



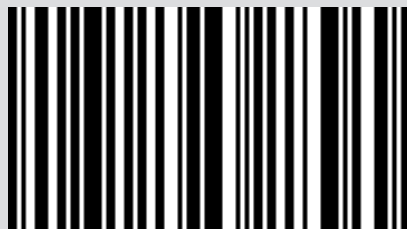
PELLET STOVE

FLUX HYDRO

PART 2 - OPERATION AND CLEANING

Instructions in English

MCZ



8901506200

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9 - PRECAUTIONS BEFORE START-UP

GENERAL PRECAUTIONS

Remove any objects that may burn from the brazier (manual, various adhesive labels or any remaining polystyrene).

Check that the brazier is positioned correctly and rests properly on the base.



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



CANCEL THE ALARM FOR THE LIGHTING FAILURE BY HOLDING DOWN BUTTON 1 (ESC). REMOVE THE PELLET LEFT IN THE BRAZIER AND REPEAT THE START-UP.

If after repeated attempts, the flame fails to ignite, despite a regular flow of pellets in the brazier, check that the brazier is seated correctly: **it must rest snugly against the slots 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.



Do not touch the boiler during the first lighting, as it is during this phase that the paint sets.

If necessary, touch up the paint with the aerosol spray in the original colour (see "Accessories for pellet stoves").



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



ATTENTION!

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 in certain conditions an explosive ignition.

Do not stand close to the stove and, as mentioned, air the room. The smoke and smell of paint will disappear after about an hour of operation, however, they are not harmful in any case.

The boiler will be subject to expansion and contraction during the lighting and cooling down stages, and may therefore make slight creaking noises.

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

It is extremely important to make sure the boiler does not reach high temperatures straight away, but to increase the temperature gradually using low power at first. This will prevent damaging the ceramic or serpentine stone tiles, the welds and the steel structure.



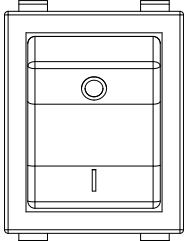
DO NOT EXPECT HEATING EFFICIENCY IMMEDIATELY!!!

ATTENTION!

If during operation or initial ignition you encounter smoke spillage in to the room from the appliance or the flue then please switch off the appliance, ventilate the room and contact the installation / service engineer immediately.

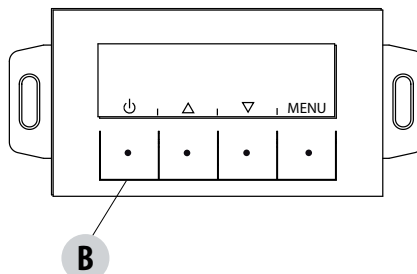
SETTINGS TO BE CARRIED OUT BEFORE THE INITIAL START-UP

After connecting the power cable to the electrical socket, turn the power switch to the (I) position. To turn the stove on or off, press the button "B" on the control panel.



OFF

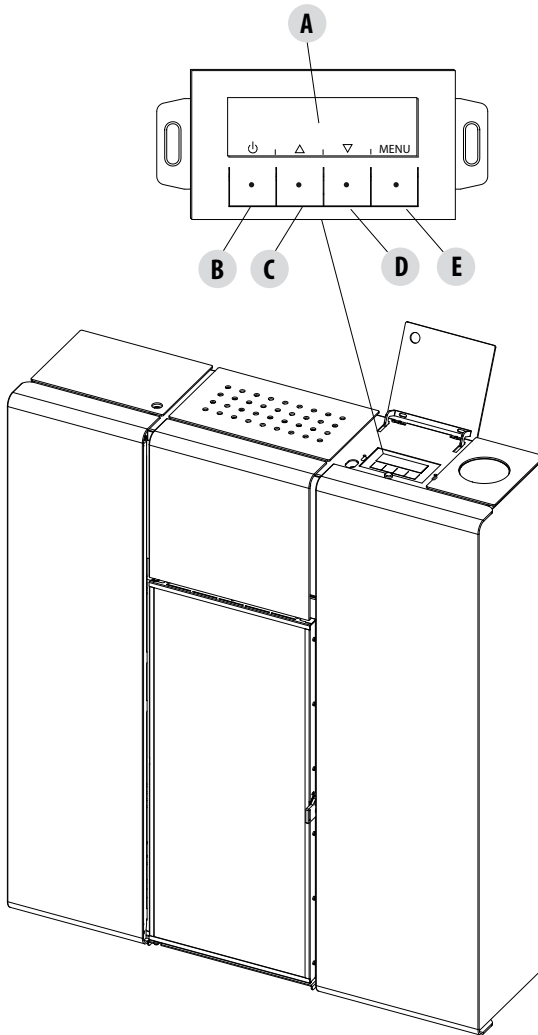
ON



B

10 - CONTROL PANEL

CONTROL PANEL DISPLAY



KEY

A - DISPLAY; indicates a series of information on the stove, as well as the identification code of any malfunction.

B - Function selection key indicated by the upper display (i.e. start-up/shutdown)

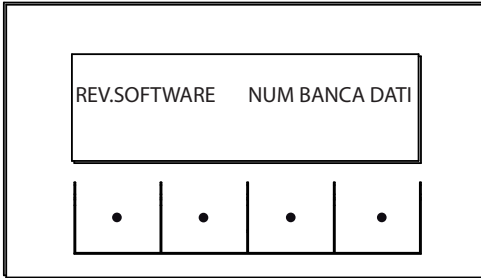
C - Function selection key indicated by the upper display (i.e. increase/scrolling)

D - Function selection key indicated by the upper display (i.e. decrease/scrolling)

E - Function selection key indicated by the upper display (i.e. menu)

11 - FIRST START-UP

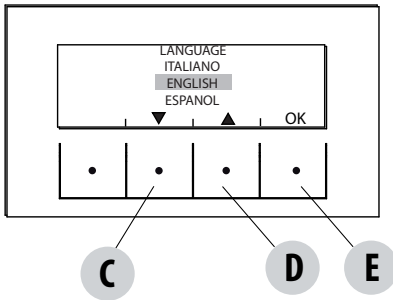
INITIAL START-UP



At initial start-up, after connecting the power cable and pressing the I/O button, the stove display will show wording for the software version and database number (after a few seconds it will move on to the next screen).
If the language has already been set, the next screen will be OFF, otherwise one enters the following parameter.

SELECT LANGUAGE

At initial start-up, if it has never been set, the LANGUAGE choice screen appears.

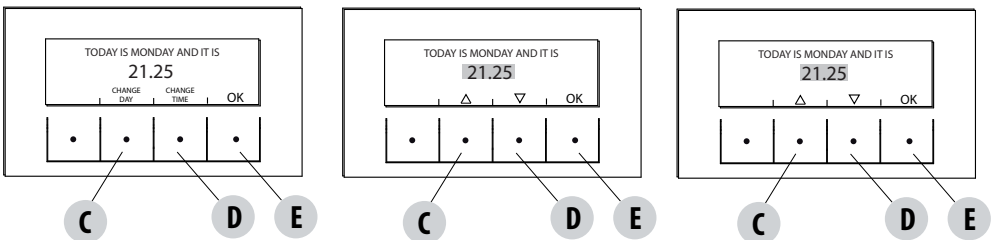


The system displays all possible languages.

Using the arrow keys (C, D) scroll the languages and confirm the desired language using the "E" (OK) key.

SETTING TIME AND DAY

The keys that are active for this function are: "C", "D", "E". The C-D keys are used to choose time or day while the E key is used to confirm.

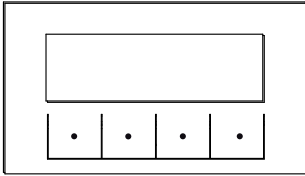


11 - FIRST START-UP

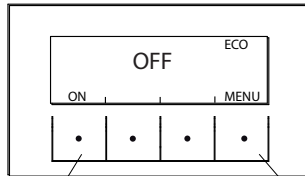
SCREEN OFF

If a LANGUAGE has already been set, the display will go to OFF.

By pressing any one of the keys (B, C, D, E) the first screen will appear with the wording OFF displayed. From this screen, pressing keys "B" and "E" (respectively corresponding to ON and MENU) will make it possible to access the panel or the menu. If no key is pressed, the display will once again show OFF after 5 seconds.



OFF-DISPLAY OFF



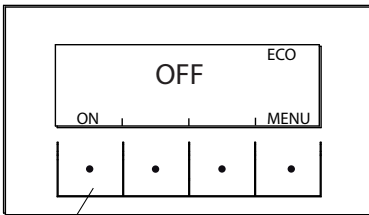
B

E

OFF-DISPLAY ACTIVE

Lighting the stove

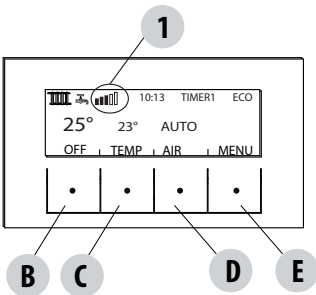
To switch on the stove, keep the "B" (ON) key on the panel pressed. The stove starts an ignition procedure that brings the flame to a suitable level to Supply Power.



