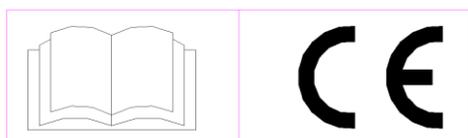


FreePoint
il calore che arreda

**ARIANNA
REBECCA**

-



**MANUAL
PELLETS STOVE**

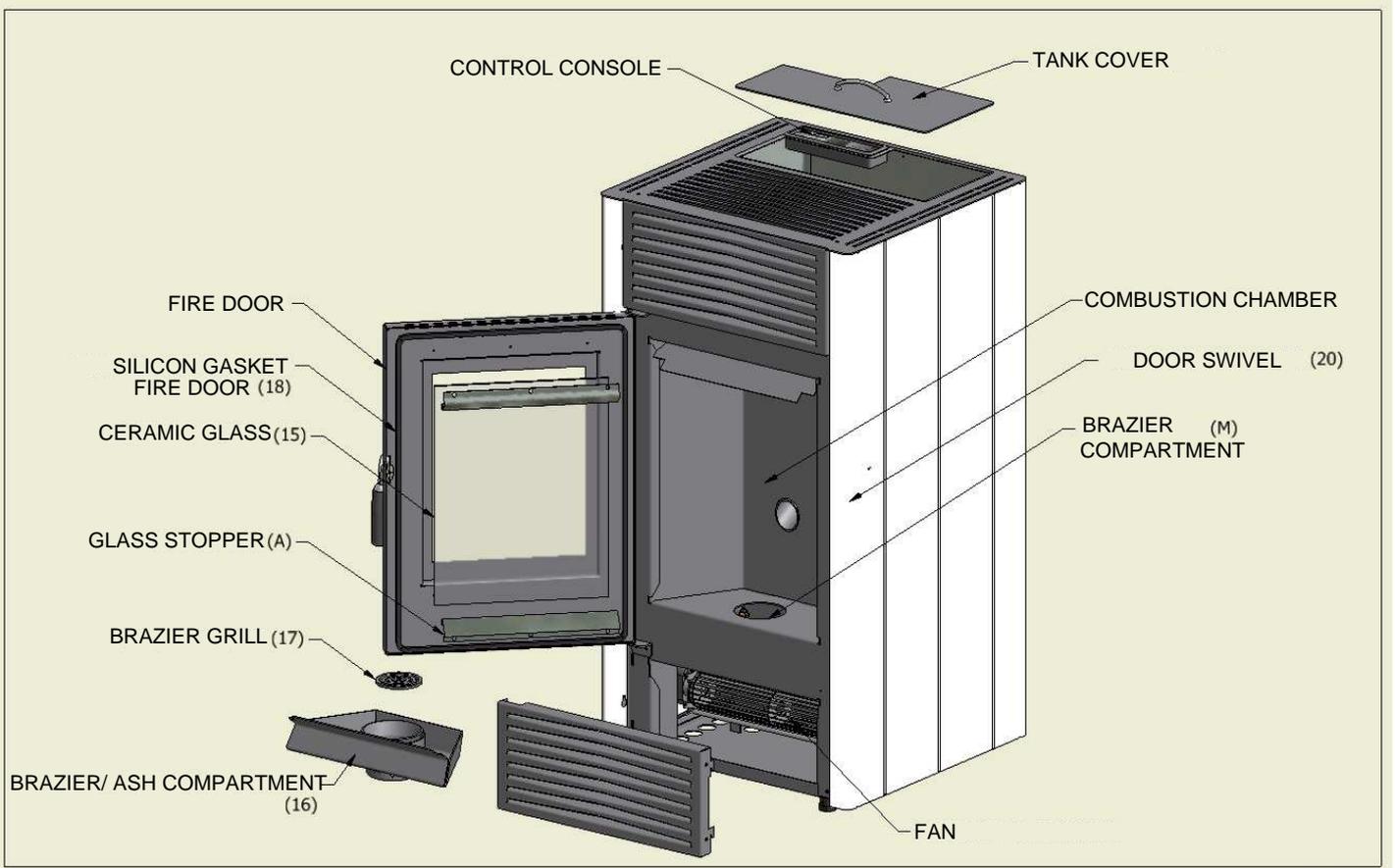


Fig.13

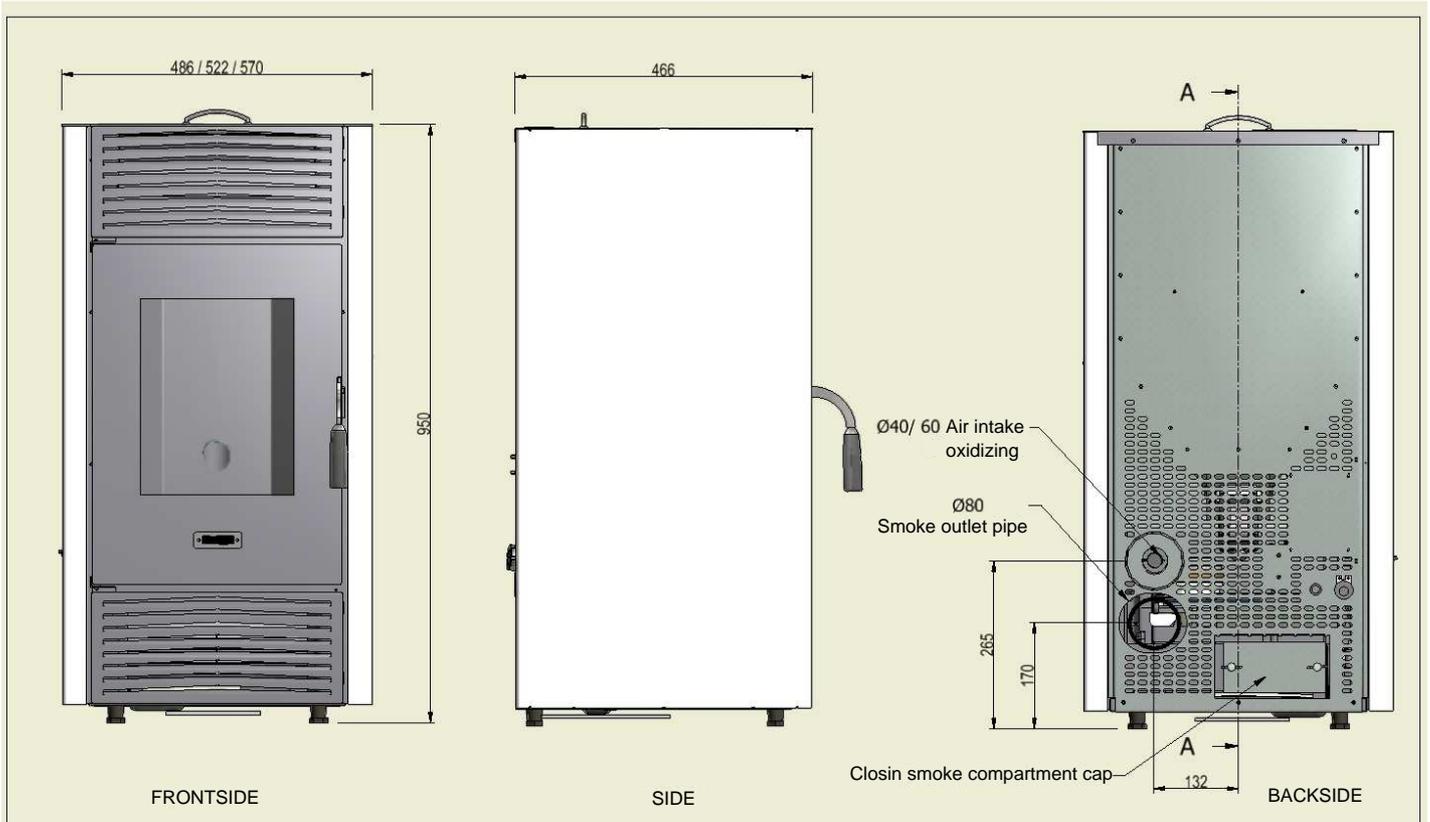


Fig.15

DEAR CUSTOMER.

Our products are designed and made respecting the laws (EN13240 wood stoves EN14785 pellets stoves, EN13229 fireplace) with high quality materials and deep experience in transformation processes and answer to the Dir.89/106 of D.P.R.246. The requirements for the CE brand attached to A are the essential conditions, to which the best works must answer. In order to obtain the best working performances, we suggest you to read carefully the **instructions in this current manual.**

This instruction manual is an integral part of our product: make sure that it supplies always the unit, even in case of sell to another third person. In case of loss, ask for a copy to the technical support service in your nearby.

All the local rules, inclusi those that refers to european and national laws, must be respected at the moment of the product installation.

In Italy, concerning installations of biomass plants less than 35KW we depend to the D.M 37/08 and every licensed technician has to grant an accordance certificate for the installed unit. (For installation is meant stove+fireplace+vent).

SPARE PARTS

Every repair or setup that might turn out necessary, has to be done with extreme caution; we recommend you to ask to your dealer or to the assistance center closer to you specifying the model of your unit, the matrix and the problem you had with it. Use only original spare parts that you can always find in our assistance centers.

DISPOSAL

(Direttiva europea 2002/96/CE) this simbol on the product means that the electric and electronic products used musn't been mixed with demoestic garbage.



