

SEALED PELLET STOVE

ALEA AIR 7 S1 ALEA AIR 7 XUP! S1

PART 2 - OPERATION AND CLEANING

Instructions in English





8902209900

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11-FIRST START-UP

WARNINGS BEFORE IGNITION GENERAL WARNINGS

Remove any objects that may burn from the product brazier and from the glass (manual, various adhesive labels or any polystyrene). **Check that the brazier is positioned correctly and rests properly on the base.**



The first ignition may not be successful as the feed screw is empty and does not always manage to load the brazier with the required amount of pellets in time to light the flame.

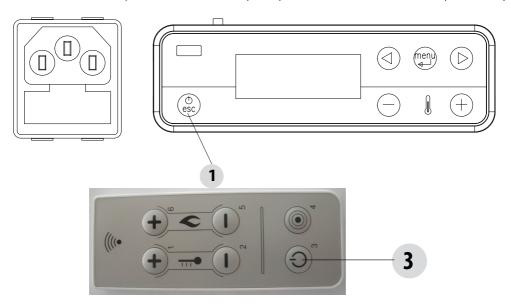


CANCEL THE FAILED IGNITION ALARM BY PRESSING AND HOLDING THE ON/OFF KEY FOR A FEW SECONDS. REMOVE THE PELLETS LEFT IN THE BRAZIER AND REPEAT IGNITION.

SETTINGS TO BE CARRIED OUT BEFORE THE INITIAL START-UP

First connect the power cable to the back of the stove and then to a wall socket.

To switch the stove on and off, press the button 1 on the control panel or press the button 3 from the remote control (optional accessory).



The <u>display on the panel will be ON with a flashing flame.</u> When the flame stops blinking, the stove has reached the operating condition to "supply power".

The default factory set room temperature is 20°C. To change this setting, follow the instructions in the adjustments menu. Do the same to set the heating water temperature and the speed of the room fan (if required). To activate an external thermostat, if present, see the dedicated paragraph.

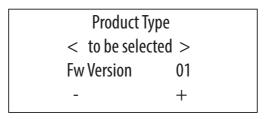
11-FIRST START-UP

SETTING THE TYPE OF INSTALLATION WHEN STARTING THE PRODUCT FOR THE FIRST TIME



The installation of the product and the type of installation must only be carried out by a qualified operator.

The first time the stove is switched on, the PRODUCT TYPE screen appears.



After choosing the PRODUCT TYPE, the INSTALLATION TYPE screen appears.

On this screen, you can choose the installation with a single wall MONO flue or a double wall COAX flue.

The MONO type of single wall installation applies to both the rear and upper smoke outlet, whereas the COAX double wall is only valid for the XUP installation (see chapter 5, SMOKE OUTLET).

After selecting the type of installation, the screen returns to HOME, and it will no longer be possible to see the PRODUCT TYPE screen at the first start-up.

It is, however, possible to change the type of installation by accessing the "TECHNICAL MENU" (a password is required and, therefore, the intervention of an AUTHORISED TECHNICIAN).

11-FIRST START-UP

SWITCHING THE EQUIPMENT OFF

To switch off the appliance, press the button 1 on the emergency panel or the button 3 on the optional remote control.

The equipment will start the shutdown process which involves consuming the residual pellets in the brazier, the latter being cleaned and the residual heat in the structure being dissipated.

During the residual heat dissipation phase, the fans operate at about 80% of their output and the speed cannot be varied. This is determined by the need for all the accumulated heat to be evacuated safely and quickly. The shutdown stage can last 15 - 30 minutes depending on the heat stored in the structure, determined by the duration and the operating speed of the product throughout the day. When the internal temperature drops below the set thresholds, the fans for hot air and exhaust smoke extraction will automatically switch off.

POWER SUPPLY

When ignition is complete, the panel will display <u>ON with a steady flame</u> at level 3 . The following flame modulation for higher or lower power is then controlled autonomously based on reaching the set temperature.

(also see "OPERATING MODE" - "Set Flame")

If the flame fails to ignite, despite a regular flow of pellets, check that the brazier is seated correctly: it must **rest snugly against the interlocking slot and be clean of any ash incrustations.** If no anomaly is found during this inspection, there may be a problem with the product components or installation may not be correct.



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

Please ensure the brazier is clear of ALL pellets and ash build up following any failed ignitions. Failure to clear out the brazier prior to resetting may result in further failed ignitions or explosive ignition under certain conditions.



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

Do not stand close to the product and ventilate the room as mentioned. The smell of paint will disappear after about an hour of operation, however, it is not harmful in any case.

The product will be subject to expansion and contraction during the ignition and cooling stages, therefore slight creaking noises may be heard.

This is perfectly normal as the structure is made of laminated steel and must not be considered a defect.



DO NOT EXPECT HEATING EFFICIENCY IMMEDIATELY!!! THE PRODUCT NEEDS SOME RUNNING-IN TIME.

It is extremely important to make sure the product does not reach high temperatures straight away, but to increase the temperature gradually using low power at first.

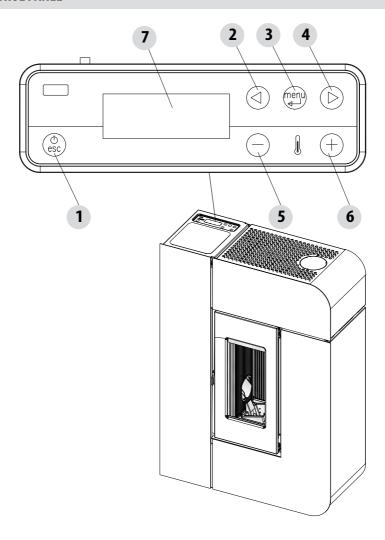
This will prevent damage to the welds and to the steel structure.



Do not touch the product during the first lighting, as it is during this stage that the paint sets. If you touch the paint, you may expose the steel surface.

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

12-CONTROL PANEL



KEY

- 1. Stove start-up/shutdown
- 2. Scrolling down through the programming menu.
- 3. Menu
- 4. Scrolling up the programming menu.

- 5. Decreases set temperature / programming functions.
- 6. Increases set temperature / programming functions.
- 7. Display.

MAIN MENU

Press key 3 (menu) to access it. The options accessed are:

- Date and Time
- Timer
- Sleep (only when stove is on)
- Settings
- Info

Date and time configuration

Proceed as follows to configure the date and time:

- Press the "menu" key.
- Select "Date and Time".
- Press "menu" to confirm
- Scroll through with the arrow keys and select the variables to be edited one at a time: Day, Hour, Min, Num. day, Month, Year.
- Press "menu" to confirm.
- Use the + and keys to edit.
- Lastly, press "menu" to confirm and "esc" to exit.

