

EN

FORCED VENTILATION PELLETS FIREPLACE INSERT

INSTALLATION, USE AND MAINTENANCE MANUAL



EOLO - COMFORT 80 - HORIZON PLUS



Summary

1	MANUAL SIMBOLOGY	3	12.17 PELLETT LOADING (MODELS EOLO - COMFORT 80)	25
2	DEAR CUSTOMER	3	12.18 PELLETT LOADING (MODEL HORIZON PLUS) ...	25
3	CAUTIONS	3	12.19 PELLETT SENSOR.....	26
4	SAFETY REQUIREMENTS	4	12.20 REMOTE CONTROL	26
5	WARRANTY CONDITIONS	5	13 SAFETY SYSTEM.....	27
6	SPARE PARTS	6	13.1 INTRODUCTION	27
7	WARNINGS FOR THE CORRECT DISPOSAL OF THE PRODUCT	6	13.2 "BLACK OUT" ALARM	27
8	PACKAGING AND HANDLING	6	13.3 "FUME PROBE" ALARM	27
8.1	PACKAGING	6	13.4 "HOT FUME" ALARM	27
8.2	STOVE HANDLING	6	13.5 "FAN FAILURE" ALARM	27
9	CHIMNEY FLUE	6	13.6 "NO IGNITION" ALARM	27
9.1	INTRODUCTION	6	13.7 "NO PELLETT" ALARM	28
9.2	CHIMNEY FLUE.....	7	13.8 "THERMAL SAFETY" ALARM	28
9.3	TECHNICAL FEATURES	7	13.9 "FAILURE DEPRESS" ALARM.....	28
9.4	HEIGHT-DEPRESSION	8	13.10 "OPEN DOOR" ALARM	28
9.5	MAINTENANCE.....	8	14 MAINTENANCE	28
9.6	CHIMNEY POT.....	8	14.1 INTRODUCTION	28
9.7	CHIMNEY COMPONENTS	9	14.2 BURNING POT AND ASH TRAY CLEANING	28
9.8	EXTERNAL AIR INLET.....	9	14.3 COMBUSTION CHAMBER CLEANING.....	29
9.9	CHIMNEY FLUE CONNECTION	10	14.4 HOPPER AND AUGER CLEANING.....	29
9.10	EXAMPLES OF CORRECT INSTALLATION.....	11	14.5 FUME CHAMBER CLEANING	30
10	FUEL	12	14.6 FUME PIPE CLEANING.....	30
10.1	FUEL	12	14.7 EXHAUST FAN CLEANING	31
11	INSTALLATION	13	14.8 FUME PASSAGES ANNUAL CLEANING	31
11.1	INTRODUCTION	13	14.9 FUME PIPES ANNUAL CLEANING	31
11.2	OVERALL DIMENSIONS	13	14.10 GENERAL CLEANING	31
11.3	GENERAL INSTALLATION.....	14	14.11 CLEANING OF PAINTED METAL PANELS	31
11.4	INSERT REMOVAL	15	14.12 GASKET REPLACEMENT	32
11.5	INSERT FITTING	16	14.13 GLASS CLEANING.....	32
11.6	INSTALLATION WITH EXTERNAL COVER	17	14.14 GLASS REPLACEMENT	32
11.7	INSTALLATION ON EXISTING FIREPLACE	18	15 IN CASE OF ANOMALY.....	32
11.8	ELECTRIC CONNECTION	20	15.1 ALARMS	32
11.9	CONNECTION TO THE EXTERNAL THERMOSTAT.....	20	15.2 PROBLEM SOLVING	35
11.10	HOT AIR DUCTING SYSTEM (HORIZON PLUS)	20	16 TECHNICAL DATAS.....	37
12	USE	21	16.1 REPAIR INFORMATION	37
12.1	INTRODUCTION	21	16.2 FEATURES	39
12.2	CONTROL PANEL	21		
12.3	USER MENU	22		
12.4	IGNITION	23		
12.5	STOVE ADJUSTMENT	23		
12.6	FAILED IGNITION.....	23		
12.7	POWER FAILURE.....	23		
12.8	TEMPERATURE SETTING	23		
12.9	FUME TEMPERATURE.....	24		
12.10	SWITCHING OFF	24		
12.11	CLOCK SETTING	24		
12.12	DAILY PROGRAMMING	24		
12.13	WEEK-END PROGRAMMING	24		
12.14	WEEKLY PROGRAMMING	24		
12.15	FAN ADJUSTMENT.....	25		
12.16	PELLETT SUPPLY	25		

1 MANUAL SIMBOLOGY

- The icons with the stylized figures indicates whom the subject dealt in the paragraph is addressed to (between the User and/or the Authorized Technician and/or the Specialized Stove-repairer).
- WARNING symbols indicates an important note.

	USER
	AUTHORISED TECHNICIAN (ONLY to interpret or the Stove-manufacturer or the Authorized Technician of Technical Assistance Service approved by the Stove-manufacturer)
	SPECIALIZED STOVE-REPAIRER
	CAUTION: READ CAREFULLY THE NOTE
	CAUTION: DANGER OR IRREVERSIBLE DAMAGE POSSIBILITY

2 DEAR CUSTOMER

- Our products are designed and manufactured in compliance with standards EN 13240 for wood stoves, EN 14785 for pellet stoves, EN 13229 for fire places, EN 12815 for wood cooker stoves, C.P.R. 305/2011 for manufacturing products, Re n.1935/2004 for materials and objects which are in contact with foods, Dir. 2006/95/CEE for low tension, Dir.2004/108/EC for Electromagnetic compatibility.
- Read carefully the instruction contained in this manual to obtain the best efficiency.
- This instruction manual is an integral part of the product: make sure it is delivered with the appliance also in case of sold to others. In case of loss please ask a copy to your local Technical Assistance Service.



In Italy biomass system installation below 35 kW must comply with MD 37/08. Every qualified installer who own these requirements, has to issue the certificate of conformity for the installed system ("system" means: stove + chimney + air inlet).

- According to (EU) No. 305/2011 regulation, the " Declaration of Performance" is available online at the web sites:
- www.cadelsrl.com
- www.free-point.it

3 CAUTIONS

- All the pictures carried in this manual are only for indicative and explanatory purpose and could therefore slightly differ from your appliance.
- The referring appliance is those you purchased.
- In case of doubts or difficulties in the comprehension or for problems not described in this manual, please promptly contact your distributor or installer.

4



SAFETY REQUIREMENTS



- Installation, electrical connection, functional verification and maintenance must only be performed by qualified or authorised personnel.
- Live electrical parts: disconnect the product from the 230V power supply before performing any maintenance operation. Only power the product after completing assembly.
- Special maintenance must only be performed by authorised and qualified personnel.
- All local regulations, including those referring to national European standards, must be respected during appliance installation.
- The manufacturer declines any responsibility in case of installation which are not in compliance with current regulations, in case of a wrong room ventilation system, in case of an electric connection which is not in compliance with regulations and in case of a wrong use of the appliance.
- It is forbidden to install the stove in bedrooms, bathrooms and in rooms used for storing combustible materials and in one-room flats.
- The installation in one-room flats is allowed if they are in sealed chamber.
- In any case the stove must not be installed in rooms where it can get in touch with water or water splashes because this can cause burn hazards and short-circuit.
- Please check that the floor has an adequate load capacity. If the existing one does not satisfy this requirement, appropriate measure should be provided (for example a plate for distributing the load).
- For safety fire regulations the distances from flammable or sensible to heat objects (sofas, pieces of furniture, wooden covering, etc...) must be respected.
- If there are highly flammable objects (curtains, fitted carpet, etc...), all these distances must be further increased with 1 meter.
- The electrical cable must not get in touch with the fume exhaust pipe and nor with every other part of the stove.
- The user, or whoever is operating the product, must read and fully understand the contents of this installation and use guide before performing any operation. Errors or incorrect settings can cause hazardous conditions and/or poor operation.
- The type of fuel to use is only the pellets.
- Do not use the appliance as waste incinerator.
- 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.
- It is forbidden to operate the product with the door open or the glass broken.
- It is forbidden to modify the appliance without authorization.
- Do not use flammable liquids during the ignition (alcohol, petrol, oil, etc...).
- After a failed ignition the burning pot must be empty from the amassed pellets, before starting the stove up again.
- The pellet hopper must always be closed with its own lid.
- Before of every intervention leave the fire completely extinguish till the cooling and always disconnect the plug from the electric socket.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Packaging are not toys and could cause suffocation or strangulation and other health hazards! People (children included) with reduced mobility, psychological diseases or without experience and knowledge must be kept away from packaging. The stove is not a toy.
- Children must be constantly overseen in order to assure that they do not play with the appliance.
- During its running, the stove reaches high temperatures: keep away children and animals and for your safety please use appropriate fireproof devices, such as heat-

protecting gloves.

- If the auger is blocked by a foreign object (for example: nails), and if it needs to be cleaned, do not remove the hand rejector and do not touch the auger. Please contact the Technical Assistance service.
- The hand rejector can be removed exclusively by an authorized technician.
- The chimney flue must be cleaned, since the soot and unburnt oil deposits reduce its section so blocking the draught. In great quantities they can flare up.
- If the pellets are of bad quality (if contains sizing agents, oils, varnishes, plastic remains or if it is mealy), deposits will form along pellets drop pipe during the running. When the stove is switched off, these remains could form little hot coals that rising along the pipe could reach the pellets on the hopper burning them and creating a thick and harmful smoke inside the room. Please always keep the hopper closed with its own lid. If the pipe is sooty, please clean it.
- In case it would be necessary to extinguish the fire emitted by the stove or by the chimney flue, use a fire-extinguisher or contact the firemen. Do not use water to extinguish the fire inside the burning pot.

5 WARRANTY CONDITIONS

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

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

Furthermore, the product must be installed and started by specialised personnel who must, where provided, issue a declaration of conformity of the plant and of the proper functioning of the product, for the warranty to be valid and effective.

We recommend testing the product before completion with the relative finishes (claddings, painting of walls, etc.).

Installations not meeting the current standards, improper use and lack of maintenance as expected by the manufacturer, void the product warranty.

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

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

The guarantee covers the replacement or free repair **of parts recognised as being faulty at source due to manufacturing defects**.

To benefit from the guarantee, in the event of a fault, the customer must have the guarantee certificate and present it with the proof of purchase document to the Technical Assistance Office.

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

- Damage caused during transportation or relocation.
- All parts that develop faults due to negligence or improper use, incorrect maintenance, installation that does not comply with the manufacturer's instructions (always refer to the installation and use manual provided with the appliance).
- Incorrect dimensioning with regards to the use or faults in the installation or failure to adopt the necessary devices to guarantee proper execution.
- Improper overheating of the equipment, use of fuels not conforming to the types and quantities indicated in the instructions provided.
- Further damage caused by incorrect user interventions in an attempt to fix the initial fault.
- Worsening of the damage due to the continued use of the equipment by the user, once the defect has been noticed.
- In the presence of a boiler, any corrosions, incrustations or breaks caused by water flow, condensation, hardness or acidity of the water, improperly performed descaling treatments, lack of water, mud or limescale deposits.
- Inefficiency of chimneys, flues or parts of the plant affecting the equipment.
- Damage caused by tampering with the appliance, atmospheric agents, natural disasters, vandalism, electrical discharges, fires, faults in the electric and/or hydraulic system.
- Failure to have the stove cleaned on an annual basis by an authorised technician or qualified personnel will result in the loss of the warranty.

Also excluded from this guarantee are:

- Parts subject to normal wear such as gaskets, glass, claddings and cast iron grids, painted, chrome-plated or gilded parts, handles and electric cables, bulbs, indicator lights, knobs, all parts which can be removed from the hearth.
- Variations in colour of the painted or ceramic/serpentine parts and craquelure ceramics as they are natural characteristics of the material and product use.
- Masonry work.
- Plant parts (if present) not supplied by the manufacturer.

Any technical interventions on the product to eliminate the above-said defects and consequent damages must

be agreed upon with the Technical Assistance Centre, who reserves the right to accept the relative appointment or not. However, said interventions will not be carried out under warranty but as technical assistance to be granted at part of any eventual and specific agreed conditions and in accordance with the fee in force for the work to be carried out.

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

Save for the legal or regulatory limits, the guarantee does not cover the containment of atmospheric and acoustic pollution.