B

Supplying power

The power supply of the stove is indicated by "power level bars": one bar corresponds to minimum power, 5 bars to maximum power; this level is determined by the heating system heat requirements, the stove adjusts pellet loading parameters, fumes extraction, and combustion air flow to comply with this requirement.



UPPER BAR: active requirements, active programmes, power bar, functions

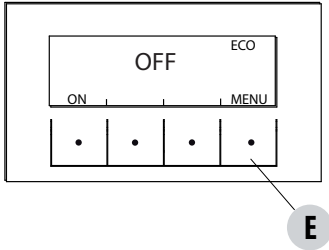
CENTRAL BAR: room temperature, room set, room fan bar

LOWER BAR/KEYS: shut-off "B", temperature set modify "C" and fan set "D", menu "E"
1 = power level bars

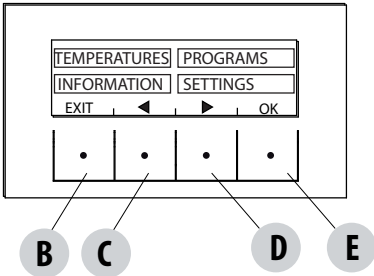
12 - MENU STRUCTURE

MENU STRUCTURE

To enter MENU press the "E" key (MENU).



Next, this screen with the following functions is displayed:

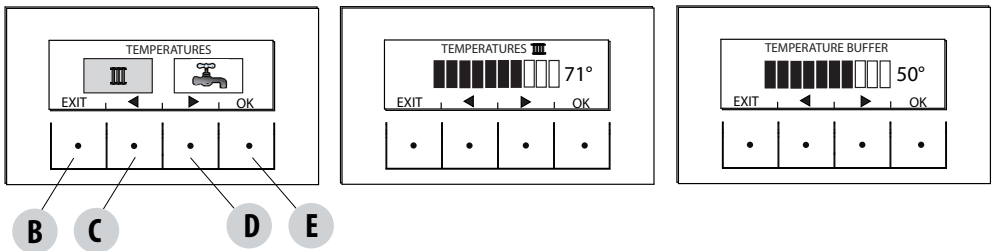


Sub-menu
TEMPERATURE
PROGRAMMES
INFORMATION
SETTINGS

TEMPERATURE

When accessing this function, the main screen makes it possible to set heating and sanitary water temperature (if the boiler with probe is configured - see menu settings input aux).

Select what is to be set and then using the C and D keys increase/decrease the temperature, use the E key to confirm while the B key is used to exit and return to the main MENU.



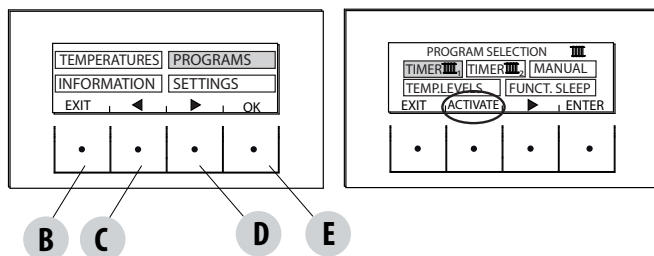
PROGRAMMES

In this case it is possible to choose the programme to be set.

Programme selection makes it possible to choose between one of the following options (one choice excludes the other):

- TIMER 1
- TIMER 2
- MANUAL
- TEMP. LEVELS
- SLEEP FUNCT.

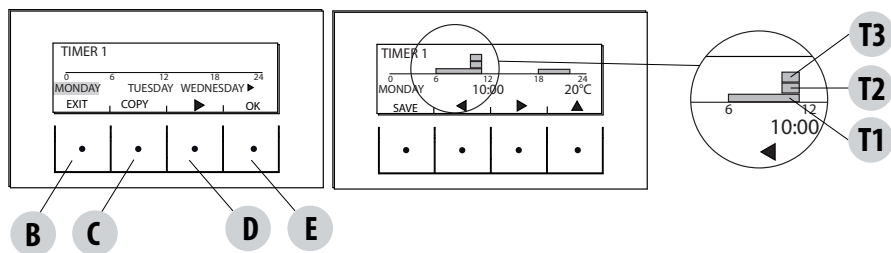
12 - MENU STRUCTURE



In the MENU screen, move the cursor with arrows "C"- "D" and select PROGRAMS, press ok "E" to confirm. Next select the programme you wish to set.

Once completed, always press "ACTIVATE" to confirm the choice of programme.

The TIMER 1 and 2 programs are freely programmable for each 1/2 hour of the day on three different temperature indicators (T1-T2-T3) and in different ways for each day of the week. The OFF level requires that the stove is switched off in that interval.



Example of temperature programming for Monday.

Select the TIMER 1 item from the PROGRAM menu and press the ENTER "E" key, using arrow "D" highlight Monday and press OK ("E") to enter programming.

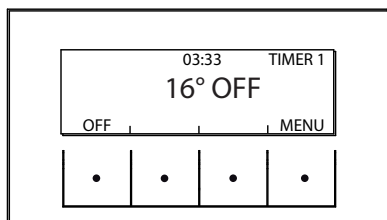
Using the centre arrow keys "C" and "D" select the half hour interval to be selected and use the "E" key to set the temperature T1-T2-T3 (depending on whether the key is pressed 1-2-3 times, the corresponding temperature can be read in the bottom right of the display). Once temperature programming for Monday is complete press the "B" SALVA (SAVE) key. If the same temperature scale of Monday is desired for other weekdays, after saving ("E" key) press the "C" key (COPIA-COPY), select the day where the programme is to be copied using the "D" key and press the "C" key (INCOLLA-PASTE). Repeat the same procedure until the programmes for all weekdays are complete. At this point the stove is programmed according to your temperature needs, which can be modified at any time.

CAUTION:

In order to make stove use easier, MCZ supplies Timer 1 with preset weekly temperatures and times (according to the table below), while Timer 2 is empty. In any case, it is possible to change times and temperatures of Timer 1 at any time.

PANEL OFF DISPLAY FROM TIMER

When timer 1 (for example) has no set temperature, the panel highlights that the stove is in OFF position.



If the stove is off by MANUAL command, the timer will have no effect.

For the stove to come on with the timer, the panel must display the image shown on the side; if this should not be the case, it may be necessary to press the ON ("B") key.

12 - MENU STRUCTURE

Weekly programmes		Time table																											
		Days	Temperatures *	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00		
Sunday		T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF
Monday		T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF
Tuesday		T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF
Wednesday		T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF
Thursday		T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF
Friday		T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF
Saturday		T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF	T3	T2	T1	OFF

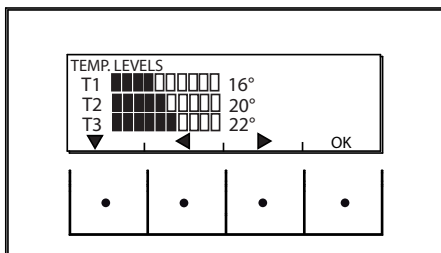
* T1=16° C T2=20° C T3=22° C OFF=switched off

12 - MENU STRUCTURE

MANUAL

This function can be activated from the menu PROGRAMME by pressing the key "C" ACTIVE. When this function is activated, the stove no longer follows time programming of TIMER 1 or 2 programs, but it keeps the temperature set in the main screen throughout the 24-hour time period. It is possible to switch to programmes at any time.

TEMPERATURE LEVELS



It is possible to change the 3 temperature levels referenced by timers in this menu.

From the PROGRAMS menu use arrow key "D" to move and select TEMP LEVELS, press the "E" key, and enter the temperature settings screen. With the centre arrow keys "C" and "D", it is possible to increase/decrease the temperature value, while the "B" key is used to move to the next temperature. With the "E" key (OK), the set values are confirmed.

SLEEP FUNCTION

The sleep function is only activated when the stove supplies power and makes it possible to programme a stove shut-off time. Shut off can be delayed up to a maximum of 8 hours from current time and with a 10-minute resolution.

To activate, enter the PROGRAM menu, scroll using arrow key "D" up to Funct. SLEEP press the ATTIVA (ACTIVATE) "C" key. In the next screen, using keys "C" and "D", increase or decrease the minutes (10 minutes each time the key is pressed) and press OK ("E" key) to confirm the stove shut off time.

