the annual maintenance.

Fasten the insert as follows:

- The depth of the insert inside the frame is 540 mm.
- The safe distance from combustible material is 50 mm
- If the product is to be installed with the pellet loading from the front, simply leave 50 mm behind the product (safe distance for flammable material); if the pellet loading is to be on the side, 50 mm can still be left behind the product, however, tilt the pipes of both the combustion air and the loading. Otherwise, the door cannot be fastened to the wall. If the pipe is kept straight outwards, at least 150 mm must be left behind.

Proceed as follows, irrespective of the loading position selected (front or side):

- Remove the compensation frame C (see the relative paragraph).
- Loosen the lower screws (B) under the frame.
- Then remove the machine and separate it from its support (D).
- Place the support (D) 50 mm (MIN.) away from the wall.



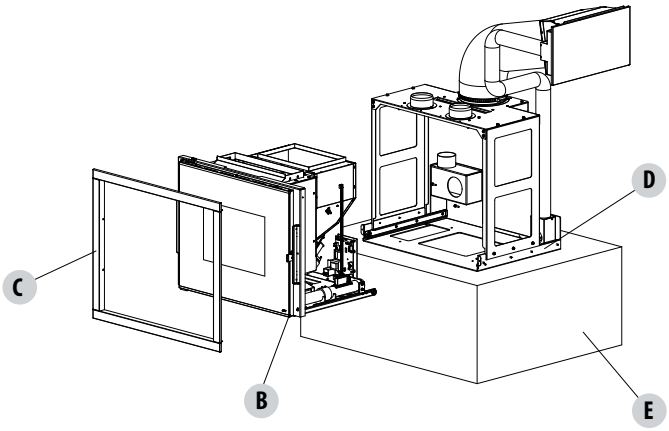
- Fasten the support (D) to the base (E) with the screws supplied, making sure that the support anchor surface (D) and the wall are perpendicular.
- Set the machine back on the support (D), insert the screws (B) again, making sure the machine and the support are well secured in order to guarantee product operation.

It is very important to make sure the positioning measurements of the product base have been respected and the support anchor surface and the wall are perpendicular. Also make sure that the screws secure the machine to the support.

3-INSTALLATION AND ASSEMBLY

The product can be installed at the desired height by constructing a suitable platform. This support must be made of non-flammable material.

The company declines all liability for any damage to objects and persons if the above-mentioned precautions are not complied with.



D = SUPPORT
E = BASE
B = SCREW
C = FRAME

REMOVING THE COMPENSATION FRAME

In order to prevent damaging the finishing frame (C) around the door, it is recommended to remove it before fastening the product to the base (E) and set in a safe place.

FITTING THE PELLET LOADING CHUTE

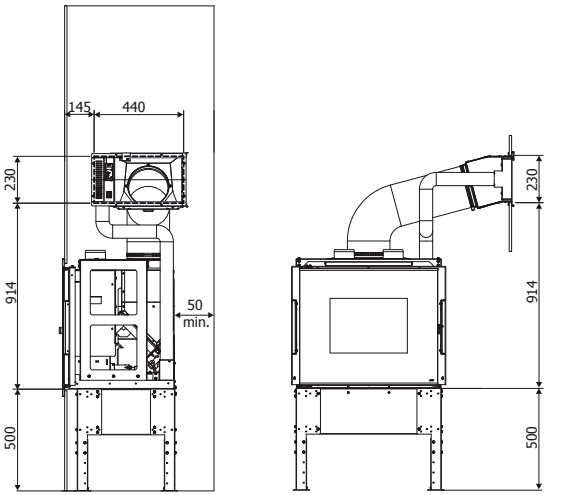
The side on which the fuel loading chute is to be installed must be decided upon before setting the product in place. The VIVO 80 PELLET is delivered with two clamps, the connection pipe and the chute with a door.
The chute can be fitted on the right, left or at the front. The connection pipe is 1 metre long.

The connection pipe must be shortened according to its position (side or front) for it to be taut and form a slight angle from the horizontal line. This is required for the pellets to go down.
Before applying the cladding, run a fuel loading test to make sure the fuel descends properly to the hopper.
The pipe must be insulated properly if this is fitted on the left side, in correspondence with the smoke expulsion.
The manufacturer declines all liability if the above mentioned warning is not complied with.
Fire hazard!!

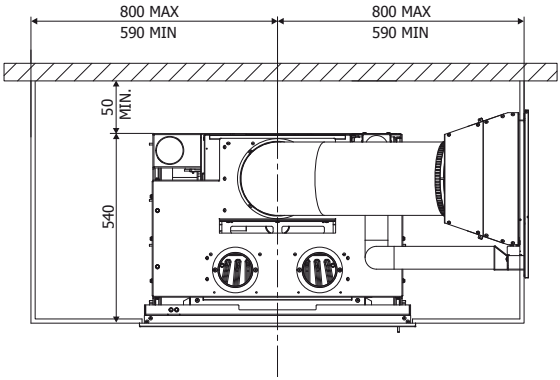
FITTING THE CHUTE AT THE SIDE

If the chute is to be placed at the side, the distance from the axis of the machine to the wall must not exceed 80 cm (figure at the side).
Proceed as follows to set the chute in place:

- Connect the supplied pipe to the Vivo 80 Pellet, making sure it is turned sideways, and fasten it with the clamp.
- Connect the pipe (upper part) to the opening of the door structure with the supplied clamp.
- Position the pipe with the door structure in such a way that, once the cladding is installed, the pipe can be tightened and fixed to the wall of the cladding in line with the hole made for it to be inserted.
- Refer to the relative paragraph to fit the external door, since this is to be carried out once the cladding is completed.



FITTING THE FRONT CHUTE

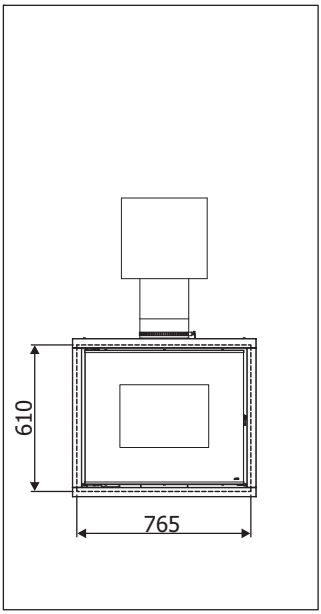


FITTING THE SIDE CHUTE

3-INSTALLATION AND ASSEMBLY

PRODUCT INLET HOLE

The hole made on the wall must be 765*610 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 is to be performed and/or parts are to be replaced.



FITTING THE CHUTE AT THE FRONT

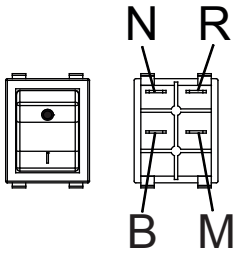
Proceed as follows if the pipe is to be positioned at the front:

- Connect the supplied pipe to the product, making sure it is turned to the front, and fasten it with the clamp.
- Connect the pipe to the opening of the door structure with the supplied clamp.
- Position the pipe in such a way that it is accessible once the cladding is completed and for the door structure to be fastened to the preset hole on the wall of the cladding itself.
- Refer to the relative paragraph to fit the external door, since this is to be carried out once the cladding is completed.

CONNECTING THE SWITCH AND CONTROL PANEL

The control panel and switch are already fitted on the pellet loading door and connected to the respective wires by the manufacturer.
Connect the wire of the switch to the socket on the rear side of the product.
The wire of the control panel must be connected to the electric board in position 1. T
o fix the switch to the pellet loading hatch one must temporarily disconnect the cables. Reconnect the cables to the relative terminals as shown in the figure.