For a correct treatment, recovery, or recycle, bring this product to the collection points

designed, where they will be taken freely. For further details, contact your local authority or the closer collection point. In case of wrong disposal of this wastes, may be applied penal laws, following national laws.

INDICE

- 1)PACKAGING
- 2)FIREPLACE
- 3)FUEL
- 4)INSTALLATION
- 5)USE
- 6)SAFETY DEVICES
- 7)MAINTAINANCE
- 8)IN CASE OF PROBLEMS
- 9)TECHNICAL DATA

1.PACKAGING

1.1 PACKAGING

The packaging is constituted by a recyclable cardboard under RESY laws,recyclable inserts in expanded EPS, pellets in wood.All packaging materials can be re-used in a similar way or eventually disposed, respecting the existing rules.

After having unpacked, check the integrity of the product.

ATTENTION we recommend to handle it with appropriate manners, respecting the existing safety rules. Do not overturn the packaging and use all cautions for mayolica details.

2.FLUE

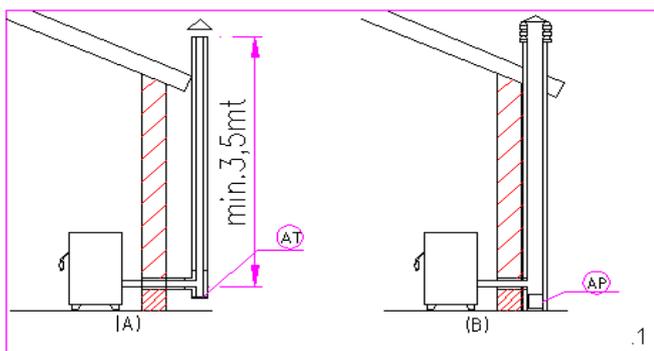
2.1 INTRODUCTION

The present chapter on Fireplaces has been redacted in collaboration with **Assocosma** (www.assocosma.org) and taken from European laws (EN18891- EN13384 -EN1856-EN1443). It gives some indications about the good and correct realization of the fireplace, but in no way it has to be meant substitutive of the existing rules. Verified by local authorities if there are restricting rules that refer to the comburent air intake, the smoke outlet and the fireplace.

The factory declines every responsibility about the bad working of the stove if due to the use of a bad sized flue that doesn't satisfy the current rules.

2.2 FLUE

The flue or fireplace has great importance for a regular functioning of a solid fuel heating unit, since the modern heating units have a high performance with cooler smokes and consequent lesses draft, the flue must be made in a workmanlike and kept maintained in excellent efficiency. The flue has to be single (fig.1) with isolated inox pipes (A) or an existing flue (B). Both solutions must have an inspection cap (AT) or an inspection door (AP). It's forbidden to link more heating units in the same flue.



2.3 TECHNICAL FEATURES

The flue must be sealed to prevent the exit of the smoke. It has to be vertical oriented without bottlenecks, being realized with smokeproof materials, thermal isolation and suitable to withstand the time (we recommend fireplaces in A/316). It must be externally insulated to avoid condense and reduce the effect of smoke cooling down. It must be kept away from inflammable materials; verify the

proper distance indicated by the producer of the flue following the UNI10845. The entrance of the flue has to be in the same room where the stove is installed or, in the adjacent room having under the entrance a compartment for the gathering of condense. Let an expert technician check the efficiency of the flue and, if necessary, intubate the flue with a material that respects the existing UNI10845 law. Auxiliar drafter can't be installed neither in the flue nor the chimney.

2.4 ALTITUDE-DEPRESSION

The depression (drafting) of a flue depends also on its altitude. Check the depression with the written datas (paragraph 9.3 page 24). Minimum altitude 3.5 meters.

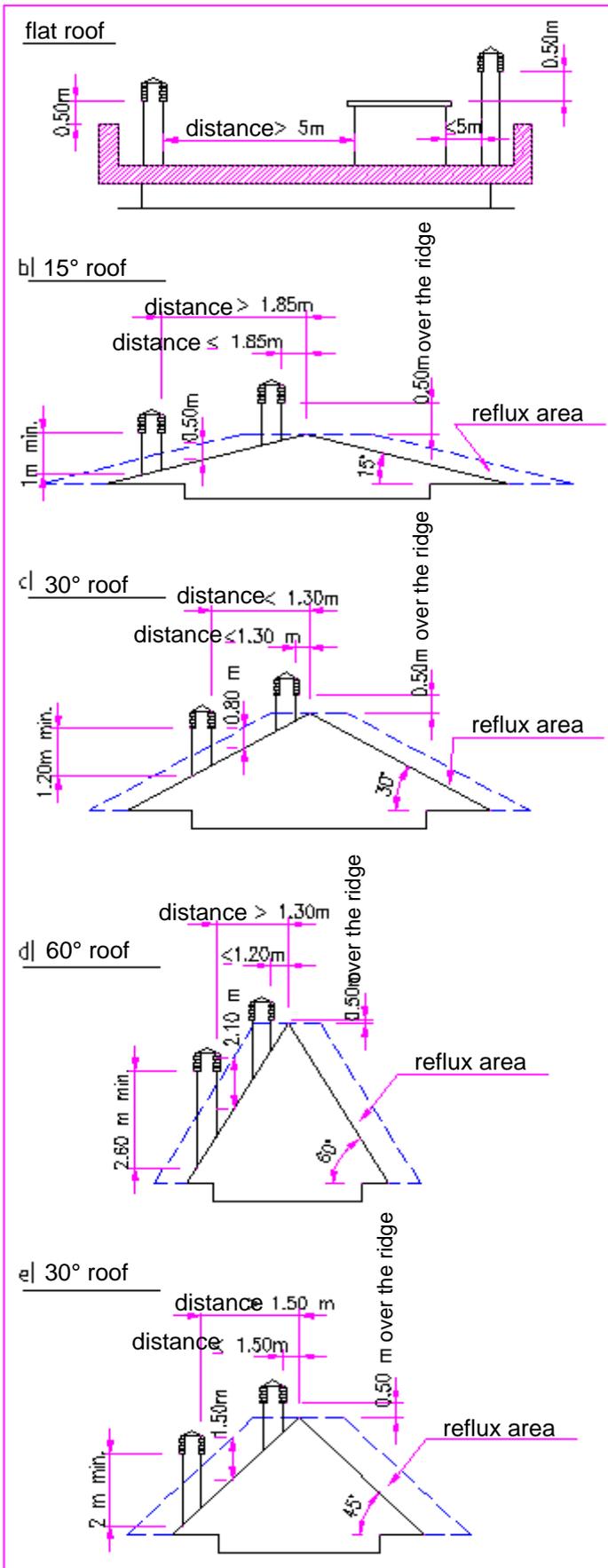
2.5 SIZE

The internal section of a flue, can be rounded (the best one), squared or rectangular (the internal side ratio must be $\leq 1,5$) with the sides connected with a minimum 20mm ray. The size of the section must be **Minimum Ø120mm maximum Ø180mm**

2.6 MAINTAINANCE

The flue must be always clean, because the deposits of soot or oils reduce the section blocking the drafting and compromising the good working of the stove, in addition, in big quantities they could burn. It's obligatory to make clean the flue and the chimney by a sweep **at least once a year**.

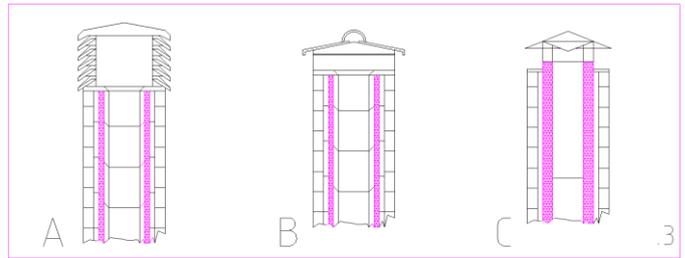
Not cleaning it affects the safety.



.4

2.7 CHIMNEY

The chimney has an important function for the proper work of the heating unit. We recommend an anti-wind chimney (A) see fig.3.

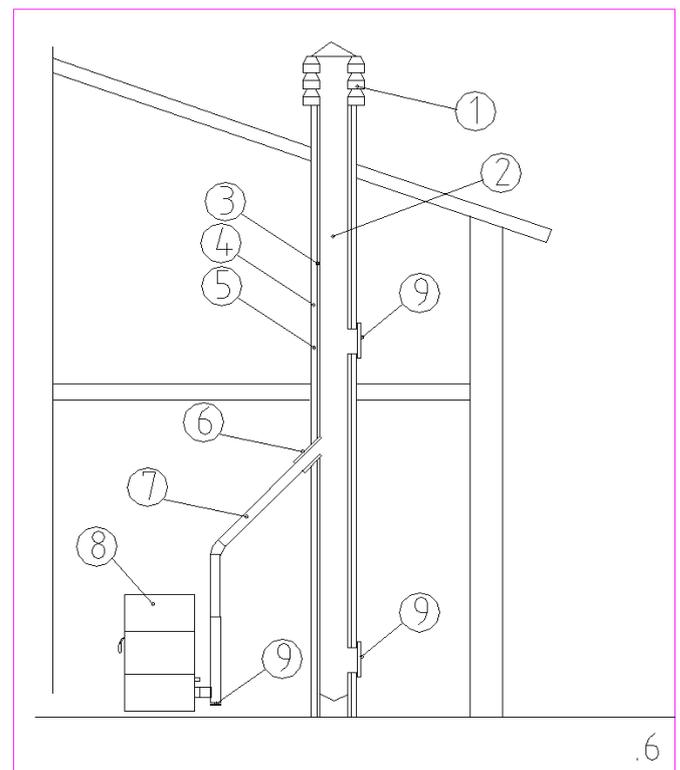


The holes for the smokes evacuation must be twice the size of the chimney in order to allow the smokes outlet even in case of wind. **It must avoid the entrance of the rain, snow and eventually animals.** The opening level in the atmosphere has to be outside the reflux area provoked by the roof's conformation or by nearby obstacles. (see fig.4).