CONFIGURATION OF PROGRAMMED MODE (TIMER) - Main menu



The current time and date must be configured to ensure correct operation of the timer.

There are six configurable TIMERS. For each one, the user can select a start-up and shutdown time and the days of the week when it is in use.

When one or more programs are active, the status of the stove and the TIMER "n" alternate on the display, "n" is the number of timer programs in use, separated by dashes

Example:

TIMER 1 Timer 1 program active.

TIMER 1-4 Timer 1 and 4 programs active.

TIMER 1-2-3-4-5-6 All timer programs active.

EXAMPLE OF PROGRAMMING

With the stove on or off:

- access the MENU,
- scroll to the TIMER item by using the <> arrows,
- press the "Menu" key
- the system shows "P1" (Press the <> keys to move through the timers P2, P3, P4, P5, P6)
- Press the "Menu" key to activate "P1"
- press + and select "ON"
- press the "Menu" key to confirm

At this point the start time is 00:00. Press the + - key to set the start time and press the "menu" key to confirm.

Next, the proposed shutdown time is 10 minutes later than the configured start time: press the + key and edit the shutdown time, and press the "menu" key to confirm.

Next, you are asked to set the days of the week when the configured timer is to be enabled or disabled. Press the - or + keys to select the day you want to activate the time. It will light up white, then confirm with the "menu" key. If no day of the week is selected for enabling the timer, the timer program is no longer enabled on the status screen.

Next, program the other days or press "ESC" to exit. Repeat this procedure to program the other timers.

EXAMPLES OF PROGRAMMING:

P1			P2		
on off day			on	off	day
08:00 12:00 mon			11:00	14:00	mon
Stove on between 08:00 and 14:00					

P1			P2		
on off day			on	off	day
08:00 11:00 mon			11:00	14:00	mon
Stove on between 08:00 and 14:00					

P1			P2		
on	on off day			off	day
17:00 24:00 mon			00:00	06:00	tue
Stove on between 17:00 on Monday to 06:00 on Tuesday					

NOTES ON USE OF THE TIMER

- The timer start always occurs with the last temperature and ventilation settings (or with the default settings at 20°C and V3 if they
 have never been altered).
- The start-up time goes from 00:00 to 23:50
- If the shutdown time has not yet been saved, the program proposes a start-up time at +10 minutes.
- A timer program turns off the stove at 24:00 on one day and another program starts it up at 00:00 on the next day: the stove remains
 on.
- A program proposes a start-up and/or shutdown time that overlap the times of another program: if the stove is already on, the start
 has no effect while OFF turns off the stove.
- When the stove is on and the timer is active, pressing the OFF key turns off the stove. The stove then restarts automatically at the
 next time of the timer.
- When the stove is off and the timer is active, pressing the ON key turns on the stove. The stove then stops automatically at the next time of the timer.

SLEEP FUNCTION (main menu)

Sleep mode may only be activated when the stove is on and allows you to quickly set a time for the product to turn off.

To set the Sleep function, proceed as follows:

- Enter the MFNU
- Scroll to the SLEEP item with the <> arrows
- Press Menu
- Set the desired shutdown time by using the + and keys.

The panel shows a shutdown time of 10 minutes after the current time, which can be adjusted with key 6 up to the following day (i.e. the shutdown can be delayed up to a maximum of 23 hours and 50 minutes).

If the SLEEP function is active with the TIMER active, the former has priority, therefore the stove will not turn off at the time set in the timer program but at the time set by the sleep function, even if it comes after the time set by the timer.

OPERATING MODE ADJUSTMENT MENU

"Adjustments" menu settings determine the operating mode of the stove.

To access the menu, proceed as follows:

- Press the + keys
- Scroll by using the <> arrows and select "Set Amb. T" or "Set Ventilation T" or "Set Flame"
- Press "menu" to enter the option selected.
- Change by using the + keys.
- Press "menu" to confirm and "esc" to exit.

Set Amb T - this function is used to set the temperature to be reached in the room in which the stove is installed, from a minimum of 5°C to a maximum of 35°C. When this condition is met, the stove setting is equivalent to the minimum consumption values (the flame and hot air fan speed at minimum), and then returns to the set values when the room temperature drops below the set threshold.

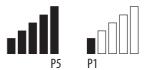
N.B: The point to the right of the room temperature on the control panel display indicates the half degrees (e.g. $23.^{\circ}$ C is equivalent to 23.5° C).

Set Vent - this function allows you to select the desired speed of the room fan from 1 to 5.

<u>Set Flame</u> - this function allows you to set the power of the flame from a minimum of 1 to a maximum of 5. The power levels correspond to a different value of fuel consumption, setting 5 heats the room in less time and setting 1 can keep the room temperature stable for a longer period of time. The set flame is automatically set to a minimum when the set temperature value is reached.

DISPLAY WITH STOVE ON

if the bars are all full, the stove is on flame power 5 if only one bar is full, the stove is on flame power 1 if the bars are flashing, automatic cleaning is in progress



SETTINGS MENU

The SETTINGS menu enables to configure the stove operating modes:

- a. Language.
- b. Cleaning (only displayed when stove is off).
- c. Feed screw loading (shown only when stove is off).
- d Tones
- e. External thermostat (activation).
- f. Auto Eco (activation).
- g. Eco Turn-off T (default 10 minutes).
- h. Pellet recipe.
- i. Smoke rpm % var.
- j. Components test (only displayed when the stove is off)
- k. "Chimney sweeper" function (can only be enabled when stove is on, to check emissions in field).
- Technical menu.

a - Language

Proceed as follows to select the language:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "language".
- Press "menu" to confirm.
- Use the + keys to select the required language (IT/EN/DE/FR/ES/NL/PL/DK/SLO)
- Press "menu" to confirm and "esc" to exit.

b - Cleaning

Proceed as follows to select "Cleaning" (only with stove off):

- · Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "Cleaning".
- Press "menu" to confirm.
- Use the + keys to select "On".
- Press "esc" to exit.

c - Feed screw loading

To select "Feed screw loading" (only with stove off), proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll with the arrows and select "Feed screw loading".
- Press "menu" to confirm.
- With the + key "Enable" feed screw loading.
- Press "esc" to exit.

d - Tones

This function is disabled by default. To enable it proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "Tones".
- Press "menu" to confirm.
- Using the + keys, select "On/Off".
- Press "menu" to confirm and "esc" to exit.

e - External thermostat (see dedicated chapter)

f - Auto-Eco activation (see dedicated chapter)

To select the Auto-Eco function, proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll by using the arrows and select "Auto-Eco".
- Press "menu" to confirm.
- Use the + keys to select "On".
- Press "menu" to confirm and "esc" to exit.

g - Eco stop t (see dedicated chapter)

To select the Eco stop t function, proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll with the arrows and select "Eco stop t.
- Press "menu" to confirm.
- With the + keys, insert the minutes (from 1 to 30').
- Press "menu" to confirm and "esc" to exit.