N = BLACK
R = RED
B = BLUE
M = BROWN

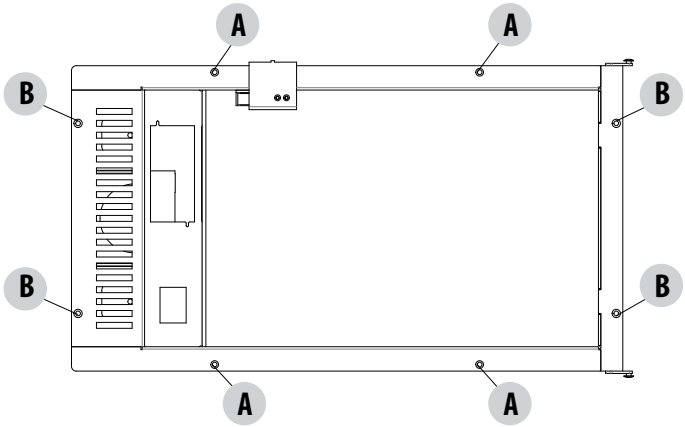


3-INSTALLATION AND ASSEMBLY

Pay utmost attention when handling the panels connected to the relative wires.
The wires must be kept away from heat and where they cannot be damaged if the product is extracted.
Correct operation requires the flat wire and the wire of the switch to be kept away from each other when passing them through, following different routes.
Never force the connector.
Do not bend and/or twist the wires.
Do not modify the connectors, the wires or the supports of the panels.

ASSEMBLING THE DOOR

Once the electrical wiring is complete, run a test operation before fitting the door of the hood.
If the test is successful, fasten the door to the hood with four screws, using the four holes on the frame of the door itself marked with the letter (B).
The holes marked on the horizontal profiles of the door (A) are used to fasten the frame of the door to the frame of the chute, in order to secure the two parts by closing the wall of the hood in the middle.
A rectangular hole must be made on the hood in advance, at a height that is determined by how the optional support has been installed or how the masonry rise has been built.



OPENING/CLOSING THE PELLET DOOR

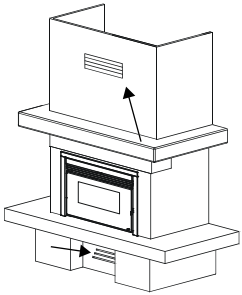
The door closes by means of pressure and therefore has no handles or knobs.
The door is opened by pressing the top left corner. It will lock or unlock with the closing device on the frame of the door when this is pressed.

3-INSTALLATION AND ASSEMBLY

HOOD VENTILATION GRILLES

Foreword

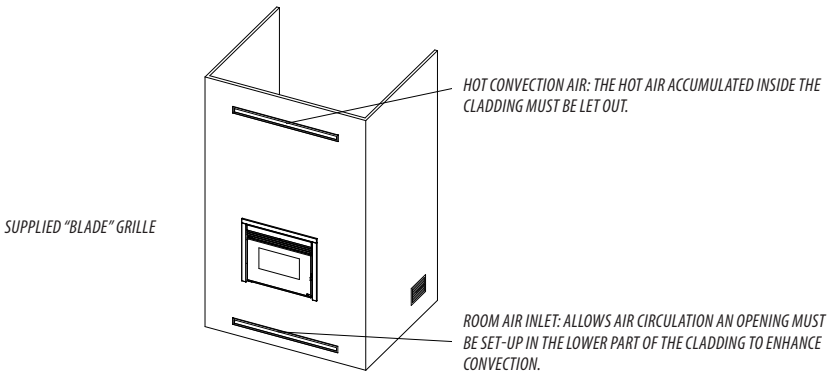
Ventilation grilles must be set up according to how the product is placed.
If inserted in existing cladding, the ventilation grilles on the cladding will be used.
If used as a new installation, the company recommends installing the ventilation grilles as described in the following paragraph.
However, it is important to set-up 2 openings, one on the top part and the other on the lower part of the cladding.



HOOD VENTILATION GRILLES FOR NEW CLADDING

It is mandatory to install the hood ventilation grilles of the manufacturer or grilles that can guarantee the same functions and the same air passage section.
The company cannot be held liable for any damage caused to the structure or the electrical components if this precaution is not complied with.

The structure becomes very hot and constant and efficient ventilation **must** always be guaranteed inside the cladding.
This allows part of the heat of the structure to be recovered that would be lost if left inside the cladding, whilst guaranteeing perfect product operation.
The company supplies 2 "Blade" nozzles; one is to be installed in the upper part and the other in the lower part of the cladding.

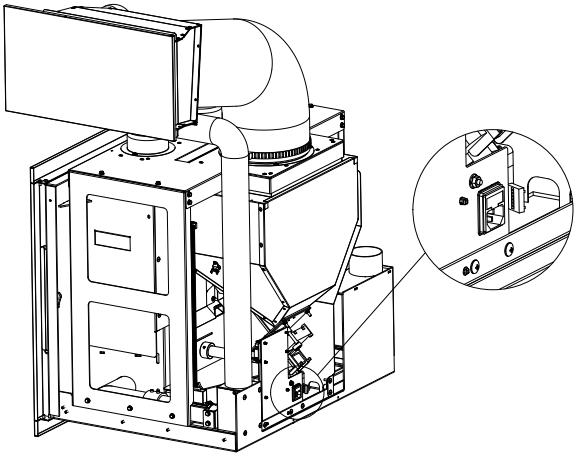


3-INSTALLATION AND ASSEMBLY

ELECTRICAL CONNECTION

First connect the power cable to the rear part of the product and then to a wall socket, which must always be accessible.
Should this not be possible, during installation, insert appropriate disconnecting power supply devices, in compliance with the national regulations regarding electrical installations.

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



3-INSTALLATION AND ASSEMBLY

SETTING UP THE CLADDING

The product must be fully tested before the cladding is applied. The company cannot be held liable for any damage to the cladding should operating anomalies arise, which were not verified before the cladding was applied to the product.
IT IS MANDATORY to check the tightness of all the pipes through which smoke passes (smoke fitting, gaskets and flue coupling) before setting up the cladding.
READ THE "OPERATION TEST" CHAPTER BEFORE SETTING UP THE PRODUCT CLADDING.

The product and the cladding parts must be fastened together **WITH NO CONTACT MADE WITH THE STEEL STRUCTURE** in order to prevent heat from being transmitted to the marble and/or stone and to allow for normal thermal expansion. Pay attention to the wood finishes, such as beams or shelves.
It is recommended to set up the counter hood made of 15 to 20 mm thick fireproof plasterboard with a freestanding frame made of a galvanised profile to prevent bearing the weight on the cladding components (wooden beams or marble lintels), which do not have a freestanding structure **in order to intervene easily in case of anomalies and/or future maintenance**. Dry mount the hearth of the **cladding, leaving a 1 cm gap** between the insert and the hearth for insulation.

WOODEN BEAM INSULATION

If you wish to mount a wooden beam, it must be protected with adequate insulation from the hot parts in order to prevent the risk of fire or damage to the cladding.

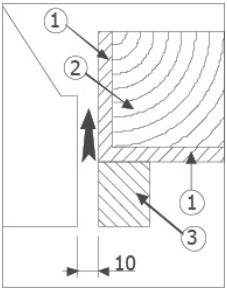


FIGURE 8 - BEAM INSULATION

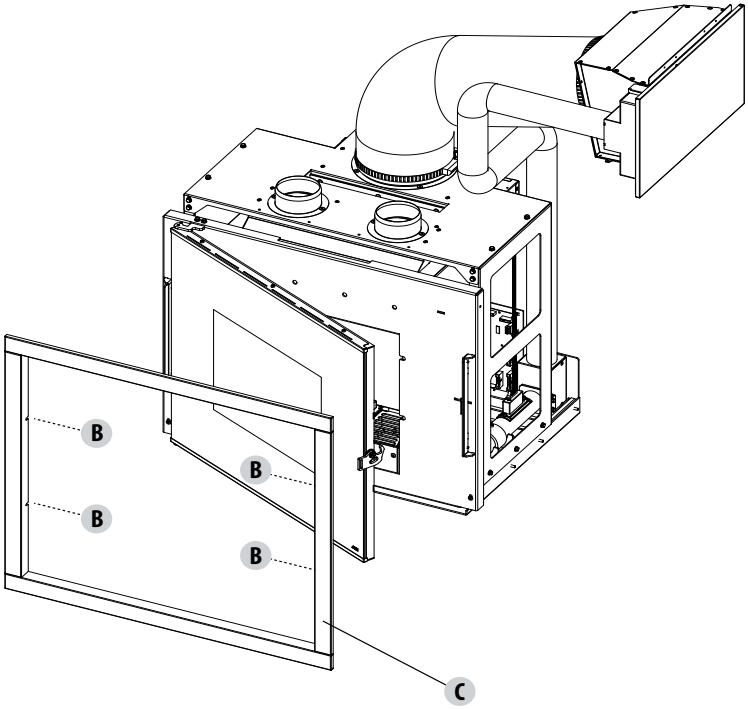
1. *INSULATION: APPLIED OR TO BE APPLIED*
2. *WOODEN BEAM*
3. *MARBLE OR OTHER MATERIAL*

STANDARD CLADDING ASSEMBLY

The installation guide found in each specific cladding must be referred to for the setting up of MCZ product specific claddings.