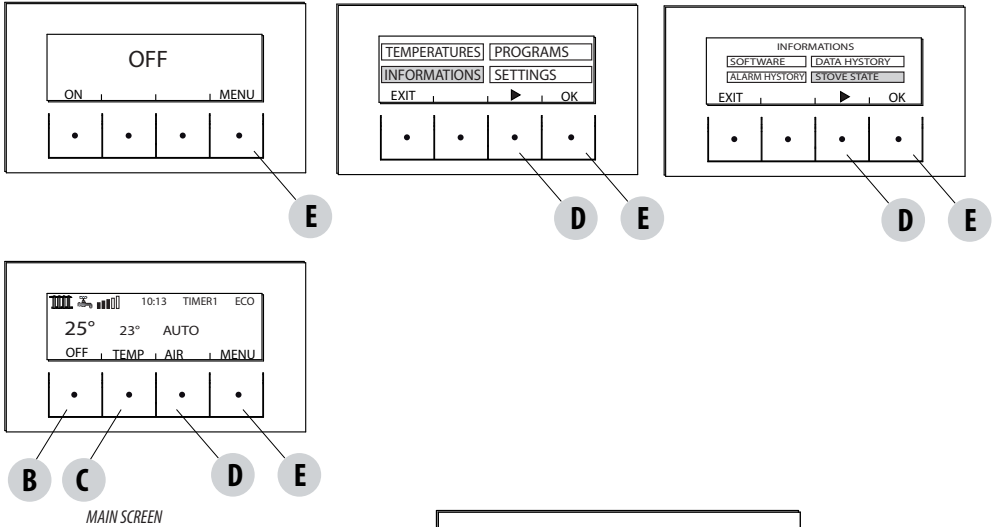
NOTE: If the stove is not supplying power the display shows the wording "NOT AVAILABLE".

13 - MENU INFORMATION

INFORMATION

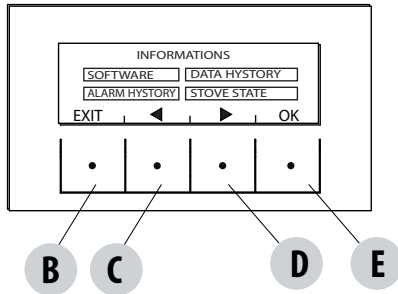
To enter the INFORMATION menu, proceed as follows:

from the main/initial screen, press the "E" Menu button, scroll using the "D" arrow key, up to the Information item, press the "E" ok key, scroll again using the "D" arrow key up to software/data memory/all.memory/stove state and select the desired item, press OK using the "E" key to enter the chosen information menu.



The available information is:

- Software
- Data memory
- All. memory
- Stove state

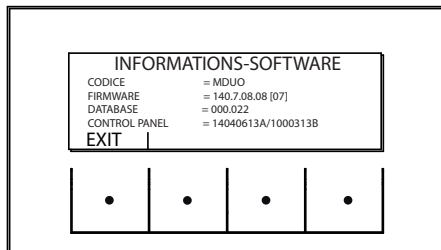


SOFTWARE INFORMATION

The available data in this function are:

- CODE
- FIRMWARE
- DATABASE
- INTERFACE

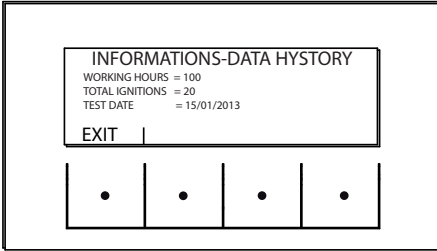
It is information that can be used to identify the electronic part of the stove.



EXAMPLE

13 - MENU INFORMATION

DATA MEMORY-INFORMATION

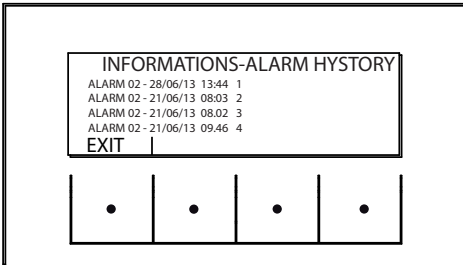


The available data in this function are:

WORKING HOURS
TOTAL IGNITIONS
TEST DATE

ALARM MEMORY-INFORMATION

It gives information about the last alarms detected.



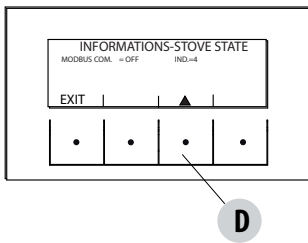
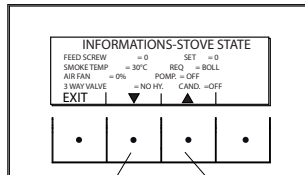
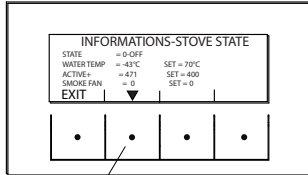
13 - MENU INFORMATION

STOVE STATE-INFORMATION

This menu is particularly useful if one wants to verify the stove work condition (State).

From the OFF screen, press the "E" Menu button, scroll with the "D" arrow key, up to the Information item, press the ok "E" key, scroll again with the "D" arrow key up to stove state, press OK with the "E" key and one enters the stove State-information menu.

The items available within STOVE-STATE INFORMATION can be viewed using the "C" and "D" arrow keys and are:



<i>state</i>	
<i>water temp.</i>	<i>set</i>
<i>aux sensor</i>	<i>set</i>
<i>active+</i>	<i>set</i>
<i>fumes fan</i>	<i>set</i>
<i>feed screw</i>	<i>set</i>
<i>fumes temp.</i>	<i>req</i>
<i>air fan</i>	<i>pump</i>
<i>relay aux</i>	<i>spark plug</i>
<i>modbus com</i>	<i>add.</i>

- The main stove states that can be read on the display are:

STATE 1-9 various ignition phases

STATE 20-40 work state (power supply)

STATE 60-79 alarm state

STATE 80-84 shut off/cooling/autoeco state

STATE 85-93 auxiliary functions

STATE 94-95 cleaning state

- WATER TEMP.: Water temperature detected by the probe inside the stove and related SET
- AUX: PROBE: detects the value measured by the aux sensor (external/boiler/puffer)
- ACTIVE+.: Value read by the Active Plus system and related SET
- FAN FUMES: Number of fumes fan revolutions and related SET
- FEED SCREW: number of feed screw revolutions and related SET
- FUMES TEMP.: temperature value read by the probe inside the stove
- REQ: (Heating/Sanitary) signals if system requires heat
- AIR FAN: Room fan operation level
- PUMP: signals if the stove's internal pump is turned on (ON) or turned off (OFF)
- AUX: RELAY: signals activation (ON) or the OFF state of Auxa relay
- SPARK PLUG: Signals if spark plug is turned on or off
- MODBUS COM. External interface communication state
- ADD.: Address for communicating with modbus

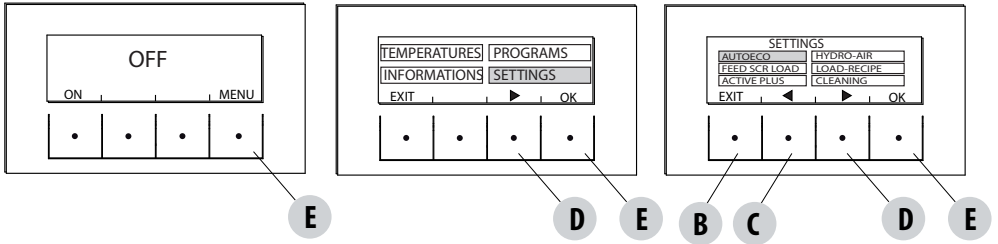
14 - MENU SETTINGS

SETTINGS

To enter the menu SETTINGS, proceed as follows:

from the OFF screen, press the "E" Menu key, scroll with the "D" arrow key up to Settings item, press the ok "E" key, scroll again with the "D" and/or "C" arrow key up to the chosen setting, press OK with the "E" key to enter the chosen menu.