AUTO ECO MODE (see activation and shutdown paragraph above)

For activation of the "Auto Eco" mode and time adjustment, see paragraphs f and g respectively.

The option "ECO stop t" can be adjusted to ensure correct operation in the various environments in which the stove can be installed and to avoid constant shut-downs and start-ups when the room temperature is subject to sudden change (drafts, poorly insulated rooms, etc.). The ECO shutdown procedure is activated automatically when the power recall device is satisfied (room probe +1°C or external thermostat with an open contact), the "ECO stop t starts to decrease the time (factory default 5 minutes, which can be changed from the "Settings" menu). During this stage, the panel alternates between displaying 0N with a small flame and Timer (if active) - Eco active. The minutes counting down to Eco Stop are shown at the top of the display. The flame moves to P1 and remains there until the set ""ECO stop T" time reaches zero, and if the conditions are still met, goes to the shutdown stage. The ECO stop count is cancelled if one of the devices recalls power.

When the boiler begins to turn off, the panel displays: Off - Eco Active - flashing small flame.

When the stove turns off, OFF-ECO appears on the display with the flame symbol off.

The following conditions have to be met simultaneously for ECO to restart:

- room probe -1°C or external thermostat with a closed contact (for at least 20" in order to prevent false recalls)
- 5 minutes have passed since shutdown.

h - Pellet Recipe

This function is for adapting the stove to the type of pellet in use. As there are many types of pellets available on the market, operation of the stove can vary considerably according to the quality of the fuel. When the pellets clog up the brazier due to excess loading of fuel or when the flame is always high even at low power, or when the flame is low, it is possible to decrease/increase the amount of pellets in the brazier:

The available values are:

- -3 = A decrease of 20% with respect to the factory setting.
- -2 = A decrease of 13% with respect to the factory setting.
- -1 = A decrease of 6% with respect to the factory setting.

0% No changes.

- 3 =An increase of 10% with respect to the factory setting.
- 2 = An increase of 6% with respect to the factory setting.
- 1 =An increase of 3% with respect to the factory setting.

Proceed as follows to edit the recipe:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll with the arrows and select "Pellet recipe".
- Press "menu" to confirm.
- Edit the % by using the + keys.
- Press "menu" to confirm and "esc" to exit

i - Smoke rpm % variation

In the event the installation presents problems in extracting smoke (lack of draught or even pressure in the duct), it is possible to increase the smoke and ash extraction speed. This change resolves all potential problems related to pellets clogged 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 ash. The values available range from -30% to +50%, with increments of 10 percent at a time. Negative variation may be required if the flame is too low.

To edit this parameter, proceed as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Scroll with the arrows and select "Fume rpm Var.".
- Press "menu" to confirm.
- Edit the % by using the + keys.
- Press "menu" to confirm and "esc" to exit

j - Components test

This can only be done when the stove is off and allows you to select the components to be tested:

- Glow plug: it is turned on for a fixed period of 1 minute during which the panel displays the countdown in seconds.
- Feed screw: it is powered for a fixed period of 1 minute during which the panel displays the countdown in seconds.
- Extractor: it is activated at 2500 rpm for a fixed period of 1 minute during which the panel displays the countdown in seconds.
- Heat exchanger: enables you to conduct the test in V5 for a fixed period of 1 minute during which the panel displays the countdown in seconds.

Proceed as follows to enable the "Components test" function (only with stove off):

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"

- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "Components test".
- Press "menu" to confirm.
- Use the + keys to select the test to be carried out
- Press "menu" to confirm and "esc" to exit

k - Chimney sweeper function (for maintenance operators only) -

This function can only be activated when the stove is on and power is supplied, and it forces heating operation at parameters P5, with fan (if present) in V5. Any corrections to the loading/smoke ventilation percentage must be read. This state lasts 20 minutes, the countdown is displayed on the panel.

The technician can stop this stage at any moment by quickly pressing the on/off key.

Enable the "Chimney sweeper" function as follows:

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "Chimney sweeper function".
- Press "menu" to confirm.
- Use the + keys to select "On" (Off by default)
- Press "menu" to confirm and "esc" to exit

I - Technical menu

To access the technical menu, you must contact the service centre as it requires a password.

Proceed as follows to access the "technical menu":

- Press the "menu" key.
- Use the arrow keys to scroll through and select "Settings"
- Press "menu" to confirm.
- Use the arrow keys to scroll through and select "Technical menu".
- Press "menu" to confirm.
- With the + keys, select "Product Type", "Service", "Counter memories", "Parameters".
- Press "menu" to confirm and "esc" to exit

INFO MENU

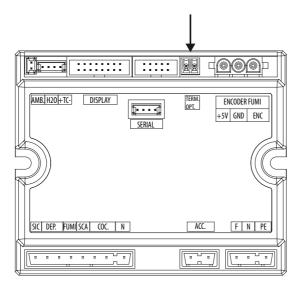
- Product type
- Firmware version
- Software info
- Total hours
- No. of start-ups
- Extractor rpm
- Smoke T.
- Heat exchanger voltage
- Feed screw loading
- Flame

EXTERNAL THERMOSTAT CONNECTION (optional)



The room thermostat is not included with the stove and must be installed by a qualified technician. ATTENTION!

The electrical wires must not come into contact with the hot parts of the stove.



The temperature of the stove can also be controlled by an external room thermostat. It must be positioned centrally in the room where the stove is installed. It provides a closer match between the heating temperature required to the stove and the actual room temperature it provides.

Connect the cables coming from the external thermostat to terminal "Term opt" on board N100 on the stove.

Proceed as follows to enable the external thermostat (factory settings OFF):

- Press the "menu" key.
- Scroll with the arrows to "Settings".
- Press "menu" to select.
- Now use the arrows to scroll to "External thermostat".
- Press "menu" to select.
- Press the + keys.
- Select "On" to activate the external thermostat.
- Press the "menu" key to confirm.
- Press the "esc" key to exit.

Once the external thermostat has been enabled, instead of displaying the detected temperature from the probe on the stove, ON or OFF will appear, depending on whether you have requested heat from the external thermostat or not

ON if the external thermostat contact is <u>closed</u>, **OFF** if the contact is <u>open</u>.