ASSEMBLING THE COMPENSATION FRAME

Once the cladding and/or the plasterboard is set up, fit the previously removed compensation frame.
This frame intends to finish and cover the gap between the metal structure of the product and the cladding.
The frame is assembled by simply opening the door of the product, fitting in the frame as shown in the figure and fastening it to the lateral columns of the structure, inside the door profile, with the four screws supplied.

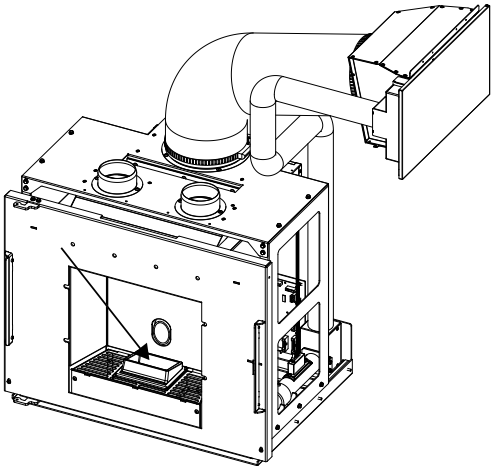


C = FRAME
B = SCREW

BEFORE START-UP

GENERAL PRECAUTIONS

Remove all components that could burn from the firebox and the glass (instructions, various adhesive labels and any polystyrene).
Check that the brazier is positioned correctly and rests properly on the base.



After a long period of inactivity, remove any pellets left in the hopper (**using a vacuum cleaner with a long pipe**), as they could have absorbed moisture, thereby altering their original characteristics and no longer being suitable for combustion.

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

If a flame does not ignite after a number of failed start-ups, even though the pellet supply is correct, make sure the brazier is set in place correctly, which must be **interlocked in its seat and clean from any ash deposits.** If no anomaly is found during this inspection, there may be a problem with the product components or installation may not be correct.

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

Avoid touching the product during the initial start-up, as the paint hardens during this phase. If you touch the paint, the steel surface may be exposed.

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

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

Do not stand close to the product and air the room. The smoke and smell of paint will disappear after about an hour of operation, however, remember they are not harmful in any case.
The product will be subject to expansion and contraction during the start-up and cooling phases, therefore light creaking noises may be heard.

4-OPERATION

It is extremely important to make sure the product is not immediately overheated and the temperature is increased gradually starting from the low power.
This will prevent damaging the welds and the steel structure.

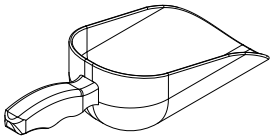
DO NOT EXPECT HEATING EFFICIENCY IMMEDIATELY!!!

LOADING THE PELLETS

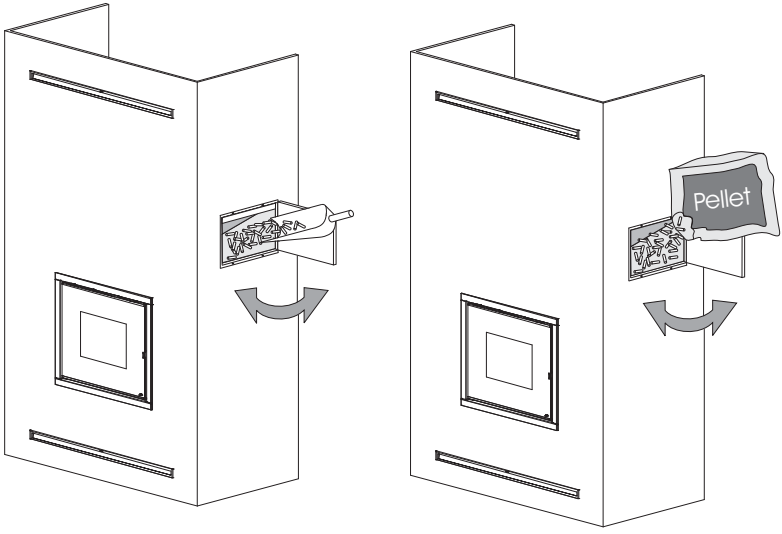
Fuel is loaded from the side or front door, which is to be fitted on the cladding, which provides access to the fuel loading chute.
The loading procedure is facilitated if performed in a number of steps as described below:

- Open the door and pour half the contents on the chute directly from the bag or using the supplied spade (A)
- Push the pellets accumulated in the chute towards the hopper using the supplied tool (B) and distribute them uniformly.
- Complete the operation by pouring the second half from the bag in the same way

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



SPADE



5-LCD REMOTE CONTROL

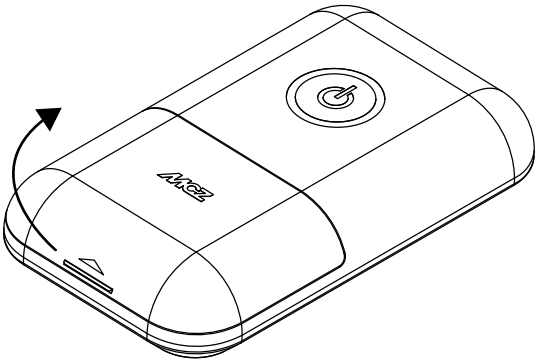
GENERAL SPECIFICATIONS OF THE LCD REMOTE CONTROL

The remote control works at a transmission frequency of 434.5 MHz.
Power the product with 3 AAA batteries as follows:

- remove the cover of the battery compartment by pressing and lifting the point indicated by the arrow.
- Insert the batteries with the correct polarity (+) and (-).
- Close the cover of the battery compartment.

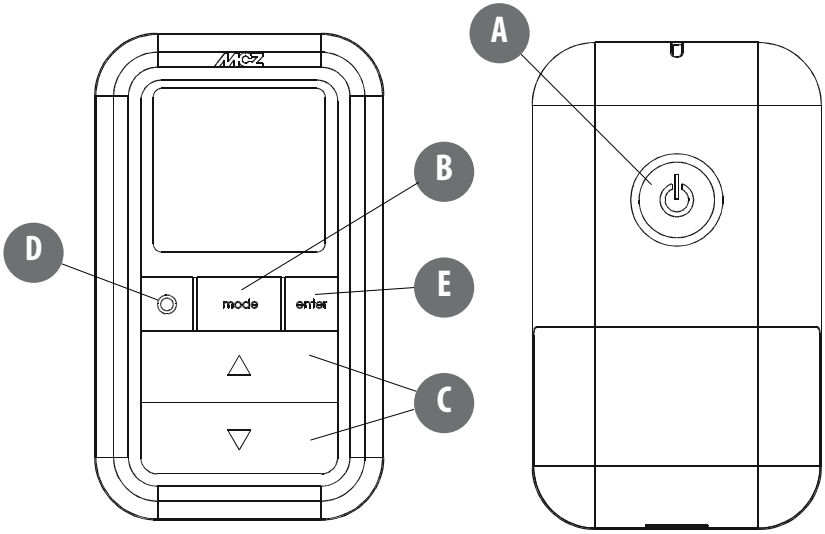
The time must be set when the remote control is switched on.
The remote control has a special icon on the display to indicate when the batteries are almost flat. If the flat battery icon appears, the batteries are almost flat and the remote control is about to go off.

Used batteries must be disposed of separately in special containers.



GRAPHIC APPEARANCE

Reference will often be made to the keys. Always keep the figure at hand for simplicity's sake.



REMOTE CONTROL OPERATION

GENERAL RULES

Press key **A** for 1" to switch the product on and off. All changes are made with keys **C**. Key **E** is used to confirm the changes. Key **B** is used to select the product operating mode. Key **D** is used to browse the **VENTILATION** and **SLEEP** settings (see "Various settings").
Whichever the mode is, press key **A** briefly (or leave the keypad idle for 7") to go back to the initial display.