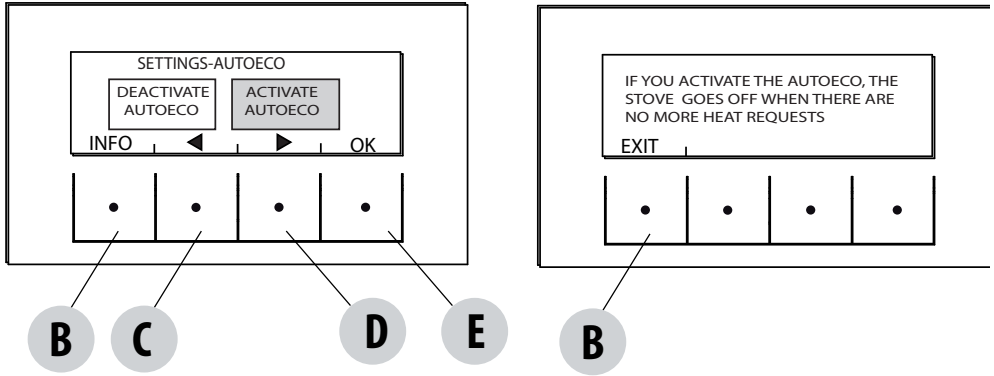
It is possible to set the listed parameters from this screen. Each parameter has an info key to obtain brief information about the chosen function.



- SETTINGS
 - Auto Eco (default activated)
 - Hydro Air (not available)
 - Feed screw loading
 - Pellet recipe
 - Active +
 - Cleaning cycle
 - Language
 - date - time
 - Aux Input
 - aux output
 - Room Input
 - T. on Pump
 - Pump pwm
 - Antifreeze function
 - Plt sensor (not available)
 - Modbus com.
 - Display
 - Technical menu (accessible by a specialised MCZ technician - password required)
 - Active +
 - Fume Analysis F
 - Calib.Active
 - Calib.S.fumes
 - Diagnostics
 - Parameters
 - Boll advance
 - Hour reset

14 - MENU SETTINGS

AUTOECO (Factory activated)

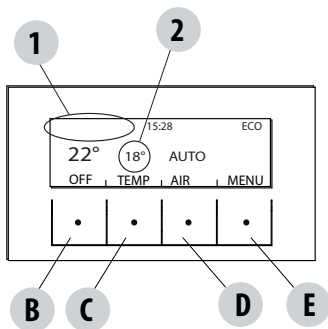


The Auto eco mode turns the stove off when heating the system does not require heat, depending on the menu-settings-input aux configuration.

AUTO ECO ACTIVE

The AutoEco active parameter (factory settings) is shown on the top right on the control panel display in the main screen. If heat is not required, the stove turns off after the set time, switching to Auto Eco (State 84 - it is possible to see Auto eco in the Information Menu, stove state).

NOTE: With the stove off, if T is set less than T room, or other heat request settings are fulfilled, the stove does not turn on.



1 = no heat request ($T_{\text{room}} > T_{\text{set}}$)

2 = T set

if set temperature is increased $> T_{\text{room}}$ (therefore in this case $> 22^{\circ}\text{C}$), the stove with start-up after a few seconds due to heat request.

AUTO ECO DEACTIVATED

With the stove on, if Auto eco is deactivated and there are no heat requests (different based on menu-settings-aux input settings) the stove operates at minimum power.

The required condition for restarting is for there to be heat request for at least consecutive 10"; it is possible to restart if:

- at least 5 s have elapsed from when shutdown began
- the TH_2O in the stove is $< T_{\text{set}} \text{H}_2\text{O}$

To modify the function:

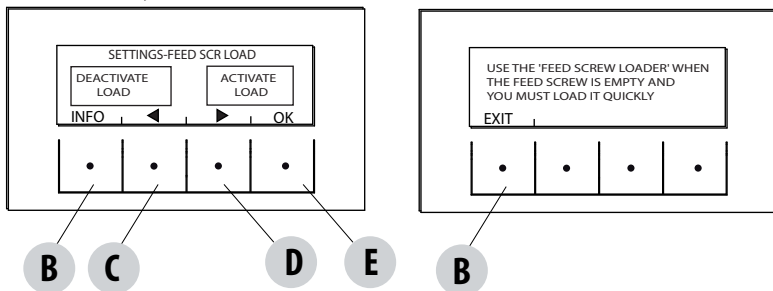
from the Settings menu - using the arrow keys, select the AUTOECO function, press ok (E key) and press D or C key (arrow key) and select:

Activate = to modify the set time from 0 to 30 minutes (factory default 5 minutes)

Deactivate = to deactivate Auto Eco

14 - MENU SETTINGS

FEED SCREW LOADING (only with the stove off)

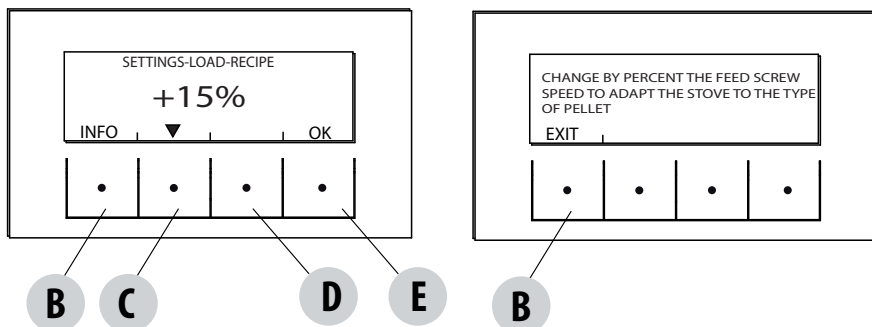


This function is for filling the pellet loading system. It can only be activated with the stove off.

To enter the function:

from the Settings menu - press ok (E key), press the D key (arrow key) and scroll up to load feed screw, press OK (E key) and activate/deactivate the function, press ok ("E" key) to confirm.

PELLET RECIPE



This function is for adapting the stove to the type of pellet in use. As there are many types of pellet available on the market, stove operation can vary considerably according to the quality of the fuel. When the pellets clog up the brazier due to excess loading of fuel, vice-versa if the flame has a tendency to shut-off, it is possible to decrease/increase the amount of pellets in the brazier:

The available values compared to factory settings are:

+15% +10% + 5%; 0%; -10% -20% -30%

To modify the pellet recipe, in sequence, press:

from the Settings menu- press ok (E key), press the D key (arrow key) scroll up to pellet recipe and press OK (E key) and enter the function, using the "C" and "D" keys to modify the parameter and press Ok ("E" key).

ACTIVE +

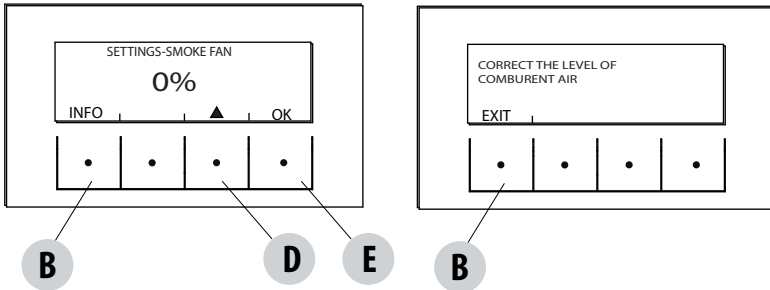
The pellet type is not a problem because the stoves are equipped with the Active system and automatically adapt to pellet of any length with a diameter of 6-8 mm. Effective and efficient combustion is independent from any type of connection to the flue which, with traditional systems, may constitute a problem during the installation phase.

Thanks to an internal sensor, the stove is extremely reliable and precise, combustion air is constantly adjusted based on the quantity of pellets present in the brazier, thus guaranteeing an effective and efficient combustion that is translated into decreased consumption, emissions, and less frequent cleaning.

Thanks to Active plus, it is possible to control and communicate with the stove, even by way of Smartphone and tablet. Since it is possible to manage more evolved gear motors (with continuous operation), the new pellet stoves equipped with active plus are more silent.

This function is used to adjust combustion air if the flame is too high or too low.

14 - MENU SETTINGS

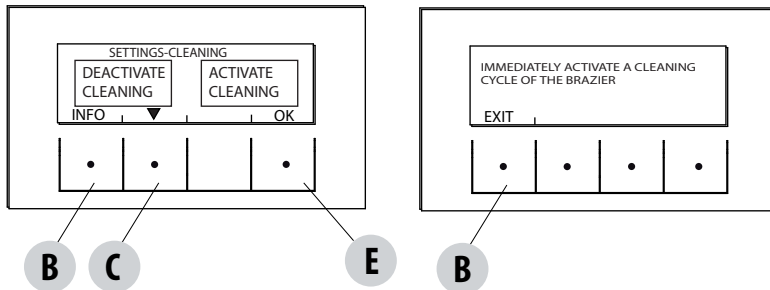


It can be activated from the SETTINGS menu, scroll using the “D” arrow key up to the “Ricetta Aria” (Air recipe) function, press OK using the “E” key, and, using the “D” arrow key modify the parameter and press “ok”/“E” key.

The fixed parameters that can be set are: +10; +5; -5; -10

CLEANING

This function can only be activated while the power supply is in the following mode:



from the Settings menu- press ok (E key), press the D key (arrow key), scroll up to the “ciclo pulizia” (cleaning cycle) press OK (E key)- Activate/deactivate cleaning.