14-SAFETY DEVICES

SAFETY DEVICES

The product is fitted with the following safety devices

PRESSURE SWITCH

Monitors pressure in the smoke duct. It is designed to shut down the pellet feed screw in the event of an obstructed flue or significant back-pressure (from wind)

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.

CONTACT THERMOSTAT IN THE FUEL TANK

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

ELECTRICAL SAFETY

The stove is protected against violent changes in current by a general fuse located in the control panel at the back of the stove. Other fuses that protect the circuit boards are located on the latter.

SMOKE FAN

If the fan stops, the circuit board immediately shuts off the supply of pellets and an alarm message is displayed.

GEAR MOTOR

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

TEMPORARY POWER OUTAGE

When a power outage lasts less than 10" the stove returns to its previous operating state. If it is longer, it executes a cooling/re-ignition cycle.



FAILED IGNITION

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



TAMPERING WITH THE SAFETY DEVICES IS PROHIBITED

If the product is NOT used as described in this instruction manual, the manufacturer declines all liability for any damage caused to persons and property. The manufacturer furthermore denies any liability for damage to persons and property arising from failure to observe all the rules contained in the manual and specifically:

- All the necessary measures and/or precautions must be adopted when performing maintenance, cleaning and repairs.
- Do not tamper with the safety devices.
- Do not remove the safety devices.
- · Connect the product to an efficient smoke expulsion system.
- First, check that the environment where it is to be installed is properly ventilated.

Only after having removed the cause that triggered the safety system is it possible to start the product again and therefore restore automatic operation of the probe. This manual will help you understand which anomaly has occurred, and explain how to operate according to the alarm message displayed on the appliance.

ALARM SIGNALLING

When an operating condition other than the one expected for regular stove operation occurs, an alarm is triggered.

The reason for the alarm is shown on the control panel. The sound signal is not enabled for alarms A01-A02 in order not to disturb the user when there is an absence of pellets in the hopper during the night.

Panel signalling	Type of problem	Solution
A01 FAILED IGNITION	The flame does not ignite	Check the level of pellets in the hopper. Check that the brazier is correctly positioned in its seat and has no deposits or unburnt material. Make sure the glow plug warms up. Thoroughly empty and clean the brazier before restarting.
A02 NO FLAME	The fire goes out abnormally.	Check the level of pellets in the hopper.
A03 Thermostat alarm	The temperature of the pellet hopper exceeds the required safety threshold.	Wait until the end of the cooling stage, stop the alarm and re-ignite the stove setting the supply of fuel to minimum (SETTINGS menu - Pellet recipe). If the alarm persists, contact the service centre. Check whether the room fan is working correctly.
A04 SMOKE OVERTEMPERA- TURE	Smoke overtemperature.	Reduce the load of pellets (SETTINGS menu - Pellet recipe). Check cleaning of the brazier
	Smoke pressure switch triggered	Check for chimney obstructions / door open
A05	Fuel loading hatch	Close the hatch. Lower the fuel level in the hopper.
Safety devices alarm	Open stove door	Close the door
A08 FUMES MOTOR FAULT	Anomalous operation of smoke fan.	Cancel the alarm and turn the stove on again. If the alarm persists, contact the service centre.
A09 Smoke sensor fault.	Smoke sensor fault.	Cancel the alarm and turn the stove on again. If the alarm persists, contact the service centre.
Service	Routine maintenance warning (does not stop operation).	When this blinking message appears at start-up, it means that the operating hours preset before maintenance have expired. Call the service centre.

ALARM RESET

To reset the alarm, press and hold key 1 (ESC) for a few seconds. The stove checks whether or not the cause of the alarm is ongoing. In the first case, the alarm continues to be displayed, in the second case it turns OFF.

If the alarm persists, contact a service centre.

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NORMAL SHUTDOWN (on the panel: OFF with flashing flame)

When the shutdown key is pressed, or when there is an alarm signal, the stove enters the thermal extinguishing stage which involves automatic execution of the following stages:

- Pellet loading stop
- The room fan maintains the set speed until reaching the shutdown temperature
- The smoke extractor fan is activated at maximum speed and remains on for a fixed period of 10 minutes, at the end of which if the
 smoke T has dropped below the shutdown threshold, the fan stops, otherwise it will continue to operate at minimum speed until the
 temperature drops below the threshold and then turn off.
- If the stove has been shut down regularly but, due to thermal inertia, the smoke temperature exceeds the threshold again, the shutdown stage will be repeated at minimum speed until the temperature drops.

BLACKOUT WITH STOVE ON

In the event of a blackout, the stove acts as follows:

- Blackout less than 10": resumes operation;
- After a power outage of more than 10" which occurred when the stove was on, or during ignition, when the stove is powered again it returns to its previous operating condition as follows:
- 1. Cools the boiler by activating the smoke extractor at minimum speed for 10' then proceeds to the next step;
- 2. Restores the stove to the operating condition prior to the blackout.

During stage 1, the panel shows ON BLACK OUT.

During stage 2, the panel shows Ignition.

If during stage 1 the stove receives manual user commands from the control panel, it stops the blackout reset sequence and begins the start-up or shutdown as requested by the user.

BLACKOUT OF MORE THAN 10" DURING STOVE SHUTDOWN

If the stove experiences a loss of power LONGER THAN 10" while it is shutting down, when power is restored to the stove, it will automatically turn on in shutdown mode, even if the smoke temperature has fallen below 45°C in the meantime. This last stage can be skipped by pressing key 1 (esc) (skips to start-up) and pressing it again (recognises that the stove is off).

BLACKOUT OF MORE THAN 10" WITH THE STOVE OFF FOR ECOSTOP

Once power has been restored, a 5-minute timer is set as though the stove were in shutdown mode. Should there be a request for heat in these 5 minutes, the stove will not start.

SAFETY DEVICES ALARM A05

The safety devices alarm includes operation of the smoke pressure switch, of the fuel loading hatch and of the open stove door. The alarm will be triggered after 30 seconds, after which the stove will stop working (e.g. after 30 seconds with the pellet loading hatch open, alarm A05 will be triggered).

ALARM AOS AND MINIMUM NEGATIVE PRESSURE INSIDE THE PELLET HOPPERS OF THE SEALED PRODUCTS

In the event that alarm A05 is triggered often, please note that:

AAF	Smoke pressure switch triggered	Check for chimney obstructions / door open
A05	Fuel loading hatch	Close the hatch.
		Lower the fuel level in the hopper.
Safety devices alarm	Open stove door	Close the door

it is required to check some points to verify the cause of the problem and potentially operate on some adjustments and/or safety devices to restore correct operation of the product.