INITIAL SETTINGS

SETTING THE TIME

The time/day setting is accessed by pressing keys **B+E** simultaneously for 3", regardless whether the remote control is on or off.
The hour digits will start to flash, which can be modified with keys **C**. Press key **E** to confirm the changes.
The minute digits will then start to flash. Follow the same procedure to modify and confirm the setting and the time display setting (12h or 24h) will then be accessed and lastly, the day will start to flash. Confirm this data to exit the settings.
NOTE: each time the remote control is powered, the time is reset and the display automatically enters the time setting.

°C -°F SETTING

The unit of temperature measurement is changed from Celsius to Fahrenheit and vice versa by pressing key **B** for 5" while the product is off.

SETTING THE OPERATING MODE

One of the following 4 operating modes can be set via key **B** while the remote control is on. The 4 basic displays are shown, respectively, in figures 1-2-3 and 4:
Manual, Automatic, Timer and Eco mode.

MANUAL MODE (MAN)

This mode allows the flame power (changed directly via keys C) and ventilation to be set manually in 5 levels + auto (see "Various settings"). Figure 1

AUTOMATIC MODE (AUTO)

This mode allows the desired room temperature to be set and the appliance will automatically adjust the flame power to reach it. The ventilation can be adjusted in 5 levels + auto (see "Various settings"). Figure 2

FIGURE 1
MANUAL MODE.

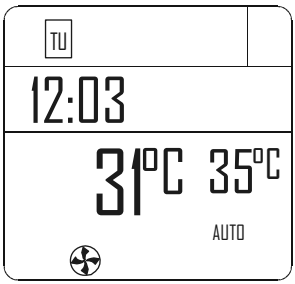


FIGURE 2
AUTOMATIC MODE.

5-LCD REMOTE CONTROL

TIMER MODE (TIMER)

Select this operating mode to switch the product on and off automatically, according to 6 customised time bands (P1 – P6). The following can be set for each time band:

- start-up time.
- Shutdown time.
- Desired room temperature during that time band.
- Days of the week when the time band is to be activated.

When the product is switched on (manually via button A or automatically via a time band), it operates in the automatic mode, described above. A time band appears automatically when it is active (P1 in figure 3) and the desired temperature is changed to the value set in the time band. However, the user can always modify this value as desired and in real time.
Refer to "Timer Settings" to learn how to set the time bands.

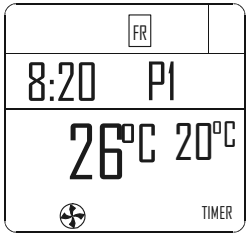


FIGURE 3.

ECO MODE (ECO)

This mode is activated/deactivated by pressing key B for 5" on the remote control while it is switched on.
ECO is an automatic mode with the only difference that if the set temperature is reached and remains so for the subsequent 20 minutes (despite flame modulation), the product is switched off and remains on stand by until the room temperature drops 2 degrees below the desired temperature (and in any case for at least 5 minutes from the last shutdown). The product is then switched on again. Figure 4
If the room is not sufficiently insulated, flame modulation does not allow the set temperature to be met for 20 consecutive minutes and the product will not go off.

NOTE: It is recommended to use the ECO mode only in well-insulated rooms in order to prevent start-up and shutdown from occurring within short periods of time.

The remote control remains on even when the product is off when in ECO mode, in order to indicate that this shutdown is only temporary. Obviously, if the product is switched off from key A, ECO mode is exited and the product remains off.
Up to 6 automatic start-up and shutdown time bands (E1 – E6) can also be set in ECO mode, which are independent from those of TIMER mode (P1 – P6). If they have been activated, TIMER-ECO appears on the display (figure 5) permanently, even if the remote control is switched off.
Refer to "Timer Settings" to learn how to set the time bands.

NOTE: If the remote control is switched off in TIMER mode, ECO mode can only be re-activated by the user (key A) or when started-up by the next valid time band. Combined use of TIMER and ECO modes requires a good knowledge of the product operating logic.

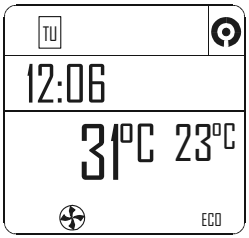


FIGURE 4

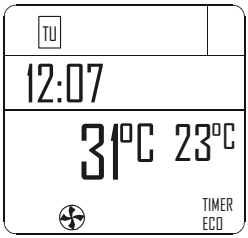


FIGURE 5

VARIOUS SETTINGS

ROOM VENTILATION

The room ventilation can be adjusted as desired in all 4 operating modes described earlier on. Simply follow the steps below: press key D on the initial display to access the **VENTILATION** setting. Then press key C to set the desired ventilation by selecting one of the 5 levels available. The "auto" option can also be selected, which automatically links the room ventilation speed to the flame level.
In brief:
flame set to 1 > ventilation set to 1; flame set to 3 > ventilation set to 3; flame set to 5 > ventilation remains set to 3 (for silent operation as it is in automatic mode).

The speed of each fan (identified with 1 or 2 above the level bars) in products with 2 fans (comfort air models) can be scrolled and set via key D.

NOTE: If the remote control is replaced with a new one and the default settings must be changed, proceed as follows: press keys D + E simultaneously for 10 seconds while the remote control is switched on (until the flashing number disappears). Press key C to select 1 or 2 according to the product to which the remote control is to be paired, and press E to exit.

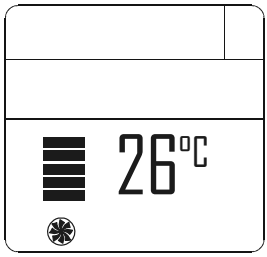


FIGURE 6

SLEEP FUNCTION

The sleep function allows a shutdown time to be set quickly. This function is only available in the **MAN** and **AUTO** modes. It is set as follows: from the **VENTILATION** setting (press key D - see the previous paragraph), press key **D** again to access the **SLEEP** setting.
The shutdown time is set in 10 minute intervals via key **C**. Confirm via key **D** or **E** and the display returns to the initial page on which the sleep shutdown time remains displayed. Disable the **SLEEP** function by simply accessing the setting and decreasing the time until dashes are displayed and then confirm.

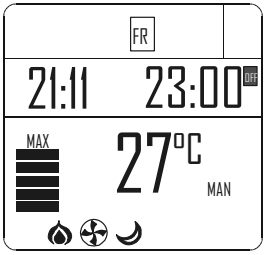


FIGURE 7

TIMER SETTINGS

DISPLAYING THE TIMER TIME BANDS

Simply press key **D** for 2" to display the time bands in **TIMER** mode. The 6 time bands can be scrolled through with key **C**, thereby verifying all the saved settings. Press key **D** or **A** to return to the initial display.

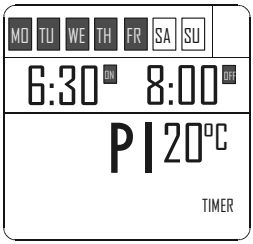


FIGURE 8

MODIFYING THE TIMER TIME BANDS

Modify a time band by displaying it as described in the previous paragraph and then press key **E** briefly.
The first parameter that can be set will start to flash, i.e. the room temperature. Press key **C** to modify the value and key **E** to confirm and move on to the next parameter. The parameters of a time band can be set in the following order:

- room temperature. Can be set between 5° and 35°C. 2 dashes "--" appear if set below 5°C or above 35°C, and if this is confirmed, the program is deactivated (therefore, the product will not be switched on).
- Start-up time. The value is adjusted in 10 minute intervals (from 00:00 to 23:50).
- Shutdown time. The value is adjusted in 10 minute intervals (from 00:10:00 to 24:00).
- Days of the week when the program is to be activated. Monday (MO) will start to flash, followed by the other days of the week. Use key C to activate/deactivate the day. The activated days will be displayed on a dark background. When the Sunday (SU) setting is complete, press key E to exit the editing page and return to the time bands display.

Press key **D** at any time to save all the changes made (confirmed by pressing key **E**), exit the time band editing page and return to the time bands display.
Press key **A** (or leave the keypad idle for 30") to go directly to the initial display, saving all the changes made and confirmed with key **E**.