2.8 FIREPLACE COMPONENTS

LEGEND:

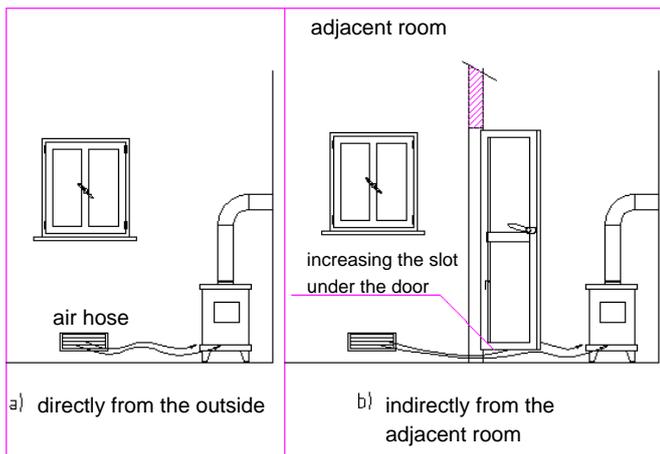
- (1) Chimney
- (2) Reflux area
- (3) Flue
- (4) Thermal isolant
- (5) External wall
- (6) Fireplace junction
- (7) Smoking pipe
- (8) Heat generator
- (9) Inspection door



.6

2.9 Outdoor vent

We suggest to provide an external-air recycling for a well environmental being. The outdoor air influx can be direct, through an opening in the external wall of the local (better solution fig.5a) , or indirect, by taking the air from the adjacent rooms (fig.5b); bedrooms, garages, inflammable whares stocks have to be excluded. The air vent must have a net area of at least 80cm², this area must be increased if inside the local other generators are present (electroventilator for stale air, cooker hood ecc..) that depress the environment. It is necessary check that, with all electrical appliances working, the pressure's fall between the inside and the outside doesn't reaches the level of 4,0Pa. If necessary, increase the air vent, remembering that it has to be placed at the floor's level with a protection grill to avoid any obstruction.



.5

2.1 COMBURENTE AIR VENT

It is recommended to drain the combustion needed air directly from the outside (in some countries it is obligatory by law) with a minimum pipe of Ø60mm, and maximum 2 mt lenght for the link in the backside of the stove (page 2 fig.15). This allows a better combustion and an absebbe of health risks. During the installation fase it is necessary to check the minimum needed distances to the comburent air vent drain directly from the outside because (for example) a window or a door open can provoke a vortex that can take the needed comburent air for the stove, as you can see below. On the external part it is necessary to place a protection grill.

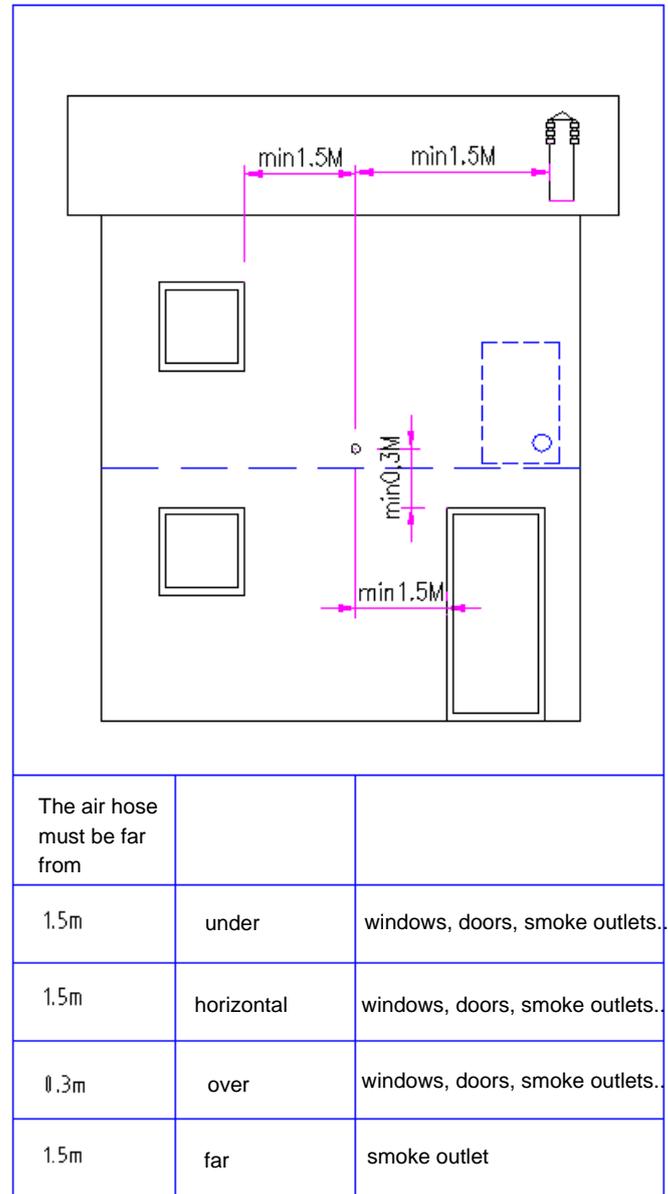


Fig.7

2.11 CHIMNEY LINKS

A pellets stoves works with a somes draining forced by a ventilator , it's obligatory to make sure that all the ducts are realized following the current law EN 1856-2 and UNI/TS 11278 on materials choice, however made by specialized staff or reliable factories following UNI10683/5. The link between the unit and the chimney must be short in order to simplify the draining and avoid the formation of condence in the pipes. lmg.8 page 7.

The smoke pipe has to be the same or bigger of the discharge one (Ø 8cm). Some models of stoves has the possibility of having a rear and/or upper outlet., (see img.15 page 2) make sure that the one not used is closed with a cap.

PLANT TYPE	PIPE DIAMETER 8 CM	PIPE DIAMETER 10 CM
Minimum vertical lenght	1.5m	2m
Maximum lenght with 1 T junction	6.5m	10m
Maximum lenght with 3 T junctions	4.5m	8m
Maximum T junctions	3	3
horizontal parts min inclination 3%	2m	2m
Installation over 1200 mt above sea level	NO	Obligatory

.2

Use for the smoke pipes a specific stove sheet with a diameter of Ø 80mm o 100mm depending on the plant typology, with silicon gaskets or sealed together with high temperature silicon (min 250°). **It is forbidden** to use flexible metal pipes. For the direction changes is **obligatory** to use always a T junction (see img.8) with inspection cap which allows a periodic cleaning of the pipes. Make sure that after the cleaning the inspection caps are closed hermetically with its efficient gasket. The changes of direction that can be used are maximum 3 T junctions and the lenght of the smoke pipe in orizontal position mustn't exceed the 2mt. with a minimum inclination of 3% (see img.8). It is forbidden to link more than a unit to a single smoke pipe, it is also forbidden to convey in the same pipe the discharge of upper hoods, it is forbidden the outlet of smokes in outdoor closed spaces. It's not allowed to link other appliances of any typology (wood stoves, hoods, boilers ecc.) The smoke channel has to be minimum 40cm far from inflammable elements (see img.8).

2.12 EXAMPLES OF PROPER INSTALLATION

- 1) Installation of flue with a minimum diameter of Ø120mm with a hole for the roof passage using insulating material (Rock wool ,ceramic fiber with a minimum density of 80kg/m3). The diameter varies from: 20cm around the pipe, if linked to inflammable parts (wood etc.) or 10cm around the pipe if not linked to inflammable parts (cement, bricks, ecc.) The previous rule is meant also for wall holes.

- 2) Old flue, with a pipe of min. Ø120mm with the realization of an external door that allows the cleaning of the flue.
- 3) External flue made only of inox pipes of min Ø120mm, well anchored to the wall. With an anti-wind chimney (see img.3).
- 4) Duction system with T junctions that permits an easy cleaning without disassembling the pipes.