However please note that all adjustments and alterations affecting the operational safety devices, must only be performed if THE PRODUCT IS INSTALLED IN COMPLIANCE WITH THE STANDARDS AND LAWS IN FORCE AND IF IT IS SERVICED PROPERLY BY AUTHORISED AND SPECIALISED PERSONNEL. Alterations performed randomly, to ensure operation of the product even under non-compliant conditions, can cause serious damage to property and injuries to people.



Attention!

The adjustments must only be carried out by authorised and qualified personnel under their responsibility and by checking the conformity of the installation beforehand. The manufacturer declines all liability for damage to property or injuries to people if the safety devices are altered.

All liability for improper use of the product is entirely borne by the user and relieves the manufacturer from any civil and criminal liability.

Series of stoves equipped with a pressure switch installed on the hopper with the sampling point positioned on the bottom, to the right of the gear motor. This system protects the whole system ensuring tightness of the stove throughout its duration.

It is important to understand that the pressure switch can be triggered with each significant drop in negative pressure and may be due to:

- Flue clogging.
- The presence of a foreign body in the flue (birds, nests, clogged grilles, etc.).
- Wind coming through the flue because it is unprotected or the installation was wall-mounted or required no flue.
- · Cold air draught down the flue.
- A damaged pressure switch.
- Blocked membrane inside the pressure switch because soot or pellet dust got in.
- The pellet hopper is open or ajar for more than 60 seconds (60 seconds is the estimated time to reload the hopper).
- Pellets trapped between the hopper cover and the hopper, which prevents the gasket from sealing.
- Broken/worn hopper cover gasket.
- The gasket between the feed screw and the boiler is damaged or positioned incorrectly.
- Fire door is open or the gasket is worn.
- Clogged lateral smoke exchangers.
- Inspection caps with gaskets installed incorrectly after maintenance.
- Feed screw clogged by compressed pellets at the top.
- The installation is compliant and the flue/smoke fitting does not generate obvious obstructions which can stop the release of smoke, such as: long horizontal sections (over 3 metres), uninsulated smoke ducts, "wall-mounted" smoke exhaust without proper terminals (installation regulated and permitted in France only [ZONE 3])
- Internal air extraction or recirculation systems (e.g. VMC systems) that generate internal negative pressure exceeding the value required by law (not exceeding 4 Pa)
- Installed without combustion air ducting, it is crucial to check that there is an efficient air inlet dedicated to the stove, according to
 the specifications referred to in chapter 2 of this manual.

The circuit board has also been equipped with an automatic device with a timer and contactors which increase the RPM of the smoke extractor so as to restore the negative pressure inside the hopper and therefore the pressure switch, if the cover is opened for top-up or if there is an immediate or occasional pressure drop such as gusts of wind outside. If the pressure drop lasts for more than 60 seconds, the product goes into alarm status (A05 or A18)

Remembering that the draught recommended for the products to work properly is 10 Pa at maximum capacity and 5 Pa at minimum (according to the technical data sheet found in the user and maintenance manual), adjustments may be required in worse draught conditions (also due to the position of the flue in areas that are particularly subject to adverse weather such as prevailing winds, snow, northern exposure, etc.) so as to always guarantee the required negative pressure inside the hopper.

To compensate for the lack of internal negative pressure simply adjust the speed (RPM) of the smoke extractor so as to guarantee the minimum values of the table.

If the negative internal pressure values are noted to be lower than those indicated, this can also be due to the internal gaskets not being sealed properly or to the product being worn over time.

OPERATING INSTRUCTIONS ON NEGATIVE PRESSURE INSPECTIONS AND POSSIBLE VARIATIONS OF THE RPM

Connect a pressure gauge to the pressure outlet on the hopper:

- For products with a specific pressure outlet in the hopper, access the sampling point and connect the pressure gauge
- For products without a dedicated pressure outlet, disconnect the tube of the pressure switch from the pressure outlet on the hopper, add a "Tee" on the tube to intercept the circuit connecting the pressure gauge and reconnect the tube to the pressure outlet on the hopper.

Possible adjustments of combustion and consequently of the negative pressure inside the hopper can be implemented in two ways:

A) Changing the RPM value of the smoke extractor in the SETTINGS MENU

- The available values are from -3 to +3 which, as a percentage, correspond to:
- RPM: -10% +10% in Active System products
- RPM: -30% +50% in NON-Active System products
- The percentage variation affects all power values (1 to 5) proportionally and as a percentage. The percentage variation does not affect
 intermediate operating stages such as SWITCH ON, FIRE ON or SWITCH OFF
- As the RPM increases, suction also increases and consequently the internal negative pressure, thereby compensating the phenomena
 that trigger the alarm.

B) Adjusting the RPM of the gear motor manually in the TECHNICAL PARAMETERS MENU

- The pressure switch has a calibration of 10/20 Pa which means that it trips when the negative pressure inside the hopper drops below 10 Pa and requires more than 20 Pa negative pressure inside the hopper for it to reset
- The negative pressure value at the minimum power must always be higher than 10 Pa while also maintaining a reasonable margin that can worsen over time due to the gaskets or similar being worn (at least 12/13 Pa)
- The negative pressure at maximum power must always be above 20 so that the pressure switch can reset when the pressure switch resetting automated device is activated. The pressure switch resetting procedure (such as after opening the cover to top-up the hopper), requires the electronics to push the RPM of the smoke extraction fan up to POWER 5 (P5) for a few moments. At P5, therefore, the negative pressure inside the hopper must always be > 20 Pa (recommended 22/23 Pa to preserve the margin).
- N.B. = The TECHNICAL PARAMETERS menus are password-protected to prevent the user from accessing them inadvertently



Attention! The factory setting on the product is designed to obtain the certified technical data. With a data discrepancy (such as the pellet recipe), the settings may be modified as explained above.

The adjustments must only be carried out by authorised and qualified personnel under their responsibility and by checking the conformity of the installation beforehand.

NEGATIVE PRESSURE INSIDE THE HOPPER WITH FACTORY-SET PARAMETERS AND A DRAUGHT OF 5 Pa (MINIMUM RECOMMENDED)

POWER	P1	P2	Р3	P4	P5	VALUES
C IAM	13.7/14.2 Pa	15.1/15.6 Pa	17.1/17.5 Pa	19.1/19.5 Pa	22.0/22.2 Pa	Draught
6 kW	95°C	110°C	125℃	141°C	165°C	Smoke temperature
8 kW	13.8/14.3 Pa	15.6/16.1 Pa	17.8/18.0 Pa	21.7/22.2 Pa	26.1/26.6 Pa	Draught
O KVV	104°C	119°C	145°C	148°C	184°C	Smoke temperature
10 kW	15.9/16.3 Pa	20.4/20.9 Pa	25.8/26.3 Pa	31.8/32.3 Pa	36.5/37.0 Pa	Draught
TO KVV	108°C	°C	150°C	°C	230°C	Smoke temperature
12 kW	16.5/17.3 Pa	20.4/20.9 Pa	25.8/26.3 Pa	31.8/32.3 Pa	36.5/37.1 Pa	Draught
12 KVV	118°C	127°C	155℃	172°C	195°C	Smoke temperature
14 kW	17.6/18.0 Pa	19.8/20.4 Pa	23.1/23.7 Pa	28.9/29.6 Pa	37.8/38.2 Pa	Draught
14 KVV	118°C	131°C	161°C	187°C	210°C	Smoke temperature

PLEASE NOTE The indicated negative pressure readings may differ by ± 1 Pa based on flue gas temperature. Likewise, flue gas temperature may differ by $\pm 10^{\circ}$ C based on fuel quality or appliance cleanliness.

