

EN

PELLET STOVE

INSTALLATION, USE AND MAINTENANCE MANUAL



BISTROT³ - BISTROT³ LOUNGE



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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 rejector and DO NOT touch the auger. Please contact the Technical Assistance service.
- 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

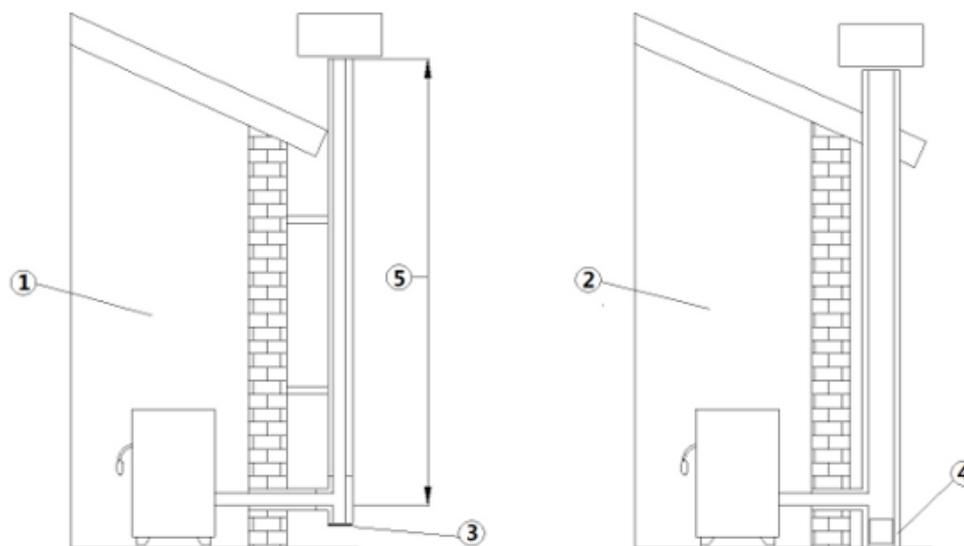


Fig. 1 - Chimney Flues

LEGEND Fig. 1 a pag. 7

1	Chimney flue with insulated stainless-steel pipes
2	Chimney flue on the existing chimney
3	Inspection plug
4	Inspection door
5	$\geq 3,5$ 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 a pag. 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

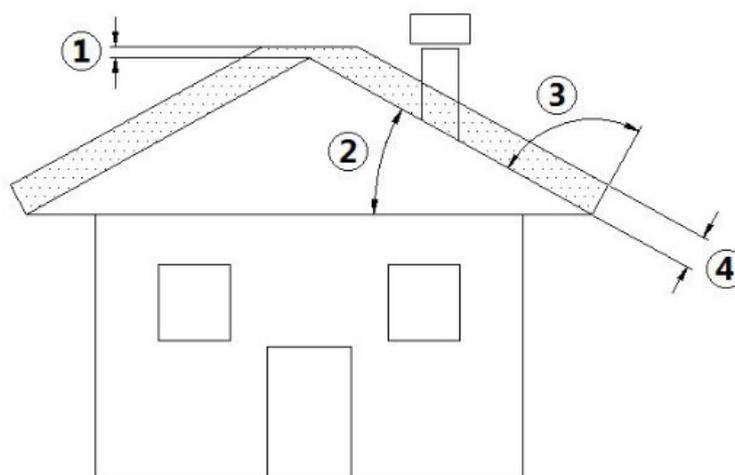


Fig. 2 - Inclined roof

LEGEND Fig. 2 a pag. 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 a pag. 44**. 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

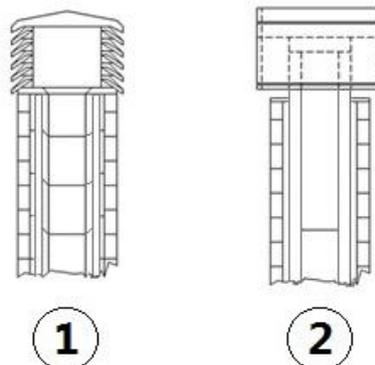


Fig. 4 - Anti-wind chimney pots

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

- We recommend using an anti-wind chimney pot, see **Fig. 4 a pag. 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 a pag. 7**).

9.7 CHIMNEY COMPONENTS

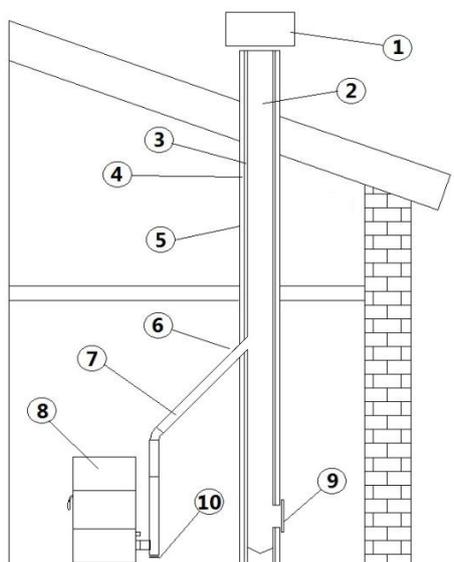


Fig. 5 - Chimney components

LEGEND Fig. 5 a pag. 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

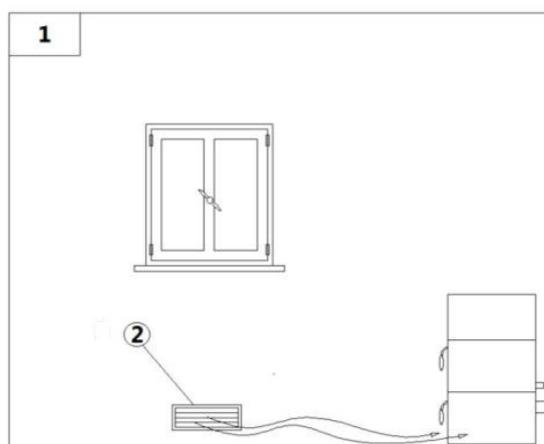


Fig. 6 - Direct air inflow

LEGEND Fig. 6 a pag. 9

1	Room to ventilate
2	External air inlet

- The room must be endowed with an external air recycling for a good climate in your ambient.
- The air inflow from outside to the inner occurs directly, through an opening on the external wall of the room

(see Fig. 6 a pag. 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 (EN 13384).
- 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.
- **In case of installation with sealed-chamber the air inlet is not necessary.**

9.9 COMBUSTIBLE AIR INLET FOR SEALED-CHAMBER INSTALLATION

Check **FEATURES a pag. 44** if the purchased stove has a sealed-chamber. If the stove is endowed with a sealed-chamber and you want also the whole installation with sealed chamber, please read the following instructions:

- It is necessary to extract the air for combustion directly from outside.
- Use a tube with minimum Ø60 mm and maximum 2 meters length; to connect see the back of the stove.
- French standards require installation in double-walled flues (concentric system). The combustion air is drawn from the cavity.
- During installation step is necessary to verify the minimum distances required for the combustible air inlet as (for example) an open door or window causes a vortex which could remove the combustible air necessary to the stove (see the underlying scheme).
- On the external wall it is necessary to install a curve at 90° to protect the combustible air inflow from wind effects: turn the curve inlet downwards, see **Fig. 7 a pag. 10**.
- Endow the curve with an external shield grid against birds in such a way that it cannot be obstructed by any object.



Check with your local authorities if exists any restrictive regulation regarding the combustible air inlet: if present, they must be applied



In some countries and/or regions the installation with sealed-chamber is obligatory: in case of doubt, please follow the most restrictive regulations.

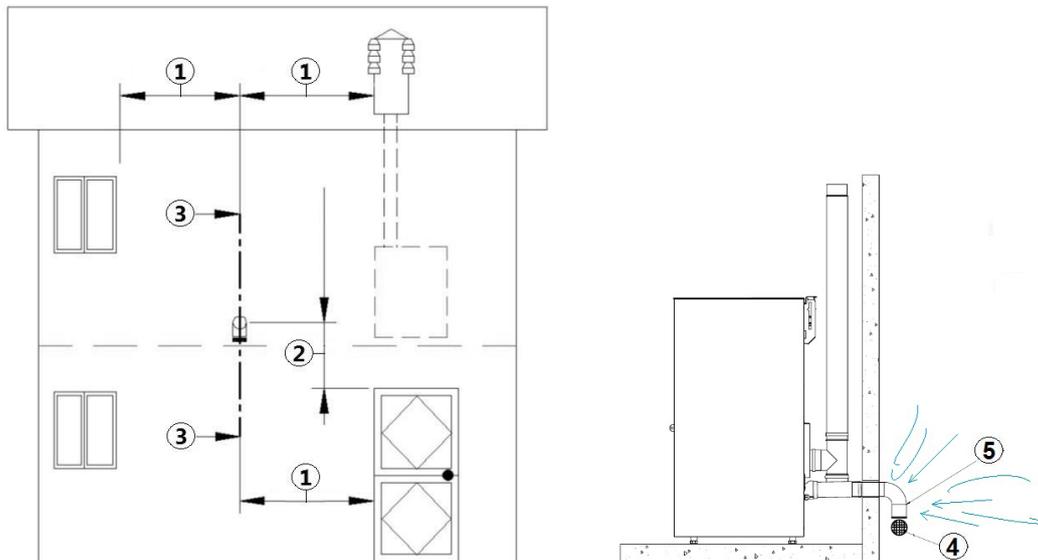


Fig. 7 - Air inlet for sealed-chamber installation

LEGEND	Fig. 7 a pag. 10
1	≥ 1,5 mt
2	≥ 0,3 mt
3-3	Sectional view
4	Shield grid
5	Curve inlet to turn downwards

- Insert the N fitting on the I air intake pipe
- Connect N with Q using a flexible or stiff tube with a diameter of 60 mm and a maximum length of 2 metres (see Fig. 8 a pag. 11).