ACTIVATING THE TIMER-ECO TIME BANDS

6 customised start-up and shutdown time bands (**E1 – E6**) can be activated in the **ECO** mode: press key **D** for 2" and the **TIMER** activation/deactivation function will appear. If the **ON** option is confirmed, the 6 **TIMER-ECO** time bands are accessed and can be modified as described earlier on for the **TIMER**. If the OFF option is confirmed, the **TIMER** is disabled and the product returns to the **ECO** mode with no time bands activated.

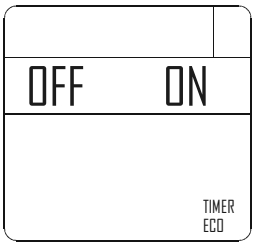
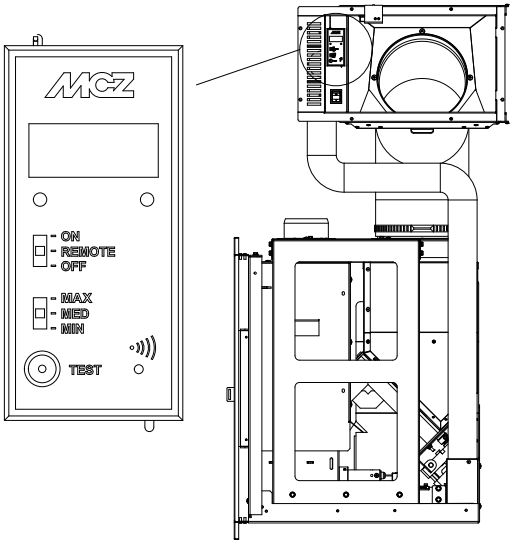


FIGURE 9

6-EMERGENCY PANEL

EMERGENCY PANEL

There is an emergency panel on the product side, designed for any malfunction to be detected and product control if the remote control should malfunction.



KEY

A	Three-digit display that indicates a variety of product information besides the identification code of any malfunction.
B	**GREEN** LED that indicates: • OFF = The product is off • FLASHING ON = The product is starting up • FIXED ON = The product is on
C	**RED** LED that indicates: • OFF = The product is on • ON AND FLASHING SLOWLY = The product is shutting down • ON AND FLASHING QUICKLY = The product is in alarm status (accompanied by a buzzer for the first 10 minutes) • FIXED ON = The product is off
D	3-position selector for the following functions: • OFF = The product is switched off manually without the remote control • REMOTE = The product can **only** be controlled via remote control • ON = The product is switched on manually without the remote control
E	3-position selector for the power selection: • MIN = The product runs at MINIMUM power without the remote control and with selector 4 set to ON • MED = The product runs at MEDIUM power without the remote control and with selector 4 set to ON • MAX = The product runs at MAXIMUM power without the remote control and with selector 4 set to ON
F	Button for diagnostic functions regarding the product operation mode
G	Button to connect the product to a new remote control

SELECTOR "D" MUST BE SET TO THE "REMOTE" POSITION FOR THE PRODUCT TO BE REMOTE CONTROLLED.

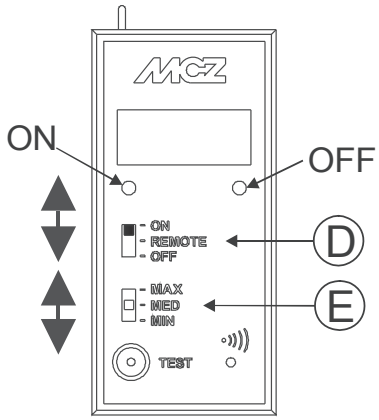
6-EMERGENCY PANEL

EMERGENCY PANEL START-UP/SHUTDOWN

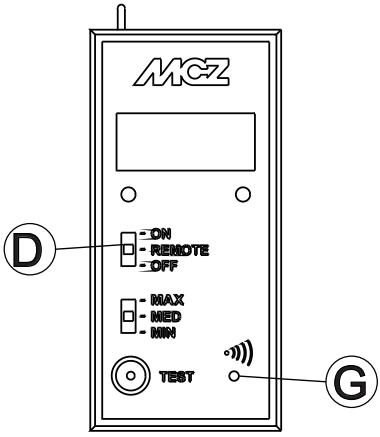
If the remote control is faulty or the batteries are flat, the product can be operated in safe mode via the rear emergency panel.
In this configuration, the product can only work in manual mode and one of **3** power levels can be selected.

- **APPLIANCE START-UP WITHOUT THE REMOTE CONTROL.**
  Switch the product on by bringing selector "**D**" to the **ON** position. The RED LED goes off upon start-up, whereas the GREEN LED starts to flash until the start-up phase is complete. Once the product runs smoothly, the GREEN LED remains on.
- **SELECTING THE POWER WITHOUT THE REMOTE CONTROL.**
  One of three heating powers **MIN-MED-MAX** can be selected (selector "**E**"):
  The **MINIMUM** power corresponds to the 1 st power.
  The **MEDIUM** power corresponds to the 3rd power.
  The **MAXIMUM** power corresponds to the 5th power.
- **APPLIANCE SHUTDOWN WITHOUT THE REMOTE CONTROL.**
  Switch the product off by bringing selector "**D**" to the **OFF** position.

Once the remote control is restored, remember to set selector "D" back to the "REMOTE" position, otherwise the product will ignore the remote control commands.



SWITCH-ON/OFF FROM THE EMERGENCY PANEL



REMOTE CONTROL SYNCHRONIZATION

SYNCHRONIZATION OF REMOTE CONTROL

Upon first start-up of the product, it may be necessary to get the stove to recognize the new remote control. To carry-out this operation, follow the simple instructions that follow:

• connect the stove to the socket and switch the power supply button on
• ensure that the selector D of the emergency panel is in the position REMOTE
• when the first text appears onto the display of the emergency panel, press the embedded button G with the aid of a pointy object (toothpick..)
• three flashing lines "---" will appear on the display. Press the on/off button of the remote control for confirmation.

The three flashing lines will disappear from the display and the stove will recognise the new communication address of the remote control. Recognition will also be confirmed by 4 acoustic sounds.

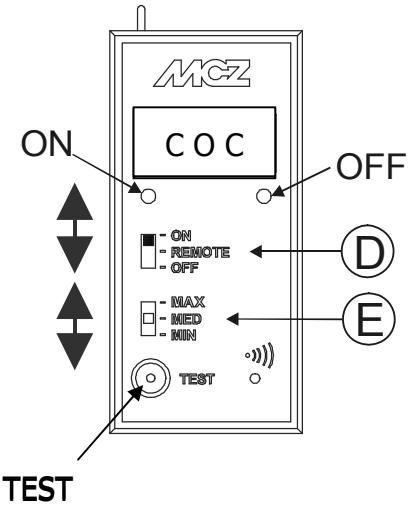
6-EMERGENCY PANEL

FEED SCREW LOADING

This function can only be activated when the product is off and allows the pellets to be loaded into the feed screw (loading system). It can be used each time the pellets finish in the feed screw and hopper (see alarm A02). It is useful to prevent failed start-ups (alarm A01) due to the hopper being empty.

The FEED SCREW LOADING function is activated as follows (with the product off): bring selector "**D**" on the emergency panel to OFF and press the **TEST** key on the same panel three consecutive times. Wait a few seconds and FEED SCREW will flash on the display.

Press the TEST key once again when the pellets begin to fall into the brazier to end the LOAD FEED SCREW function and proceed with the product start-up.



7-SAFETY DEVICES AND ALARMS

SAFETY DEVICES
The product is supplied with the following safety devices:

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

PELLET HOPPER SAFETY THERMOSTAT
If the temperature exceeds the preset safety value, it immediately stops the product, which must cool down before being restarted. Selector "D" must be set to "Off" for the product to be restored.

ELECTRICAL SAFETY
The product is protected against sudden changes in current by a main fuse in the power supply panel on the rear part of the product. Other fuses that protect the electronic boards are found on the latter.

SMOKE FAN FAULT
If the fan stops, the electronic board promptly blocks the supply of pellets and the alarm is displayed.

GEAR MOTOR FAULT
If the gear motor stops, the product continues to work until the minimum cool level is reached.

TEMPORARY POWER CUT
If a power cut occurs during operation, the product automatically sets itself in cooling mode when the power is restored and then restarts.