16-RECOMMENDATIONS FOR SAFE USE



ONLY CORRECT INSTALLATION AND APPROPRIATE MAINTENANCE AND CLEANING OF THE APPLIANCE CAN GUARANTEE CORRECT OPERATION AND SAFE USE OF THE PRODUCT.

We would like to inform you that we are aware of cases of malfunctioning of domestic pellet-fuelled heating products, mainly due to incorrect installation and use, as well as inadequate maintenance.

We would like to assure you that all of our products are extremely safe and certified according to European standards of reference. The ignition system has been tested with the utmost attention to enhance ignition efficiency and to prevent any type of problem, even in the worst operating conditions. In any case, as with any other pellet-fuelled product, our appliances must be installed correctly and undergo regular periodical cleaning and maintenance to guarantee safe operation. Our studies show us that malfunctioning is mainly due to the combination of part or all of the following factors:

- Brazier holes obstructed or brazier deformed, due to lack of maintenance and conditions which can cause delayed ignition, generating an anomalous production of unburnt gases.
- Insufficient combustion air due to a reduced or clogged air inlet duct.
- Use of smoke ducts nonconforming to regulatory installation requirements, failing to guarantee an adequate draught.
- Partially clogged chimney, due to lack of maintenance, reducing the draught and making ignition difficult.
- End chimneypot not conforming to the indications of the instruction manual, and therefore not suitable to prevent potential inverse
 draught.
- This factor is crucial when the product is installed in especially windy areas, such as coastal regions.

The combination of one or more of these factors may generate severe malfunctioning conditions.

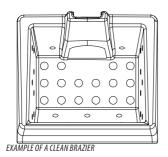
To keep this from occurring, it is crucial to guarantee that the product is installed in compliance with standards in force.

Furthermore it is of the utmost importance to comply with the following simple rules:

- Every time the brazier is removed for cleaning, it must always be put back properly in the work position before using the product, completely removing any residual dirt left on the support base
- Pellets must never be loaded in the brazier manually, neither before ignition or during operation.
- The build-up of unburnt pellets following failed ignition must be removed before repeating ignition. Also check that the combustion air inlet/smoke outlet is fitted correctly in place and working properly.
- If ignition fails repeatedly, immediately suspend use of the product and contact a qualified technician to check its operation.

Compliance with these indications is absolutely sufficient to ensure proper operation and to avoid any type of problems with the product. If the aforementioned precautions are not taken, and during ignition the brazier is overloaded with pellets thus generating anomalous smoke in the combustion chamber, carefully follow the indications below:

- Do not disconnect the electrical power to the product for any reason whatsoever: this would stop the smoke extractor, releasing smoke into the room.
- Take the precaution of opening the windows to ventilate the installation room from any smoke (the chimney might not be working properly)
- Do not open the fire door: this would compromise regular operation of the smoke extraction system to the chimney.
- Simply switch the stove off by operating on the on-off button on the control panel (not the rear power supply socket button!) and
 move away until the smoke has been completely extracted.
- Before attempting re-ignition, clean the brazier and its air passage holes completely of all deposits and unburnt pellets. Put the
 brazier back in place, removing any residue from its support base. If ignition fails repeatedly, immediately suspend use of the
 product and contact a qualified technician to check its operation and the chimney.





EXAMPLE OF A DIRTY BRAZIER

Only by properly servicing and cleaning the product is it possible to ensure its safety and correct operation.



ATTENTION!

All the cleaning operations of all parts must be performed with the product completely cold and unplugged. Disconnect the product from the 230V power supply before performing any maintenance operation

The product requires little maintenance if used with certified good quality pellets.

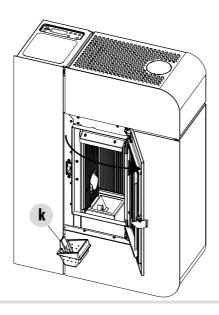
DAILY OR WEEKLY CLEANING PERFORMED BY THE USER

Brazier cleaning

Before ignition, always clean the brazier "**K**" and remove any ash or deposits from it that might obstruct the air flow holes, paying attention to hot ash. In the case of ignition failure, or if fuel in the hopper runs out, unburned pellets may accumulate in the brazier. Always empty the residue in the brazier before each start-up. **Only if ash is completely cold** may a vacuum cleaner be used to remove it. In this case, use a suitable vacuum cleaner to remove small sized particles.



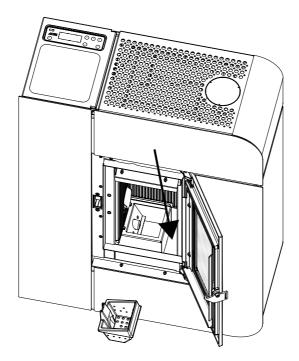
REMEMBER THAT ONLY A CORRECTLY POSITIONED AND CLEAN BRAZIER CAN GUARANTEE IGNITION AND OPTIMAL OPERATION OF YOUR PELLET PRODUCT. IN CASE OF FAILED IGNITION AND AFTER ANY OTHER BLOCKED STATE OF THE PRODUCT, IT IS ESSENTIAL TO EMPTY THE BRAZIER BEFORE EVERY RESTART.



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 high quality pellets are used, you will normally only need to use a brush to restore the optimal operating conditions of the component.

Cleaning the ash collection compartment

Wipe away any ash residue. The quality of the pellets used and user experience will determine the required cleaning frequency. **However, it is recommended not to exceed 2 or 3 days.**



CLEANING THE GLASS

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



ATTENTION!

Do not use abrasive products and do not spray the glass cleaning product on the painted parts and on the door qaskets (ceramic fibre cord).