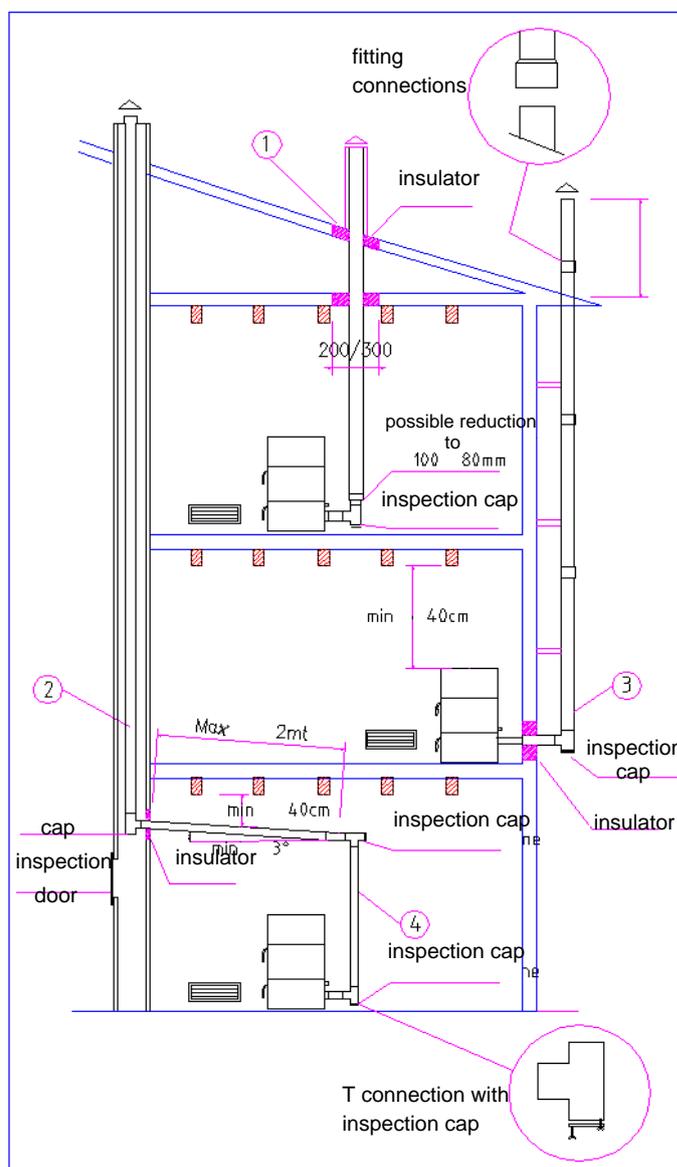


Fig.8

3.FUEL

3.1 FUEL

The type of fuel is only the pellets. In commerce there exists many kind of pellets, with different characteristics of quality. We recommend using high quality pellets because it influence calorific power and ashes. Pellets characteristics are : size Ø6-7mm, maximum lenght 30mm, calorific power 5kwh/kg , lesser humidity 8%, ashes residual 0.34% it has to be pressed and not too mealy, without glue residual or additives (it is recommended certified pellets DIN-PLUsS, ONORM, UNICEN/TS). A not appropriate pellets causes a bad combustion, a frequent clogging of the brazier, discharge pumping clogging, increases the consumption and decreases the thermal performance, dirties the glass, increases the ashes quantities and not burned granules. Attention: wet pellets causes a bad functioning and a bad combustion. Therefore make sure that it is stocked in dry rooms and at least at one meter of distance from the stove and from any other heat source. We recommend to try different types of pellets that you can find in the market and choose the best one. The usage of poor pellets can damage the stove, and cancelling the warranty and the responsibility of the producer. Do not use the stove like a garbage incinerator. The use of pellets with different characteristics from the indicated ones makes necessary the modification of working parameters by a specialized technician. On all our products we use first quality materials like inox-cast iron ecc. they are tested in laboratory before the sell, but between the components that determin the flux of pellets (coclea) can exist some minimum differences in the material used, like : Roughness and Porosity that can generate some natura variations on the fuel transport (Pellet) causing an increase of the flame or decrease with the possibility of turning off when at lower powers. We recommend the checking of these parameters by an authorized assistance center.

4.INSTALLATION

4.1 PREMISE

Assembling position has to be chosen according on the environment conditions , on the outlet and on the chimney. Ask to local authorities if there are restrictive norms on the comburent air vent, environmental ventilation outlet, exhaust smoke system togheter with chimney and flue. The firm **declines every responsibility** in case of installations that not accordes the law, an incorrect air flux in the rooms, an electrical connection non-conforming the norms or a not appropriate use of the unit. The installation must be made by a qualified technician that will have to release a certification of compliance of the installation; the technician will assume all responsibility of the consequent good functioning of the product. Together with the stove there will be a testing book and a list of periodical maintainance that the technician should take care of. The technician has to enusre the presence of a comburent air vent, and check the eventual presence of other stoves that could put the room in depression (see parag. 2.9 page 6). check that, while the stove is on, there won't be presence of CO, check that the flue has proper drainage (see 9.4 page 20), check that the smoke-path is safe for its entire course (eventual loss of smoke and distance from inflammable materials ecc...)

If the flue passes through a wall, make a larger hole Ø120 , if it's an inflammable wall increase the size of the hole up to Ø300 with the insertion of isolating material. See paragraph 2.12 page 7.

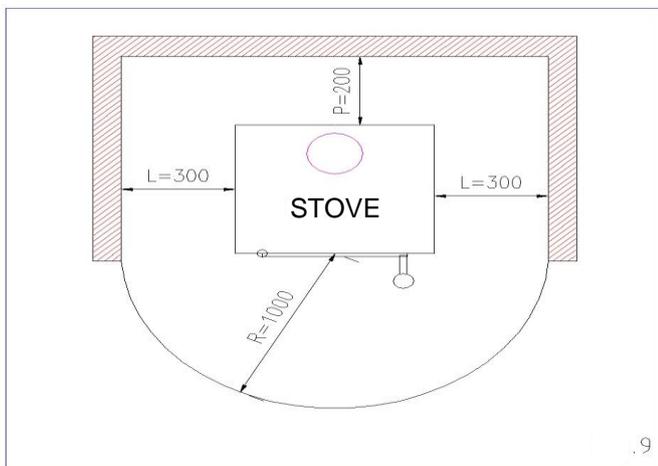
The installation of the unit must warrant easy access to its own, to the output pipes and to the flue, in order to clean them. **It is forbidden the installation** of the stove in bedrooms, toilettes, or inflammable materials stocks. In order to place more than one unit, it is necessary to adapt the external air vent see paragraph 2.9 page 6.

4.2 INSTALLATION

We suggest to install the stove separated from walls and furnishings, with an air flux of at least 15cm to allow an effective unit cooling and a good distribution of the heat in the environment.

According to the safety laws, the distances from inflammable or heat sensible objects must be respected (sofas, furnishings, wooden coatings ecc.) as in img.9. If highly inflammable objects (tents, moquettes, ecc.) the distance must be increased of 1 meter.

If the floor is made of combustible, a protection must be installed (steel plate, marble..) in incombustible material, with the measures in img.9.



The unit has to be installed on a pavement with adequate charge capacity (see paragraph 9.4 Page 20) If the existing room does not satisfies this requirement, it will be necessary to take the appropriate measures (example charge distribution plate).

4.3 ELECTRIC CONNECTION

IMPORTANT: THE STOVE MUST BE INSTALLED BY A QUALIFIED TECHNICIAN.

The electric connection consists of a plug needed for every model as specified in the technical data grill (see page 20), The plug has to be easily reachable even once the unit has been installed. Wacht out that the cable does not get in touch with the hot parts of the stove. Moreover, ensure that the electric socket has a grounding in accordance to the existing laws. If the supply cable is damaged, it must be substituted by a specialized technician.

4.4 EXTERNAL THERMOSTAT CONNECTION

The stove is already working thanks to a thermostat probe placed internally img.14 (10) . If wished it is possible to move externally the probe on the backside, we recommend not to place it close to an heat source. This operation must be done by a specialized technician.

4.5 VENTILATION

The stove has is provided with ventilators. The air pushed by the fans keeps the stove with a low speed and a cooler temperature avoiding stresses to the materials of the stove. In case of break it is necessary to substitute the ventilator. ((8) page 19).

Don't close the hot air vents otherwise the stove will go in overheating.



The stove is not suitable for the foods cooking.

5. USE

5.1 PREMISE

To reach the best efficiency at the lowest consume follow the information below. The ignition of the pellets is very easy if the installation is correct and the flue is clean. The operation is done like this: empty and clean the brazier, check that there's enough pellets in the tank, remember that if the stove is turned on for the first time, the coclea will have to fill with pellets and that causes at least 2 ignition attempts. Check that the door is closed. **PAY ATTENTION don't** use inflammable liquids during the ignition (Alcohol, gasoline, petrol, ecc.). **Important** during the first ignition is appropriate, for at least 24 hours, keep a low fire in order to allow to the materials, of which the stove is made, to adapt at the internal elastic stresses, avoiding and the paints during the first hours can produce smells and smoke, we recommend to ventilate the local because they can be harmful to animals and people.

ATTENTION the programming choices, from 1 to 5 are preset by the firm and can be changed by a qualified technician.

5.2 CONTROL PANEL

- Button P1 and P2 : when the temperature mode is on, the thermostat display increases or decreases from min.06° to max 41°C Keeping pressed P1 the temperature of the smokes is shown on the display. Both have programming function.
- Button P3 : Permits to turn on the temperature set and the user menu.
- Button P4:(ON-OFF) Turns on and off, unlocks alarms and exits the programming.
- Button P5 and P6 : Increases and decreases the calorific power from 1 to 5 .
- Led 1 : Active programming.
- Led 2 : If turned on Coclea activated.
- Led 3 : Datas from remote control.
- Led 4 : Active Thermostat.
- Led 5 : Blinking, during the temperature set or if inside the menu.
- Display A : While starting, shows the tab status. While working it shows the calorific power. While modifying parameters it shows the modified label.
- Display B: While starting, shows the tab status. While working it shows the temperature selected by the user dall'utente. While modifying it shows the modified parameter.