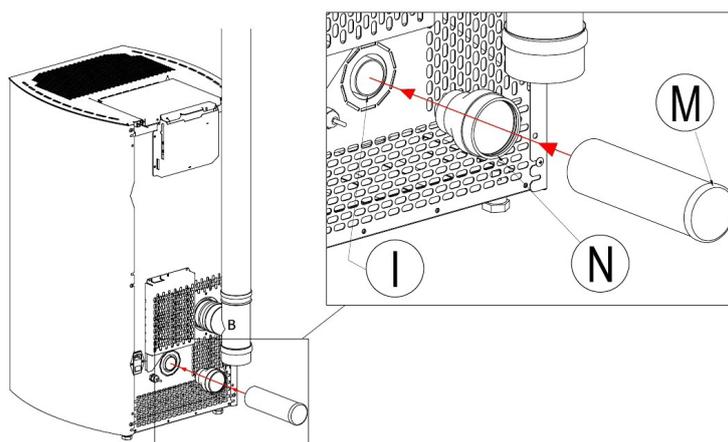


Fig. 8 - Connections

How to connect to the stove in the sealed chamber with concentric system:

- Insert the N fitting into the I air intake pipe (see Fig. 9 a pag. 11 and Fig. 10 a pag. 11). Connect N to Q using a flexible tube which can resist a temperature of 100°C (a flexible aluminium tube is recommended).
- Maximum height for the installation of a vertical exhaust flue (roof) HV = 6 mt (see Fig. 11 a pag. 11).
- Maximum height for the installation of a horizontal exhaust flue (wall) HO = 2.6 mt (see Fig. 11 a pag. 11).

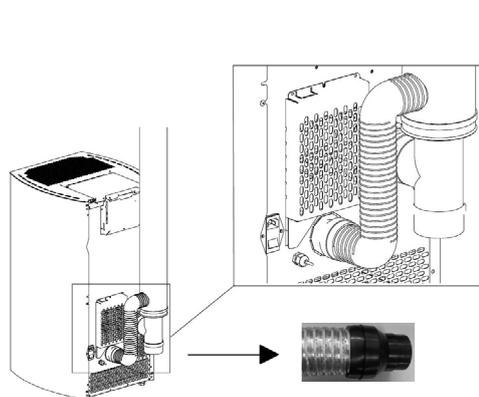


Fig. 9 - Flexible tube

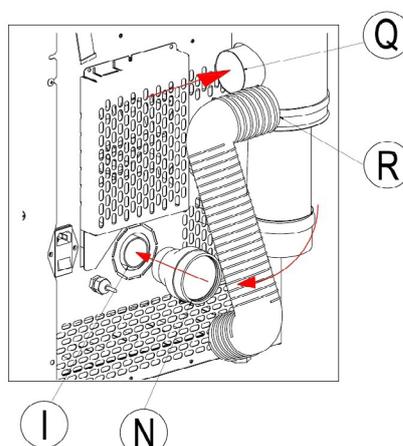


Fig. 10 - Connections

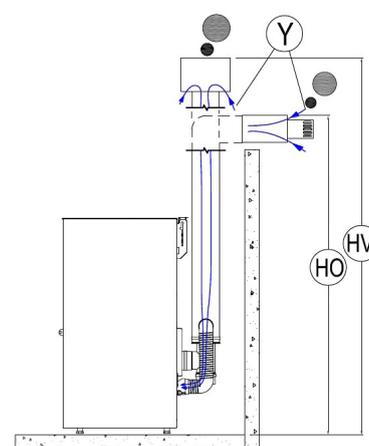


Fig. 11 - Flue connections

LEGEND Fig. 10 a pag. 11 - Fig. 11 a pag. 11

I	Combustion air intake with a diameter of 40 mm
N	Rubber fitting with a diameter of 40/60 mm
R	Flexible aluminium tube
Q	Coaxial pipe air combustion connection
Y	Coaxial pipe air combustion intake
HO	Height of coaxial flue with wall/horizontal exhaust
HV	Height of coaxial flue with roof/vertical exhaust

9.10 COMBUSTION AIR CONNECTION



Fig. 12 - Cap removal



Fig. 13 - Pipe connection

- Remove the rear cap: cut the micro joints of the inspection casing (see Fig. 12 a pag. 12).
- Connect the combustion air pipe (see Fig. 13 a pag. 12).

9.11 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 (\varnothing 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	\varnothing 80 mm PIPE	\varnothing 100 mm PIPE
Minimum vertical length	1,5 mt	2 mt
Maximum length (with 1 union)	6,5 mt	10 mt
Maximum length (with 3 unions)	4,5 mt	8 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 \varnothing 80 mm or \varnothing 100 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 $> 90^\circ$) 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.
- It is forbidden to exhaust flue gases directly from the wall towards the outside and closed spaces also at open top.
- The fume conduit must be placed at a distance of minimum 500 mm from flammable or heat-susceptible components.
- 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.

9.12 EXAMPLES OF CORRECT INSTALLATION

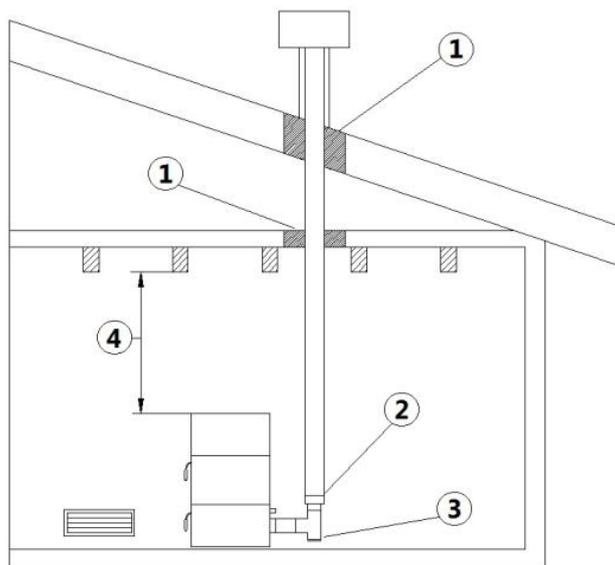


Fig. 14 - Example 1

LEGEND Fig. 14 a pag. 13

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

- Chimney flue installation $\text{Ø}100/120$ mm with an enlarged drilling for pipe transit.

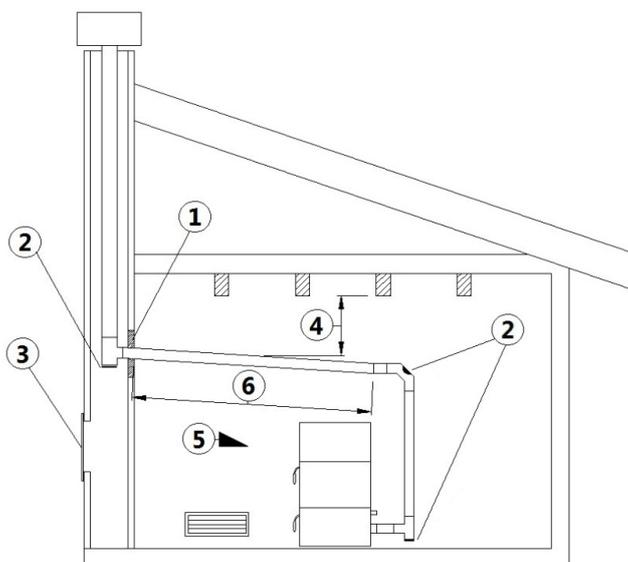


Fig. 15 - Example 2

LEGEND Fig. 15 a pag. 13

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 $\text{Ø}100/120$ mm and with an external door which enables the chimney cleaning.

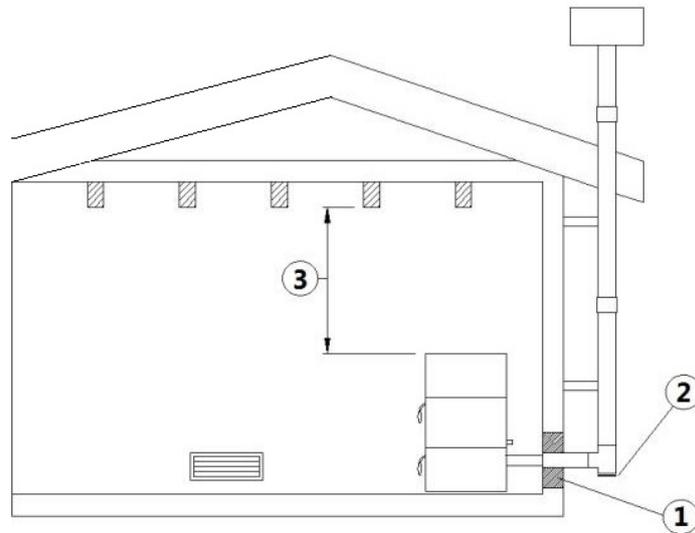


Fig. 16 - Example 3

LEGEND	Fig. 16 a pag. 14
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 $\text{Ø}100/120$ mm: all must be firmly attached to the wall. For chimney against wind effects please (see Fig. 4 a pag. 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 $\text{Ø}6-7\text{mm}$ (D06 Class), maximum lenght 40 mm, calorific value 5kWh/kg, humidity $\leq 10\%$, ash remains $\leq 0,7\%$, 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.



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 (see **ELECTRIC CONNECTION** a pag. 25).
- To install more appliances, the external air inlet must be correctly dimensioned (see **FEATURES** a pag. 44).