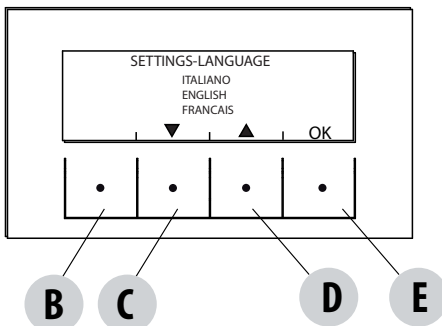
This procedure activates the fumes extraction fan at the maximum level in order to clean the brazier and expel soot.

LANGUAGE

This function is used to choose the desired language among those set in the control panel.

To enter the function, from the Settings menu - press ok (E key), press the D key (arrow key) and scroll up to language item, press OK (E key) and choose the language among the various ones set and finally press Ok (“E” key) to confirm.

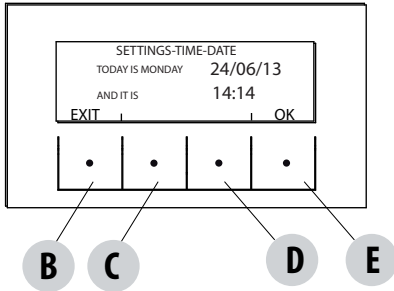
The available languages are: Italian/English/French/German/Spanish/Dutch/Danish



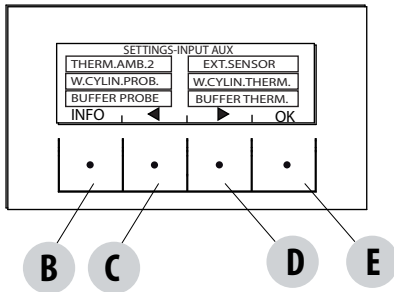
14 - MENU SETTINGS

TIME-DATE

This function is used to set date and time.



To enter the function, from the Settings menu - press ok (E key), press the D key (arrow key) and scroll up to the date-time item, press OK (E key) to enter the function. Next, press the "E" (ok) key again to modify day/month/year/hour and minutes. To modify the parameters, use the "C" and "D" (arrow keys) keys and press the "E" key to confirm.



AUX INPUT (using one of the following parameters excludes the other)

The auxiliary input allows you to choose the system configuration type based on which the stove is connected.

To enter the function press:

from the Settings menu- press ok (E key), press the D (arrow) key and scroll up to the Aux Input item and press OK (E key). Using the "C" and "D" keys select the desired heating system type and press ok with the "E" key.

It is possible to connect the following to the auxiliary input:

Room thermostat 2

External probe

Boiler probe

Boiler thermostat

Puffer probe

Puffer Thermostat

Note: The boiler probe/thermostat choice implies the three-way aux output designation.

The puffer probe/thermostat choice implies the pump aux output designation.

- **Room Therm.2**

The stove heat request may take place from any part of the room probe or from the "Termostato Amb 2" (Room thermostat 2) installed in a room that is different from the one where the stove is positioned and is connected to terminals 1 and 2 of the back terminal board. Closing the contact of the terminals kicks off the heat request.

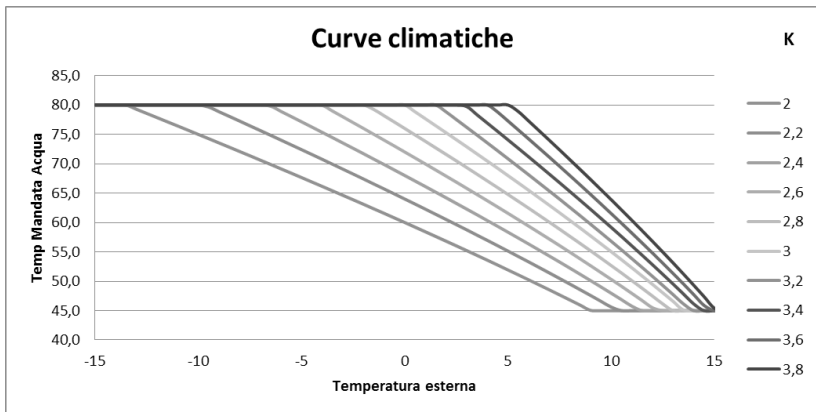
Notes: Installation of this thermostat is optional, the stove can also operate without it. Since the contact is N.O., the room probe is the only heat request command.

Possible active weekly programming does not act on Room Thermostat 2 but rather on the probe on board the stove.

14 - MENU SETTINGS

- **External probe**

It makes it possible to work with system temperature adjustment. If installing an external probe on terminals 1 and 2 (NTC 10KOhm at 25°C b=3435) water temperature is automatically calculated by the electronics based on external temperature according to the curves shown below:



The external probe must be installed on an external wall exposed towards North or North-West. If necessary, it is possible to correct the value read by the probe by + 5 -5°C.

- **Boiler probe**

To activate this option, connect a probe (NTC 10KOhm at 25°C b=3435) to points 1 and 2 of the back 9-pole terminal board.

The heat request occurs when the boiler probe reads a temperature that is 2°C below the one set by the accumulation temperature marked by a tap in the temperature menu.

In this configuration, the aux output is configured as a potential free contact to control the 3-way valve (contact 7-8-9 of the back 9-pole terminal board)

- **Boiler thermostat**

To activate this option, connect a Normally Open (N.O.) contact thermostat to points 1 and 2 of the back 9-pole terminal board.

The heat request occurs when the boiler thermostat closes the contact.

Even with this configuration, the Aux output is configured as a potential free contact to control the 3-way valve (contact 7-8-9 of the back 9-pole terminal board).

- **Puffer probe**

To activate this option, connect a probe (NTC 10KOhm at 25°C b=3435) to points 1 and 2 of the back 9-pole terminal board.

The heat request occurs when the boiler probe reads a temperature that is 2°C below the one set by the accumulation temperature marked by a radiator in the temperature menu.

During installation with the puffer, stove operation is only and exclusively determined by the puffer probe and not by the room probe. The purpose of the room probe on the stove is only to control the heating system pump controlled by the potential free contact N.O.: (max 5 ampere, not suitable for brushless pumps with upper start-up current) on terminals 8-9.

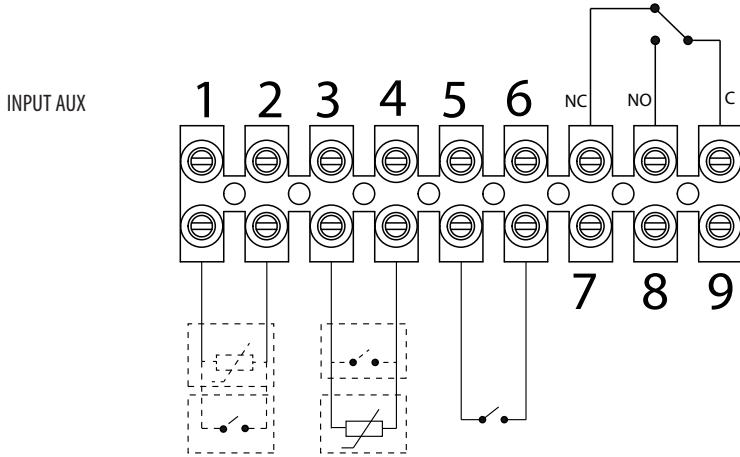
Example of operation with Hydro Air On or Auto:

- if the puffer is satisfied but the room probe is not, with eco stop active the stove shuts off (continuing to distribute heat through the room fan up until shut-off)
- if the puffer is satisfied but the room probe is not, with eco stop deactivated, the stove remains on at minimum power. In this case hot water from the puffer is used through the pump to heat the front radiator
- if the puffer calls for heat and the room probe does not, the fan behaves based on "Hydro Air" and "Ventilatore" (Fan) settings.

14 - MENU SETTINGS

- **Puffer thermostat**

To activate this option, connect a Normally Open (N.O.) contact thermostat to points 1 and 2 of the back 9-pole terminal board. Even with this configuration the purpose of the room probe on the stove is only to control the heating system pump controlled by the potential free contact on terminals 7-8-9.