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

6 SPARE PARTS

For each repair or adjustment which should be necessary, please contact the dealer where you purchased your stove or your nearest Technical Assistance Service, specifying:

- Appliance model
- Serial number
- Type of problem

Use only original spare parts which you can find at our Technical Assistance Services.

7 WARNINGS FOR THE CORRECT DISPOSAL OF THE PRODUCT

The owner is the sole party responsible for demolishing and disposing of the product. This must be performed in compliance with laws related to safety and environmental protection in force in his/her country.

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.

Separating and recycling prevents potential negative effects on the environment and health (often caused by inappropriately disposing of product parts). It also allows materials to be recovered in order to obtain significant savings in energy and resources.

8 PACKAGING AND HANDLING



8.1 PACKAGING

- The packaging is made up of recyclable cardboard boxes according to RESY standards, recyclable expanded polystyrene inserts and wooden pallets.
- All packaging materials can be re-used for a similar use or eventually discharged as waste assimilable to the municipal solid ones, in accordance with current regulations.
- After having removed the packaging please assure you about the integrity of the product.

8.2 STOVE HANDLING

Both whether the stove is packed or not it is necessary to observe the following instructions for handling and transporting the stove from its sale point to its installation point and for any future movements:

- The stove must be handled with idoneous means paying attention to the existing safety regulations;
- do not turn the stove upside down and/or upset it on one side, but keep it in vertical position or as accorded with the constructor instructions;
- if the stove is made up of ceramic, stone, glass or any particularly fragile material components, all must be moved with the utmost care.

9 CHIMNEY FLUE



9.1 INTRODUCTION

This chapter about the Chimney Flue has been drawn up in cooperation with Assocosma (www.assocosma.org) and is based on European Standards (EN 15287 - EN 13384 - EN 1856 - EN 1443) and UNI 10683:2012.

It provides instructions for a good and correct execution of the chimney flue but it does not absolutely replace the current standards which the qualified manufacturer/installer should comply with.

9.2 CHIMNEY FLUE

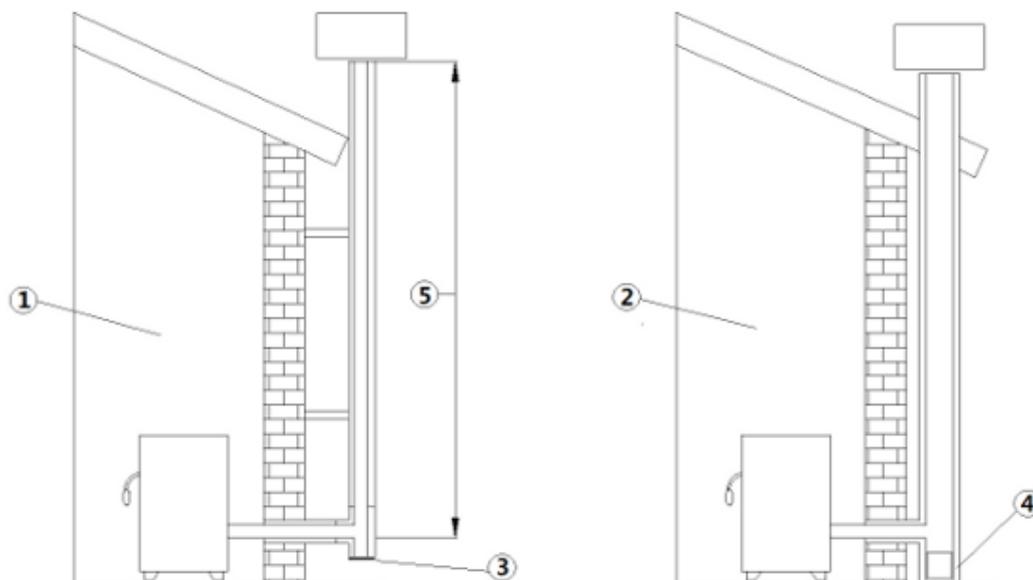


Fig. 1 - Chimney Flues

LEGEND Fig. 1 page 7

1	Chimney flue with insulated stainless-steel pipes
2	Chimney flue on the existing chimney
3	Inspection plug
4	Inspection door
5	≥ 3,5 mt

- The chimney flue or chimney is of great importance for the correct running of the heating appliance.
- It is fundamental that the chimney flue is perfectly built and always maintained with a perfect efficiency.
- The chimney flue must be sole (see Fig. 1 page 7) with insulated stainless-steel pipes (1) or installed on the existing chimney flue (2).
- Both this solutions must be endowed with an inspection plug (3) and/or an inspection door (4).

9.3 TECHNICAL FEATURES

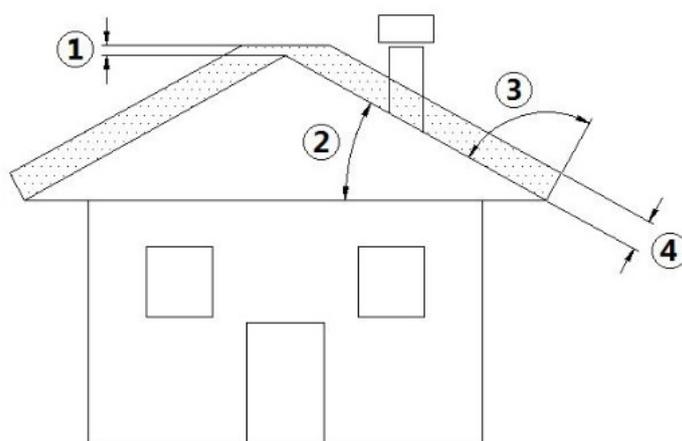


Fig. 2 - Inclined roof

LEGEND Fig. 2 page 7

1	Height over the ridge of the roof = 0,5 mt
2	Roof inclination $\geq 10^\circ$
3	90°
4	Measured distance at 90° from the roof surface = 1,3 mt

- The chimney flue must be sealed from fumes.
- It must have a vertical run without narrowing. It must be realized with fume and condensation resistant materials with thermal insulation and able to last against usual mechanical stresses.



It must be insulated to avoid condensation and to reduce fume cooling effects.

- The stove must be spaced out from fuels or flammable materials with an air gap or with insulating materials. Check the distance with the chimney manufacturer.
- The chimney entrance must be placed in the same room where the appliance is installed or otherwise in the adjacent room and it must be provided with a solid and condensation collection chamber under the entrance, accessible through the sealed metal gate.
- Auxiliary exhaust fans cannot be installed neither along the chimney nor on the chimney pot.
- The inner section of the chimney flue can be round (the best one) or square and the jointed sides must have a minimum radius of 20 mm.
- The section dimension must be:
 - **minimum Ø100 mm (for stoves up to 8.5 kw)**
 - **minimum Ø120 mm (for stoves to 9 kw up)**
 - **recommended max Ø180 mm**
- Made the efficiency of the chimney flue overhauled by an expert stove-repairer and if necessary cover the chimney flue with materials in compliance with current regulations.
- The flue system must be placed on the roof.
- The chimney flue must be provided CE in accordance with EN 1443 regulation. Please find attached an example of label:



Fig. 3 - Example of label

9.4 HEIGHT-DEPRESSION

The depression (draught) of a chimney flue depends also on its height. Check the depression with the values provided at **FEATURES page 38**. Minimum height 3,5 meters.

9.5 MAINTENANCE

- The fumes extraction pipes (fumes conduit + chimney flue + chimney pot) must always be cleaned, scrubbed and checked by an expert stove-repairer, in compliance with current regulations, with the instructions of the stove-manufacturer and the directives of your insurance company.
- In case of doubts, please follow the most restrictive regulations.
- Have your chimney flue and chimney pot checked and cleaned by an expert chimney sweep at least once a week. The chimney sweep has to release a written declaration about the security of the system.
- Not cleaning compromise safety.

9.6 CHIMNEY POT

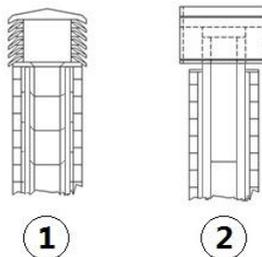


Fig. 4 - Anti-wind chimney pots

The chimney pot is important for the correct running of the heating appliance:

- We recommend using an anti-wind chimney pot, see **Fig. 4 page 8**.
- The hole width for fumes exhaust must be the double of the chimney flue width and fitted in a way that the fume exhaust is assured also in case of wind.
- It should prevent the infiltration of rain, snow and animals.
- The outlet height in the atmosphere must be away from the reflux area caused by the roof structure or by obstacles laying nearby (see **Fig. 2 page 7**).

9.7 CHIMNEY COMPONENTS

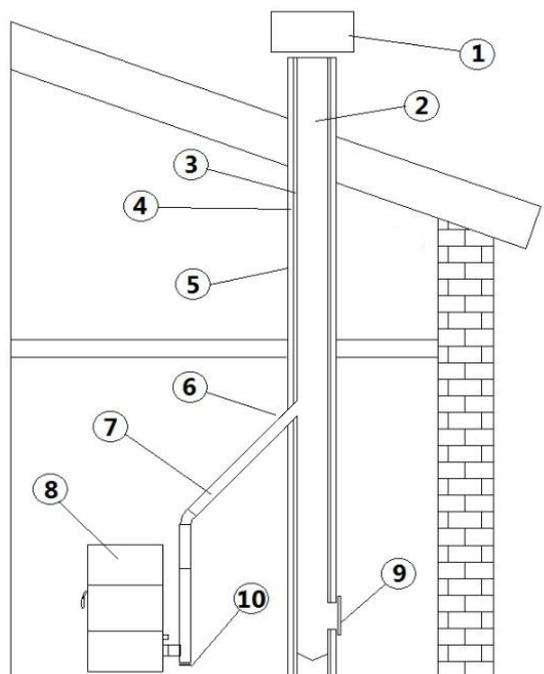


Fig. 5 - Chimney components

LEGEND Fig. 5 page 9

1	Chimney pot
2	Fume outlet
3	Chimney flue
4	Thermal insulation
5	External wall
6	Chimney union
7	Fume pipe
8	Heat generator
9	Inspection door
10	T-union with inspection plug

9.8 EXTERNAL AIR INLET

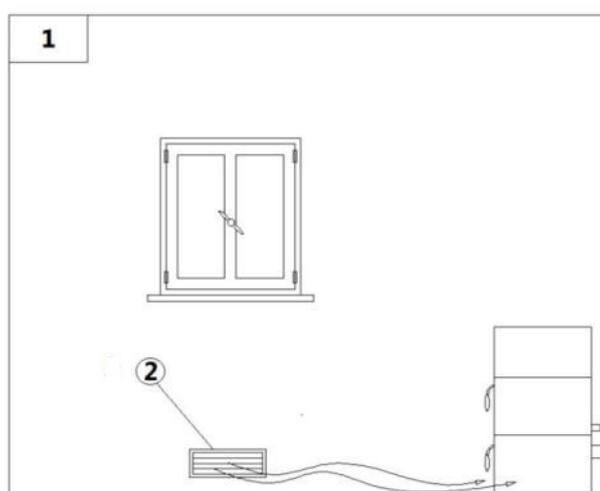


Fig. 6 - Direct air inflow

LEGEND Fig. 6 page 9

1	Room to ventilate
2	External air inlet

- It is mandatory to have an appropriate air intake connected to the outside to bring to the stove the air

required for combustion.

- The air inflow from outside to the inner occurs directly, through an opening on the external wall of the room (see **Fig. 6 page 9**).
- Bedrooms, garages, and store of flammable materials are excluded.
- The air inlet should have a total net surface of 80 sqcm²: the aforesaid surface is to widen if inside the room there are other activated appliances (for example: electric ventilators for foul air suction, cooker hoods, other stoves, etc...) which depress the environment.
- At switched on appliance it is necessary to check that the pressure fall between the room and the outside does not exceed 4,0 Pa value: if necessary widen the air inlet.
- The air inlet must be realized at a height close to the floor with an external grid against birds. In such a way it cannot be obstructed by any object.

9.9 CHIMNEY FLUE CONNECTION

Your pellet stove works through a fume draught forced by a fan. It is obligatory to check that all pipes are realized in compliance with the following regulation on material selection: EN 1856-1, EN 1856-2 e UNI/TS 11278. All must be effected by specialized personnel or companies as provided by UNI 10683:2012.

- The connection between the appliance and the chimney flue should be short in order to favor the draught and to avoid condensation in the pipes.
- The fume conduit should be equivalent or longer than the outlet joint ones (Ø 80 mm).
- Some stove models are endowed with a lateral and/or back exhaust. Check that the unused exhaust is sealed with the plug given with standard equipment.