11.2 OVERALL DIMENSIONS

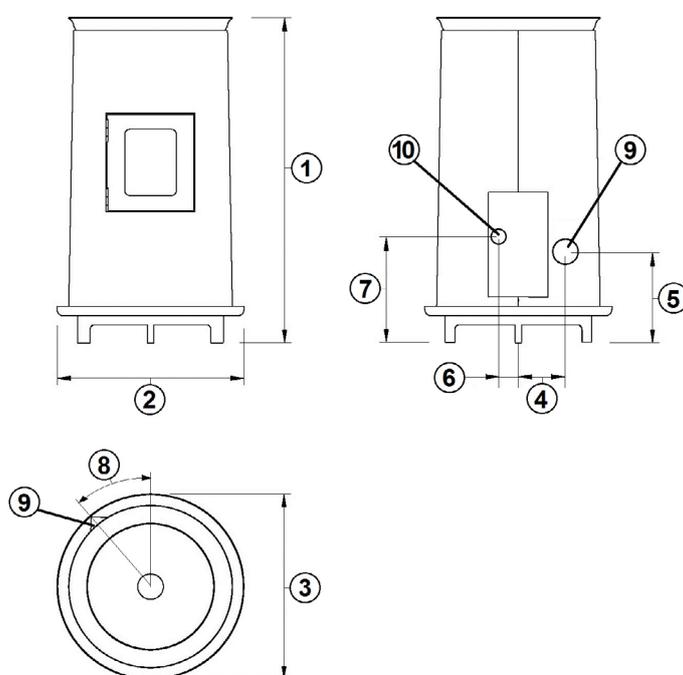


Fig. 17 - General dimensions: Bistrot³

LEGEND	Fig. 17 a pag. 15
1	101,7 cm
2	58 cm
3	58 cm
4	19,6 cm
5	28 cm
6	4,4 cm
7	31,3 cm
8	45°
9	Exhaust fumes d.8 cm
10	Hole combustion air inlet d.4 cm

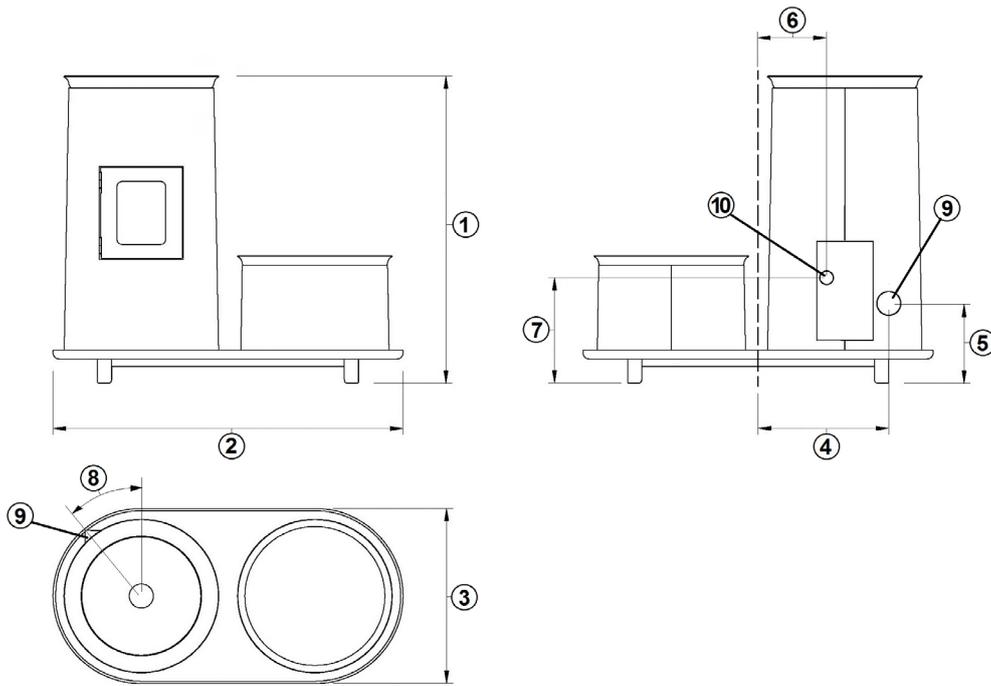


Fig. 18 - General dimensions: Bistrot³ Lounge

LEGEND	Fig. 18 a pag. 16
1	101,7 cm
2	115 cm
3	58 cm
4	48 cm
5	28 cm
6	24 cm
7	31,3 cm
8	45°
9	Exhaust fumes d.8 cm
10	Hole combustion air inlet d.4 cm

11.3 GENERAL INSTALLATION

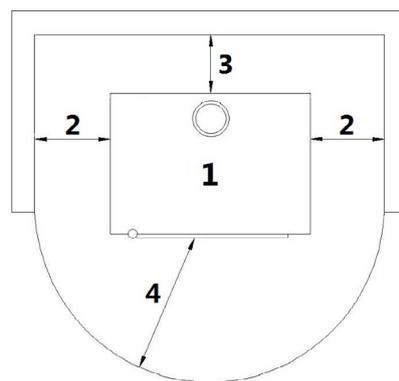


Fig. 19 - General installation

LEGEND	Fig. 19 a pag. 16
1	Stove
2	Minimum lateral distance = 300 mm
3	Minimum rear distance = 200 mm
4	Minimum front distance = 1000 mm

It is obligatory to install the stove away from walls and/or pieces of furniture, with a minimum air flow of 300 mm on the sides and 200 mm on the back, to enable an efficient appliance cooling and a good distribution of heat in the room (see Fig. 19 a pag. 16).
 If the walls are made up of flammable materials, check the safety distances (see Fig. 19 a pag. 16).

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 FIRE DOOR PROTECTION REMOVAL



Before turning on the stove, remove the fire door protection for maintenance.



Fig. 20 - Remove the protection

- Open the outer door and remove the protection (see Fig. 20 a pag. 17).



DO NOT TURN THE STOVE ON WITH THE DOOR PROTECTION ON!

11.5 DRUM REMOVAL



It is advisable to perform this operation with the help of a second person.

To remove the drum, do the following:



Fig. 21 - Stove



Fig. 22 - Screw removal

- Remove the cardboard that covers the stove (see Fig. 21 a pag. 17).
- Unscrew 2 screws from the cover clamping bracket (see Fig. 22 a pag. 17).



Fig. 23 - Cover removal



Fig. 24 - Elbow removal

- Remove the cover (see **Fig. 23 a pag. 18**).
- Remove the flue gas outlet elbow located at the back of the stove (see **Fig. 24 a pag. 18**).



Fig. 25 - Casing removal



Fig. 26 - Adapter removal

- Remove the rear casing (see **Fig. 25 a pag. 18**).
- Remove the rear adapter (see **Fig. 26 a pag. 18**).



Fig. 27 - Door removal

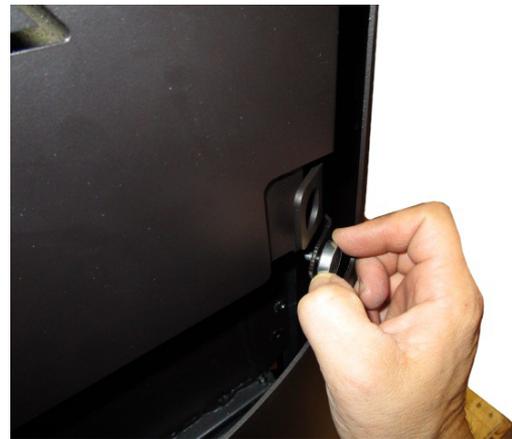


Fig. 28 - Screw on magnet

- Carefully remove the outer door, taking care not to damage the paint (see **Fig. 27 a pag. 18**).
- Screw on the magnet to align the outer door (see **Fig. 28 a pag. 18**).



Fig. 29 - Remove screws



Fig. 30 - Screws M6x20

- From the bottom, unscrew 4 M6 x20 screws (see **Fig. 29 a pag. 19** and **Fig. 30 a pag. 19**).



Fig. 31 - Front grip



Fig. 32 - Rear grip

- Grip the drum as shown in the figures below **Fig. 31 a pag. 19** and **Fig. 32 a pag. 19**.



Fig. 33 - Pull the drum off



Fig. 34 - Bracket removal

Pull the drum off as in **Fig. 33 a pag. 19** (possibly with the help of a second person for this operation). Remove the clamping brackets from the pallet (see **Fig. 34 a pag. 19**) and set the stove on the ground.

11.6 IRON BASE ASSEMBLY (BISTROT³ MODEL)



To assemble the base, proceed as follows:



Fig. 35 - Screws TB 4x12 mm

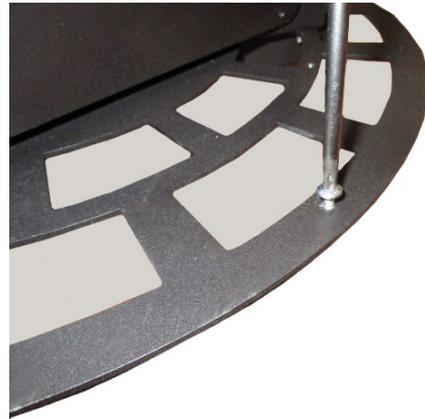


Fig. 36 - Screw removal



Fig. 37 - Base fitting

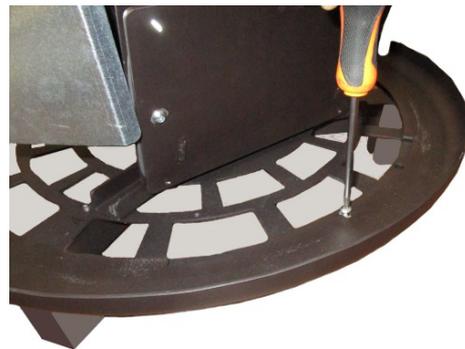


Fig. 38 - Screw tightening

- Remove the drum (see **DRUM REMOVAL** a pag. 17).
- Unscrew the 3 screws TB 4x12 mm (see **Fig. 35 a pag. 20**) from the stove base (see **Fig. 36 a pag. 20**).
- Fit on the metal base from the top of the stove and push it all the way down to the feet (see **Fig. 37 a pag. 20**).
- Put the 3 screws back in place and secure the metal base (see **Fig. 38 a pag. 20**).