POS.1-2 AUX INPUT: EXTERNAL THERMOSTAT/THERMOSTAT BOILER/PUFFER / BOILER PROBE/PUFFER	POS.5-6 HOME AUTOMATION
POS.3-4 AUX INPUT: ROOM PROBE	POS.7-8-9 AUX OUTPUT RELAY

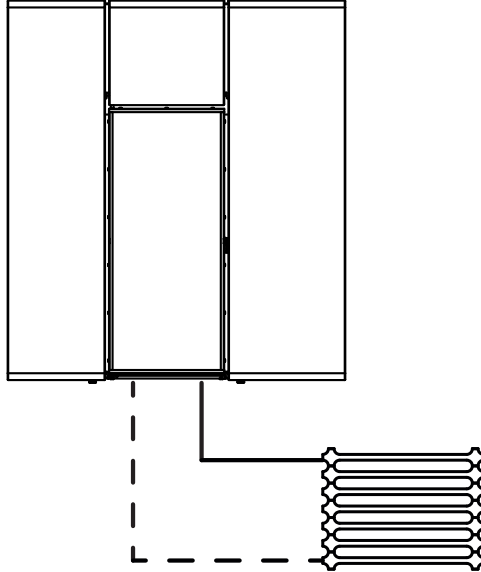
14 - MENU SETTINGS

HYDRO AIR STOVE PRINCIPLE DIAGRAMS



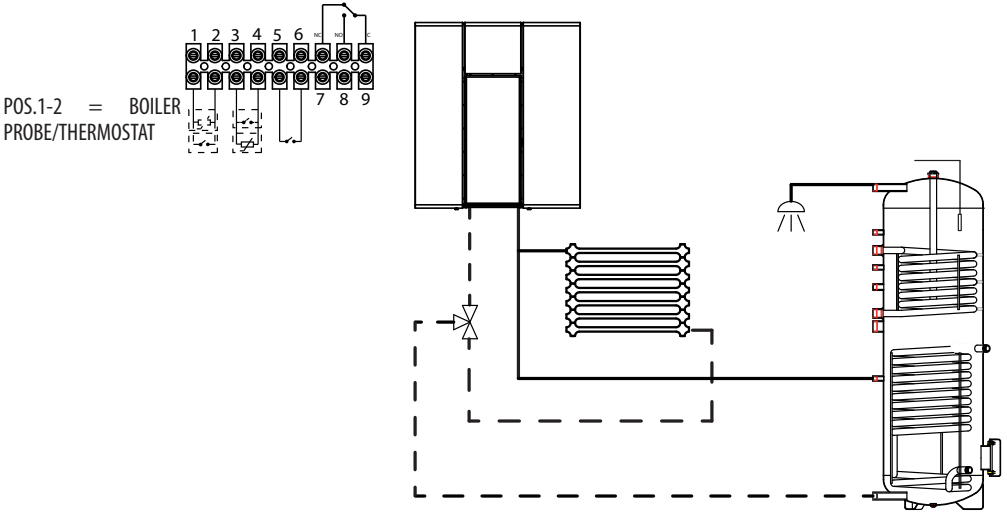
The following diagrams are to be used only as a guideline. For proper connection, always follow the notes of the plumbing and heating installer. The plumbing system must meet local, regional, or national requirements in force. Installation and verification of operation is to be performed only by specialised, authorised personnel. The manufacturer will not be held liable for non-compliance with the provisions listed above.

HEATING ONLY CONFIGURATION

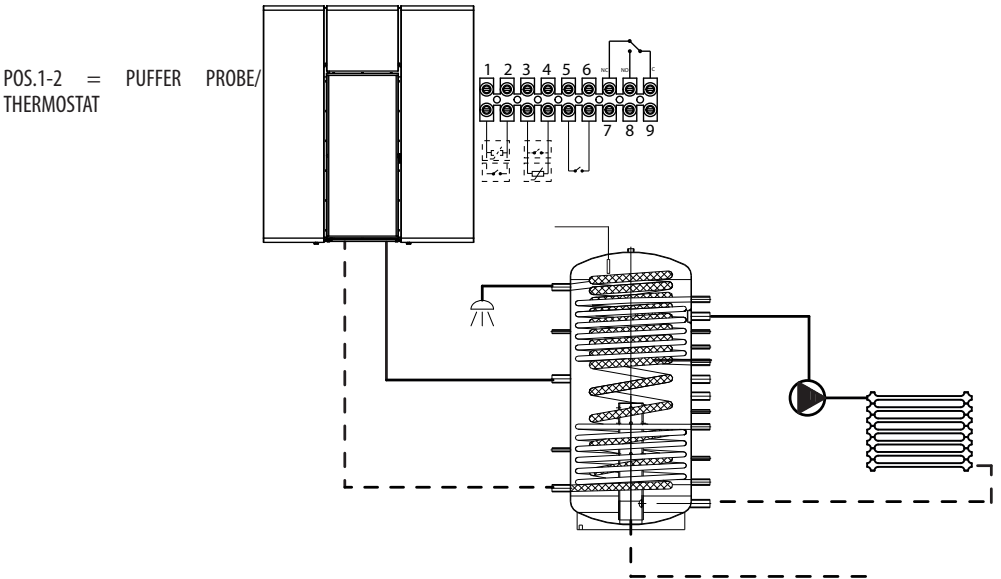


14 - MENU SETTINGS

BOILER CONFIGURATION



HYDRO STOVE WITH PUFFER CONFIGURATION

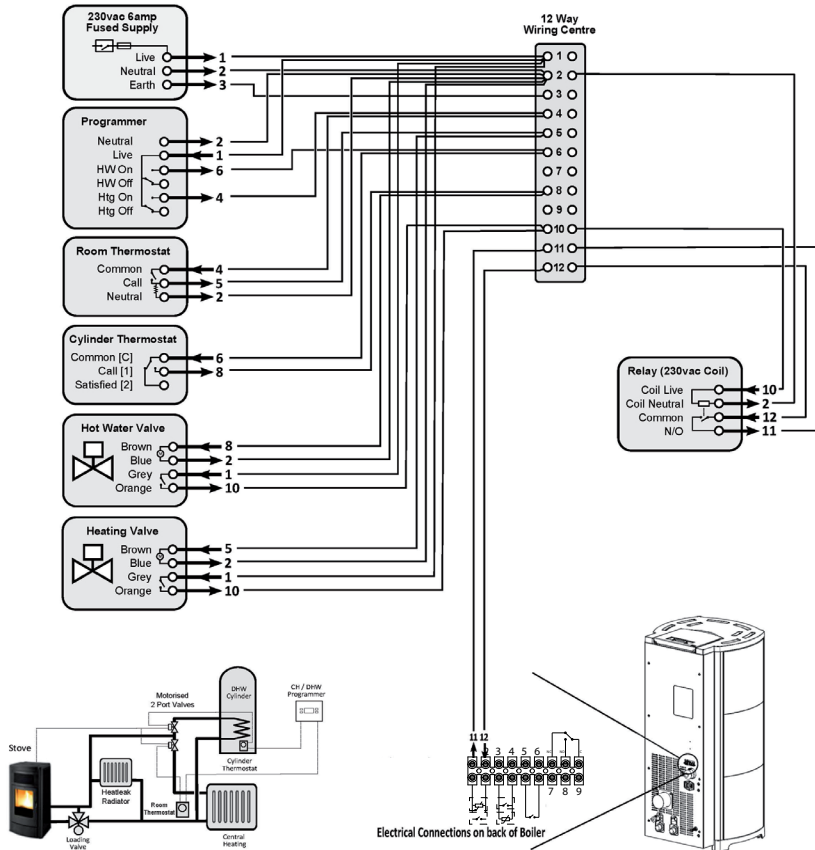


ONLY FOR UK

MCZ Hydro Stoves (Active System) FLUX HYDRO

Wiring for S-Plan Systems

These notes must be read in conjunction with the full installation instructions



Simplified Schematic of S-Plan System

WARNING: The external thermostat terminals on MCZ stoves and boilers are volt-free. On no account must a mains voltage signal be connected.