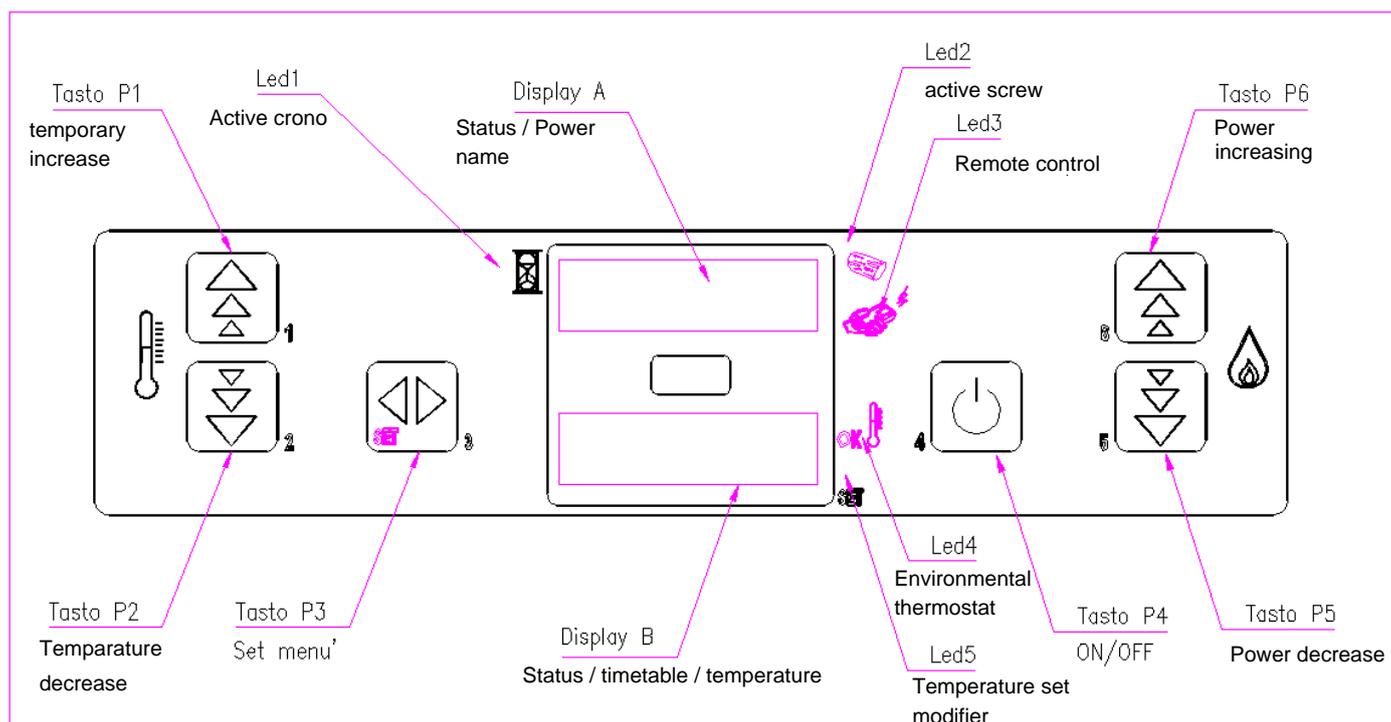


Fig.11

5.3 STARTING

In order to start the stove, press the P4 button for some instants, then, on the display will appear “Fan Cand”, turning on the vacuum at minimum level and starting the pre-heating of the resistance. After this phase, that lasts 2 minutes, is displayed “Load Wood” when the coclea charges the pellets and keeps heating the resistance. When the probe detects the correct temperature, the electrical case considers the turning on completed.(between 7 and 10 minutes) So it passes to the next phase of keeping the flame stable, displaying “FirE on” . At the end of phase “Fire On” , the electric case begins its working mode, visualizing the calorific power and the environmental temperature. It's during this phase that the power can be changed with the buttons P5 and P6 from 1 to 5.

5.4 FLAME REGULATION

After the ignition, the flame can be regulated using a cap in pvc with a diameter of 40mm applied in the combustion air entrance pipe .



If the flame is weak or has an orange color, means that the combustion is not optimal, it is necessary to open the register. The first time, do the regulation with the support of an installator. Every time that the pellets quality is changed a new regulation will be necessary.

5.5 MISSED IGNITION

In case that the pellets won't ignite, the missed ignition will be reported by an alarm “ AIAr no FirE”. The turning on of the stoves takes place in 7/10 minutes, if quality pellets is used and with an environmental temperature of about 10°. If there is a lower temperature the candle won't be able to ignite. In order to help the ignition phase introduce in the brazier some pellets and an ignited firelighter.

ATTENTION after a missed ignition, **It must empty** the brazier from the pellets accumulated , before turning on again the stove. Too much pellets in the brazier , or wet pellets, or a dirty brazier, makes the ignition difficult with the formation of white and dense smoke that

harms your health, and can determine explosions in the combusting chamber. It is necessary not to stop in front of the stove during the ignition phase if the white smoke shows. **ATTENTION** if after some months the flame is weak or with an orange color, or the glass start to become black, or the brazier begins to encrust, clean the stove (see paragraph 7) and clean the smoke channel and the flue.

5.6 MISSED ENERGY

After a black out, the stove will display “AIAr no rEtE” the smoke vacuum will expell all smoke's residues for 15 minutes beginning the swiching off phase. When the stove has cooled down empty the brazier and restart the stove.

5.7 TEMPERATURE SET

To modify the environmenta temperature set is enough to press the P3 button and contemporary regulate the temperature with the P1 and P2 buttons. The chosen temperature and the environmental temperature are displayed in the B display. If the environmental temperature superates the decided limit in the display set, the heating power is taken to the minimum level until the temperature reaches the prefixed value displaying “r IS”.

5.8 SMOKES TEMPERATURE

To check the outgoing smoke temperature press the P1 button.

5.9 SWITCH OFF

In order to swich off the stove, press the P4 button, then “OFF” will be displayed. In this phase the pellets flux is interrupted, and after 15/20 minutes the smokes vacuum swiches off . **ATTENTION if the pellets is bad quality pellets** (containing glues, oils, paints, plastic residuals or it is meany), during the working time, in the pellets discharge pipe residuals will form, and after the swiching off these residuals could become embers and reach the pellets tank, creating a dense and harmful smoke. Always keep the tank closed. If the pipe is dirty procede with the cleaning. see 7.5 page 14.

5.10 ATTENTION

During the working time the stove reaches high temperatures, keep childrens and animals far from it.

5.11 EXTINGUISH THE FIRE

In case of fire coming out of the stove, please use a fire extinguisher or call the fire fighters. DON'T use water to extinguish the fire in the brazier.

5.12 PELLETS SUPPLYING

When supplying pellets while the stove is on, pay attention not to put in touch the package with the hot surfaces of the stove. **ATTENTION** the tank of the pellets has always to be closed with its cover. Don't put in the tank residuals of embers.

5.13 CLOCK SETTING

To set the clock press repeatedly the P3 button until the clock displayed in green led lights up and shows in the display "UT02" regulate the hour through the P1 and P2 buttons.

5.14 WEEKLY PROGRAMMING

Don't activate it if 5.15 "STAND-BY" is on

It is possible to program the working time of the stove day by day for seven days with 2 daily functions (PROGRAMMA 1 and PROGRAMMA 2). Remember that by pressing P4 button it is possible to exit from the programming menu any time. The thermostats are the followings:

- UT01 Current day settings and mode.
- UT02 Hours settings.
- UT03 Minutes settings.
- UT04 Technical settings (reserved)
- UT05 Turning on settings PROGRAMMA 1
- UT06 Switching off settings PROGRAMMA 1
- UT07 Weekly turning on (MORNING).
- UT08 Turning on hour setting PROGRAMMA 2
- UT09 Switch off hour setting PROGRAMMA 2
- UT010 Weekly turning on (AFTERNOON).

To make sure if the thermostat is activated check on UT1 if "Day" is shown on the display (activated) "OFF"(disabled).

Let's see the meaning of some of these parameters.

UT01 is needed to activate the weekly programming in "Day" or excluding it when in "Off". Selecting the day of the week from "Day1" corresponding to Monday to "Day7" Sunday. If the UT01 is set on the current day (for example Day2 Tuesday) it is possible to select the day of the week and associate it to the turning on PROGRAMMA 1 and/or PROGRAMMA 2. Pressing the P1 and P2 buttons it is possible to select the wished value.

UT05-UT06 indicates the time and mode of the turning on set in PROGRAMMA 1. Their setting is active when UT01 is on weekly mode.

UT07 This parameter is active when UT01 is set in weekly mode. When the programming in PROGRAMMA 1 is active, by pressing the P1 button you can select the day of the week and with P2 button you activate/disable the turning on of the stove.

UT08-UT09 indicates the time and mode of the turning on set in PROGRAMMA 2. Their set results active when UT01 is on weekly mode.

UT010 This parameter is active when UT01 is set in weekly mode. When the programming PROGRAMMA 2 is active, with P1 button select the day of the week and with P2 activate/disables the turning on of the stove.