11.7 WOOD BASE ASSEMBLY (BISTROT³ MODEL)



To assemble the base, proceed as follows:



Fig. 39 - Screws TB 4x12 mm

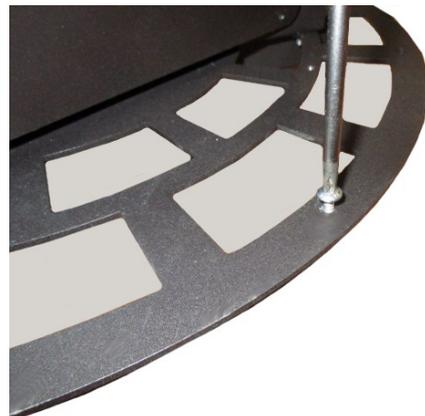


Fig. 40 - Screw removal



Fig. 41 - Base fitting



Fig. 42 - Screw tightening



Fig. 43 - Wood feet



Fig. 44 - Feet fastening

- Remove the drum (see **DRUM REMOVAL** a pag. 17).
- Unscrew the 3 screws TB 4x12 mm (see **Fig. 39 a pag. 20**) from the stove base (see **Fig. 40 a pag. 20**).
- Fit on the wood base from the top of the stove and push it all the way down to the feet (see **Fig. 41 a pag. 21**).
- Put the 3 screws back in place and secure the wood base (see **Fig. 42 a pag. 21**).
- Secure the relative wooden feet covers to the stove feet (see **Fig. 43 a pag. 21** and **Fig. 44 a pag. 21**).



11.8 WOOD BENCH ASSEMBLY (BISTROT³ LOUNGE MODEL)

To assemble the bench, proceed as follows:



Fig. 45 - Lay the stove down

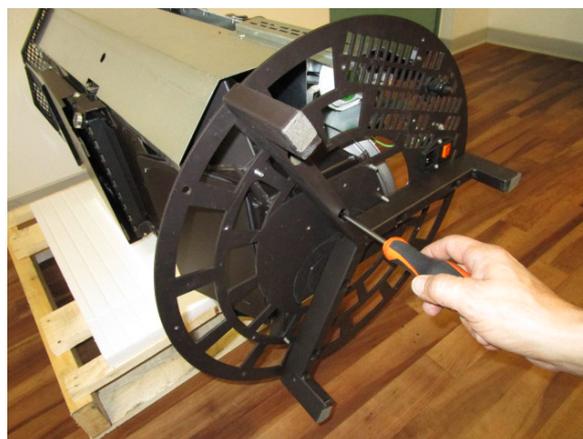


Fig. 46 - Remove screws

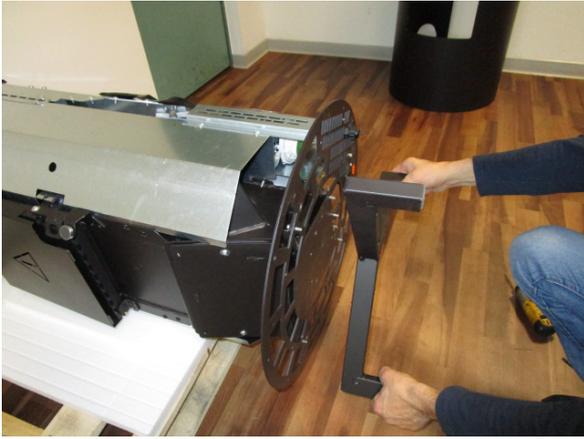


Fig. 47 - Remove the three-legged stand



Fig. 48 - Secure the bench pedestal

- Remove the drum (see **DRUM REMOVAL** a pag. 17).
- Set the stove on its side on the pallet and on the styrofoam (see **Fig. 45** a pag. 21).
- Loosen the 6 M6 screws (see **Fig. 46** a pag. 21) and remove the three-legged stand (see **Fig. 47** a pag. 22).
- Screw on the relative three-legged stand for the bench using the 6 M6 screws (see **Fig. 48** a pag. 22).



Fig. 49 - Stand the stove up



Fig. 50 - Screw removal



Fig. 51 - Bench fitting



Fig. 52 - Attach bench

- Stand the stove up (see **Fig. 49** a pag. 22),
- Unscrew the 3 screws TB 4x12 mm from the stove base (see **Fig. 50** a pag. 22).
- Fit on the wood base from the top of the stove and push it all the way down to the feet (see **Fig. 51** a pag. 22).
- Put the 3 screws back in place and secure the wood base (see **Fig. 52** a pag. 22).



Fig. 53 - Attach bench



Fig. 54 - Euro screws



Fig. 55 - Wood feet



Fig. 56 - Feet fastening

- Lifting the bench up on one side, attach the three-legged stand on the other side as well (see **Fig. 53 a pag. 23**) with 4 Euro screws (see **Fig. 54 a pag. 23**).
- Secure the relative wooden feet covers to the stove feet (see **Fig. 55 a pag. 23** and **Fig. 56 a pag. 23**).

11.9 POUF ASSEMBLY (BISTROT³ LOUNGE MODEL)



To assemble the pouf, proceed as follows:

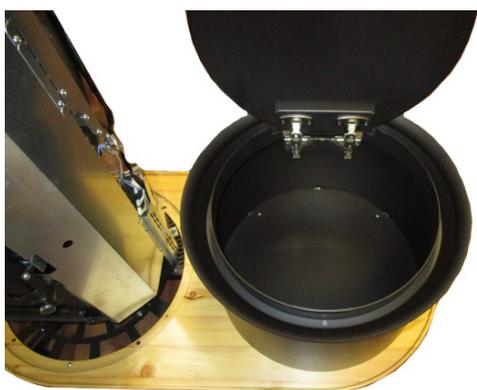


Fig. 57 - Positioning the pouf

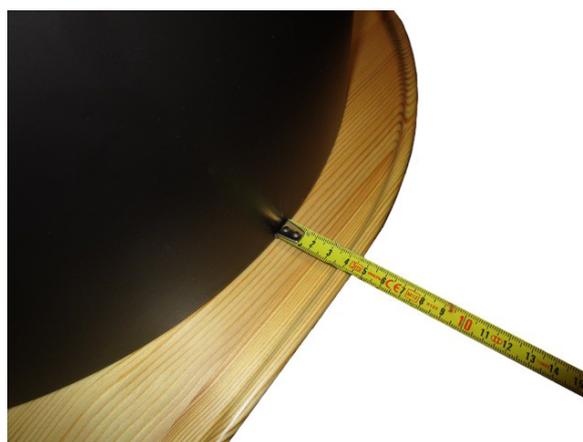


Fig. 58 - Correct positioning

- Stand the pouf on the bench (see **Fig. 57 a pag. 23**).
- Place the pouf at a distance of 37 mm from the inner edge of the bench (see **Fig. 58 a pag. 23**).



Fig. 59 - Pouf fastening



Fig. 60 - Screws TB 4x16 mm

- Attach the pouf to the bench (see Fig. 59 a pag. 24) with 4 screws TB 4 x16 mm (see Fig. 60 a pag. 24).

11.10 STOVE COVER AND POUF COVER ADJUSTMENT (BISTROT³ / BISTROT³ LOUNGE MODEL)



To make the adjustments proceed as follows:

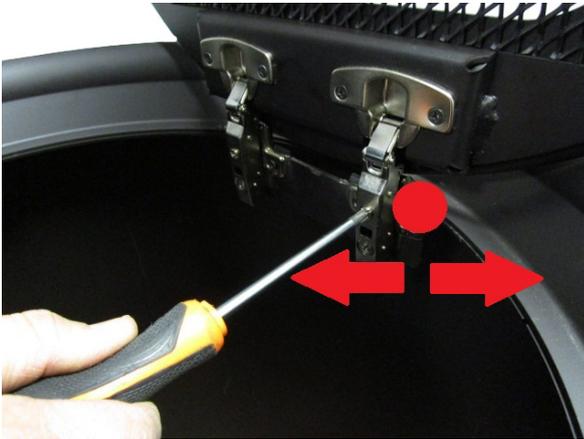


Fig. 61 - Centring adjustment

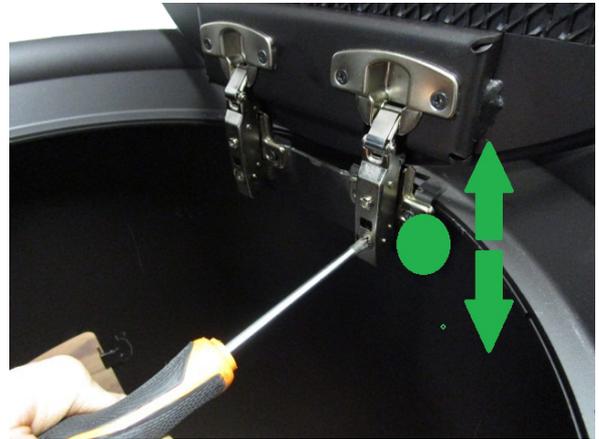


Fig. 62 - Height adjustment



Fig. 63 - Stove cover adjustment

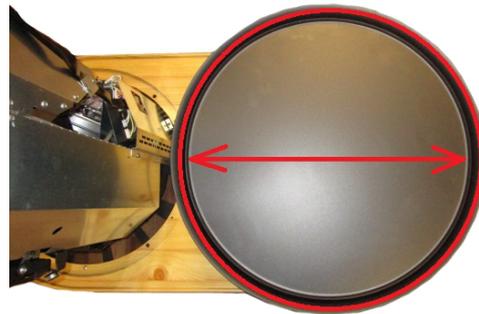


Fig. 64 - Pouf cover adjustment

- With the top screws you can centre the cover with the edge (see Fig. 61 a pag. 24).
- With the bottom screws you can raise or lower the cover to align it with the edge of the frame (see Fig. 62 a pag. 24).
- Centre the stove cover with the edge (see Fig. 63 a pag. 24).
- Centre the pouf cover with the edge (see Fig. 64 a pag. 24).

11.11 SUMMER COVER (OPTIONAL)



During the summer it is possible to close the stove's top ventilation grid.