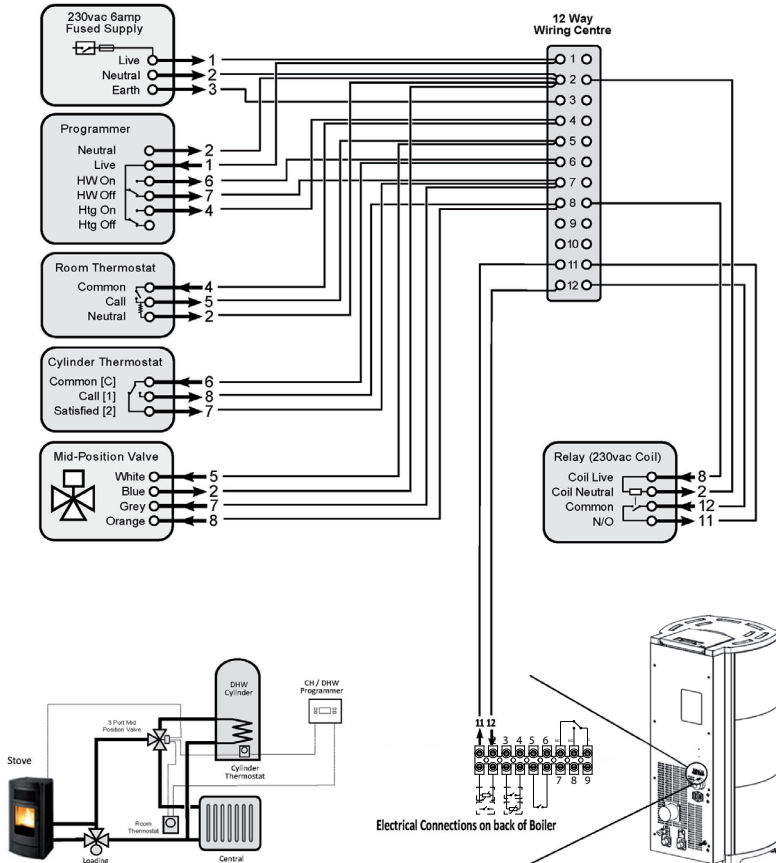
ONLY FOR UK

MCZ Hydro Stoves (Active System)

FLUX HYDRO

Wiring for Y-Plan Systems

These notes must be read in conjunction with the full installation instructions



Simplified Schematic of Y-Plan System

WARNING: The external thermostat terminals on MCZ stoves and boilers are volt-free. **On no account must a mains voltage signal be connected.**

14 - MENU SETTINGS

ONLY FOR UK

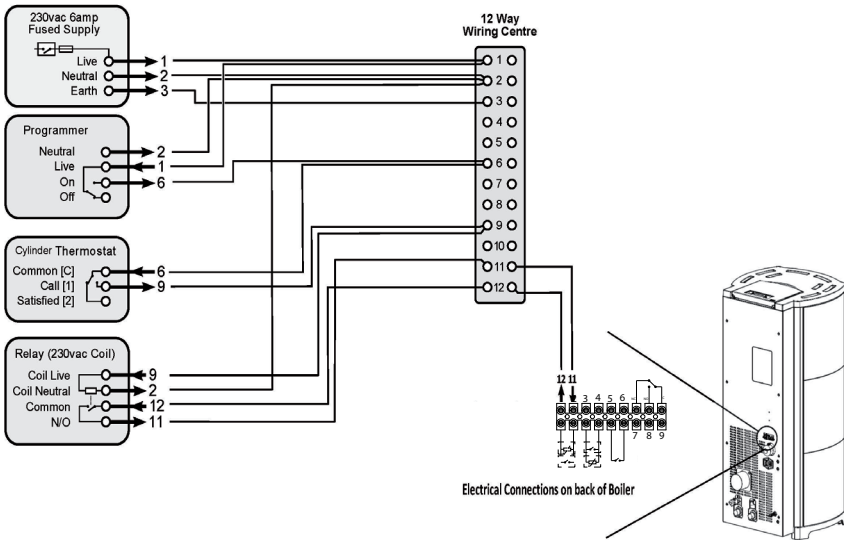
MCZ Hydro Stoves (Active System)

FLUX HYDRO

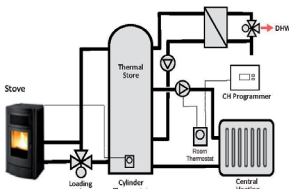
Wiring for Thermal Store or Buffer Systems where time control is by use of external programmer.

These notes must be read in conjunction with the full installation instructions

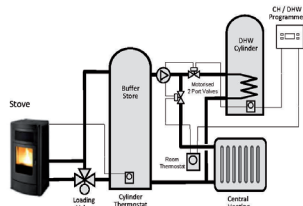
Note: Separate controls are required for operation of the Central Heating and DHW zones (not shown), and those controls are not interlocked with the stove and cylinder thermostat.



WARNING: The external thermostat terminals on MCZ stoves and boilers are volt-free. On no account must a mains voltage signal be connected.



Simplified Schematic of Thermal Store System



Simplified Schematic of Buffer Store System

ONLY FOR UK

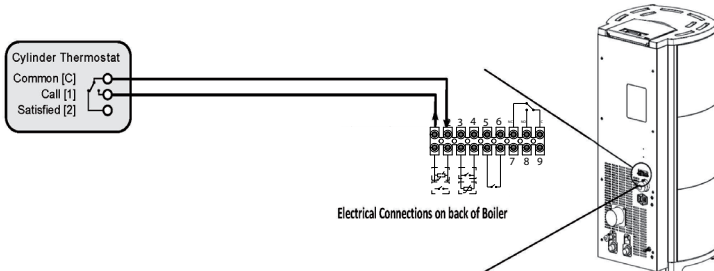
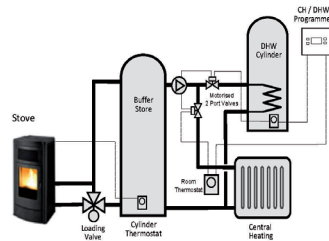
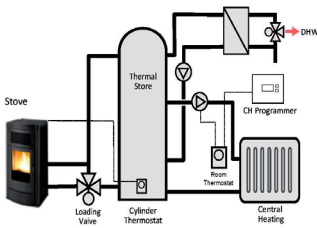
MCZ Hydro Stoves (Active System)

FLUX HYDRO

Wiring for Thermal Store or Buffer Systems where time control is by use of onboard programmer in stove.

These notes must be read in conjunction with the full installation instructions

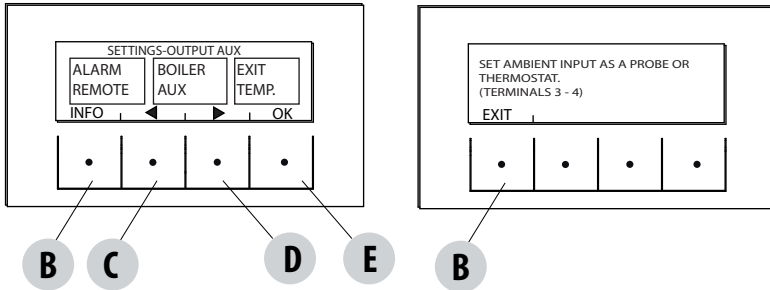
Note: Separate controls are required for operation of the Central Heating and DHW zones (not shown), and those controls are not interlocked with the stove and cylinder thermostat.



WARNING: The external thermostat terminals on MCZ stoves and boilers are volt-free. On no account must a mains voltage signal be connected.

14 - MENU SETTINGS

OUTPUT AUX



The AUX output makes it possible to use a relay contact, based on the system configuration type chosen in the Aux Input menu. It acts on contact 7-8-9 of the external terminal board. The functions can only be selected if the boiler or puffer configuration has not been chosen in the Aux Input menu, and are:

- Remote alarm (9-8=C-NO)
- Auxiliary boiler (9-7=C-NC)
- Auxiliary output in temperature (9-8-7=C-NO-NC)

To enter the function press:

from the Settings menu- press ok (E key), press the D (arrow) key and scroll up to the Aux Output item and press OK (E key). Using the "C" and "D" keys to select the Remote Alarm/Aux boiler/Output in temp and press OK ("E" key).

- If the Aux output is set on Remote Alarm, the NO contact is closed when an alarm is present.
- If the Aux output is set to Auxiliary Boiler, the NC contact remains closed in all alarm states, in "OFF" state, in 80 "Shutdown" state, and in 51 "COOL" state. Under all conditions it remains open.
- Output temperature: the NO contact closes when the Boiler temperature exceeds the value set by the user. It can be set from 30 to 60, it is used, for example, to disconnect the aux boiler above a certain temperature (using the NC contact) or to start an external pump at temperature (using the NO contact)
- If the boiler configuration has been chosen, the Aux contact is set on "Three-way boiler valve": the contact changes when there is a heat request from the boiler.
- If the Puffer configuration has been chosen, the Aux contact is set on "Pump control": the NO contact closes when there is a heat request from the Room PROBE

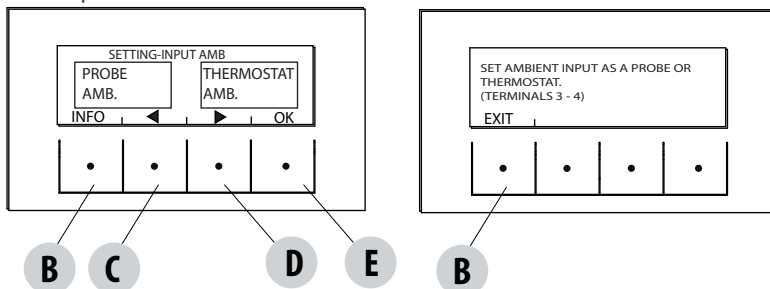
INPUT AMB

The room input is used to set the probe or the thermostat at terminals 3-4 of the back terminal board of the stove.