5.15 STAND-BY MODE

Don't activate it if 5.14 "PROGR.SETT. is on

The STAND-BY mode, activates a function that if the temperature set has been exceeded by the environmental temperature by 2/4 degrees, it begins the switch off. On the other hand if the temperature decreases more than 2/4°C the stove turns on automatically. To set press the P3 button until you will find UT04, and with P1 button reach the value 99 on your display, press P3 and set the temperature limit (3°C recommended) if the limit is 0° this function is disabled.

5.16 REMOTE CONTROL (OPTIONAL)

The stove can be regulated also with a remote control. (Using a 12v type N battery)



- Button 1 increases the temperature
- Button 2 decreases the temperature
- Button 6 increases the power level from 1 to 5
- Button 5 decreases the power level from 1 to 5
- Buttons 1 and 6 pressed contemporary allow to turn on or switch off the stove.

6. SAFETY DEVICES

6.1 PREMISE

The safety devices have the function of preventing and eliminating the risks of damages to people, animals and objects. It is forbidden to tamper it and an eventual personal. This kind of interventions cancels the warranty.

6.2 PRESSURE SWIFT ALARM

The boiler is linked to a pressure switch that controls the depression. When on the display compares "AIAr dEp" the pressure switch stops the power supply of the coclea, starting the turning off phase. The PCB lets the smoke vacuum on for 15 minutes until cooling down. Turn off the stove by pressing the ON/OFF button. Check the damage as written in page 17 and after having removed the cause, clean the brazier and turn on the stove.

6.3 THERMOCOUPLE PROBE ALARM

At the smoke discharge duct is linked a probe that keeps constantly monitored the temperature. When "AIAr Sond" is displayed, means that the probe is damaged or disconnected. The PCB stops the supply to the coclea, starting the switch off phase. The PCB lets the smoke vacuum on for 15 minutes until cooling down. Turn off the stove by pressing the ON/OFF button. Check the damage as written in page 17 and after having removed the cause, clean the brazier and turn on the stove.

6.4 MISSED IGNITION ALARM

The smoke thermocouple controls also the missed ignition, intervening if the temperature is insufficient for to have the ignition. When on the display appears "Ar no FirE" the PCB lets the smoke vacuum on for 15 minutes until cooling down. Turn off the stove by pressing the ON/OFF button. Check the damage as written in page 16 and after having removed the cause, clean the brazier and turn on the stove.

6.5 OVERTEMPERATURE ALARM

If the probe detects a discharge temperature hotter than 180°C, will be displayed "RiS", will decreased the flow of fuel (pellets) to phase 1, this function has the scope to bring the values to their default limits. If the temperature won't decrease, but increase, at 210° will be displayed "Hot temp". The PCB lets the smoke vacuum on for 15 minutes until cooling down. Turn off the stove by pressing the ON/OFF button. Check the damage as written in page 16 and after having

removed the cause, clean the brazier and turn on the stove.

6.6 SMOKE VACUUM ALARM

If the encoder of the vacuum detects a problem, will be displayed "AIAr Far Fail" . The PCB begins the turning off phase keeping the aspirator at max power. Check the damage as written on page 16. After having solved the problem, clean the brazier and turn on the stove.

6.7 ENERGY INTERRUPTION ALARM

After a black-out, the stove indicates "AIAr no rEtE". The vacuum will expell the smokes for 20 minutes, starting the turning off phase. Once cooled down, check the damage as written on page 17. After having solved the problem, clean the brazier and turn on the stove.

6.8 TANK SAFETY ALARM

Close to the tank is installed a thermostat that works if the thermal excursion exceeds the allowed limits. The thermostat stops the supply to the coclea . When the temperature will go back into the limits the thermostat will re-activate automatically.

MAINTAINANCE

7.1 PREMISE

To ensure a long life to your stove is important to follow periodically a general cleaning as indicated in the paragraphs below. Is necessary to programm with the technical service, once a year, clean the flue and the combustion chamber, check the gaskets, clean the motors and the fans, check the electric components. After a long period of unuse, before turning on the stove, check that there are not obstructions in the flue. Don't use to clean, steel wool, muriatic acid or other corrosive and scratching products that could damage the internal and external walls of the stove. For eventual substitutions of damaged parts ask for original spare parts to an authorized seller. **Important** before every intervention let the fire in the combusting chamber decrease until complete cooling and always disconnect the plug.

7.2 PAINTED PARTS CLEANING

In order to clean the painted parts use a soft cloth. Don't use substances like alcohol, diluents, degreasers that would damage the paints.

7.3 PULIZIA VETRO

The ceramic glass of the fire door resists until 700° but not to the thermal excursions. The cleaning with commercial products for glass cleaning has to be done with cold glass to avoid the **explosion** of the glass itself. In case of break it must be substituted before using the stove again. To change it follow the instructions in img. 13 page 2.

- Unscrew the 3 screws of the bead.(A) .
- take out the broken glass and change it only with an original spare part (15). Make sure that the gasket is not ruined and if necessary change it.
- Screw the screws and fix the new glass

7.4 BRAZIER AND ASH-COMPARTMENT DAILY CLEANING

Every day is necessary to clean the brazier.

A) Open the door while the stove is off.

B) Take out the brazier (M) from its location , empty from the ashes and if necessary clean it with a pointed item to free the holes from encrustings.



The ashes have to be placed in a case with cover, this case must not come in contact with inflammable materials because the ashes can keep embers for a long time. Only when the ashes are off it is possible to throw it in the organic rubbish.



- Clean and aspire the brazier's compartment from eventual ashes accumulated in its inside.(M).



- Clean the falling pellets hole with a pipe cleaner. The frequency of the cleaning is determined by the kind of pellets. Pay attention if the flame takes a red color means that it is weak, **or if it releases black smoke** it is synonymous of encrusted brazier and its cleaning is needed. If worn out it has to be substituted.(see 9.3 page 19)

7.5 SMOKE PIPE MONTHLY CLEANING

Every month is necessary to clean the discharge pipes. (see img.8 page 7).

- Take out the inspection cap of the T junction. (always when the stove is off).

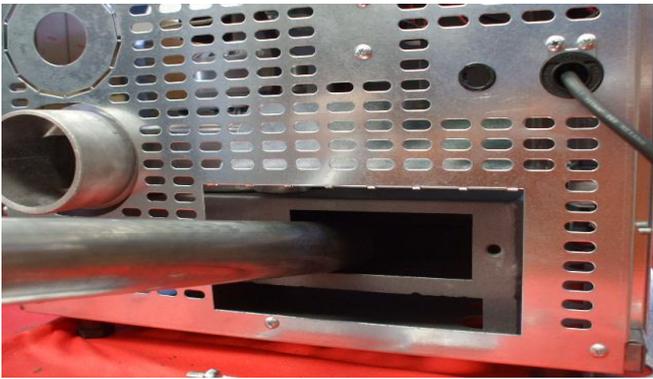


- After the cleaning, repeat the operation inverted, checking the integrity and the efficiency of the askets and if necessary change it. **ATTENTION** is important to close tightly the cap otherwise the harmful smokes will spread through the room.

7.6 SMOKE CHAMBER MONTHLY CLEANING

Every 2 weeks you have to clean the smoke's compartment (see img.14).

- Rotate the stove to reach the rear part.
- Unscrew the two cap screws (T) closing the smoke compartment.



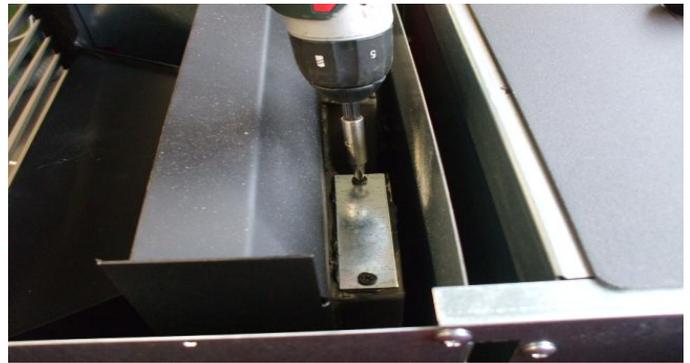
- Clean aspirating the ashes inside.
- After the cleaning repeat this operation inverted checking the integrity of the gaskets and if necessary change it.

7.7 SMOKE DUCTS ANNUAL CLEANING

Every year clean the smoke ducts (see img 14).



- Take out the cover unscrewing the upper and rear screws.



- Unscrew both upper caps screws (P)



- Brush both ducts



- Apply silicon all around the hole with high temperature resistant silicon.

7.8 ANNUAL SMOKE PIPELINES CLEANING

Clean every year the pipelines, the flue and the chimney from the soot, using recommended brushes.

7.9 VENTILATORS CLEANING

Clean every year the environmental fan and the smokes ventilator, from ash and dust, that causes noises and bad functioning (see img.14 page 19.). We recommend to call a technician to do this operation.

7.10 GASKETS CHANGE

If the silicon gasket (18) of the fire door or of the smokes cap are ruined, it is necessary to change them. Take out the gaskets and change it with original spare parts.

8. IN CASE OF ANOMALIES (ATTENTION before every test or intervention check that parameters of the PCB correspond to the list in possession of the assistance center technician).