Fig. 65 - Summer cover

- Place the summer cover on the top opening (see **Fig. 65 a pag. 25**).



DO NOT TURN THE STOVE ON WITH THE COVER CLOSED!



11.12 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.

Connect the wires from the external thermostat to the "Term opt" terminal on the N100 stove board. Activate the external thermostat (default setting OFF) as indicated below:

- Press the "menu" button.
- Scroll with the arrows to "Settings".
- Select by pressing "menu".
- Scroll with the arrows again to "Ext.Thermostat".
- Select by pressing "menu".
- Press the - + buttons.
- To activate the external thermostat select "on".
- Press the "menu" button to confirm.



11.13 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 datas table (see **FEATURES a pag. 44**).
- 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 (see **Fig. 66 a pag. 25**) and then at a wall electric socket.



Fig. 66 - Electric socket with master switch

- The master switch O/I (see **Fig. 66 a pag. 25**) is to open only to switch the stove on, otherwise it is advisable to keep it off.

- 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 is advisable to remove the plug from the socket on the wall.

11.14 STOVE CALIBRATION AND DEPRESSION MEASUREMENT

This stove has a pickup point positioned on the tank in order to measure the depression of the combustion chamber and verify its proper operation.

To do this, proceed as follows:

- Remove inspection casing "C" from the back of the stove (see Fig. 67 a pag. 26).
- Loosen nut "D" from the bottom of the tank, near the pressure switch.
- Connect a digital pressure switch with a tube to detect the depression (see Fig. 68 a pag. 26).
- Load the feed screw via appropriate function.
- Start the stove and set "Fire" at power 1 (the start of this stove lasts from 8 to 10 minutes to ensure minimum draught).
- Compare the read values with those on the table.
- Change power every 10 minutes and wait for it to stabilise.
- Access the user menu and, if necessary, change the parameters.



Fig. 67 - Casing removal



Fig. 68 - Digital pressure switch connection

DATA	P1	P2	P3	P4	P5
Stove depression - temperature 6,5 kW	25 Pa - 90°C	34 Pa - 130°C	41 Pa - 153°C	54 Pa - 180°C	60 Pa - 200°C

NB: for good combustion, the depression values must be between + -5 Pa and the temperature values between + - 10°C.

12 USE

12.1 INTRODUCTION

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

- The lightning 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 DISPLAY

Menu items.

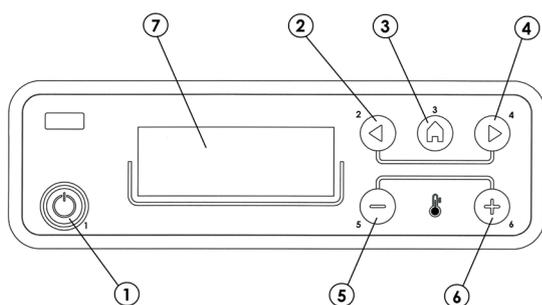


Fig. 69 - Display

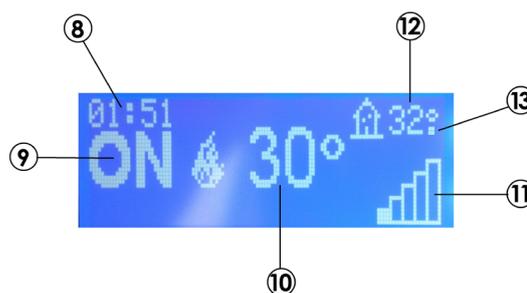


Fig. 70 - Display

LEGEND Fig. 69 a pag. 27 - Fig. 70 a pag. 27

1	Boiler lighting/shutdown (ESC)
2	Scrolling of programming menu to decrease
3	Menu
4	Scrolling of programming menu to increase
5	Decrease set temperature/programming functions
6	Increase set temperature/programming functions
7	Display
8	Time
9	Status
10	Temperature set by user
11	Instant power
12	Ambient temperature
13	If there is "." = 0.5 °C (29.° = 29.5°)

12.3 MAIN MENU

It is accessed by pressing key 3 (menu). The items that are accessed are:

- Time and Date
- Timer
- Sleep (only with the stove on)
- Settings
- Info

Date and time setting; To set the date and time act as follows:

- Press the "menu" button.
- Select "Time and Date".
- Select by pressing "menu"
- Scroll with the arrows and select the variables to be modified one at a time: Day, Hours, Minutes, Day number, Month, Year.
- Select "menu" to confirm.
- Modify with the + - keys.
- Finally press "menu" to confirm and "esc" to exit.

Timer setting (see relative chapter)

Sleep setting (see relative chapter)

12.4 SETTINGS MENU

The SETTINGS menu allows to act on the boiler operating mode:

- a - Language
- b - Cleaning (displayed only when the boiler is switched off)
- c - Screw Loading (displayed only when the boiler is switched off)
- d - Tone
- e - Ext.Thermostat (activation)
- f - Auto-Eco (activation)
- g - Off Time Eco (default 5 minutes)
- h - Pellet Recipe
- i - Smoke Fan rpm
- j - Components Test (displayed only when the boiler is switched off)
- k - Chimney Sweep Function (activated only when the boiler is switched on, for field emissions test)
- l - Technical Menu

a - Language

To select the language act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Language" using the arrows.
- Press "menu" to confirm.
- With the + - keys select the language of interest (IT/EN/DE/FR/ES/NL/PL/DA/SL)
- Press "menu" to confirm and "esc" to exit.

b - Cleaning

To select "Cleaning" (only when the boiler is switched off) act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Cleaning" using the arrows.
- Press "menu" to confirm.
- Select "On" with the + - keys.
- Press "menu" to confirm and "esc" to exit.

c - Screw Loading

To select "Screw loading" (only when the boiler is switched off) act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Screw loading" using the arrows.
- Press "menu" to confirm.
- Select "Enabled" with the + - keys.
- Press "menu" to confirm and "esc" to exit.

d - Tone

This function is disabled by default, so to enable act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Tone" using the arrows.
- Press "menu" to confirm.
- Select "On" with the + - keys.
- Press "menu" to confirm and "esc" to exit.

e - Ext.Thermostat (see relative chapter)**f - Auto-Eco activation**

To select the Auto-Eco function act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Auto-Eco activation" using the arrows.
- Press "menu" to confirm.
- Select "On" with the + - keys.
- Press "menu" to confirm and "esc" to exit.

g - Off Time Eco

To select the Off Time Eco function act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Off Time Eco" using the arrows.
- Press "menu" to confirm.
- Enter the minutes with the + - keys.
- Press "menu" to confirm and "esc" to exit.

h - Pellet Recipe

To change the recipe act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Pellet Recipe" using the arrows.
- Press "menu" to confirm.
- Modify the % with the + - keys.
- Press "menu" to confirm and "esc" to exit

i - Smoke Fan rpm

To change the parameter act as follows:

- Press the "menu" button.

- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Smoke Fan rpm" using the arrows.
- Press "menu" to confirm.
- Modify the % with the + - keys.
- Press "menu" to confirm and "esc" to exit

j - Components Test

To activate the "Components Test" function (only when the boiler is switched off) act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Components Test" using the arrows.
- Press "menu" to confirm.
- Select the test to be performed with the + - keys
- Press "menu" to confirm and "esc" to exit

k - "Chimney Sweep Function"

To activate the "Chimney Sweep Function" function act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to the "Chimney Sweep Function" function using the arrows.
- Press "menu" to confirm.
- Select "On" with the + - keys (Off by default)
- Press "menu" to confirm and "esc" to exit

l - Technical Menu

To access the technical menu one must contact an assistance centre as one needs a password to enter.

To intervene on the "Technical Menu" act as follows:

- Press the "menu" button.
- Scroll to "Settings" using the arrows
- Press "menu" to confirm.
- Scroll to "Technical Menu" using the arrows.
- Press "menu" to confirm.
- Select "Product Type", "Service", "Status Memory", "Parameters" with the + - keys.
- Press "menu" to confirm and "esc" to exit

12.5 INFO MENU

- Product Type
- Firmware Version
- Software info
- Total hrs.
- Ignition N.
- Rpm Smoke Fan
- Smoke Temp.
- Air Fan Voltage
- Screw Loading
- Fire

12.6 START UP

We remind you that the first ignition must be carried out by a specialized and authorized technician who will check that all is installed in compliance with current regulations and checks the efficiency.

- If inside the combustion chamber there are booklets, manuals, etc..., remove them.
- Check if the door is correctly closed.
- Check if the stove is correctly inserted in the electric socket.
- Before switching the stove on, assure you the burning pot is clean.
- To start the stove, keep the P1 button pressed until the ON sign and a flashing flame to its side appear. The ignition resistance pre-heating starts. After some seconds the feed screw loads pellets and the resistance pre-heating continues. When the temperature is high enough (after about 5-8 minutes), ignition is considered to be completed.
- Once the ignition step is complete, the stove moves into operating mode and shows the selected heat output, the ambient temperature and the **big flame** (see **Fig. 71 a pag. 30**).
- If the ambient temperature value exceeds the limit set on the button panel in the temperature set, the heat output is brought to its lowest value and the **small flame** is shown (see **Fig. 72 a pag. 30**). When the ambient temperature decreases below the set temperature, the stove goes back to the set output.



Fig. 71 - Big flame



Fig. 72 - Small flame

12.7 FAILED IGNITION

If pellets should not ignite, the lack of ignition will be signalled by the A01 "No Ignition" warning. If the ambient temperature is below 5°C, the resistance may not heat up enough to guarantee the pellet ignition. In this case, remove the unburned pellets from the burning pot and restart ignition.

- Too much pellets in the burning pot, or humid pellet, 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 blacken and the burning pot to become encrusted, clean the stove, clean the fume conduit and the chimney flue.