SYSTEM TYPE	Ø80 mm PIPE	Ø100 mm PIPE
Minimum vertical length	1,5 mt	2 mt
Maximum length (with 1 union)	6,5 mt	8 mt
Maximum length (with 3 unions)	4,5 mt	6 mt
Maximum number of unions	3	3
Level section (minimum inclination 3%)	2 mt	2 mt
Installation at a height above 1200 m a.s.l.	NO	Obligatory

- Use a plate pipe for stoves of Ø80 mm or Ø100 mm depending on the type of system and with silicone gaskets.
- It is forbidden to use metal, fibre cement or aluminium flexible pipes.
- For change of direction it is obligatory always to use a union (with angle > 90°) with inspection plug which enables an easy periodic cleaning of the pipes.
- Please assure you that after the cleaning the inspection plugs are sealed with its efficient gasket.
- Installation in double-walled flues (concentric system) is forbidden.
- It is forbidden to exhaust flue gases directly from the wall towards the outside and closed spaces also at open top (see **Fig. 7 page 10**).
- It is prohibited to connect more than one wood/pellet (*) or any other type of appliance (vent cowl...) to the same flue.

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

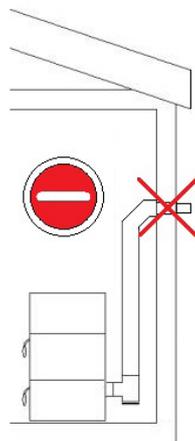


Fig. 7 - Prohibition

- It is forbidden to connect any other appliance (wood stoves, cooker hoods, boilers, etc...).
- The fume conduit must be placed at a distance of minimum 500 mm from flammable or heat-susceptible components.

9.10 EXAMPLES OF CORRECT INSTALLATION

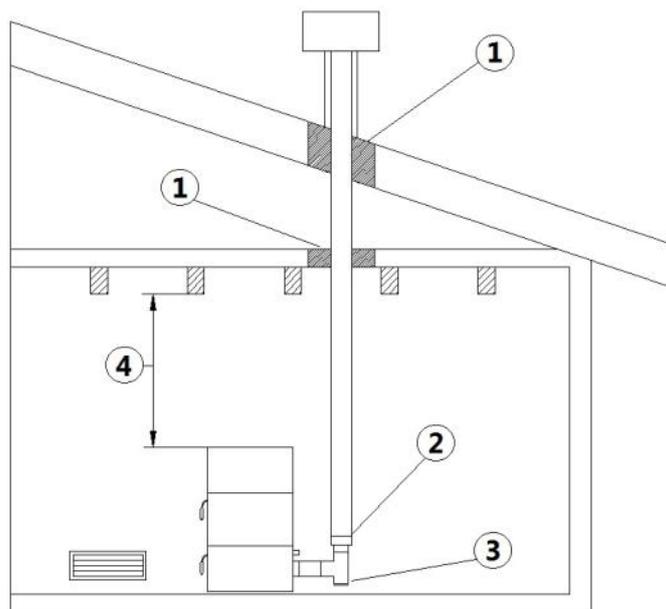


Fig. 8 - Example 1

LEGEND Fig. 8 page 11

1	Insulating material
2	Reduction from $\varnothing 100$ to $\varnothing 80$ mm
3	Inspection plug
4	Minimum safety distance = 0,5 mt

- Chimney flue installation $\varnothing 100/120$ mm with an enlarged drilling for pipe transit.

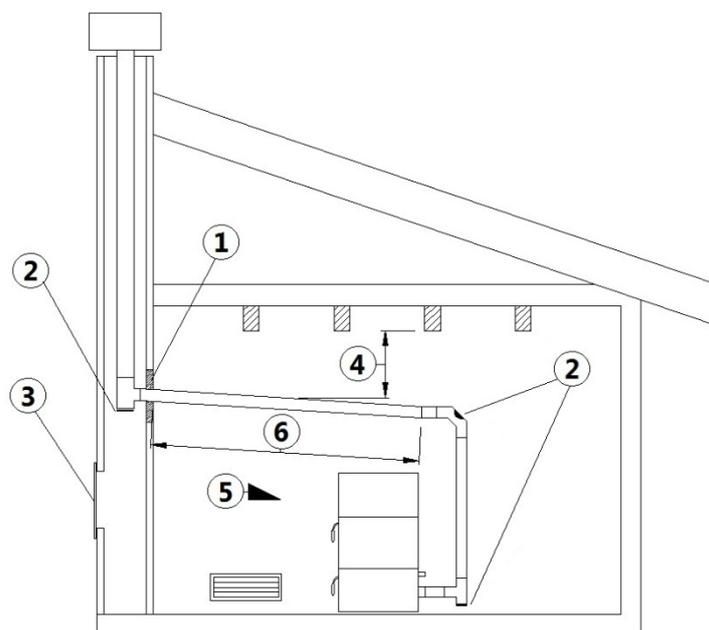


Fig. 9 - Example 2

LEGEND Fig. 9 page 11

1	Insulating material
2	Inspection plug
3	Chimney inspection entrance
4	Minimum safety distance = 0,5 mt
5	Inclination $\geq 3^\circ$
6	Level section ≤ 1 mt

- Old chimney flue with an inserted pipe of minimum $\varnothing 100/120$ mm and with an external door which enables the chimney cleaning.

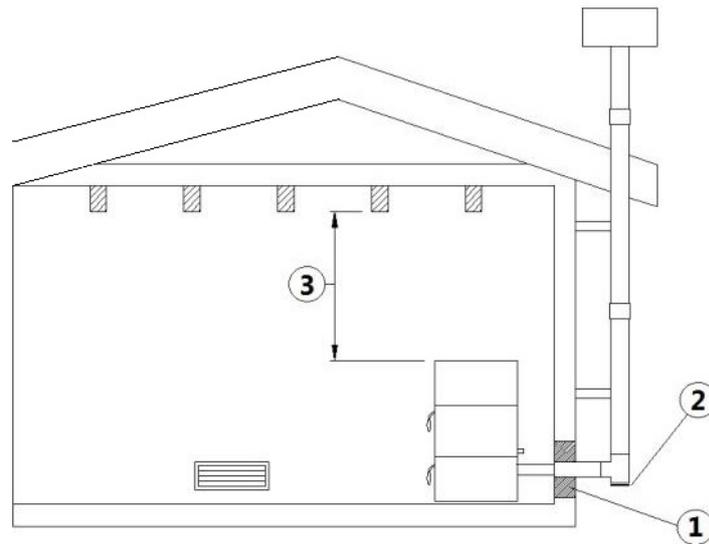


Fig. 10 - Example 3

LEGEND	Fig. 10 page 12
1	Insulating material
2	Inspection plug
3	Minimum safety distance = 0,5 mt

- External chimney flue entirely made up of insulated stainless steel pipes, i.e. with double wall of minimum Ø100/120 mm: all must be firmly attached to the wall. For chimney against wind effects please (see **Fig. 4 page 8**).
- Ducting system through T-unions which enables an easy cleaning without disassembling the pipes.



We recommend to check with your chimney flue manufacturer the safety distances which must be respected and the type of insulating material. The aforesaid regulations are valid also for holes made on the wall (EN 13501 - EN 13063 - EN 1856 - EN 1806 - EN 15827).

10 FUEL



10.1 FUEL

- Use top-quality pellets because they have influence in the calorific value and in ash remains.
- Pellets features are: dimension Ø6-7mm (D06 Class), maximum lenght 40 mm, calorific value 5kWh/kg, humidity ≤ 10%, ash remains ≤ 0,7%, they must be correctly pressed and not much mealy, without sizing agents, resins and other additives (it is advisable to use pellets in compliance with the regulation EN14961-2 type ENplus-A1).
- Not adequate pellets cause a bad combustion, a frequent burning pot obstruction and exhaust conduits obstruction. Further it decreases the calorific value, soils the glass and increases consumptions and ash and unburnt granules quantity.



Humid pellets cause a bad combustion and running, so please assure you that they are stored in dry places and far at least one meter from the stove and/or any other source of heat.

- It is advisable to try different type of pellets available on the market and to choose that which gives the best performance.
- The use of bad quality pellets can damage the stove so that the warranty and manufacturer liability fall.
- On all our product are used high-quality materials such as stainless-steel, steel, cast iron, etc... These materials, before being sold on the market, are tested in laboratory, but despite this on the components which enable the pellets flow (auger) there could exist minimum differences in the material used, in roughness and porosity, which could generate usual variations in fuel transportation (pellets), causing a flame raising or drapping with a possible switching off at lower powers.
- Depending on the type of pellets it could be necessary a parameters adjustment, please contact an Authorized Assistance Service.

1.1 INSTALLATION



11.1 INTRODUCTION

- The assembly position must be chosen depending on environment, outlet, chimney flue.
- Check with local authorities if there are any restrictive regulations which regard the combustible air inlet, room ventilation, fume exhaust system together with chimney flue and chimney pot.
- Check if there is the combustible air inlet.
- Check the probable presence of other stoves or appliances which could depress the room.
- Check at switched on stove if there is the presence of CO in the room.
- Check if the chimney has the necessary draught.
- Check if during the fume passage all has been executed in safety (probable fume losses and distances from flammable materials, etc....).
- The installation of the appliance must enable an easy access for appliance, fume exhaust pipes and chimney flue cleaning.
- The installation must enable an easy access to the electric connection plug.
- To install more appliances, the external air inlet must be correctly dimensioned (see **FEATURES page 38**).

11.2 OVERALL DIMENSIONS

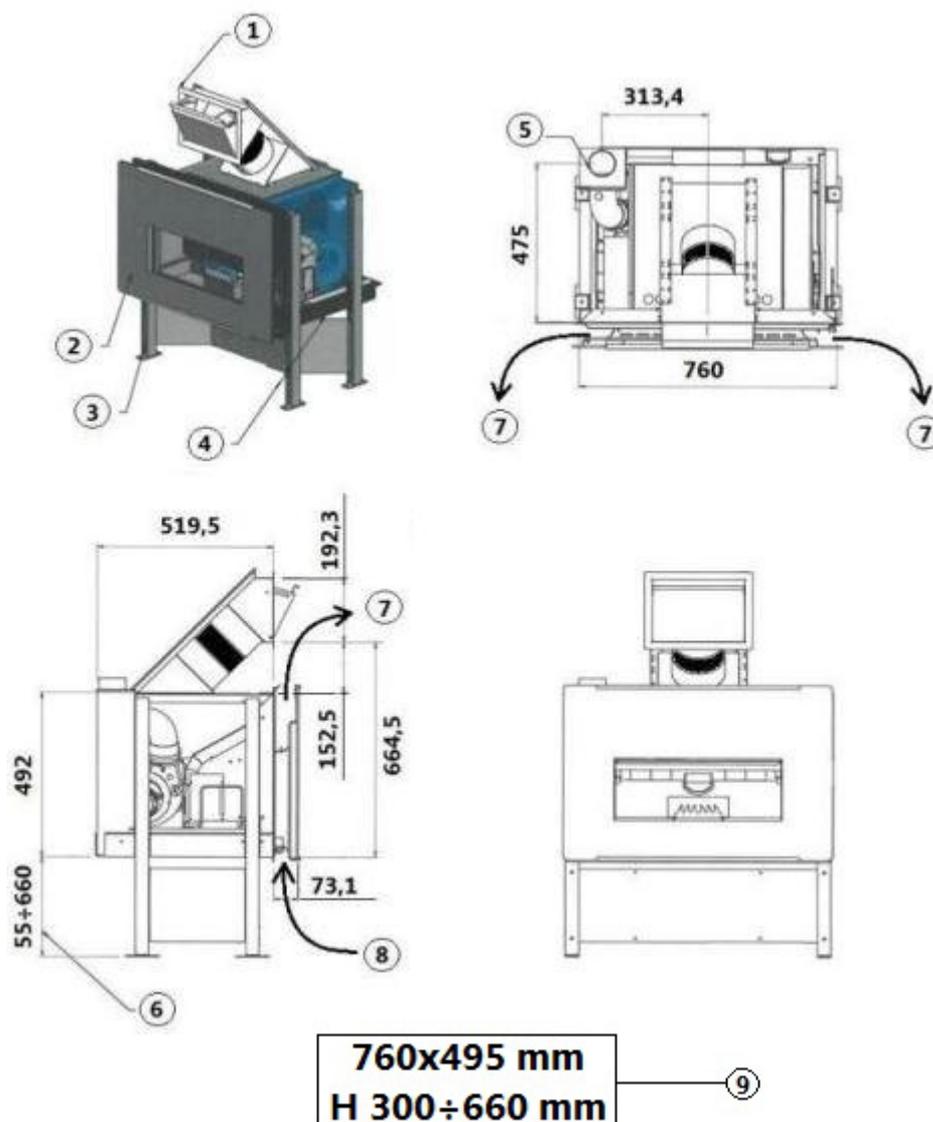


Fig. 11 - General dimensions

LEGEND Fig. 11 page 13

1	Door for loading pellet
2	Extractable pellet insert
3	Adjustable legs

LEGEND	Fig. 11 page 13
4	Insert supporting frame
5	Fume exhaust Ø 80 mm
6	Adjustable height of the legs (min-max)
7	Hot air outlet (upper and lateral)
8	Combustible air inlet and cooling
9	Wall cutting dimension (plasterboard/bricks)