FAILED START-UP
If no flame is developed during start-up, the product will go into alarm status.

IT IS FORBIDDEN TO TAMPER WITH THE SAFETY DEVICES.

The product can be started-up and the automatic function of the probe restored only after having eliminated the cause that triggered the safety system. This manual will help you understand which anomaly has occurred, and explain how to intervene according to the alarm message displayed on the product.

7-SAFETY DEVICES AND ALARMS

ALARM ALERTS

If an operating anomaly occurs, the product enters the shutdown phase due to an alarm and informs the user regarding the type of fault by means of a 3 digit code that remains displayed on the emergency panel.
The alarm is indicated permanently by the relative 3 digit code, a flashing red LED that lights up on the emergency panel and an intermittent buzzer for the first 10 minutes. Read the instructions in the following 2 paragraphs to cancel the alarm status and restore the normal operating mode of the stove. The following table describes the possible alarms indicated by the product, associated to the respective code that appears on the emergency panel and helpful tips to resolve the problem.

DISPLAY MESSAGE	TYPE OF PROBLEM	SOLUTION
A01	The fire does not ignite.	Check the level of pellets in the hopper. Check that the brazier rests correctly in its seat and has no visible deposits of unburned pellets. Check whether the start-up spark plug becomes hot.
A02	The fire goes off abnormally.	Due to the hopper being empty (no fuel).
A03	The pellet hopper temperature exceeds the intended safety threshold. The structure overheats due to reduced heat dissipation.	The structure is too hot because the product has been used for too long at the maximum power or due to poor ventilation or because the air fans are faulty. When the product is sufficiently cold, press button B on the control panel or OFF on the remote control to delete alarm A03. Once the alarm is deleted, the appliance can be switched on.
A04	The temperature of the exhaust smoke has exceeded the preset safety limits.	The appliance switches off automatically. Let the product cool down for a few minutes and then switch it on again. Check the smoke expulsion and the type of pellets used.
A05	Clogged flue-wind-door open.	Check the smoke duct and make sure the door is closed.
A06	The smoke extractor fails to guarantee sufficient primary air, required for a correct combustion.	Insufficient draught or clogged brazier. Verify whether the brazier is clogged and clean it, if necessary. Check and if necessary clean the smoke duct and air inlet.
A08	Faulty smoke fan.	Verify whether the smoke fan compartment is clean, and particularly if it is blocked by dirt. If this does not suffice, the smoke fan is faulty. Contact an authorised service centre to have it replaced.
A09	The smoke probe is faulty and does not detect the exhaust smoke temperature correctly.	Contact an authorised service centre to have the component replaced.

7-SAFETY DEVICES AND ALARMS

A10	The spark plug is faulty.	Contact an authorised service centre to have the component replaced.
A11	Pellet supply fault.	Contact an authorised service centre to have the component replaced.
A12	The remote control has been out of the product reception range for over 3 hours (or the batteries are flat). NOTE: the appliance does not enter the shutdown phase due to an alarm only in such a case, and continues to work in the mode set by the remote control via the last command.	Move the remote control within the product reception range (or change the batteries of the remote control if they are flat). The alarm alerts will disappear as soon as the appliance receives a new signal from the remote control. A simple way of forcing signal transmission to the product is by pressing button 4 (which changes the operating mode from manual to automatic and vice versa).
A13	General fault in the electronic control unit.	Contact an authorised service centre to have the component replaced.
A14	Faulty air flow rate sensor.	This alarm does not block the system and only a warning screen is displayed. Contact an authorised service centre to have the component replaced.
SEr	Routine maintenance alert.	This flashing message upon start-up indicates that the preset operating hours before maintenance is due have elapsed and a qualified technician, recommended by the manufacturer, must be contacted for maintenance to be performed.

DELETING THE ALARM STATUS

Follow the procedure described below to restore normal product operation after an alarm has been triggered:

- set selector D on the rear emergency panel to OFF for a few seconds until the 3 digit alarm identification code disappears. The red LED stops flashing and the alarm buzzer is silenced by performing the steps below.
- Set selector D back to the REMOTE position for product operation to be remote controlled.
- Switch the remote control off and then on again if the product is to be switched on.

Only if alarm A12 is triggered (no communication between the remote control and the product), the appliance remains on according to the last mode set and automatically exits the alarm mode when the first signal is received from the remote control.

7-SAFETY DEVICES AND ALARMS

BLOCKED PRODUCT

The following may cause the product to be mechanically blocked:

- the structure overheats ("**A03**").
- The smoke is overheated ("**A04**").
- During product operation, air that has not been controlled in the combustion chamber has entered or the chimney is clogged ("**A05**").

SOLUTIONS:

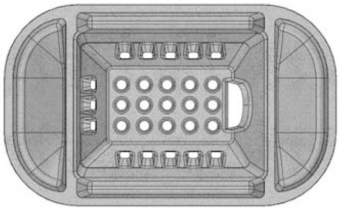
if "**A03**" appears, the structure is too hot because the product has been used for too long at the maximum power or due to poor ventilation or because the air fans are faulty.

When the product is sufficiently cold, press button B on the control panel to delete alarm A03. Once the alarm is deleted, the product can be switched on.

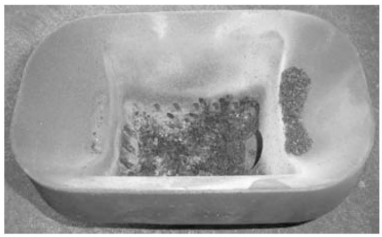
If "**A04**" appears, the product will shutdown automatically, let it cool down for a few minutes and then switch it on again. Delete the alarm and switch the product on again.

If "**A05**" appears, the door has been left open for too long or a significant amount of air has entered (e.g. missing smoke fan inspection cap). If these causes are excluded, check and if necessary clean the smoke duct and chimney.

Only after having eliminated the cause permanently can the product be switched on again.



EXAMPLE OF A CLEAN BRAZIER



EXAMPLE OF A DIRTY BRAZIER

ATTENTION!
All the cleaning operations of all parts must be performed with a completely cold product and the plug disconnected.
The insert requires little maintenance if used with certified good quality pellets.

DAILY OR WEEKLY CLEANING PERFORMED BY THE USER

BEFORE EACH START-UP

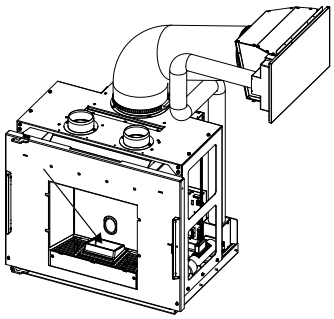
Clean the ash and any deposits in the brazier that could clog the air passage holes.
If the pellets in the hopper finish, unburned pellets may accumulate in the brazier. Always empty the residue in the brazier before starting-up.

REMEMBER THAT ONLY A CORRECTLY POSITIONED AND CLEAN BRAZIER CAN GUARANTEE START-UP AND OPTIMAL OPERATION OF YOUR PELLET PRODUCT.

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

CHECKS TO BE PERFORMED EVERY 2/3 DAYS

Clean and empty the ash pan, being careful of hot ashes.
Only if the ash is completely cold can a vacuum cleaner be used to remove it. In this case, use an adequate vacuum cleaner to remove particles that are not so small. Experience and the quality of the pellets will determine the cleaning frequency required. **However, it is recommended not to exceed 2 or 3 days.**



CLEANING THE ASH COLLECTION COMPARTMENT

8-MAINTENANCE AND CLEANING

CLEANING THE GLASS

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

ATTENTION!
Do not use abrasive products and do not spray the glass spray cleaner on the painted parts or the door gaskets (ceramic fibre cord).

PERIODIC CLEANING PERFORMED BY A QUALIFIED TECHNICIAN

PULLING THE PRODUCT OUT

Part of the product must be extracted from its seat for maintenance to be performed on certain devices and to clean certain parts. The mobile part is fitted on sliding guides, which facilitate the handling process. The compensation frame must be removed by following the instructions in this manual before pulling the product out in order to prevent any damage during maintenance. The two lower front screws must be removed from the product in order to pull it out.

Once the screws are removed, simply exert slight force towards you to pull the mobile part like a drawer. The guides have an end-of-travel that block the mobile part when extracted completely.