12.8 SWITCH OFF (ON PANEL: OFF WITH FLASHING FLAME)

If the shutdown key is pressed or if there is an alarm signal, the boiler goes into the thermal shutdown phase which entails the automatic execution of the following stages:

- Pellet loading is stopped.
- The room fan continues to operate until the requested temperature is reached.
- The flue fan is set to its highest value, which it keeps until the requested temperature is reached, plus a safety time of 10 additional minutes. After that, if the fume temperature has decreased below the switch off threshold, it stops, otherwise the cooling process goes on.
- If the stove has switched off normally, but owing to thermal inertia, the fume temperature goes over the threshold again, the switch off process is reactivated until the temperature decreases again.

12.9 POWER FAILURE

- After a black-out lower than 10 seconds, the stove turns back to the power which was settled.
- After a black-out of more than 10 seconds, the stove enters the during shutdown. Completed this phase, it starts automatically up with the different phases.

12.10 ADJUSTMENTS MENU

To access the adjustments menu act as follows:

- Press the + - keys
- Scroll with the <> arrows and select "Set Room T." or "Air Fan Speed" or "Fire"
- Press "menu" to access the selected option.
- Modify with the + - keys.
- Press "menu" to confirm and "esc" to exit.

Set Room T. - this function allows setting the desired temperature in the room where the stove is installed, starting from a minimum of 5°C up to a maximum of 35°C. When this condition is met, the stove reaches the minimum consumption values (flame and hot air fan speed at minimum values) and then goes back to the set values when the ambient temperature goes below the set threshold (see Fig. 73 a pag. 30).



Fig. 73 - Display

Note: The full stop to the right of the ambient temperature shown in the control panel display (upper right) indicates the half degree (e.g. 23.° means 23.5°C).

Air Fan Speed - this function allows selecting the desired speed for the ambient fans from 1 to 5 or A. A means automatic, ventilation depends on power, recommended setting (see Fig. 74 a pag. 31).



A power 1 fans are off.



Fig. 74 - Display

Fire - this function allows setting the flame power from a minimum of 1 to a maximum of 5. The power levels correspond to a different fuel consumption value: by setting 5 you can heat the room in less time, while by setting 1 you can keep the ambient temperature constant for a longer period. The flame set goes to the minimum value automatically when the set temperature value is reached.

If only one notch appears, the stove has a flame power equal to 1.

If 5 notches appear, the stove has a flame power equal to 5.

If the notches flash, automatic cleaning is under way.



Fig. 75 - Display

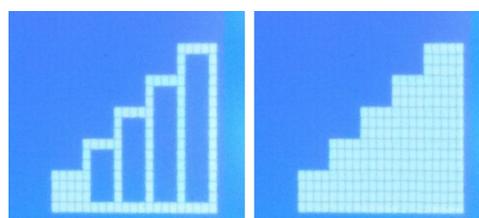


Fig. 76 - Power levels

12.11 PROGRAMMED MODE (TIMER) - MAIN MENU



Setting the current day and time is essential for the proper operation of the timer.

There are six TIMER programmes, for each one the user can decide the start-up and shutdown time as well as the day of the week in which it is active.

When one or more programmes are active, the panel alternately displays the boiler status and TIMER "n" whereby "n" is the number relating to the activated timer programmes, separated from each other with a dash

Example:

- TIMER 1 Timer programme 1 active.
- TIMER 1-4 Timer programmes 1 and 4 active.
- TIMER 1-2-3-4-5-6 Timer programmes all active.

EXAMPLE OF PROGRAMMING

With boiler on or off:

- access the MENU,
- scroll to TIMER with the <> arrows,
- press the "Menu" key
- the system proposes "P1" (Press the <> keys for the subsequent timers P2,P3, P4, P5, P6)
- to activate "P1" press the "Menu" key
- press + - and select "ON"
- confirm with the "Menu" key

At this point it will propose 00:00 as starting time, with key + - adjust the starting time and press the "menu" key to confirm.

The next step proposes a shutdown time of 10 minutes above that set for start-up: press the + key and adjust the shutdown time, confirm with the "menu" key.

Subsequently the system proposes the days of the week in which to activate or deactivate the previously set timer. With the - or + key highlight with the white background the day in which one wishes to activate the timer and confirm with the "menu" key. If no day of the week is confirmed as active, in turn the timer programme will not appear active in the status screen.

Continue to program the following days or press "ESC" to exit. Repeat the procedure to program the other timers.

12.12 PROGRAMMING EXAMPLES:

P1			P2		
on	off	day	on	off	day
08:00	12:00	mon	11:00	14:00	mon
Boiler on from 08:00 to 14:00					
on	off	day	on	off	day
08:00	11:00	mon	11:00	14:00	mon
Boiler on from 08:00 to 14:00					
on	off	day	on	off	day
17:00	24:00	mon	00:00	06:00	tue
Boiler on from 17:00 on monday to 06:00 on tuesday					

12.13 NOTES FOR TIMER OPERATION

- Start-up with the timer always takes place with the last temperature and ventilation settings (or with default 20°C and V3 settings in the event they have never been changed).
- Start-up time ranges from 00:00 a 23:50
- If the shutdown time is not already memorised, it proposes a start-up time in + 10 minutes.
- A timer programme switches the boiler off at 24:00 of one day and another programme switches it on at 00:00 of the next day: the boiler stays on.
- A programme proposes a start-up and shutdown in times included within another timer programme: if the boiler is already on, start will not have any effect, while OFF will switch it off.
- In the boiler on and timer active condition, press the OFF key and the boiler will switch off, it will switch on automatically at the next time set on the timer.
- In the boiler off and timer active condition, press the ON key and the boiler will switch on, it will switch off at the time set on the active timer.

12.14 AUTO ECO MODE (SEE SECTION F-G SETTINGS MENU A PAG. 27)

To activate the "Auto-Eco" mode and adjust the time refer **SETTINGS MENU a pag. 27**.

The possibility to adjust the "Off Time Eco" comes from the need to ensure proper operation in the various rooms the boiler can be installed in and prevent continuous shutdowns and start-ups in the event the temperature is subject to sudden changes (air currents, poorly insulated rooms, etc.).

The ECO switch off procedure is automatically activated when the power recall device is activated (Room probe +1°C or external thermostat with open contact, see **Fig. 77 a pag. 32**). "Off Time Eco" time decrease starts (5 minutes by default, see **Fig. 78 a pag. 32**, and can be modified from the "Settings" menu). During this phase the panel view is activated with the small flame and alternates chrono (if on) - active Eco.



Fig. 77 - Active eco 1



Fig. 78 - Active eco 2



Fig. 79 - Active eco 3

On the upper display the minutes for the Eco Stop countdown are shown. The flame goes to P1, where it remains until the set "Off Time Eco" time is over and, if conditions are still met, it switches to the switch-off process. The ECO switch-off countdown is reset if one of the devices resumes recalling power.

When the switch-off procedure begins, the panel shows: Off - Active Eco - small flashing flame (see **Fig. 79 a pag. 32**). When the stove is switched off, the panel shows active OFF-ECO with the flame icon off.

For an ECO switch on, the following conditions must be met simultaneously:

- Room probe -1°C or external thermostat with closed contact (for at least 20" to avoid false recalls).
- After 5 minutes from the beginning of the switch-off procedure.

12.15 SLEEP FUNCTION (MAIN MENU)

The sleep function is activated only when the boiler is switched on and allows to quickly set a time at which the product must switch off.

To set the Sleep function act as follows:

- Enter MENU
- Scroll to SLEEP with the <> arrows
- Press Menu
- With the + - keys adjust the desired shutdown time.

The panel proposes a shutdown time of 10 minutes from the current time, adjustable with key 4 until the next day (I can therefore delay the shutdown for up to a maximum of 23 hours and 50 minutes).



Fig. 80 - Sleep

If the SLEEP function is active with the TIMER active the first has priority over the latter, therefore the boiler will not switch off at the time set on the timer but instead by the time established by the sleep function, even if later than the time set on the timer.

12.16 PELLETS RECIPE (SEE SECTION J SETTINGS MENU A PAG. 27)

This function is for adapting the stove to the pellets that are being used. In fact, as there are several types of pellets on the market, boiler operation is extremely variable depending on the fuel quality. In the event the pellets tend to clog the brazier due to an excessive load of fuel or in the event the flame is always high even at low powers and, vice versa if the flame is low one can decrease/increase the amount of pellets in the brazier:

The available values are:

- 30= 30% reduction with respect to the default setting.
- 25= 25% reduction with respect to the default setting.
- 20= 20% reduction with respect to the default setting.
- 15 = 15% reduction with respect to the default setting.
- 10= 10% reduction with respect to the default setting.
- 5= 5% reduction with respect to the default setting.
- 0= No variation.
- +5= 5% increase with respect to the default setting.
- +10 = 10% increase with respect to the default setting.
- +15 = 15% increase with respect to the default setting.

12.17 SMOKE RPM VARIATION (SEE SECTION I SETTINGS MENU A PAG. 27)

If the installation presents difficulties for smoke evacuation (no draught or no pressure in the duct), the smoke and ash expulsion speed can be increased. This change resolves all the potential problems related to pellets clogging in the brazier and deposits forming at the bottom of the brazier itself caused by poor quality fuel or fuel that produces a lot of ashes. The values available are from -27% to +27% with variations of 3 points at a time. The variation in negative can be used in case the flame is too low.

12.18 CHIMNEY SWEEP FUNCTION (FOR MAINTENANCE TECHNICIANS ONLY) - SEE SECTION K SETTINGS MENU A PAG. 27

This function can be activated only when the boiler is on and with power output and heating operation power with parameters P5, with fan (if present) in V5. Any loading/smoke ventilation percentage corrections must be taken into account. This status lasts 20 minutes, the countdown is displayed on the panel. At any time the technician can interrupt this stage by quickly pressing the on/off key.