CLEANING THE STOVE CLADDING

Below are a few indications to clean the metal cladding of the stove:

- use only water, if necessary with the addition of neutral detergents (pH7) and characterised by light additives.
- use only water on a cloth. There are electrical parts that could be damaged.
- use soft, non-abrasive cloths. Do not rub the surfaces.
- do not use solvents, abrasive or scratching agents. Do not use prepared compounds for cleaning paints as they could be aggressive.

PERIODIC CLEANING PERFORMED BY A QUALIFIED TECHNICIAN CLEANING THE HEAT EXCHANGER

Half-way through the winter season, **but especially at the end**, the compartment through which the exhaust smoke passes will need to be cleaned. This cleaning process is mandatory in order to facilitate the general removal of all combustion residue, before it becomes very difficult to remove it due to moisture compacting it over time.



ATTENTION:

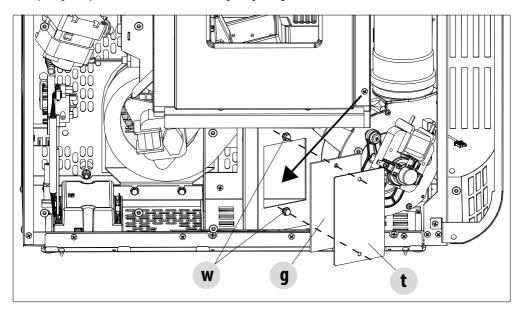
It is obligatory to have an authorised and skilled technician perform the periodic end-of-season cleaning in order to replace any worn qaskets.

CLEANING THE SMOKE PASSAGE LOWER COMPARTMENT

Proceed as follows to clean the smoke passage compartment:

- remove the front panel (as indicated in CHAP.6)
- remove the two screws "w"
- remove the cap "t" and gasket "g"
- with the nozzle of the vacuum cleaner remove the ash and soot accumulated inside the compartment (see arrow)

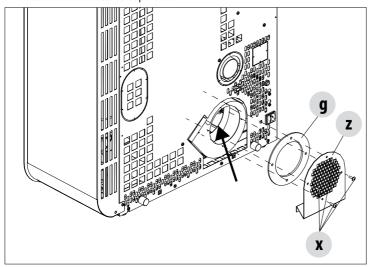
Before putting the cap "t" back, it is recommended to change the gasket "g".



FAN CLEANING

The fan is secured to the back of the stove. Proceed as follows to remove it:

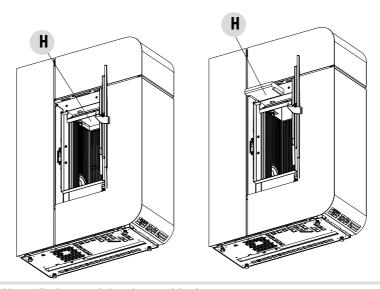
- undo the 4 screws "x"
- remove the cap "z"
- and the gasket "g"
- · remove the fan
- vacuum the ash and dust built up in the fan



CLEANING THE HEAT EXCHANGER CLEANING THE UPPER COMPARTMENT

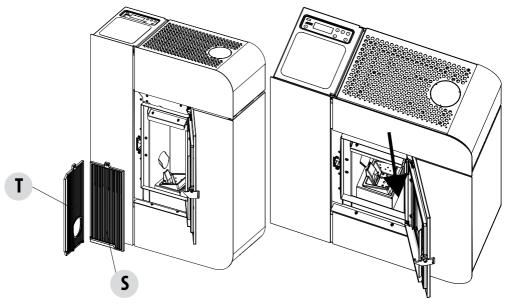
Clean the heat exchanger when the stove is cold and without cladding.

Then remove the upper calorite plate "H", to do this open the firebox door, hold the top of the calorite plate "H" and lift it upwards.



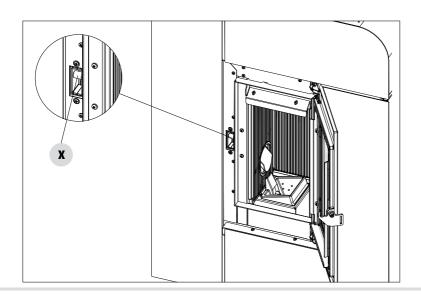
Take out the internal cast iron "T" and "S"

By using a stiff rod or a bottle brush, scrape the walls of the firebox in order to make the ash fall into the lower compartment. Then thoroughly clean the lower exchanger, replace any gaskets if needed, and reassemble.



PERIODICAL CHECK OF THE DOOR CLOSURE

Make sure the door closure ensures a correct sealing action (with the "paper sheet" test) and that when the door is closed, the closing block (X in the figure) does not protrude from the sheet metal to which it is secured. For some products it will be necessary to disassemble the cladding to be able to assess the anomalous protrusion of the block when the door is closed.



CLEANING THE SMOKE DUCT AND GENERAL CHECKS

Clean the smoke outlet system, especially around the Tee fittings, elbows and any horizontal sections of the smoke duct. For information on periodically cleaning the flue, contact a skilled chimney sweep.

Check the seal of the ceramic fibre gaskets on the door of the stove. If necessary, order new replacement gaskets from the retailer or contact an authorised service centre to carry out the operation.

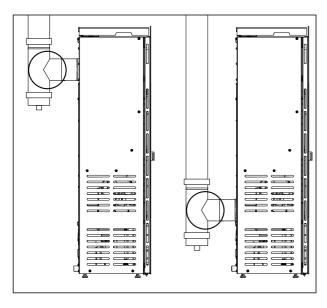


ATTENTION:

The frequency with which the smoke outlet system is cleaned depends on the use of the stove and the type of installation.

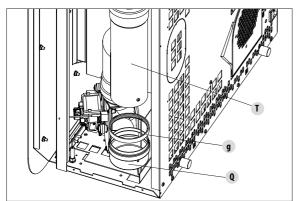
We recommend relying on an authorised service centre for end-of-season cleaning and maintenance, as they will carry out all of the previously mentioned work and inspect the stove components.

CLEANING REAR OUTLET



"T" FITTING

CLEANING TOP OUTLET



When the side panels have been taken down, clean the smoke pipe.

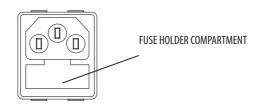
Remove the cap " \mathbf{Q} " and the gasket " \mathbf{g} ". Then clean the pipe " \mathbf{T} ", the cap " \mathbf{Q} " and replace the gasket " \mathbf{g} " if necessary.

SHUTDOWN (end of season)

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

We recommend removing the unused pellets from the hopper because they can retain moisture. Disconnect any combustion air ducting that can lead to moisture inside the combustion chamber but, above all, ask the specialised technician to refresh the paint inside the combustion chamber with the special silicone spray paints (available at any store or Technical Assistance Centre) during the necessary annual end of season scheduled maintenance operations. This way the paint will protect the inner parts of the combustion chamber, blocking any type of oxidative process.