11.3 GENERAL INSTALLATION

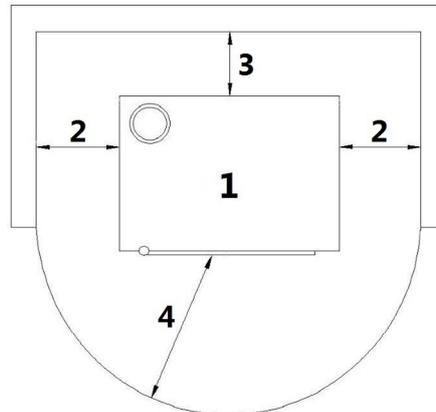


Fig. 12 - General installation

LEGEND	Fig. 12 page 14
1	Fireplace insert
2	Minimum lateral distance = 240 mm
3	Minimum rear distance = 190 mm
4	Minimum front distance = 1000 mm
5	Minimum thickness of insulating material = 40 mm

- Please check that the floor has an adequate load capacity. If the existing one does not satisfy this requirement, appropriate measure should be provided (for example a plate for distributing the load).
- It is obligatory to install the stove away from walls and/or pieces of furniture, with a minimum air flow of 240 mm on the sides and 190 mm on the back, to enable an efficient appliance cooling and a good distribution of heat in the room (see **Fig. 12 page 14**).
- For safety fire regulations the distances from flammable or sensible to heat objects (sofas, pieces of furniture, wooden covering, etc...) must be respected, has described in **Fig. 12 page 14**.



The probable insulating material to use must have the following technical features:

CARATTERISTICHE	VALORI	
Material thickness	40 mm	
Screening temperature	1000 °C	
Density	245 Kg/m ³	
Shrinkage at referring temperature (12h)	1,3 % /1000 °C	
Cold crushing strenght	1,4 MPa	
Bending strenght	0,5 MPa	
Thermal expansion coefficient	5,4x10 ⁻⁶ m/mK	
Specific heat	1,03 Kj/kgK	
Thermal conductivity at medium temperature	200 °C	0,07 W/mK
	400 °C	0,10 W/mK
	600 °C	0,14 W/mK
	800 °C	0,17 W/mK

- If there are highly flammable objects (curtains, fitted carpet, etc...), all these distances must be further increased with 1 meter.
- If the floor is made up of flammable material two solutions are possible:
 - build a protection (steel plate, refractory, marble...) made up of no flammable material;
 - otherwise the insert must be raised at a minimum height of 200mm from the floor (adjusting legs' length).
- If the walls are made up of flammable materials, check the safety distances (see **Fig. 12 page 14**).
- At maximum power check that the wall temperature does not ever exceed 80°C. If it would be necessary please install a fire resistant plate on the concerned walls.
- In some countries also masonry load-bearing walls are considered flammable.

11.4 INSERT REMOVAL



In case of settled on guides insert removal there is the risk of overturning!



Disassembly operations must always be executed with the aid of 2 people!



Fig. 13 - Retainers

- Unhook the 2 yellow retainers (see **Fig. 13 page 15**) and extract half of the insert from its frame.



Fig. 14 - Insert fixing front screw



Fig. 15 - Insert fixing rear screw

- Unscrew the 2 fixing screw on both insert sides, as shown in **Fig. 14 page 15** and **Fig. 15 page 15**.

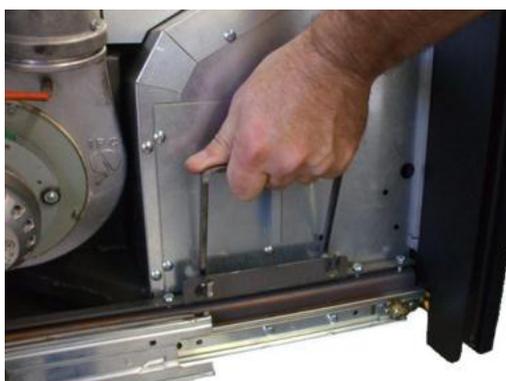


Fig. 16 - Hand grips

- Through the 2 hand grips (see **Fig. 16 page 15**) extract the whole insert and, after having slightly lifted it,

remove it from its guides.

- Lean the insert body on a firm plane (such as the floor).

11.5 INSERT FITTING



In case of insert fitting on the guides there is the risk of overturning!



Assembly operations must always be executed with the aid of 2 people!

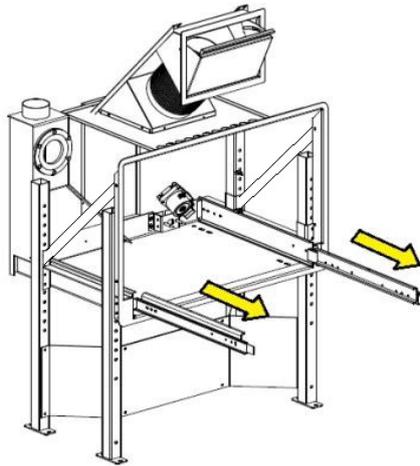


Fig. 17 - Guides extraction

- Extract the 2 guides completely from the frame (as shown in **Fig. 17** page 16).

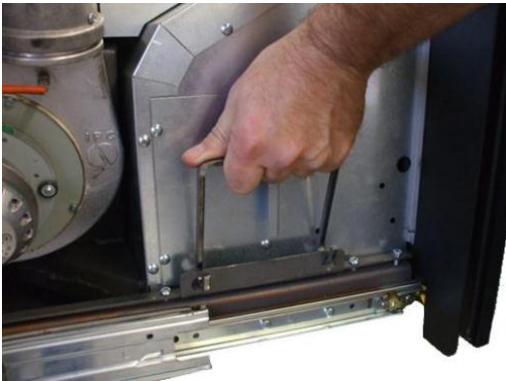


Fig. 18 - Hand grips

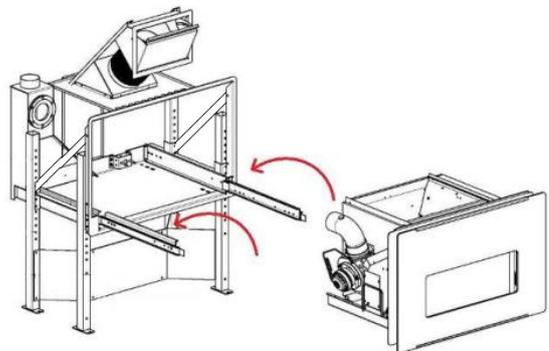


Fig. 19 - Insert on guides fitting

- With the aid of the hand grips (see **Fig. 18** page 16) lift the insert and set it on the frame guides **Fig. 19** page 16.



Fig. 20 - Insert fixing rear screw



Fig. 21 - Insert fixing front screw

- Screw the 2 fixing screws on both insert sides, as shown in **Fig. 20** page 16 and **Fig. 21** page 16.
- Push the insert inside the frame.

11.6 INSTALLATION WITH EXTERNAL COVER

- It is possible to cover the insert with your liking cover respecting the correct execution as described in **GENERAL INSTALLATION page 14** and following the under mentioned instructions.

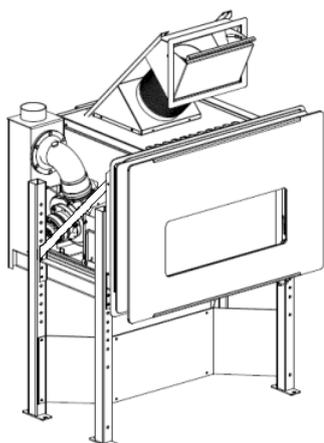


Fig. 22 - Complete structure

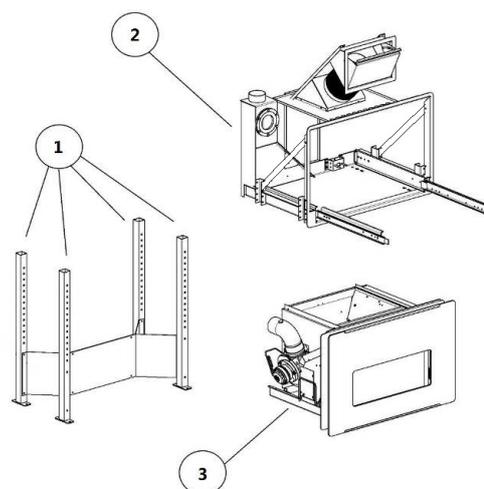


Fig. 23 - Divided structure

LEGEND Fig. 23 page 17

1	Supporting legs
2	Fire place insert frame
3	Fire place insert

- Remove the insert as described in **INSERT REMOVAL page 15**.

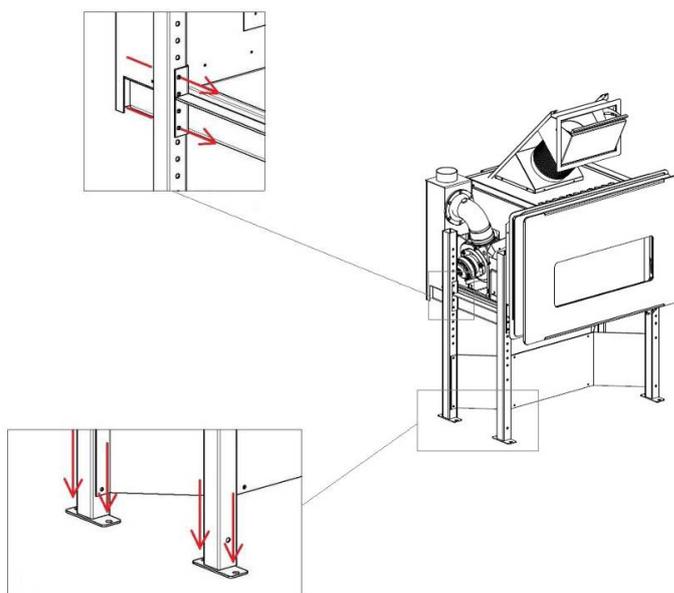


Fig. 24 - Fixing positions

- Fix the legs to the floor and lift the insert frame till the desired height by adjusting the legs (H 55÷660 mm) and then block it with screws on the fitting guides (see picture **Fig. 24 page 17**).
- It is obligatory to fix the supporting frame legs at the base with metal plugs able to bear a weight of 50 kg for leg.



In case of insert extraction fixed on guides there is the risk of overturning!
Check if the insert frame is fixed to the floor.