12.19 PELLET SUPPLY



Fig. 81 - Wrong opening of the pellets bag

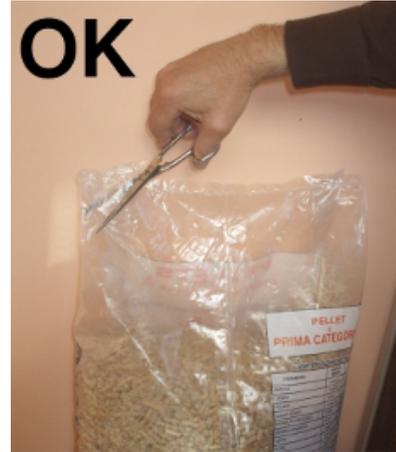


Fig. 82 - Right opening of the pellets bag

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.

12.20 PELLET REFUELLING TIMER

This stove is equipped with a safety timer that activates after the pellet hopper door has been open for **90 seconds** during reloading (see Fig. 83 a pag. 34). After 90 seconds, the stove goes into "A05" depression alarm and proceeds to switch off.

Wait until it switches off, then light it again.



Fig. 83 - Door open

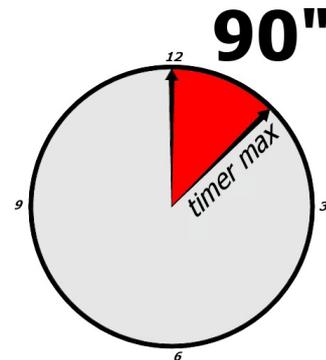


Fig. 84 - Timer: 90 seconds

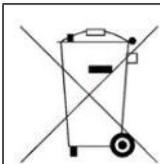


To operate correctly, the stove must work with the pellet hopper door always closed; should it remain open for more than 90 seconds, the stove switches off.

- The loading system stops when the tank door is opened.

12.21 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. 85 - Remote control

LEGEND Fig. 85 a pag. 35

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 DEVICES AND ALARMS

13.1 SAFETY DEVICES

The product is supplied with the following safety devices

13.2 PRESSURE SWITCH

It controls pressure in the fume duct. It blocks the pellet feed screw in the following instances:

- clogged exhaust
- Significant negative (wind)
- clogged fume passages
- open pellet loading tank
- open fire door or worn/broken gaskets.

13.3 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.

13.4 CONTACT THERMOSTAT IN THE FUEL HOPPER

If the temperature exceeds the preset safety level, it immediately shuts down boiler operation.

13.5 ELECTRICAL SAFETY

The product is protected against sudden current surges 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.

13.6 SMOKE FAN

If the fan stops, the electronic board promptly shuts off the pellets supply and an alarm message is displayed.

13.7 GEAR MOTOR

If the gear motor stops, the boiler will continue to run until the flame goes out due to lack of fuel and until a minimum level of cooling is reached.

13.8 TEMPORARY POWER CUT

If the power cut lasts less than 10" the boiler returns to its previous operating status; if it lasts more it carries out a cooling/restart cycle.

13.9 FAILED START-UP

If during ignition no flame develops, the boiler will go into alarm condition.

13.10 BLACKOUT WITH THE BOILER ON

In the event of a power cut (BLACKOUT) the boiler behaves as follows:

- Blackout below 10": it returns to its operation in progress;
- In the event of a power cut that lasts over 10" with the boiler on or in the start-up stage, when the boiler is powered again it goes back to the previous operating condition with the following procedure:
 - 1) It performs a cooling phase to the maximum.
 - 2) Performs a new ignition.

During stage 1 the panel displays ON BLACK OUT.

During stage 2 the panel displays Start-up.

If during stage 1 the boiler receives commands from the panel and thus carried out manually by the user, then the boiler stops executing the blackout recovery status and proceeds to restart or shutdown as requested by the command.

13.11 ALARM ALERTS

Whenever an operating condition other than that designed for the regular operation of the boiler occurs, there is an alarm condition.

The control panel gives information on the reason of the alarm in progress.

PANEL ALERT	TYPE OF PROBLEM	SOLUTION
A01	The fire does not ignite.	Check whether the brazier is clean / level of pellets in the hopper.
		Check pellet level in the tank.
		Check that the burning pot is correctly positioned in its case and does not contain deposits or unburned material.
		Check that the pellet cover and the fire door are correctly closed.
		Clogged flue
A02	The fire goes off abnormally.	Check the level of pellets in the hopper.
A03 Thermostat alarms	The temperature of the pellets hopper or the water temperature exceed the envisioned safety threshold.	Wait for the cooling stage to end, cancel the alarm and restart the boiler setting the fuel loading at minimum (SETTINGS menu - Pellet Recipe).
		Check that dust does not clog the aeration grid on the stove back.
		If the alarm persists, contact the service centre. Check if the room fan works properly (if present).
A04	Smoke overheating.	The set smoke threshold has been exceeded. Reduce pellets loading (SETTINGS menu - Pellet Recipe).
A05 Pressure switches alarm	Flue gas pressure switch trip.	Check for chimney obstructions/fire door opening, pellet tank opening, gasket seals, side fire ducts cleaning, clogged hose connection, excess flue length, unfavourable weather conditions and clogged stove.
A08	Abnormal smoke fan operation.	If the alarm persists, contact the service centre.
A09	Smoke probe faulty.	If the alarm persists, contact the service centre.
SERVICE	Routine maintenance alert (it does not block the system).	When this flashing message appears upon start-up, it means that the preset operating hours have elapsed before maintenance. Contact the service centre.

13.12 ALARM RESET

To reset the alarm you must keep the 1 (ESC) button pressed for some time. The stove performs a check to determine whether the warning cause is still present.

If this is the case, the warning will be shown again, otherwise the stove will switch to the OFF position.

If the warning is still present, contact a service centre.

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



The burning pot and ash tray cleaning must be executed at least every 2 days.

- Open the door.



Fig. 86 - Burning pot extraction

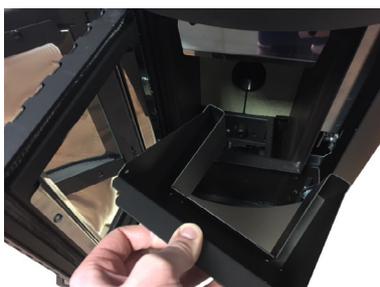


Fig. 87 - Ash tray extraction



Fig. 88 - Burning pot cleaning

- Extract the burning pot (see **Fig. 86 a pag. 37**) from its seat and empty it from the ash.
- Extract the ash tray (see **Fig. 87 a pag. 37**) and empty it from the ash
- If necessary clean with a pointed object the holes obstructed by encrustations (see **Fig. 88 a pag. 37**).



Fig. 89 - Burning pot box cleaning



Fig. 90 - Cleaning with a brush

- Clean and drain away the burning pot and the ash tray from ash which has accumulated in its inner (see **Fig. 89 a pag. 37**).
- Clean also the hole for pellet drop with a brush (see **Fig. 90 a pag. 37**).
- The ash remains must be poured in a metal container with a sealed lid and this container must never get in touch with combustible materials (for example put on a wooden floor), as the inner ash keeps the embers firing for a long time.
- Only when the embers are off the ash could be poured in the organic waste.

- Pay attention if the flame becomes red colored, if it is weak or if black smoke creates in the inner: in this case the burning pot is encrusted and needs to be cleaned. If it is broken, it must be replaced.

14.3 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. Check that there is no excessive ash accumulated under the burning pot compartment. If it exceeds 2 cm of height, we recommend sucking it.



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.

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. 91 a pag. 38**).



Fig. 91 - Hopper and auger cleaning

14.5 FUME CONDUIT CLEANING



The exhaust system must be cleaned every month.



Fig. 92 - Fume conduit cleaning

- Remove the inspection lid of the T-union (see **Fig. 92 a pag. 38**).
- Extract the ash which has accumulated in the inner.
- After cleaning repeat the operation in reverse order, checking the condition and efficiency of the gasket, and if necessary replace it.



It is important to sealed the cap othrwise noxiuous fumes will propagate among the room.

14.6 FUME CHAMBER AND FUME PASSAGE CLEANING



Every end-of-season (or every 1500 hours of operation) it is necessary to clean the fume chamber and fume passage.



Fig. 93 - Screw removal



Fig. 94 - Screws M6x16



Fig. 95 - Drawer removal

- Remove the drum (see **DRUM REMOVAL** a pag. 17).
- Remove the plate under the door (see **Fig. 93 a pag. 39**), unscrewing the 2 M6x16 screws (see **Fig. 94 a pag. 39**).
- Remove the ash drawer and clean out all of the ash (see **Fig. 95 a pag. 39**).



Fig. 96 - Screw removal



Fig. 97 - Flue gas deviator removal

- Remove the clamping screws for the flue gas deviator (see **Fig. 96 a pag. 39**).
- Remove the flue gas deviator (see **Fig. 97 a pag. 39**).



Fig. 98 - Vacuum out the ash



Fig. 99 - Vacuum out the ash

- Vacuum out the ash compartment (see **Fig. 98 a pag. 39**).
- Vacuum out any ash from the flue gas fan (see **Fig. 99 a pag. 39**).

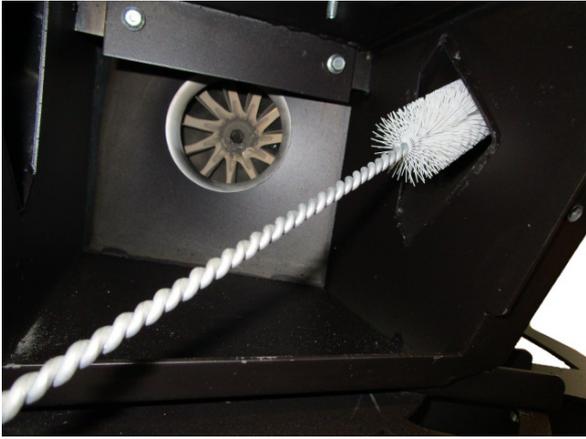


Fig. 100 - Cleaning with pipe cleaner 1



Fig. 101 - Cleaning with pipe cleaner 2

- Insert the pipe cleaner into the right and left pipe all the way to the top (see Fig. 100 a pag. 40).
- View of pipe cleaner from inside the boiler (see Fig. 101 a pag. 40).