ATTENTION: THE PRODUCT MUST ONLY BE PULLED OUT WHEN COLD AND THE POWER SUPPLY MUST BE DISCONNECTED IN ADVANCE.
When the mobile part is set back in place, make sure the two screws removed previously are tightened well. The product may not work if the above is not done, due to no power supply or leaking soot.

CLEANING THE HEAT EXCHANGER

The compartment through which the exhaust smoke passes must be cleaned at the end of the winter season.

This cleaning process is mandatory in order to facilitate the general removal of all combustion residue, before it becomes very difficult to remove it due to the humidity compacting it over time.

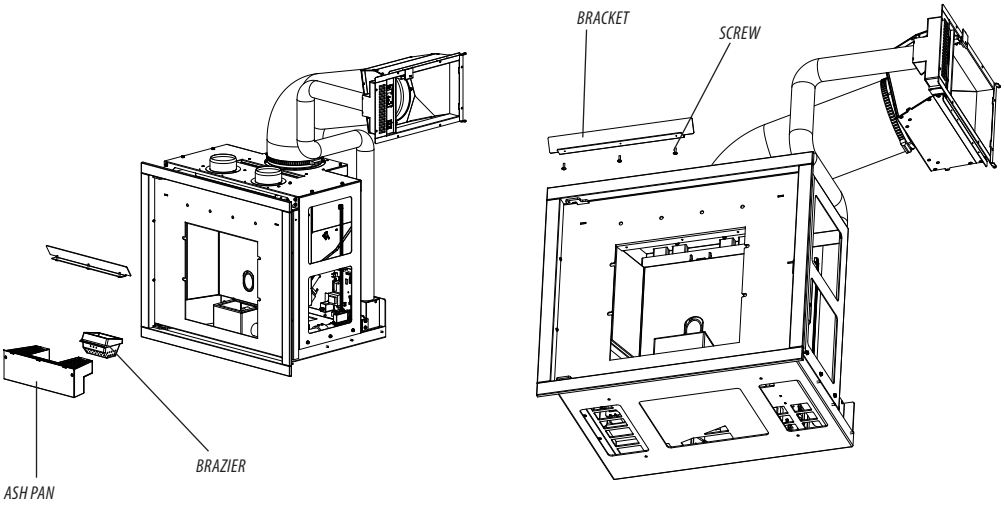
If necessary, clean it more often.

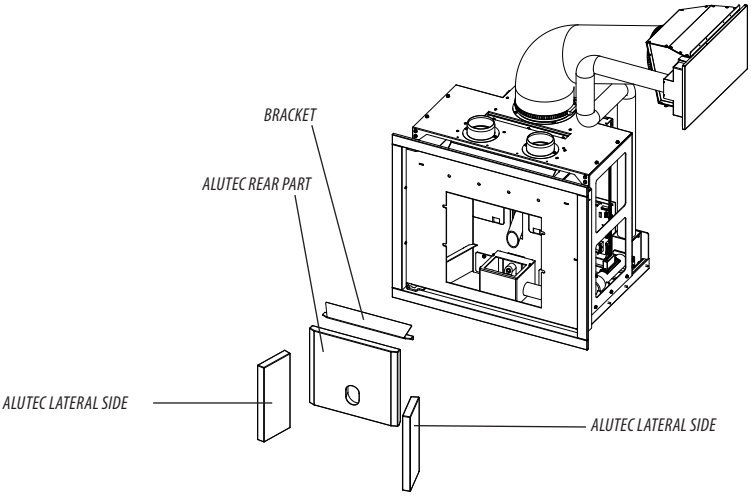
It is good practice to guarantee effective ventilation in the room while cleaning the product.

When the appliance is cold, open the door and remove the ash pan as well as the brazier. Then loosen the three screws just above the hearth opening and remove the bracket that blocks the internal refractory parts made of Alutec.

Gently remove the lateral sides and then the rear panel with the bracket that keeps it blocked in place.

8-MAINTENANCE AND CLEANING

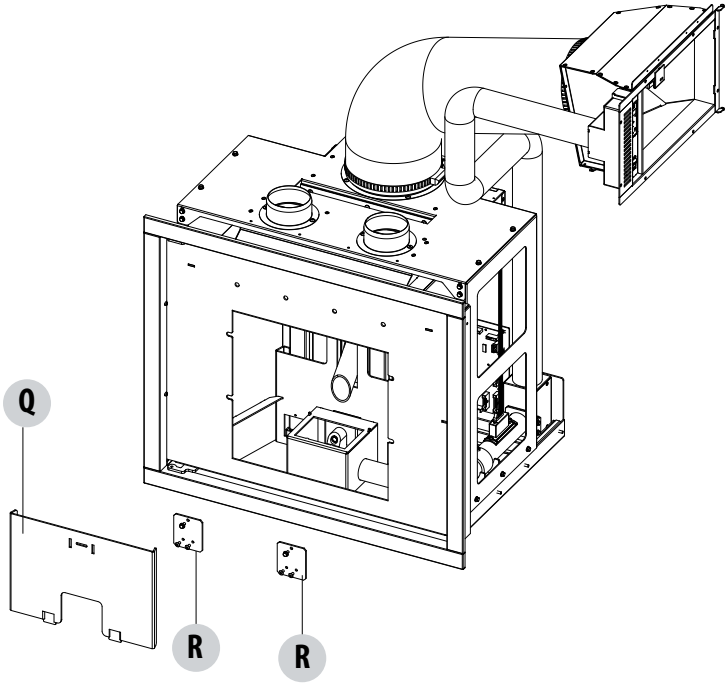




Be careful not to knock the refractory parts when removing them as they could chip or break.
Set them in a safe place until they are to be fitted again.

8-MAINTENANCE AND CLEANING

Then remove the upper plate **"Q"**. Remove it from its seat by lifting it and then tilting it slightly downwards.
Scrape the walls of the firebox with a rigid rod or a bottle brush into plate **"Q"** that has just been removed, for the ash to fall into the lower part where the inspection holes are located (under plates **"R")**.
Loosen the bolts and remove the inspection plates "**R**" beneath the ash pan, and use the brush and nozzle of the vacuum cleaner to remove the ash and soot accumulated in the heat exchanger.
Then reassemble all the parts by following the above-mentioned steps in reverse order.



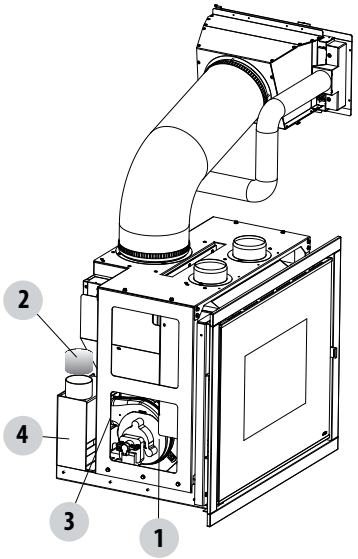
Q = UPPER PLATE
R = INSPECTION PLATE

8-MAINTENANCE AND CLEANING

CLEANING THE SMOKE DUCT AND FITTING

When the product is extracted, you can intervene on the smoke fan (1) from the left side for cleaning and maintenance purposes. Clearly, the smoke evacuation fan must be removed for such maintenance to be performed.
A gasket (3) is applied on the fan outlet, which guarantees the tightness with the smoke fitting (2). Always verify that this gasket is intact and if necessary, replace it. The gasket can also be adjusted via a screw. The pressure on the fitting can be increased or decreased by loosening the screw.
The flue connection to its ash collection compartment (4) is located in the rear/lateral part of the product, in line with the fan outlet. Also clean this compartment with a vacuum cleaner by inserting the nozzle on the fan inlet hole.
Then clean the smoke exhaust, especially around the fittings, curves and any horizontal sections. For information on cleaning the flue, contact a chimney sweeper.

ATTENTION! The frequency with which the smoke exhaust must be cleaned depends on the use of the product and the type of installation.



1 = SMOKE EXHAUST FAN
2 = SMOKE FITTING
3 = GASKET
4 = ASH COLLECTION COMPARTMENT

OTHER CHECKS

All the tightness gaskets fitted on the components on which maintenance is to be performed (smoke evacuation fan, inspection sections, etc.) must be replaced when these are removed for maintenance purposes. Verify the tightness of the gaskets on the hearth door and if necessary, contact an authorized service centre for them to be replaced.