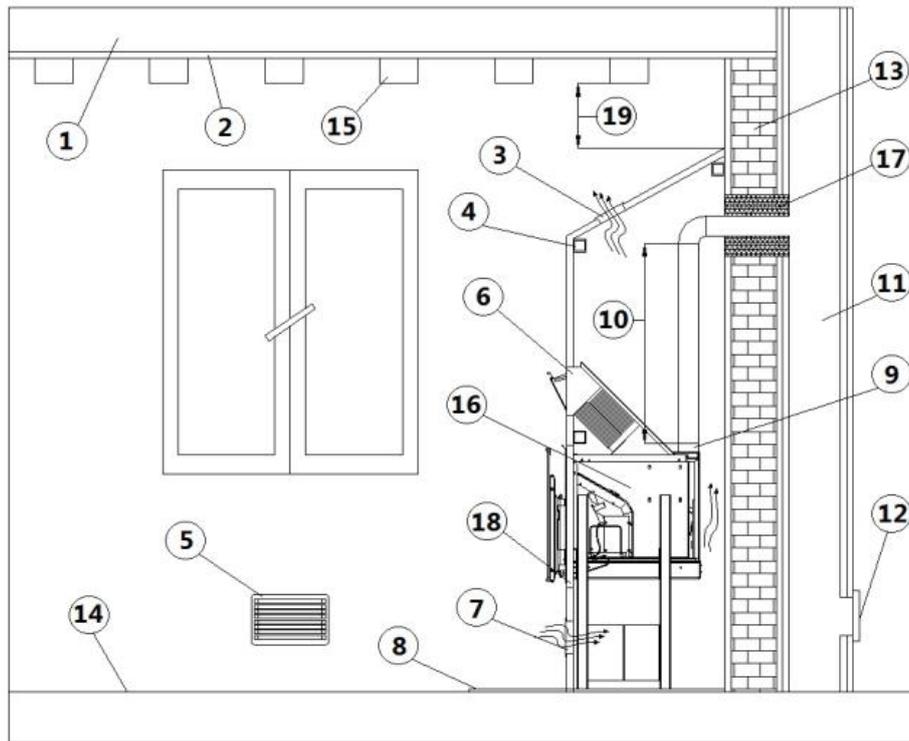


Fig. 25 - Installation with cover

LEGEND Fig. 25 page 18

1	Ceiling to protect
2	Ceiling plaster to protect from heat
3	Ventilation grid with a minimum entrance of 400 cm ² for natural hot convective air outlet
4	Self-supporting metal frame
5	Combustible air outlet
6	Pellet load entrance
7	Lower air grid with a minimum entrance of 400 cm ² for natural cool convective air inlet
8	Floor protecting plate
9	Outlet clutch Ø80 mm
10	Fume pipe Ø80 mm with a minimum vertical length of 1 mt
11	Chimney flue of minimum Ø120 mm
12	Sealed chimney flue's inspection door
13	Wall
14	Floor
15	Ceiling with wooden beam
16	Fireplace insert
17	Insulating between wall and fume pipe of minimum 200 mm on the whole diameter
18	Combustible air inlet
19	Minimum distance between the wooden beams and the fume pipe = 0,5 mt

- Build a metal frame for supporting cover panels (4).
- Do not discharge the metal structure weight on the insert frame.
- Cover the metal frame with panels made up of no flammable materials.



Made a cleft of min. 400 cm² on the lower (7) and upper (3) parts of the panels for the inner air recycling.

- The pellet loading can occur by extracting the insert at switched off appliance, otherwise through the installation of a loading trap door (6).
- The loading trap door can be frontally or laterally installed, extending the flexible pipe Ø160 mm according to your needs.

11.7 INSTALLATION ON EXISTING FIREPLACE

- It is possible to build the insert into an existing fireplace respecting the distances and the correct execution as described by **GENERAL INSTALLATION page 14** and following the below mentioned instructions.
- Remove the fireplace insert as described in **INSERT REMOVAL page 15**.
- Fix the legs at the lowest height (H 55 mm) and block them with screws on its fitting guides.

- It is obligatory to fix the leg of the supporting frame at the base with metal plugs able to bear a weight of 50 kg for leg.



In case of fixed on guides insert extraction there is the risk of overturning!
Check if the insert frame is correctly fixed to the base.



Check if the upper hot air outlet is not choked, see **Fig. 26 page 19**.



Make a cleft of 400 cm² on the lower and upper part of the fireplace for the inner air recycling.

- The pellet loading can occur by extracting the insert at switched off appliance, otherwise through the installation of a loading trap door (6).
- The loading trap door can be frontally or laterally installed, extending the flexible pipe Ø160 mm according to your needs.

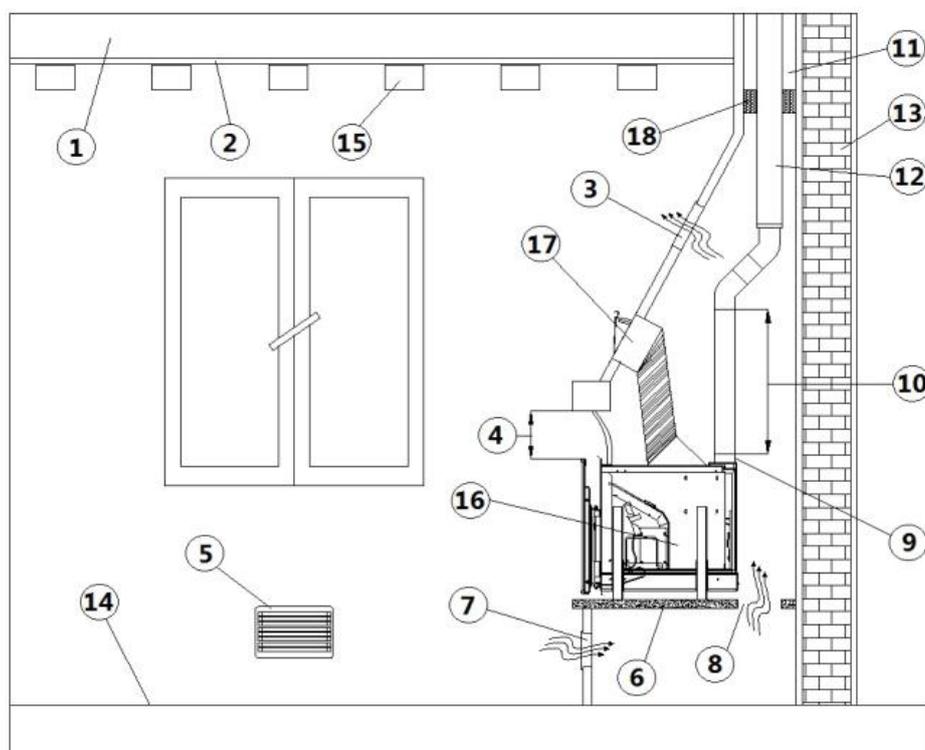


Fig. 26 - Installation on the existing fireplace

LEGEND Fig. 26 page 19

1	Ceiling to protect
2	Ceiling plaster to protect from heat
3	Ventilation upper grid minimum entrance 400 cm ² for natural hot convective air outlet
4	Hot air deflector
5	Combustible air inlet
6	Fireplace's fire plate
7	Lower air grid with minimum entrance 400 cm ² for natural cool convective air inlet
8	Ventilation cleft of 400 cm ² for convective cool air recycling
9	Outlet clutch Ø80 mm
10	Fume pipe Ø80 mm with minimum vertical lenght of 1 mt
11	Chimney flue > Ø120 mm
12	Fume pipe Ø100 mm
13	Wall
14	Floor
15	Ceiling with wooden beams with a minimum distance from the fume pipe = 0,5 mt
16	Fire place insert
17	Pellet loading entrance
18	Locking ring

11.8 ELECTRIC CONNECTION



Warning: the appliance must be installed by an authorized technician!

- The electric connection occurs through a cable with plug put in an electric socket which is able to support charge and tension specific of every model, as described in the technical data table (see **FEATURES page 38**).
- The plug must be easily accessible when the appliance is installed.
- Please further assure you that your network is endowed with an efficient earth connection: if it does not exist or if it is not efficient, please endow you with one in compliance with the law.
- Connect the supply cable first on the back of the stove and then at a wall electric socket.
- Do not use extension cables.
- If the feeder cable is damaged, it must be replaced by an authorized technician.
- When the stove is not going to be used for a long period of time, it advisable to remove the plug from the socket on the wall.



11.9 CONNECTION TO THE EXTERNAL THERMOSTAT

The stove works through a thermostat probe placed in its inner. If you desire, the stove can be connected to an external room thermostat. This operation must be executed by an authorized technician.

- External thermostat: "SET TEMP ROOM" a temperature which is round 7°C.
- External chrono-thermostat: "SET TEMP ROOM" a temperature which is round 7°C and disable the chrono functions from the menu 03-01 "CHRONO ENABLE" ("OFF").



11.10 HOT AIR DUCTING SYSTEM (HORIZON PLUS)



Fig. 27 - Ducting system example

- If the stove is not fitted with ducting system, it provide a hot air capacity ranging from a minimum of 61 m³/h to a maximum of 130 m³/h with a temperature ranging between 90°C and 136°C.
- For the ducting system, we recommend using a pipe with a maximum length of 6 mt and up to three 90° elbows in order to maintain hot air temperature.
- Use pipes with smooth internal surface and a diameter of 80 mm.
- Fit the pipe with insulating material if it passes through a cold wall.
- The outlet must be protected by a grid with wide mesh and a minimum total surface area of 40 cm².
- If the pipes used are longer than 6 mt, the air capacity ranges from a minimum of 58 m³/h to a maximum of 883 m³/h and the temperature from 65°C to 99°C. (These values refer to the laboratory used for the tests. The room where the stove is installed may register different values both in terms of capacity and temperature).
- If you wish to increase air capacity, install at the end of the pipe a small wall-mounted fan with a capacity exceeding 130 m³/h. The installation must be carried out by an authorised technician.
- According to the factory parameters, 1/2 of the generated heat is conveyed into the room where the stove

- is installed, while the remaining 1/2 are conveyed through the left ducting pipe system.
- To get the best performance you need to balance the power with the air flow (see **FAN ADJUSTMENT page 25**). This operation must be performed with the assistance of an authorised technician.
 - Balance heat output with air capacity to obtain the best performance (see **FAN ADJUSTMENT page 25**). The operation above must be carried out by an authorised technician.

12 USE



12.1 INTRODUCTION

To have the best performance with the lowest consumption please follow the here described instructions.

- The lighting of the pellets occurs very easily if the installation is correct and if the chimney flue is efficient.
- Switch on the stove at Power 1 for at least 2 hours in order to enable the materials which make up the boiler and the fireplace to adjust the inner springing stress.
- By using the stove the varnish inside the combustion chamber could be subjected to alterations. This occurrence can be attributed to different reasons: an excessive stove overheating, the presence of chemical agents in bad quality pellets, bad chimney draught, etc. Therefore varnish endurance in the combustion chamber cannot be guaranteed.

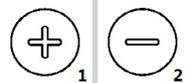
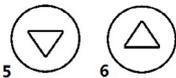


Oily plant waste and lacquers can cause smells and smoke during the first working hours: it is advisable to ventilate the room because they could be noxious to people and animals.



Set values from 1 to 5 are defined by the manufacturer and they can be changed only by an authorized technician.

12.2 CONTROL PANEL

PANEL ELEMENT	DESCRIZIONE
	P1 e P2: when you are in set temperature mode the thermostat values increase or decrease from min. 6°C to max. 40°C. Keeping pressed P2 you check the fume temperature at outlet. Both have programming functions.
	P3: enables the access to temperature set and to User and Technician parameters menu.
	P4: ignition and shut down, unblocking from probable alarms and exit from programming.
	P5 e P6: increase and decrease the calorific power from 1 to 5.
	Crono: activated time schedule.
	Sparking plug: activated ignition.
	Auger: activated.
	Fume extractor: activated.

PANEL ELEMENT	DESCRIZIONE
	Exchanger fan: activated.
	-
	Alarm: activated.

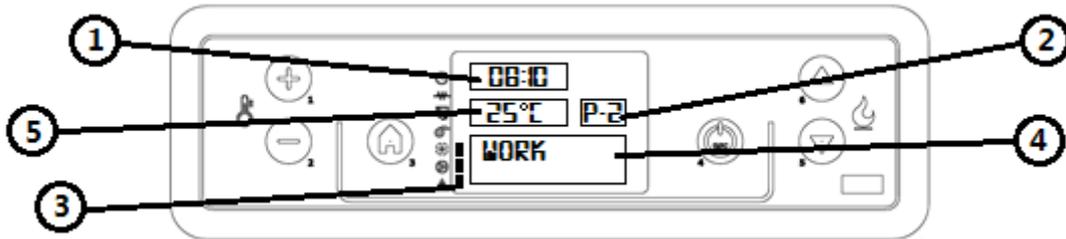


Fig. 28 - LCD control display

LEGEND	Fig. 28 page 22
1	Time
2	Power
3	Condition
4	Message
5	Temperature

12.3 USER MENU

Pressing P3 you have access to user parameters running. To slide them press P5 and P6 keys. It will appear:

POS.	REFERENCE	DESCRIZIONE
1	FAN ADJUST (supplementary)	Module not supported from this type of stove.
2	SET CLOCK	Set date and time. The board is endowed with a lithium battery which enables 3/5 years range. See CLOCK SETTING page 24.
3	SET CHRONO	Press P3 key: it appears "CHRONO ENABLE". Press P3 again and with P1 and P2 keys put in "OFF" or "ON". For daily, weekend or weekly setting, see DAILY PROGRAMMING page 24. ATTENTION: do not activate if STAND-BY mode is active!
4	SELECT LANGUAGE	Press P3 key and with P1 and P2 keys select the desired language.
5	STAND-BY MODE	If the settled room temperature has exceeded for more than 10 minutes, this mode activates a function for shut down mode. If the room temperature has decrease of more than 2°C, the stove switches on automatically, starting from IGNITION page 23 . Press P3 key and with P1 and P2 keys put in "OFF" or "ON" mode. ATTENTION: do not activate if CHRONO function is active!
6	BUZZER MODE (acoustic alarm)	Press P3 key and with P1 and P2 keys put in "OFF" or "ON".
7	INITIAL LOAD	At the first ignition of the stove, the auger is completely empty. If necessary have a preloading pressing P3 key, then P1 for start-up and P4 to stop.
8	STOVE STATE	Displays all parameters connected to stove state: this is the menu for Authorized Technician.
9	TECHNICA SETTING	Only for Authorized Technician
10	FLAME SETTING	Enables to adjust the flame depending on chimney flue draught.