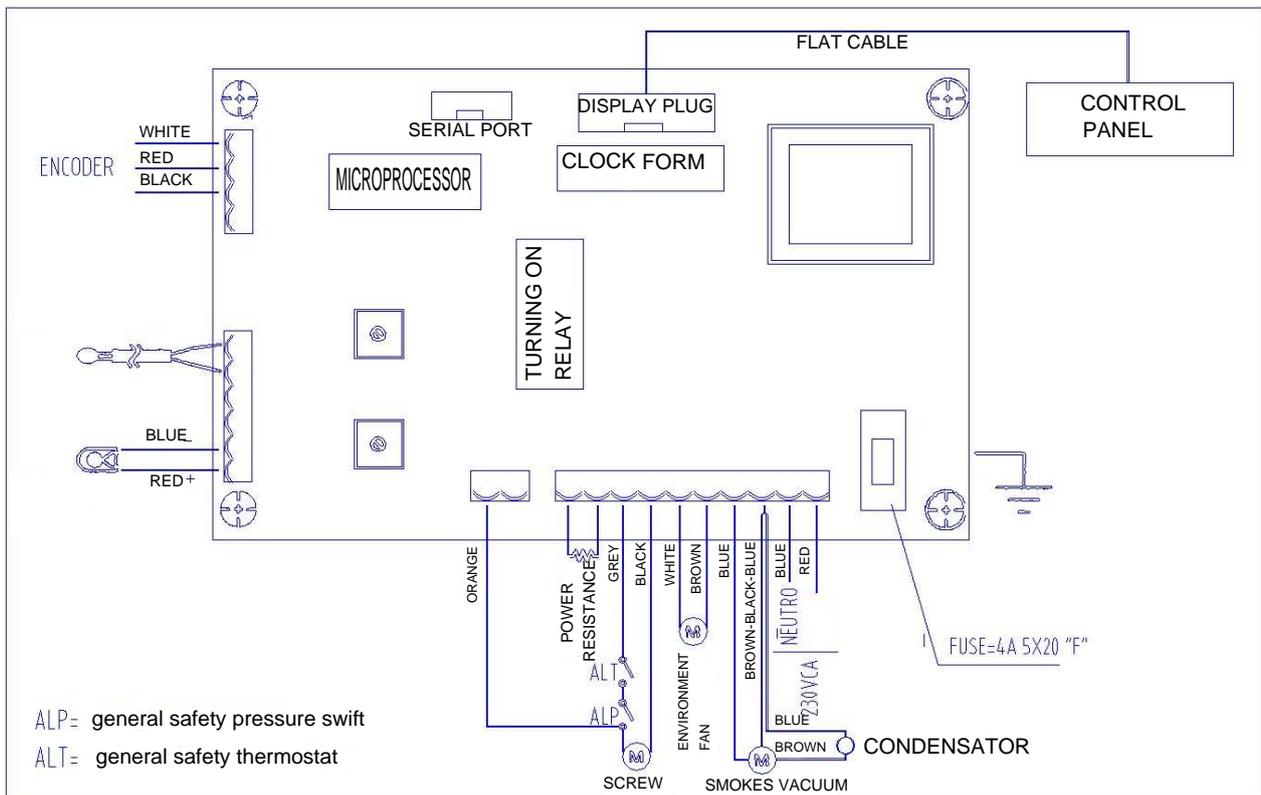
PROBLEM	CAUSE	SOLUTION
Can't accede to the control panel	<ul style="list-style-type: none"> ▪ The stove is not linked to the alimentation ▪ PCB protection fuse burned ▪ Defective control panel ▪ Defective flat cable ▪ Defective PCB 	<ul style="list-style-type: none"> ▪ Check that the plug is linked to the net ▪ Sostitute protection PCB fuse (call a qualified technician). ▪ Sostitute the control panel. (call a qualified technician). ▪ Sostitute the flat cable. (call a qualified technician). ▪ Sostitute the PCB (call a qualified technician).
The stove does not turns on Display Alarm "AlAr no FirE"	<ul style="list-style-type: none"> ▪ Empty tank ▪ The brazier has not been cleaned ▪ Probe Ignition didn't reach the turning on point ▪ Defective ignition Candle ▪ Too low external temperature ▪ Wet pellets ▪ The Thermal probe is blocked ▪ Defective PCB 	<ul style="list-style-type: none"> ▪ Fill the tank ▪ Clean the brazier paragraph.7.4 ▪ Empty the brazier and restart the stove, if the problem persists call a technician ▪ Sostitute lighter resistance (call a qualified technician). ▪ Restart the stove ▪ The pellets has to be stocked in a dry room ▪ Sostitute the smoke probe (call a qualified technician) ▪ Sostitute PCB (call a qualified technician)
The pellets does not arrives in the combustion chamber	<ul style="list-style-type: none"> • Empty tank • Blocked cochlea by outdoor objects (ex. nails) ▪ Broken cochlea gearmotor ▪ Check on the display that there is no active alarm (Alar dep,Alar sond.) 	<ul style="list-style-type: none"> ▪ Fill the tank ▪ Unplug, remove the internal hands protection, empty the tank, clean the cochlea and restart. ▪ Sostitute the 5RPM gearmotor (call a qualified technician) ▪ Let a technician overhaul the stove.
The fire extinguishes and the stove stops	<ul style="list-style-type: none"> ▪ Empty tank ▪ Blocked cochlea by outdoor objects (es. nails) ▪ Bad quality Pellets ▪ Value set in phase 1 too slow ▪ Check on the display that there is no active alarm (Alar dep,Alar sond.) 	<ul style="list-style-type: none"> ▪ Fill the tank ▪ Unplug, remove the internal hands protection, empty the tank, clean the cochlea and restart. ▪ Try different types of pellets ▪ Let a technician regulate the pellets charge. ▪ Let a technician overhaul the stove.
The fire presents a weak and colored flame, the pellets does not burns correctly and the glass gets black.	<ul style="list-style-type: none"> ▪ Insufficient combustion air ▪ Discharge obstructed ▪ Clogged stove ▪ Broken smoke vacuum 	<ul style="list-style-type: none"> ▪ Check the following points: eventual obstructions for the entrance of air from the back of the stove; Take out or regulate the Pvc cap; Clogged holes in the brazier's grill or overflow ashes compartment; clean the aspirator blades (see paragraph 7.9 in the manual). ▪ The discharge chimney is partially or totally obstructed, (Check the stove discharge from the base to the chimney). Clea nit immidiately . ▪ Clean the insides of the stove , (see paragraph 7 of the manual). ▪ The pellets can burn also thanks to the flue's depression without the help of the aspirator . Sostitute smoke aspirator immediatly, it can be harmful to your health to let the stove work without smoke vacuum.call a qualified technician.

PROBLEM	CAUSE	SOLUTION
The ventilator keeps working even if the stove has already cooled down	<ul style="list-style-type: none"> ▪ Defective smoke temperature probe ▪ Defective PCB 	<ul style="list-style-type: none"> ▪ Sostituire the smoke probe (call a technician). ▪ Sostituire PCB (call a technician)
Ashes around the stove	<ul style="list-style-type: none"> ▪ Defective door's gaskets ▪ Non hermetic smoke pipes 	<ul style="list-style-type: none"> ▪ Sostituire the gaskets ▪ Immediately seal the junction with silicon or change them. Ask for an expert stove fitter.
The stove switches off, alarm on the display "AlAr no rEtE"	<ul style="list-style-type: none"> ▪ Accidental unplugged ▪ Momentaneous electric interruption ▪ Defective PCB 	<ul style="list-style-type: none"> ▪ Check that the plug is correctly plugged ▪ Check the interruption and restart the stove ▪ Change PCB ▪ Call a technician.
With stove working properly on the display " RiS"	<ul style="list-style-type: none"> ▪ Reached environmental temperature ▪ Reached smoke output temperature 	<ul style="list-style-type: none"> ▪ The stove work at the minimum, no problems ▪ The stove work at the minimum, no problems
The stove turns off Alarm display "AlAr dEp"	<ul style="list-style-type: none"> ▪ The door is not closed ▪ Discharge obstructed ▪ Broken smoke aspirator ▪ Attacco portagomma ostruito ▪ Pressostato difettoso ▪ Defective PCB ▪ Flue too long. ▪ Bad weather conditions 	<ul style="list-style-type: none"> ▪ Close the door properly and check that the gaskets are not worn, and in case change them. ▪ The discharge flue is partially or totally obstructed (check the flue, the chimney and call a stove fitter) and clean it immediately. ▪ The pellets can burn thanks to the depression of the flue without the aid of the vacuum. It can be harmful to let the stove work without aspirator. ▪ Remove the silicon pipe with the aid of a pointed iron and clean the gum hole. If necessary substitute the pipe. ▪ Sostituire the pressure swift. ▪ Sostituire the PCB ▪ Check that the discharge pipe respects the existing laws and call stove fitter. ▪ In case of wind there can be a negative pressure in the chimney. Control and in case reset the stove.
The stove turns off Alarm display "AlAr dEp"	<ul style="list-style-type: none"> ▪ Boiler overheated ▪ The ventilator exchanger does not works ▪ Temporary interruption of the electric energy ▪ Defective Thermostat ▪ Defective PCB 	<ul style="list-style-type: none"> ▪ Let the stove cool down, the thermostat will reactivate immediately. If the problem persists call a technician. ▪ Substitute the environmental fan. Call a technician. ▪ The lack of tension during the functioning implies a boiler overheating and a thermostat intervention. Let the stove cool down and restart the stove. ▪ Substitute the thermostat 60° NC ▪ Call a technician. ▪ Substitute the PCB ▪ Call a technician.