Fig. 102 - Cleaning with pipe cleaner 3



Fig. 103 - Cleaning with pipe cleaner 4

- View of pipe cleaner from below (see Fig. 102 a pag. 40).
- Use the pipe cleaner to clean the passages from inside (see Fig. 103 a pag. 40).
- Put everything back together.



The fume exhaust system cleaning frequency depends on stove use and its installation. We recommend contacting an authorised service centre for the end-of-season cleaning and maintenance operations because the centre will perform an overall check of the parts, as well as the above-mentioned operations.



14.7 FUME FAN CLEANING

Clean every the year the fume fan from ash or dust which can cause a blade unbalance and a greater noise.

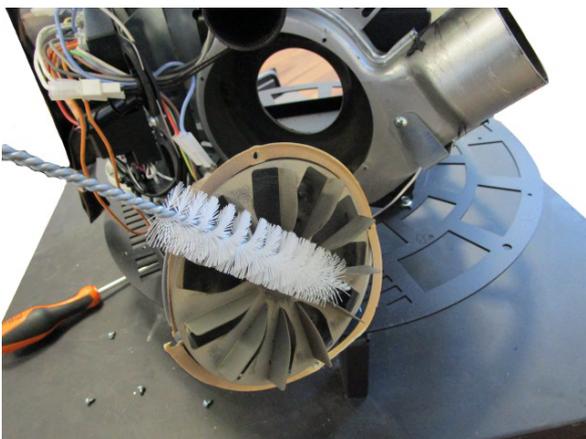


Fig. 104 - Fume fan cleaning: phase 1

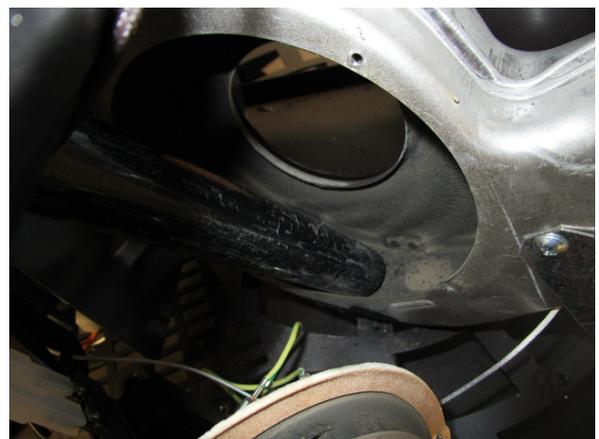


Fig. 105 - Phase 2

- Remove the drum (see **DRUM REMOVAL** a pag. 17).
- Follow the process as describer in **Fig. 104 a pag. 40** and **Fig. 105 a pag. 40**.

14.8 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.

14.9 GENERAL CLEANING



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

14.10 CLEANING OF PAINTED METAL PANELS



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

14.11 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.

14.12 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!

15 IN CASE OF ANOMALY



15.1 PROBLEM SOLVING



Before of every Authorized Technician intervention, the same Technician has the duty to check if the parameters of the mother board correspond to those of the table you own.



In case of doubts regarding the use of the stove, please contact ALWAYS the Authorized Technician on order to avoi irreparable damages!

PROBLEM	CAUSE	SOLUTION	INTERVENTION
The control display does not switch on	The stove is without power supply	Check if the plug is connected.	
	Burned protection fuse in the electric socket	Replace the protection fuses in the electric socket (3.15A-250V).	
	Faulty control display	Replace the control display.	
	Faulty flat cable	Replace the flat cable.	
	Faulty electronic board	Replace the mother board.	
Pellets do not reach the combustion chamber	Empty hopper	Full the hopper.	
	Open fire door or open pellet door	Close fire door and pellet door and check that there are no pellet grains at the gasket level.	
	Clogged stove	Fume chamber cleaning	
	Auger blocked by a foreign object (for example nails)	Clean the auger.	
	The auger geared motor is out of order	Replace the geared motor.	
	Check if on the display there is an "ACTIVE ALARM"	Have the stove checked.	
The fire extinguish and the stove stops	Empty hopper	Full the hopper.	
	Auger blocked by a foreign object (for example nails)	Clean the auger.	
	Bad quality pellets	Try other types of pellets.	
	Pellet drop value too low "phase 1"	Adjust the pellet loading.	
	Check if on the display there is an "ACTIVE ALARM"	Have the stove checked.	

PROBLEM	CAUSE	SOLUTION	INTERVENTION
Flames are weak and orange coloured, pellets do not burn properly and the glass blackens	Not sufficient combustion air	Check as following; probable obstructions of the combustible air inlet from the back or from the bottom of the stove; burning pot obstructed holes with too ash remains. Have the fan blades and auger cleaned.	
	Obstructed exhaust	The exhaust chimney is partially or totally obstructed. Contact an expert stove-repairer who checks the stove from the exhaust up to the chimney pot. Provide immediately for stove cleaning.	
	Obstructed stove	Provide immediately at the inner cleaning of the stove.	
	The fume fan is out of order	The pellets can burn also thanks to chimney flue depression without the aid of the fume fan. Have the fume fan immediately replaced. It can be noxious to health to let the stove running without fume fan.	
The exchanger fan continues to turn even though the stove has just cooled	Faulty fume temperature probe	Replace the fume probe.	
	Faulty mother board	Replace the mother board.	
Ash remains along the stove	Faulty or out of order door gaskets	Replace the gaskets.	
	Not sealed fume pipes	Contact an expert stove-repairer who will immediately provide for sealing the junctions with high-temperature silicone and/or for replacing pipes with those in compliance to current regulations. A not sealed fume channelisation can be noxious to health.	
The stove is at its highest power but does not heat up.	Ambient temperature reached.	The stove is at its minimum value. Increase the desired ambient temperature.	
Stove running and display showing "Smoke Overtemperature"	Reached fume outlet limit temperature	The stove runs at minimum. NO PROBLEM!	
The stove's smoke duct produces condensation	Low smoke temperature	Check that the flue is not clogged.	
		Increase stove power to minimum (pellet drop and fan revs).	
		Install condensation collection cup.	

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.

- For fuse replacement in the electric socket which stands on the back of the stove, extract the fuses to change with the aid of a screwdriver for opening the shutter (see **Fig. 106 a pag. 44**).



Fig. 106 - Shutter with fuses to remove

Proceed as follows:

- Remove the drum (see **DRUM REMOVAL a pag. 17**).
- After these operations you can access the following parts: gear motor, spark plug, room fan, fume aspirator, room probe, fume probe, thermostat, electronic board, pressure switch.
- To replace and/or clean the loading feed screw, you must loosen the three motor gear bolts and pull the motor gear out, loosen the two screws underneath the feed screw motor gear, remove the hand protection inside the tank, then loosen the bolt inside the feed screw. To reassemble proceed in reverse order.

16.2 FEATURES

DESCRIPTION	BISTROT ³ - 6,5 kW	BISTROT ³ LOUNGE - 6,5 kW
WIDTH	58 cm	115 cm
DEPTH	58 cm	58 cm
HEIGHT	101,7 cm	101,7 cm
WEIGHT	81 kg	101 kg (with pouf)
INTRODUCED THERMIC POWER (Min/Max)	2,4 - 7,1 kW	2,4 - 7,1 kW
NOMINAL THERMIC POWER (Min/Max)	2,3 - 6,5 kW	2,3 - 6,5 kW
EFICIENCY (Min/Max)	94,5 - 91 %	94,5 - 91 %
FUME TEMPERATURE (Min/Max)	81 - 180 °C	81 - 180 °C
FUME MAXIMUM LOADING CAPACITY (Min/Max)	2 - 3,6 g/s	2 - 3,6 g/s
CO EMISSIONS (13% O ₂) (Min/Max)	0,016 - 0,003 %	0,016 - 0,003 %
OGC EMISSIONS (13% O ₂) (Min/Max)	1 - 1 mg/Nm ³	1 - 1 mg/Nm ³
NO _x EMISSIONS (13% O ₂) (Max)	105 mg/Nm ³	105 mg/Nm ³
Medium CO CONTENTS at 13% O ₂ (Min/Max)	196 - 43 mg/Nm ³	196 - 43 mg/Nm ³
Medium POWDER CONTENTS at 13% O ₂ (Max)	6 mg/Nm ³	6 mg/Nm ³
CHIMNEY DEPRESSION (Max)	10 - 12 Pa	10 - 12 Pa
ON SHARED CHIMNEY FLUE	NO	NO
FUME OUTLET DIAMETER	Ø80 mm	Ø80 mm
COMBUSTIBLE	Pellet Ø6-7 mm	Pellet Ø6-7 mm
PELLETS HEATING VALUE	5 kWh/kg	5 kWh/kg
PELLETS HUMIDITY	≤ 10%	≤ 10%
HEATING VOLUME 18/20°C Coeff. 0,045 kW (Min/Max)	55,2 - 156 m ³	55,2 - 156 m ³
HOURLY CONSUMPTION (Min/Max)	0,5 - 1,5 kg/h	0,5 - 1,5 kg/h
HOPPER CAPACITY	15 kg	15 kg
RANGE (Min/Max)	30 - 10 h	30 - 10 h
SUPPLY	230 V - 50 Hz	230 V - 50 Hz
POWER INPUT (Max)	316 W	316 W
INGNITER RESISTANCE POWER INPUT	300 W	300 W
MINIMUM EXTERNAL AIR INLET (last effective area)	80 cm ²	80 cm ²
STOVE WITH SEALED CHAMBER	YES	YES
EXTERNAL AIR INLET FOR SEALED CHAMBER	40 mm	40 mm
DISTANCE FROM COMBUSTIBLE MATERIAL (rear/sides/floor)	200 / 300 / - mm	200 / 300 / - mm
DISTANCE FROM COMBUSTIBLE MATERIAL (ceiling/front)	- / 1000 mm	- / 1000 mm

PELLET STOVES · WOOD STOVES · WOOD COOKING STOVES
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