12.4 IGNITION

We remind you that the first ignition must be executed by authorized and skilled technical personnel who checks that all is installed in compliance with current regulations and verifies stove's efficiency.

- If inside the combustion chamber there are booklets, manuals, etc.... please remove them.
- Check if there are pellets in the hopper.
- Check that the door is correctly closed.
- Check that the plug is correctly put into the electric socket.
- Before starting up the stove, please assure you that the burning pot is clean.
- To start up the stove, keep pressed P4 key for little while till it appears "START" and then "PREHEAT WAIT" which starts the preheating of the ignition resistance. After 2 minutes, the display shows "PELLET LOAD, FIRE WAIT" when the auger load the pellet and the heating of the resistance goes on. When the temperature is sufficiently high (after about 7-10 minutes), the ignition has occurred and the display shows "FLAME PRESENT".
- When "FLAME PRESENT" stage has finished, the control unit enters on "WORK" mode and displays the selected calorific power and room temperature. It is in this stage that P5 and P6 keys adjust the power from 1 to 5. If room temperature exceeds the limit established during the setting, the calorific power falls at the minimum displaying "WORK, MODULAT". When the room temperature returns below the selected temperature, the stove returns to the set power.



12.5 STOVE ADJUSTMENT

The stove is set in compliance with chimney flue and used pellets data, according to technical characteristics (see **FEATURES page 38**). If the data do not correspond, the technician can set the stove.

- If the pellets is small in size and with a greater calorific power, (for example because of encrusted fire pot) decrease the pellet drop through the menu "FLAME SETTING", press P3 key "PELLET TYPE", press again P3 "PELLET LOAD" and with P2 key decrease the pellet quantity from -1 (i.e. -2%) to -9 (i.e. -18%).
- If the chimney flue has a lower draught (for example because of a weak flame or sooty glass) increase the fume motor revolutions through the menu "FLAME SETTING", press P5 key "CHIMNEY TYPE", press P3 key "FUME-EXT, CHIMNEY" and with P1 key increase the exhaust fan from +1 (i.e. +5%) to +9 (i.e. +30%).
- If the chimney flue has a greater draught (for example because of pellet fall from the burning pot) decrease the exhaust fan revolutions from -1 to -9.



Pay attention to positive and negative values.

12.6 FAILED IGNITION

If the pellets do not burn, the failed ignition will be indicated by the alarm "NO IGNITION"

- If the room temperature is lower than 10°C, the plug is not able to bear the ignition stage. To support it please insert some pellets in the burning pot and a piece of burning firelighter igniter material on the pellets (for example firelighters cubes).



After a failed ignition the burning pot must be empty from the amassed pellets, before starting up again the stove.

- Too much pellets in the burning pot, or humid pellets, or sooty burning pot make ignition difficult and create dense white smoke which is harmful to health and can cause explosions on the combustion chamber. It is therefore necessary not to stand in front of the stove during ignition stage if dense white smoke is present.



If after some months the flame appears weak and/or orange colored or the glass tends to blackens and the burning pot to become encrusted, clean the stove, clean the fume pipe and the chimney flue.

12.7 POWER FAILURE

- After a black-out off less than 5 seconds, the stove returns to the set power.
- After a black-out of more than 5 seconds, the stove enters the stage "COOLING WAIT". At the end of cooling stage, it starts automatically up with the different stages (see **IGNITION page 23**)

12.8 TEMPERATURE SETTING

- To modify the room temperature, it is sufficient to press P1 and P2 keys according to the desired temperature when the display shows "SET TEMP ROOM".
- To display the set temperature, press P1 key.

12.9 FUME TEMPERATURE

To check fume temperature at the exhaust outlet, it is sufficient to keep pressed P2 key.

12.10 SWITCHING OFF

To switch off the stove keep pressed P4 key: the display shows "FINAL CLEANING". After 10 minutes also the fume extractor switches off (this occurs always, whether the stove is hot or cold). Then the display shows "OFF".



If the pellets are of bad quality (if contain sizing agents, oils, varnishes, plastic remains or if it is mealy), during the running deposits will form along pellets drop pipe. When the stove is switched off, these remains could form little hot coals that rising along the pipe could reach the pellets on the hopper burning them and creating a thick and harmful smoke inside the room. Please always keep the hopper closed with its own lid. If the pipe is sooty, please clean it (see **INTRODUCTION page 28**).

12.11 CLOCK SETTING

- Press P3 and then P5 key till the display shows the menu (02) SET CLOCK.
- Press P3 key (DAY) and with P1 and P2 keys select the day of the week (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday).
- Press P3 key again (TIME) and with P1 and P2 keys select the time.
- Press P3 key again (MINUTES) and with P1 and P2 key select the minutes.
- Press P3 key again (DAY) and with P1 and P2 key select the day of the month (1, 2, 3 ...29, 30, 31).
- Press P3 key again (MONTH) and with P1 and P2 keys select the month.
- Press P3 key again (YEAR) and with P1 and P2 keys select the year.
- To exit press twice P4.

12.12 DAILY PROGRAMMING

It is useful to enable, disable and set daily chronothermostat functions. Press P3 key and then P5 key till the display shows (03) "SET CHRONO". Press P3 key and with P5 and P6 key select "PROGRAM DAY". Press P3, the display shows "CHRONO DAY". With P1 and P2 keys put in "OFF" or "ON".

It is possible to set two running period limited by the selected times.

After "CHRONO DAY":

- Press P5: the display shows "START 1", with P1 and P2 keys enter the ignition time or put in "OFF".
- Press P5: The display shows "STOP 1", with P1 and P2 keys enter the switching off time or put in "OFF".
- Press P5: the display shows "START 2", with P1 and P2 keys enter the ignition time or put in "OFF".
- Press P5: the display shows "STOP 2", with P1 and P2 keys enter the switching off time or put in "OFF".
- To exit press three times P4 key.

12.13 WEEK-END PROGRAMMING

It is useful to enable, disable and set the chronothermostat functions during the weekend. Press P3 key and then P5 key till it appears (03) "SET CHRONO" menu. Press P3 key and with P5 and P6 keys select "PROGRAM WEEK-END". Press P3 till the display shows "CHRONO WEEK-END" and, with P1 and P2 keys put in "OFF" or "ON".

It is possible to set two running periods limited by the selected times which activate only saturday and sunday.

After "CHRONO WEEK-END":

- Press P5: the display shows "START 1 WEEK-END" and with P1 and P2 keys enter the ignition time or put in "OFF".
- Press P5: the display shows "STOP 1 WEEK-END" and with P1 and P2 enter the switching off time or put in "OFF".
- Press P5: the display shows "START 2 WEEK-END" and with P1 and P2 keys enter the ignition time or put in "OFF".
- Press P5: the display shows "STOP 2 WEEK-END" and with P1 and P2 enter the switching off time or put in "OFF".
- To exit press three times P4 key.

12.14 WEEKLY PROGRAMMING

It is useful to enable, disable and set weekly chronothermostat functions (saturday and sunday included).

Press P3 key and then P5 till the menu (03) "SET CHRONO" appears. Press P3 key and with P5 and P6 keys select "PROGRAM WEEK". Press P3 and the display shows "weekly chrono" and with P1 and P2 keys put in "OFF" or "ON". It is possible to set 4 running times limited by the selected times.

After "WEEKLY CHRONO":

press P5: the display shows "START PROG-1" and with P1 and P2 enter the ignition time or put in "OFF".

Press P5: the display shows "STOP PROG-1" and with P1 and P2 keys enter the switching off time or put in "OFF".

- Press P5: the display shows "MONDAY PROG-1" and with P1 and P2 keys put in "OFF" or "ON".
- Press P5: the display shows "TUESDAY PROG-1" and with P1 and P2 keys put in "OFF" or "ON".
- Press P5: the display shows "WEDNESD PROG-1" and with P1 and P2 keys put in "OFF" or "ON".
- Press P5: the display shows "THURSDAY PROG-1" and with P1 and P2 keys put in "OFF" or "ON".
- Press P5: the display shows "FRIDAY PROG-1" and with P1 and P2 keys put in "OFF" or "ON".
- Press P5: the display shows "SATURDAY PROG-1" and with P1 and P2 key put in "OFF" or "ON".
- Press P5: the display shows "SUNDAY PROG-1" and with P1 and P2 keys put in "OFF" or "ON".

Now press P5 and repeat all the previous instructions for Prog-2, Prog-3, Prog-4.

- To exit press three times P4.

12.15 FAN ADJUSTMENT

Press P3 button in menu 1 "FAN ADJUST": the fan menus no.2 will open.

Press P1 to adjust fan no. 2.

Function "A" activates the default fan data. (For example: heat output 1 activates default rotations at heat output 1, heat output 2 activates default rotations at heat output 2, etc.).

With function "1" or "2" or "3" or "4" or "5" the fan is forced to work at the selected output. (For example: by setting "2", even if the fan is set to heat output 5 it will work as if set to heat output "2", etc.).



If the stove is set to maximum heat output 5 and the fans to minimum output 1, this may cause overheating and the "THERMAL SAFETY" alarm to go off.

12.16 PELLET SUPPLY



Fig. 29 - Wrong opening of the pellets bag

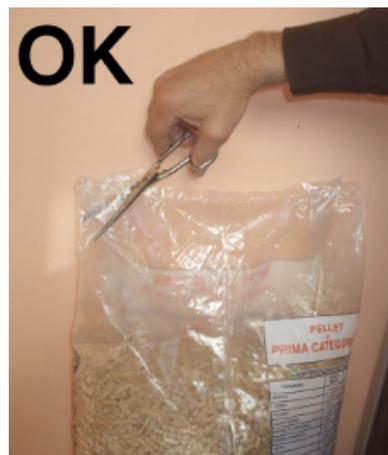


Fig. 30 - Right opening of the pellets bag

It is necessary to avoid to fill the hopper with the pellet when the stove is running.

- Do not get the bag of pellet in contact with hot stove surfaces.
- Do not empty the hopper with remaining fuels (unburnt pellet) from the burning pot coming from ignition waster.

12.17 PELLET LOADING (MODELS EOLO - COMFORT 80)

In the case of Eolo - Comfort 80, the pellets can be loaded through the trap door and/or by extracting the insert (see Fig. 31 page 25).



Fig. 31 - Loading

12.18 PELLET LOADING (MODEL HORIZON PLUS)

In the case of Horizon Plus, the pellets can be loaded through the trap door (see Fig. 32 page 26) or through the drawer (see Fig. 33 page 26): the 2 solutions may NOT be combined.



Fig. 32 - Trapdoor



Fig. 33 - Drawer

If the trapdoor solution is chosen (see **Fig. 32 page 26**), the pellet drawer must be excluded. Proceed as follows:

- Extract the drawer completely from the insert and remove it (see **Fig. 34 page 26**).
- Remove the bottom part of the drawer (see **Fig. 35 page 26**).