PROBLEM	CAUSE	SOLUTION
The stove turns off Display alarm "AlAr HottEmp"	<ul style="list-style-type: none"> Defective smoke probe Defective PCB The environmental exchanger doesn't work. Parameter set in the PCB in phase 5 too high 	<ul style="list-style-type: none"> Sostitute the smoke's probe Call a technician. Sostitute the PCB Call a technician. Sostitute the ventilator Call a technician. Let a stove fitter control the pellets load.
The stove turns off Display alarm "AlAr Sond"	<ul style="list-style-type: none"> Disconnected smokes probe Defective smokes probe 	<ul style="list-style-type: none"> Check that the probe is linked to the PCB or inserted in the vacuum. Call a Technician. Substitute the smoke probe. Call a technician.
With the stove working "Stop FirE" on the display	<ul style="list-style-type: none"> Clean brazier 	<ul style="list-style-type: none"> The stove is working at the minimum, smoke's aspiration at maximum, no problems.
Displ. alarm "AlAr FAn FAil"	<ul style="list-style-type: none"> Broken smokes aspirator 	<ul style="list-style-type: none"> The smokes aspirator goes always at the maximum power. Sostitute immediately the aspirator. Call a technician.

9. TECHNICAL DATA

9.1 ELECTRIC SCHEME



9.2 INFORMATIONS ABOUT REPAIRING

We give some indications to the technician in order to reach some mechanical parts of the stove, proceed as written below.(see img.14):

- Unscrew the cover. Unhook the lateral flanks. (see img.14).

After these operations it is possible to reach the following components: geared motor (3) ,ignition candle(5), environmental ventilator(8), smoke aspirator (7), environmental probe (10), smoke probe (9), thermostat (6) , PCB (1), pressure swift (4).

- To substitute or clean the cochlea, it is necessary to unscrew the three bolts of the geared motor (3) and remove it, unscrew the two screws under the cochlea motor, take out the indoor hand protection inside the tank, than unscrew the bolt inside the cochlea. To reassemble it procede inversely.

9.3 SPARE PARTS

RIF	CODE	DESCRIPTION
1	COM0231-2	PCB
2	COM0266	CONTROL PANEL CARD
3	COM0232	GEARED MOTOR MR9 11 5RPM
4	COM0233-2	PRESSURE SWIFT AZBIL 0.39
5	COM0225-1	IGNITOR RESISTANCE 300W
6	COM0207-1	THERMOSTAT NC 60°
7	COM0236	ASPIRATOR EBM
8	COM0268	VENTILATOR TGA60/300
9	COM0239	THERMOCOUPLE SMOKE PROBE
10	COM0238	ENVIRONMENTAL THERMORESISTANCE
11	COM0401	SILICON PIPE 7X4X400
12		
13		
14		
15	AID5210	CERAMIC GLASS 272X360
16	AID5690	BRAZIER+ASH COMPARTMENT
17	SLM0604	BRAZIER GRILL D=72
18	COM0244	FIRE DOOR SILICON GASKET
19		
20	SOL0206-L	ROTATING PIN FOR HANDLE
21		
22		

The firm reserves the right to do all kind of modification in order to improve the performances.

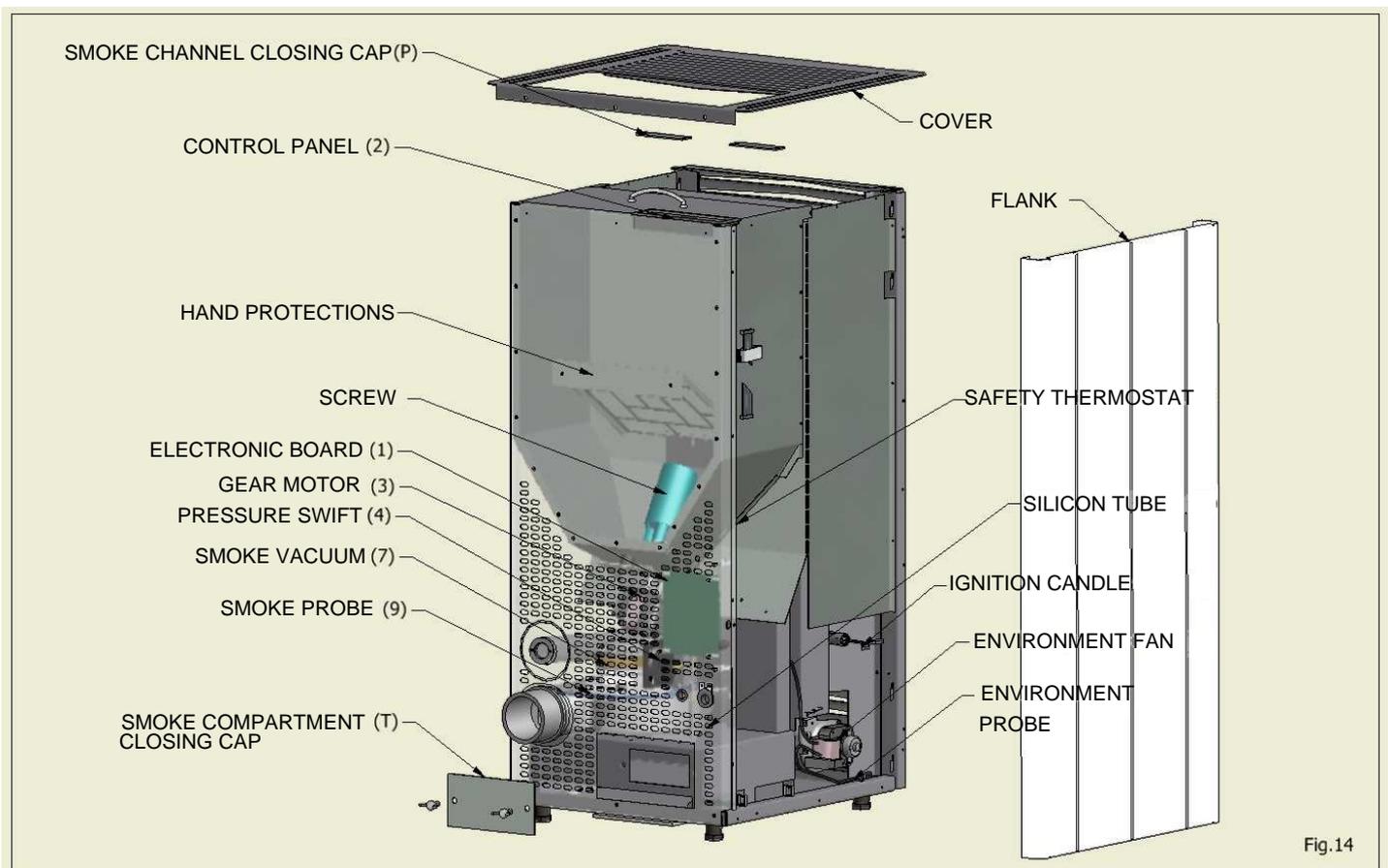


Fig.14

9.4 FEATURES

DESCRIPTION	REBECCA		ARIANNA
	7kw		8,5kw
WIDTH	48,6 cm		51.5 cm
DEPTH	46.6cm		46.6cm
HEIGHT	95 cm		95 cm
WEIGHT	68 kg		73 kg
THERMIC POWER, INTRODUCED (Min/Max)	4,4-8kw		4,4-9,7kw
THERMIC POWER, NOMINAL (Min/Max)	4,1-7kw		4,1-8,5kw
EFFICIENCE (Min/Max)	92-88,5%		92-88%
SMOKE TEMPERATURE (Min/Max)	117-180C°		117-208C°
MAXIMUM RANGE (Min/Max)	4,08-6,41 g/s		4,08-6,6 g/s
EMISSIONS CO (13% O2) (Min/Max)	0.034-0.019%		0.034-0.019%
EMISSIONS CO2 (Min/Max)	7,5%-8,8%		7,5%-10,4%
AVERAGE content of CO at 13%O2 (Min/Max)	mg/Nm3 430-236		mg/Nm3 430-236
AVERAGE DUST content to 13%O2 (Max)	mg/Nm3 29		mg/Nm3 29
FLUE DEPRESSION (Min/Max)	10-11Pa		10-11Pa
MINIMUM DISTANCE from inflammable materials	30cm		30cm
ON SHARED FLUE	NO		NO
SMOKE DISCHARGE DIAMETER	Ø80mm		Ø80mm
FUEL	PELLETS Ø6		PELLETS Ø6
PELLETS CALORIFIC POWER	18200KJ/Kg		18200KJ/Kg
PELLETS HUMIDITY	4.3%		4.3%
TANK CAPACITY	18kg		18kg
HEATABLE VOLUME 18/20C° Coeff 0.045kw (Min/Max)	98-170 M3		98-205 M3
CONSUMPTION PER HOUR (Min/Max)	0,91-1,66 kg/h		0,91-2,01 kg/h
AUTONOMY (Min/Max)	19,8-10,8h		19,8-9,0h
ALIMENTATION	230V-50Hz		230V-50Hz
POWER ABSORBED (Max)	360w		360w
POWER ABSORBED IGNITOR RESISTANCE	300w		300w

FREE POINT brand is distributed by:



Via S.M. Maddalena, 53 – 36016 Thiene (VI)
 Tel. +39 0445 367144 – Fax +39 0445 1920928
 sito: www.at-italia.com e.mail commerciale@at-italia.com