When not in use the appliance must be disconnected from the mains power supply. It is recommended to remove the power cable for additional safety, especially in the presence of children.



The service fuse may have to be replaced if the control panel display does not switch on when the product is switched on again by pressing the main switch on its side.

There is a fusebox on the side of the product, near the power socket. After having unplugged the appliance, open the fusebox cover with a screwdriver and replace the fuses if necessary (5x20 mm T delayed/ 3. 15 A 250 V) - seek assistance from an authorised and qualified technician.

CHECKING THE INTERNAL COMPONENTS



ATTENTION!

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

We recommend for this yearly maintenance to be carried out (with a scheduled service contract). This operation consists of a visual and functional inspection of the internal components. A summary of the checks and/or maintenance operations that are essential for the correct operation of the product is provided below.

	PARTS/FREQUENCY	1 DAY	2-3 DAYS	1 YEAR
ISER'S	Brazier	•		
THE U	Ash compartment		•	
UNDER THE USER'S RESPONSIBILITY	Glass		•	
	Lower exchanger			•
IAN	Complete heat exchanger			•
CHINIC	Smoke duct			•
]]]]	Door gasket			•
BY THE QUALIFIED TECHNICIAN	Remote control battery (if purchased/optional)			•
BY THE	Door closure operation			•

18-FAULTS/CAUSES/SOLUTIONS



ATTENTION:

All repairs must only be carried out by a specialised technician, with the product switched off and unplugged.

ANOMALY	POTENTIAL CAUSES	SOLUTIONS
The pellets are not fed into	The pellet hopper is empty	Fill the hopper with pellets.
the combustion chamber.	Sawdust has blocked the feed screw	Empty the hopper and remove the sawdust from the feed screw by hand.
	Faulty gear motor	Replace the gear motor.
	Faulty circuit board	Replace the electric board.
The fire goes out or the	The pellet hopper is empty	Fill the hopper with pellets.
product stops automatically.	The pellets are not fed	See the previous anomaly.
	The pellet temperature safety probe has been triggered	Let the product cool down, restore the thermostat until the lockout is removed and switch the product back on. If the problem persists, contact Technical Assistance.
	The door is not closed properly or the gaskets are worn	Close the door and replace the gaskets with original ones.
	Unsuitable pellets	Change the type of pellets with those recommended by the manufacturer.
	Low pellet supply	Check the flow of fuel following the instructions in the manual.
	The combustion chamber is dirty	Clean the combustion chamber, following the instructions in the manual.
	Clogged outlet	Clean the smoke duct.
	Faulty smoke extraction motor	Check the motor and replace it, if necessary.
	Pressure switch faulty or defective	Replace the pressure switch.
The product works for a few	Ignition stage not completed	Repeat the ignition stage.
minutes and then switches off.	Temporary power outage	Wait for the automatic restart.
	Clogged smoke duct	Clean smoke duct.
	Faulty or broken temperature probes	Check and replace the probes.
	Faulty glow plug	Check the glow plug and replace it, if required.

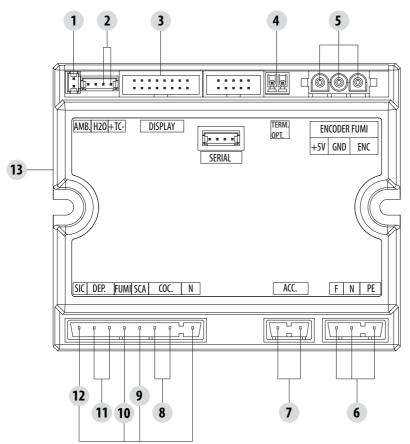
18-FAULTS/CAUSES/SOLUTIONS

ANOMALY	POTENTIAL CAUSES	SOLUTIONS
Pellets accumulate in the brazier, the glass of the door gets dirty and the flame is weak.	Insufficient combustion air.	Clean the brazier and check that all the holes are clear. Perform a general cleaning of the combustion chamber and the smoke duct. Check that the air inlet is not obstructed.
	Damp or unsuitable pellets.	Change the type of pellets.
	Faulty smoke extraction motor.	Check the motor and replace it, if necessary.
The smoke extractor motor is not working.	No electrical supply to the stove.	Check the mains voltage and the protection fuse.
	The motor is faulty.	Check the motor and capacitor and replace them, if necessary.
	Faulty motherboard.	Replace the circuit board.
	The control panel is broken.	Replace the control panel.
The convection air fan never stops.	Faulty or broken temperature control probe.	Check the probe and replace it, if required.
In the automatic position, the stove always runs at full power.	Thermostat set to minimum.	Reset the temperature of the thermostat.
	The room thermostat is in maximum position.	Reset the temperature of the thermostat.
	Malfunctioning temperature probe.	Check the probe and replace it if required.
	Faulty or broken control panel.	Check the panel and replace it, if required.
The product does not start.	No power supply.	Check that the plug is inserted and the main switch is in the "I" position.
	Pellet temperature probe tripped.	Check the recipe parameters.
	Faulty fuse.	Replace the fuse.
	Pressure switch faulty (lockout indicated).	Insufficient pressure of water in stove.
	Clogged smoke outlet or smoke duct.	Clean the smoke outlet and/or the smoke duct.

18-FAULTS/CAUSES/SOLUTIONS

ANOMALY	POTENTIAL CAUSES	SOLUTIONS
Noisy air fan even though it is set to minimum	High set flame causes ventilation increase	Lower set flame from Adjustments menu
No increase in temperature with stove in operation.	Incorrect combustion adjustment.	Check recipe.
	Set flame 1 setting (level too low)	Increase power from the settings menu.
	Poor pellet quality.	Use pellets from the manufacturer.

19-CIRCUIT BOARD







LIVE ELECTRICAL CABLES

DISCONNECT THE 230V POWER CABLE BEFORE CARRYING OUT ANY OPERATIONS ON THE CIRCUIT BOARDS

WIRING KEY

- 1. ROOM PROBE
- 2. SMOKE PROBE
- 3. CONTROL PANEL
- 4. EXTERNAL THERMOSTAT (OPTIONAL)
- 5. SMOKE ENCODER
- 6. POWER SUPPLY
- 7. GLOW PLUG

- 8. FEED SCREW
- 9. ROOM FAN
- 10. SMOKE FAN
- 11. AIR PRESSURE SWITCH/DOOR SWITCH/SWITCH PELLET LOADING HATCH
- 12. PELLET SAFETY THERMOSTAT
- 13. WI-FI

PLEASE NOTE The electrical wiring of individual components is fitted with pre-wired connectors of different sizes.



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