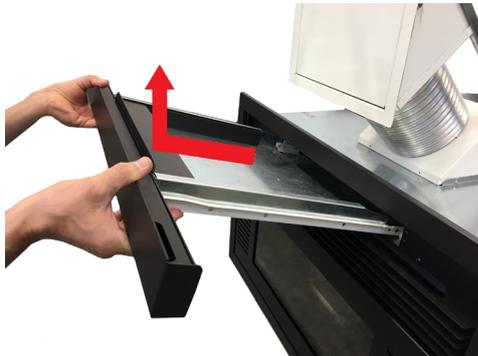


Fig. 34 - Removing drawer 1



Fig. 35 - Removing drawer 2

- Remove the front part of the drawer by unscrewing the 4 screws (see **Fig. 36 page 26**),
- Extract the insert completely and secure the front panel with the screws (see **Fig. 37 page 26**).



Fig. 36 - Removing the front panel



Fig. 37 - Securing the front panel

12.19 PELLET SENSOR

The appliance is endowed with a sensor which activates when the pellets is finishing.

- Message on the display "PELLET RESERVE", the appliance enters in energy saving and at power P1.
- When the reserve is used up (after 10 minutes more or less) the message "PELLET OVER" appears on the display and the appliance proceeds with the general cleaning and switches off.

12.20 REMOTE CONTROL

- The stove can be operated through a remote control.
- Operation requires 1 CR 2025 Lithium battery.



Used batteries contain metals which are harmful for the environment; they must therefore be disposed of separately in the special containers.



Fig. 38 - Remote control

LEGEND Fig. 38 page 27

Button 1	Increase the desired temperature
Button 2	Decrease the desired temperature
Button 3	On / off
Button 4	Menu
Button 5	Decrease the power level from 5 to 1
Button 6	Increase the power level from 1 to 5

13 SAFETY SYSTEM



13.1 INTRODUCTION

Safety devices are used to prevent and avoid the risk of damages to people, animals and objects. It is forbidden to execute repairing by no authorized personnel otherwise the warranty and the manufacturer liability fall.

13.2 "BLACK OUT" ALARM

"ACTIVE ALARM" "AL 1 - BLACK OUT": power black-out during ignition.

- Reset the error with P4 key. The stove carries out the "FINAL CLEANING" step and "OFF" appears.
- Clean the burning pot and start the stove up again pressing P4 key.

13.3 "FUME PROBE" ALARM

To the exhaust pipe is connected a probe which constantly controls the temperature during the running. "ACTIVE ALARM" "AL 2 - FUME PROBE": the probe is damaged or disconnected.

- Reset the error with P4 key. The stove carries out a "FINAL CLEANING" step and then "OFF" appears.
- Check the type of error as shown on **ALARMS page 32**.
- Clean the burning pot and start the stove up again pressing P4 key.

13.4 "HOT FUME" ALARM

If the fume probe detects a temperature to the exhaust higher than 180°C, the display shows "HOT FUME". Now the pellet fuel drop at step 1 is decreased.

This function brings the data back to the set data. If for many reasons the temperature does not decrease but increase, at 215°C the display shows "ACTIVE ALARM" "AL 3 - HOT FUME"

- Reset the error with P4 key. The stove carries out a "FINAL CLEANING" step and then "OFF" appears.
- Check the type of failure as shown on **ALARMS page 32**.
- Clean the fire pot and start the stove up pressing P4 key.

13.5 "FAN FAILURE" ALARM

"ACTIVE ALARM" "AL 4 - FAN FAILURE": exhaust fan device is broken.

- Reset the error with P4 key. The stove carries out a "FINAL CLEANING" step and then "OFF" appears.
- Check the type of failure as shown on **ALARMS page 32**.
- Clean the burning pot and start the stove up again pressing P4 key.

13.6 "NO IGNITION" ALARM

"ACTIVE ALARM" "AL 5 - NO IGNITION": if the temperature is not sufficient for ignition.

- Reset the error with P4 key. The stove carries out a "FINAL CLEANING" step and then "OFF" appears.
- Check the type of failure as shown on **ALARMS page 32**.

- Clean the burning pot and start the stove up again pressing P4 key.

13.7 "NO PELLET" ALARM

If the fume probe detects a temperature at the exhaust which is lower than the minimum threshold, the display shows "ACTIVE ALARM" "AL 6 - NO PELLET"

- Reset the error with P4. The stove carries out a "FINAL CLEANING" step and then "OFF" appears.
- Full the hopper.
- Clean the fire pot and start the stove up again pressing P4 key.

13.8 "THERMAL SAFETY" ALARM

In the hopper is installed a manual reset thermostat which activates if the range of temperature in the tank exceeds the allowed limits. This avoids that the pellet inside the hopper can burn because of overheating.

"ACTIVE ALARM" "AL 7 - THERMAL SAFETY": the thermostat disconnect power supply to the auger.

- Reset the error with P4 key. The stove carries out a "FINAL CLEANING" step and then "OFF" appears.
- Check the type of failure as shown on **ALARMS page 32**.
- Unscrew the black lid, press the button and screw again the protection lid.
- After having cleaned the burning pot, start the stove up again pressing P4 key.

13.9 "FAILURE DEPRESS" ALARM

To the boiler is connected a pressostat which checks the depression.

"ACTIVE ALARM" "AL 8 - FAILURE DEPRESS": the pressostat stops the power supply to the auger.

- Reset the error with P4 key. The stove carries out a "FINAL CLEANING" step and then "OFF" appears.
- Check the type of failure as shown on **ALARMS page 32**.
- Clean the burning pot and start the stove up again pressing P4 key.

13.10 "OPEN DOOR" ALARM

On the lower part of the fire door is installed a microswitch which detects the opening.

"ACTIVE ALARM" "AL 9 - OPEN DOOR": it means that the fire door is not correctly closed.

- Reset the error pressing P4 key. The stove carries out a "FINAL CLEANING" and "OFF" appears.
- Check the type of failure as shown on **ALARMS page 32**.
- Clean the burning pot and start the stove up again pressing P4 key.

14 MAINTENANCE



14.1 INTRODUCTION

For a long working life of the stove, have a periodic cleaning of the stove as described in the following paragraphs.

- Fume outlet pipes (fume conduit + chimney flue + chimney pot) must always be cleaned, scrubbed and checked by an authorized technician in compliance with local regulations, with the instructions of the manufacturer and those of your insurance company.
- If there are no local regulations and no instruction from your insurance company, it is necessary to have your fume pipe, chimney flue and chimney pot cleaned at least once a year.
- It is also necessary to have the combustion chamber, motors and fans cleaned and to have the gaskets and the electrical elements checked at least once a year.



All these operations must be planned in time with your Authorized Technical Assistance Service.

- After a long ineffective time, before turning on the stove check if there are obstructions in the fume exhaust.
- If the stove had been using continuously and intensely, the whole system (chimney included), must be cleaned and checked more frequently.
- In case of replacement of damaged pieces please ask for the original spare part at the Authorized Retailer.

14.2 BURNING POT AND ASH TRAY CLEANING



Every 2 days the burning pot and the ash tray must be cleaned.

- Open the door.



Fig. 39 - Burning pot removal



Fig. 40 - Burning pot cleaning



Fig. 41 - Burning pot glass positioning

- Remove the burning pot (see **Fig. 39 page 29**) from its housing by lifting it as shown in the picture and empty it from ash.
- If necessary clean the obstructed holes from encrustations with a pointed object (see **Fig. 40 page 29**).
- Clean the glass and replace it in the burning pot on its fitting bearing cleft (see **Fig. 41 page 29**).



Fig. 42 - Ash tray



Fig. 43 - Cleaning with a brush

- Removing the ash tray (see **Fig. 42 page 29**) from its housing by lifting it and empty it from ash.
- Clean also the hole for pellet dropping with a brush (see **Fig. 43 page 29**).
- The ash must be put in a metal container with a sealed lid. The same container must not ever get in touch with flammable materials (for example leant on a wooden floor), because the inner ash keeps burning for a long time.
- Only when the ash has extinguished it can be wasted in the organic waste.
- Pay attention if the flare colours with red shades, if it is faint or if emits black smoke: in this case the burning pot is encrusted and needs to be cleaned (see **Fig. 40 page 29**). If it is worn out it must be replaced.

14.3 COMBUSTION CHAMBER CLEANING



Every week combustion chamber and ash tray cleaning must be executed.



Fig. 44 - Fire pot room cleaning



Fig. 45 - Ash tray room cleaning



Fig. 46 - Upper part cleaning

- Open the door.
- Remove and clean the burning pot and the ash tray.
- Clean through ash suction which has amassed inside the combustion chamber (see **Fig. 44 page 29**) and inside the ash tray room (see **Fig. 45 page 29**).
- Extract also ash in the upper part of the tubes which lye on the combustion chamber (see **Fig. 46 page 29**).

14.4 HOPPER AND AUGER CLEANING



Per each pellets supply, check the probable presence of meal, sawdust and other remains on the hopper bottom. If present, they must be removed with the aid of a vacuum cleaner (see **Fig. 47 page 30**).



Fig. 47 - Hopper and auger cleaning



The hand rejector grid must not ever be removed from its housing. Clean the hopper bottom and the visible part of the auger exclusively as shown in the picture (see **Fig. 47 page 30**).

14.5 FUME CHAMBER CLEANING



Every 4/8 weeks the fume chamber must be cleaned.



Fig. 48 - Fume chamber

- Unfasten the 2 yellow locks (see **Fig. 13 page 15**) and extract half of the insert from its frame.
- Unscrew the 2 fixing screw of the zincate panel for sealing the fume chamber which lays under the insert (see **Fig. 48 page 30**).
- Clean with a suction cleaner the ash which has amassed in the inner.
- After the cleaning repeat the opposite operation checking the integrity and efficiency of the gasket: if necessary have it replaced by an Authorized Technician.

14.6 FUME PIPE CLEANING



Every month the exhaust system must be cleaned.



Fig. 49 - Fume pipe cleaning

- Unfasten the 2 yellow locks (see **Fig. 13 page 15**) and extract half of the insert from its frame.
- Clean the exhaust as shown in **Fig. 49 page 30**.

14.7 EXHAUST FAN CLEANING

The fume extractor must be cleaned once a year from ash or powder which cause a blades unbalance and a higher noisiness.



Fig. 50 - Exhaust fan cleaning: stage 1



Fig. 51 - Stage 2



Fig. 52 - Stage 3

- Follow the procedure as described in **Fig. 50 page 31**, **Fig. 51 page 31** and **Fig. 52 page 31**.

14.8 FUME PASSAGES ANNUAL CLEANING

Clean the fume passages every year.

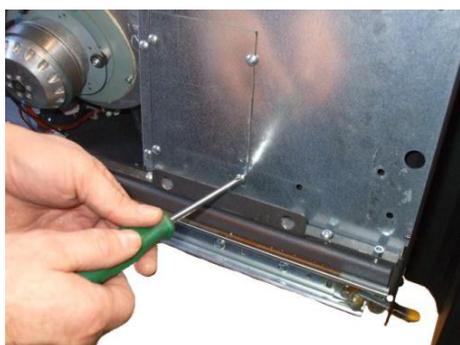


Fig. 53 - 1° panel removal



Fig. 54 - 2° panel removal

- Unscrew the zincated panel which stands at one side of the insert (see **Fig. 53 page 31**).
- Unscrew the other zincated panel (see **Fig. 54 page 31**) and clean its inner properly.

14.9 FUME PIPES ANNUAL CLEANING

Clean once a week from soot with brushes.

The cleaning operation must be executed by a specialized stove-repairer who will provide for the cleaning of fume pipe, chimney flue and chimney pot. He will also check their efficiency and will release a written declaration of the safety of the appliance. This operation must be executed at least once a year.

14.10 GENERAL CLEANING

For cleaning external and inner parts of the stove do not use steel wools, muriatic acid or other corrosive and abrasive materials.

14.11 CLEANING OF PAINTED METAL PANELS

To clean painted metal panels use a soft cloth. Do not use degreasant agents like alcohol, diluents, acetone, gasoline because these could irremediably damage the varnish.

14.12 GASKET REPLACEMENT

In case of deterioration of fire door, hopper or fume chamber gaskets, it is necessary to replace them by an authorized technician in order to guarantee the good running of the stove.



Use exclusively original spare parts.

14.13 GLASS CLEANING

The glass-ceramic of the fire door is able to stand till 700°C but not to thermal shocks. The probable cleaning with usual sale product for glass cleaning must be effected at cool glass in order to avoid explosions.



You should clean the fire door glass every day!

14.14 GLASS REPLACEMENT

In case of break it is essential to replace it before using the stove. For glass replacement please proceed as follows:



Fig. 55 - Screw removal



Fig. 56 - Door profiles removal

- Remove the screws from glassweight profiles (see Fig. 55 page 32).
- Remove upper and lower profiles (see Fig. 56 page 32).
- Take out the damaged glass and replace it only with an original spare part. Please check that the gasket is not damaged and if necessary, have it replaced.
- Reassemble the profiles and screws.