The company recommends contacting an authorised service centre for end-of-season maintenance and cleaning as the above-mentioned operations will be performed together with a general inspection of the components.

8-MAINTENANCE AND CLEANING

END-OF-SEASON SHUTDOWN

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

The product must be disconnected from the mains when it is not used.

CHECKING THE INTERNAL COMPONENTS

ATTENTION!

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

It is recommended to perform this routine maintenance annually (with a scheduled service contract), which focuses on a visual and functional verification of the internal components. The following is a summary of the necessary checks and/or maintenance for the product to work correctly.

PARTS/INTERVAL	1 DAY	2-3 DAYS	30 DAYS	90 DAYS	1 YEAR
Brazier	•				
Ash collection compartment		•			
Ash pan		•			
Glass		•			
Complete exchanger					•
Smoke duct			•		
Door gasket					•
Remote control battery (if purchased/optional)					•

9-PROBLEMS/CAUSES/SOLUTIONS

ATTENTION!
All repairs must only be carried out by a specialised technician, with the product switched off and the plug disconnected.
If the product is NOT used as described in this manual, the manufacturer declines all liability for any damage caused to persons and property.
All the necessary measures and/or precautions must be adopted when performing maintenance, cleaning and repairs.

- ***Do not tamper with the safety devices.***
- ***Do not remove the safety devices.***
- ***Connect the product to an efficient smoke expulsion system.***
- ***Verify that the room in which the appliance will be installed is adequately ventilated.***

ANOMALY	POSSIBLE CAUSES	SOLUTIONS
The pellets are not fed into the combustion chamber.	The pellet hopper is empty.	Fill the hopper with pellets.
	Sawdust has blocked the feed screw.	Empty the hopper and remove the sawdust from the feed screw by hand.
	Faulty gear motor.	*Replace the gear motor.*
	Faulty electronic board.	*Replace the circuit board.*
The fire goes out or the appliance stops automatically.	The pellet hopper is empty.	Fill the hopper with pellets.
	The pellets are not fed.	See the previous anomaly.
	The pellet temperature safety probe has been triggered.	Let the product cool down, restore the thermostat until the problem is resolved and switch the product back on. If the problem persists contact Technical Assistance.
	The door is not closed properly or the gaskets are worn.	*Close the door and replace the gaskets with original ones.*
	Unsuitable pellets.	Change the type of pellets with those recommended by the manufacturer.
	Low pellet supply.	*Have the fuel flow rate checked by Technical Assistance.*
	The combustion chamber is dirty.	Clean the combustion chamber in accordance with the installation guide.
	Clogged outlet.	Clean the smoke duct.
	Faulty smoke extraction motor.	*Check the motor and replace it, if necessary.*
	Triggered clogged flue alarm.	*Verify whether the smoke duct is clogged.*

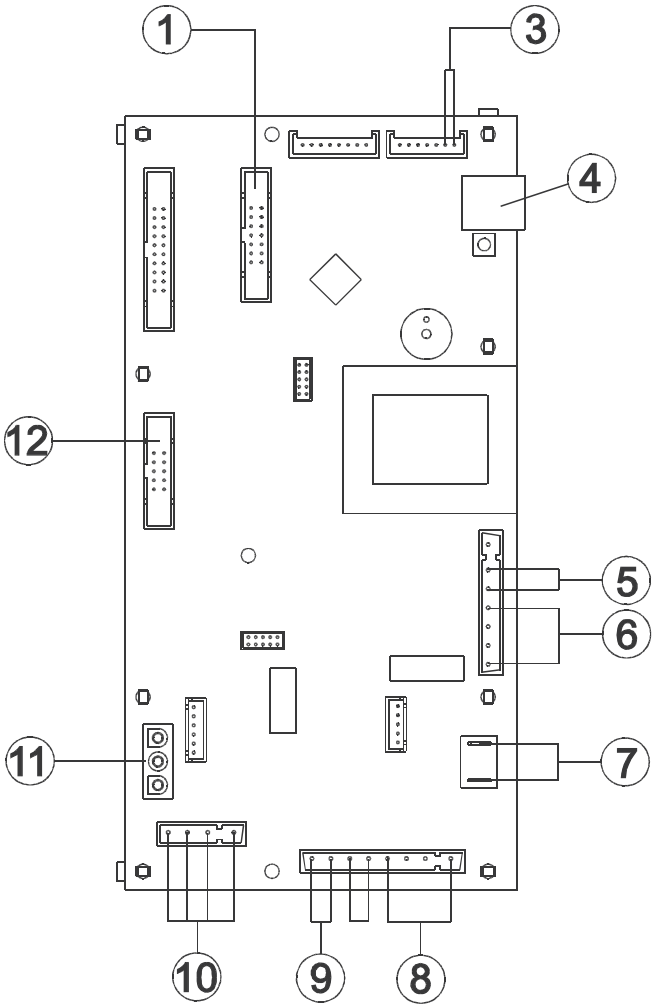
9-PROBLEMS/CAUSES/SOLUTIONS

ANOMALY	POSSIBLE CAUSES	SOLUTIONS
The product works for a few minutes and then switches off.	Start-up phase is not completed.	Repeat start-up.
	Temporary power cut.	Wait for the automatic restart.
	Clogged smoke duct.	Clean the smoke duct.
	Faulty or malfunctioning temperature probes.	*Check and replace the probes.*
	Faulty spark plug.	*Check the spark plug and replace it, if necessary.*
Pellets accumulate in the brazier, the glass of the door gets dirty and the flame is weak.	Insufficient combustion air.	Make sure there is an air inlet in the room and it is not clogged. Check that the combustion air filter on the Ø 5 cm air inlet pipe is not clogged. Clean the brazier and check that all the holes are clear. Perform a general cleaning of the combustion chamber and the smoke duct. Check the state of the door gaskets.
	Damp or unsuitable pellets.	Change the type of pellets.
	Faulty smoke evacuation motor.	*Check the motor and replace it, if necessary.*
The smoke evacuation motor does not work.	The product is not powered.	Check the mains current and the protection fuse.
	The motor is faulty.	*Check the motor and capacitor and replace them, if necessary.*
	The electronic board is faulty.	*Replace the electronic board.*
	The control panel is faulty.	*Replace the control panel.*
The convection air fan never stops.	Faulty or malfunctioning temperature control probe.	*Check the probe and replace it, if necessary.*
	Faulty fan.	*Check the fan and replace it, if necessary.*
The remote control does not work.	The remote control battery is flat.	Replace the batteries.
	Faulty remote control.	Replace the remote control.

9-PROBLEMS/CAUSES/SOLUTIONS

ANOMALY	POSSIBLE CAUSES	SOLUTIONS
The product always runs at maximum power when in automatic mode.	The room thermostat is in the maximum position.	Set the thermostat temperature again.
	Faulty temperature probe.	*Check the probe and replace it, if necessary.*
	Faulty or malfunctioning control panel.	*Check the panel and replace it, if necessary.*
	Thermostat is set to minimum.	Set the thermostat temperature again.
The product does not go on.	No power supply.	Check that the plug is inserted and the main switch is in the "I" position.
	Faulty pellet probe.	Wait for the water or pellet tank to cool down and restart the product.
	Blown fuse.	Replace the fuse.
	Clogged smoke exhaust or smoke duct.	Clean the smoke exhaust and/or the smoke duct.
	An alarm has been triggered.	Verify the type of alarm and proceed accordingly.
	Check whether the brazier is clean.	Clean the brazier from any deposits or residue of unburned pellets.
	Check the position of the brazier.	Set the brazier back on its seat.
	Check whether the spark plug warms up.	*Check and if necessary, replace.*

10-WIRING DIAGRAMS



MOTHERBOARD WIRING KEY

1. CONTROL PANEL
3. SMOKE PROBE
4. MODEM CONNECTION
5. SWITCH
6. SPARK PLUG
7. SMOKE EXPULSION FAN
8. GEAR MOTOR
9. CONTACT THERMOSTAT
10. AIR FAN
11. SMOKE EXPULSION FAN REV CONTROL
12. AIR DOOR PROBE

N.B. The wiring of the individual components is fitted with pre-wired connectors of different sizes.

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