15 IN CASE OF ANOMALY

15.1 ALARMS



Before of every testing and/or intervention by the Authorized Technician, the Authorized Technician must check that the parameters of the mother board correspond to those of the table you own.



In case of doubts regarding the stove running, please always contact the Authorized Technician in order to avoid irreparable damages.

ALARM	CAUSE	SOLUTION	INTERVENTION
AL 1 - BLACK OUT	Black out during ignition step	Clean the fire pot and start the stove up again.	
AL 2 - EXHAUST PROBE	Disconnected fume probe	Have the stove checked.	
	Faulty fume temperature probe	Replace the fume probe.	
AL 3 - HOT EXHAUST	Faulty fume probe	Replace the fume probe.	
	Faulty mother board	Replace the mother board.	
	The ambient exchanger fan does not work	Replace the ambient fan.	
	Pellet loading value too high "stage 5"	Adjust pellet loading	
AL 4 - FAN FAILURE	Fume extractor out of order	The pellet can burn also thank to chimney flue depression without the aid of the extractor. Have the fume extractor immediately replaced. It can be harmful to health to run the stove without extractor.	
AL 5 - NO IGNITION	Empty hopper	Full the hopper.	
	The burning pot has not been cleaned	Clean the burning pot.	
	It has not reached the ignition threshold to the probe	Clean the burning pot and start the stove up again. (If the problem persists please contact an Authorized Technician).	
	Faulty ignition plug	Replace the igniter resistance.	
	Too severe external temperature	Start the stove up again,	
	Humid pellet	Assure you that the pellets are stored in a dry place.	
	Blocked thermal probe	Replace the thermal probe.	
	Faulty mother board	Replace the mother board.	

ALARM	CAUSE	SOLUTION	INTERVENTION
AL 6 - NO PELLET	Empty hopper	Fill the hopper.	
AL 7 - THERMAL SAFETY	Boiler overtemperature	Let the stove cooling. (If the problem persists please contact an Authorized Technician).	
	The ambient exchanger fan does not work	Replace the ambient fan.	
	Temporary blackout	The lack of tension during running implies boiler overheating and manuel reset thermostat intervention. Leave it cooling, reset and start the stove up again.	
	Faulty manual reset thermostat	Replace the manual reset thermostat.	
	Faulty mother board	Replace the mother board.	
AL 8 - FAILURE DEPRESS	Obstructed exhaust	The exhaust chimney is partially or tatally obstructed. Please contact a Specialized Stove-repairer who checks the stove exhaust up to the chimney pot. Please have it immediately cleaned. It can be harmful to health to run the stove with the obstructed chimney.	
	Faulty exhaust fan	The pellets can burn also thank to chimney flue depression without the aid of the exhaust fan. Have the exhaust fan immediately replaced. It can be harmful to health to run the stove without exhaust fan.	
	Obstructed outlet connector	Clean the outlet connector.	
	Faulty pressostat	Clean the pressostat.	
	Faulty mother board	Replace the mother board.	
	Extreme chimney lenght	Contact a Specialized Stove-repairer and check that the exhaust chimney is in accordance with the regulations: see CHIMNEY FLUE page 6.	
	Adverse weather conditions	In case of strong wind there can be a negative pressure to the chimney. Check it and start the stove up again.	
AL 9 - DOOR OPEN	The fire door is not correctly closed	Close the fire door correctly and check if the gaskets are damaged. (In this case have it replaced by an Authorized Technician).	
	Fire door microswitch faulty or out of order	Replace the fire door microswitch.	

15.2 PROBLEM SOLVING



Before of every testing and/or intervention of the Authorized Technician, the Authorized Technician personally has the duty to verify that the parameters of the electronic board meet those of the reference table you own.



In case of doubts regarding the running of the stove please contact ONLY the Authorized Technician in order to avoid irreparable damages!

PROBLEM	CAUSE	SOLUTION	INTERVENTION
Control display does not ignite	Stove without power supply	Check if the plug is put in the socket.	
	Burned board protection fuse	Replace the board protection fuse (4A-250V).	
	Faulty control display	Replace the control display.	
	Faulty flat cable	Replace the flat cable.	
	Faulty mother board	Replace the mother board.	
Pellet does not reach the combustion chamber	Empty hopper	Fill the hopper.	
	Auger blocked by a foreign object (for example nails)	Clean the auger.	
	Auger motorreducer out of order	Replace the motorreducer.	
	Check on the display if there is an active alarm "ACTIVE ALARM"	Have the stove overhauled.	

PROBLEM	CAUSE	SOLUTION	INTERVENTION
Fire extinguishes and stove stalls	Empty hopper	Fill the hopper.	
	Auger blocked by a foreign object (for example nails)	Clean the auger.	
	Poor quality pellet	Try with other pellet types.	
	Pellet loading value too low "phase 1"	Adjust pellet load.	
	Check if there is an active alarm "ACTIVE ALARM"	Have the stove overhauled.	
Running stove and display showing "FIRE POT CLEANING"	Automatic burning pot cleaning	At idling stove and at maximum fume suction NO PROBLEM!	
Flames are weak and orange, pellet does not burn properly and the glass blackens	Insufficient combustion air	Check the following inscription: probable obstructions for combustion air inlet from the stove back or bottom; obstructed holes of the burning pot grid and/or burning pot with too ash. Have the fan blades and its screw cleaned.	
	Obstructed exhaust	The exhaust chimney is partly or fully obstructed. Contact an expert stove-repairer to check the exhaust up to the chimney pot. Please clean it immediately.	
	Obstructed stove	Clean the stove inner.	
	Exhaust fan out of order	Pellet can burn also thank to chimney flue depression without exhaust fan. Have the exhaust fan replaced immediately. It can be harmful to health to run the stove without fume exhaust fan.	
Heat exchanger fan keeps turning even when the stove has cooled	Faulty fume temperature probe	Replace the fume probe.	
	Faulty mother board	Replace the mother board.	
Ash nearby the stove	Faulty or broken door gaskets	Replace the gaskets.	
	Fume pipes not sealed	Contact an Authorized Stove-repairer who will seal the gaskets with silicone at high temperature and/or will replace the pipes with others in compliance with current regulations. A not sealed fume outlet can cause damages to health.	
Stove running and display showing "WORK MODULATI"	Room temperature reached	Stove idling. NO PROBLEM!	
Stove running and display showing "HOT FUME"	Fume outlet limit temperature reached	Stove idling. NO PROBLEM!	

16 TECHNICAL DATAS



16.1 REPAIR INFORMATION

Now we give some instructions for the Authorized Technician to take into consideration to have access to stove mechanical components.



Fig. 57 - Retainers



Fig. 58 - Insert extraction

- Keeping pressed the yellow hooks downwards (see Fig. 57 page 37) extract the insert rolling it on its rails (see Fig. 58 page 37).



Fig. 59 - Unnscrew casing screws



Fig. 60 - Casing removal

- Unscrew the protection casing (see Fig. 59 page 37) and pull out the casing upwards (see Fig. 60 page 37).

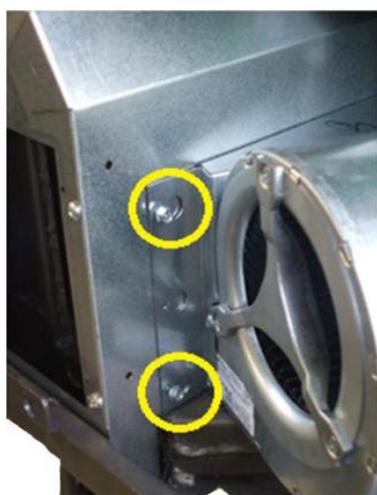


Fig. 61 - Fan blocking screws



Fig. 62 - Fan removal

- Unscrew the 2 fan blocking screws (see Fig. 61 page 37) and extract the fan following the arrow way (see

Fig. 62 page 37).

- After the preceding operations it is possible to have access to silconic pressostat tube, motor reducer and ignition plug.
- For replacement and/or loading auger cleaning it is necessary to unscrew the three bolts of the motor reducer and extract it, then unscrew the two screws which find under the auger motor reducer and at the end unscrew also the two inner auger bolts.



Fig. 63 - Fuse removal into the electric socket



Fig. 64 - Fuse replacement

- For electric socket fuse replacement which stands under the insert, push with the aid of a screwdriver into the shutter (see **Fig. 63 page 38**) and extract the shutter and the fuse to replace (see **Fig. 64 page 38**).

16.2 FEATURES

DESCRIPTION	EOLO	COMFORT 80	HORIZON PLUS
WIDTH	79,6 cm	79,6 cm	79,6 cm
DEPTH	60,1 cm	60,1 cm	60,1 cm
HEIGHT	55,5 cm	55,5 cm	55,5 cm
WEIGHT	144 kg	144 kg	147 kg
INTRODUCED THERMIC POWER (Min/Max)	3,1 - 8,9 kW	3,1 - 8,9 kW	3,1 - 10 kW
NOMINAL THERMIC POWER (Min/Max)	2,8 - 8 kW	2,8 - 8 kW	2,8 - 9 kW
EFICIENCY (Min/Max)	88,5 - 88 %	88,5 - 88 %	88,5 - 88,5 %
FUME TEMPERATURE (Min/Max)	89 - 157 °C	89 - 157 °C	89 - 162 °C
FUME MAXIMUM LOADING CAPACITY (Min/Max)	4,5 - 7,6 g/s	4,5 - 7,6 g/s	4,5 - 7,4 g/s
CO EMISSIONS (13% O ₂) (Min/Max)	0,019 - 0,011 %	0,019 - 0,011 %	0,019 - 0,018 %
OGC EMISSIONS (13% O ₂) (Min/Max)	3 - 20 mg/Nm ³	3 - 20 mg/Nm ³	3 - 19 mg/Nm ³
NO _x EMISSIONS (13% O ₂) (Min/Max)	105 mg/Nm ³	105 mg/Nm ³	101 mg/Nm ³
Medium CO CONTENTS at 13% O ₂ (Min/Max)	236 - 139 mg/Nm ³	236 - 139 mg/Nm ³	236 - 222 mg/Nm ³
Medium POWDER CONTENTS at 13% O ₂ (Max)	20 mg/Nm ³	20 mg/Nm ³	19 mg/Nm ³
CHIMNEY DEPRESSION (Max)	12 Pa	12 Pa	12 Pa
ON SHARED CHIMNEY FLUE	NO	NO	NO
FUME OUTLET DIAMETER	Ø80 mm	Ø80 mm	Ø80 mm
COMBUSTIBLE	Pellet Ø6-7 mm	Pellet Ø6-7 mm	Pellet Ø6-7 mm
PELLETS HEATING VALUE	5 kWh/kg	5 kWh/kg	5 kWh/kg
PELLETS HUMIDITY	≤ 10%	≤ 10%	≤ 10%
HEATING VOLUME 18/20°C Coeff. 0,045 kW (Min/Max)	67,2 - 192 m ³	67,2 - 192 m ³	67,2 - 216 m ³
HOURLY CONSUMPTION (Min/Max)	0,7 - 2,1 kg/h	0,7 - 2,1 kg/h	0,7 - 2,3 kg/h
HOPPER CAPACITY	8 kg	8 kg	8 kg
HOPPER CAPACITY + FILL OPENING (Min)	12 kg	12 kg	12 kg
RANGE (Min/Max)	11 - 3,8 h	11 - 3,8 h	11 - 3,4 h
SUPPLY	230 V - 50 Hz	230 V - 50 Hz	230 V - 50 Hz
POWER INPUT (Max)	372 W	372 W	372 W
IGNITER RESISTANCE POWER INPUT	300 W	300 W	300 W
MINIMUM EXTERNAL AIR INLET (last effective area)	80 cm ²	80 cm ²	80 cm ²
STOVE WITH SEALED CHAMBER	NO	NO	NO
EXTERNAL AIR INLET FOR SEALED CHAMBER	-	-	-
DISTANCE FROM COMBUSTIBLE MATERIAL (rear/sides/floor)	190 / 240 / 200 mm	190 / 240 / 200 mm	190 / 240 / 200 mm
DISTANCE FROM COMBUSTIBLE MATERIAL (ceiling/front)	- / 1000 mm	- / 1000 mm	- / 1000 mm

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