The stove has the room probe set as default factory settings.

By selecting the thermostat, it is possible to replace the probe on the stove with a thermostat that requests heat when the contact is closed.

To enter the function press:



14 - MENU SETTINGS

from the Settings menu - press ok (E key), press the D key (arrow) and scroll up to Room Input, press OK (E key) and select room thermostat, press E key to confirm.

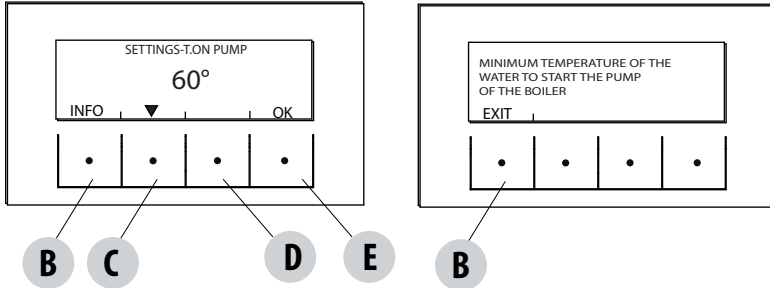
Attention!!! If room temperature is selected, weekly hourly Programming is not available.

PUMP ON T

This function enables adjustment of the pump activation temperature.

To enter the function press:

from the Settings menu- press ok (E key), press the C-D key (arrow) and scroll up to temp.On pump, press OK (E key)- Modify the



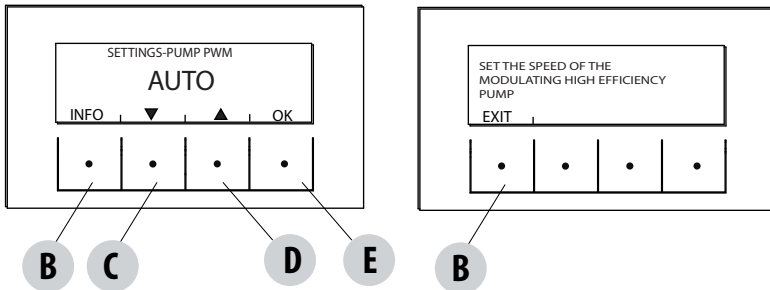
temperature using the central C and D keys, press the E key to confirm.

PWM PUMP

This function is used to set high efficiency pump speed.

To enter the function press:

from the Settings menu- press ok (E key), press the C-D key (arrow) and scroll up to PWM Pump, press OK (E key)- Modify the percentage using the central C and D keys, press the E key to confirm.



FUNCT. ANTI-FREEZE

It consists in activating the pump (level 1) or the stove (level 2) and is automatically activated by the temperature read by the stove probe and the temperature read by the external probe (if present and connected to the aux input).

The level 1 anti-freeze activation conditions (PUMP ON) are:

boiler temp < anti-freeze set +3°C

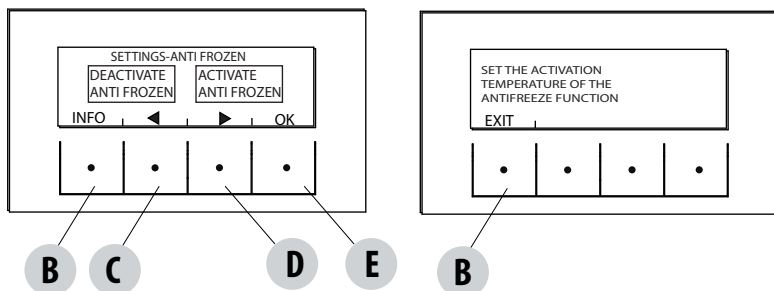
The level 2 anti-freeze activation conditions (PUMP and FLAME ON) are:

boiler temp = anti-freeze set

Anti-freeze activation conditions on external probe (if present) are:

ext_filtered temp < anti-freeze set -3°C

14 - MENU SETTINGS



To enter the function, press and adjust anti-freeze set:

from the Settings menu- press ok (E key), press the C-D key (arrow) and scroll up to Antifreeze function and press OK (E key)- Activate and set (from 1 to 5°C) or Deactivate the function and press the E key to confirm.

PELLET SENSOR

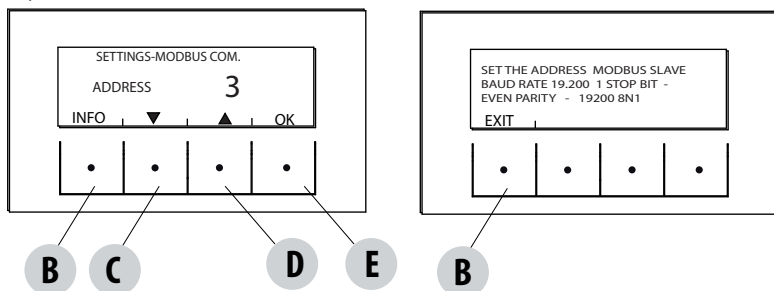
Optional Function.

MODBUS COM.

It is a communication system that makes it possible for the stove to receive commands from a Smartphone/tablet through a Web/Wi-Fi interface.

To enter the function press:

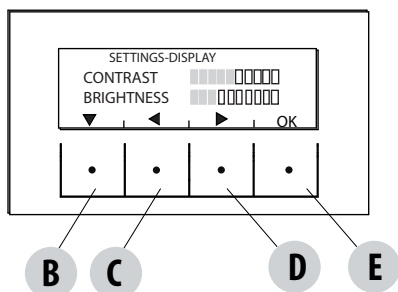
from the Settings menu - press ok (E key), press the C-D key (arrow) and scroll up to Modbus com. and press OK (E key)- Set the address and press E key to confirm.



DISPLAY

Adjust display contrast and brightness. This function is found in:

from the Settings menu- press ok (E key), press the C-D key (arrow) and scroll up to Display, press OK (E key)- Modify the settings using the B - C - D keys and press the E key to confirm.

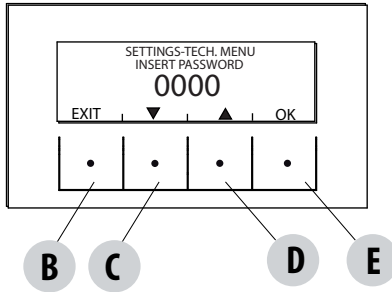


15 - TECHNICAL MENU

TECHNICAL MENU

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

To make changes in the technical menu, enter the SETTINGS menu, press the "E" (OK) key, scroll using the "C"- "D" arrows keys and select Technical menu and press OK (E key)- Enter the password and press the E key to confirm.



To enter the password:

using the C and D keys, set the numbers (1-2-3....9) with the E (OK) key confirm and move on to the next digit, once the four digits have been entered, press the E key to enter the technical menu.

The technical menu displays the following parameters:

- ACTIVE +
- FUMES ANALYSIS F.
- CALIB.ACTIVE
- CALIB.S.FUMES
- DIAGNOSTIC
- PARAMETERS
- BOLL ADVANCE
- RESET HOURS

15 - TECHNICAL MENU

SAFETY DEVICES

The product is fitted with the following safety devices

ACTIVE +

Besides adjusting the stove operation, it also guarantees that the pellet loading feed screw is blocked if unloading is blocked or there is significant back pressure.

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 HOPPER

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

WATER THERMOSTAT

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

WATER TEMPERATURE SENSOR

When the water reaches the stop temperature (85°C), the probe automatically instructs the boiler to carry out automatic "OFF Stand-by" shut-off.

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 electronic boards are found on the latter.

SMOKE FAN

If the fan stops, the electronic board shuts off the supply of pellets in good time, and an alarm message is displayed.

GEAR MOTOR

If the reduction 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 CUT

When a power cut is less than 10", the stove returns to its previous operating state; if it is more, it executes a cooling/re-ignition cycle.

FAILED START-UP

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

ANTI-FREEZE FUNCTION

If the probe in the boiler detects a water temperature of less than 5°C, the circulation pump is automatically activated to keep the system from freezing.

PUMP ANTI-SEIZURE FUNCTION

If the pump is not used for prolonged periods, it is activated periodically for a few seconds to keep it from seizing up.

16 - SAFETY DEVICES AND ALARMS



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. In particular:

- 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 eliminating the cause of the intervention of the safety system is it possible to start the product back up. This manual will help you understand which anomaly has occurred, and explain how to intervene according to the alarm message displayed on the appliance.

Mechanical stove block

The following conditions may cause the mechanical stove block:

- Overheating of the structure and pellet hopper
- Overheating of the water in the boiler
- High pressure of the outlet fumes (read on the pressure switch) and possible obstruction of the outlet.

The control panel will indicate the cause of the alarm and sound an acoustic warning.

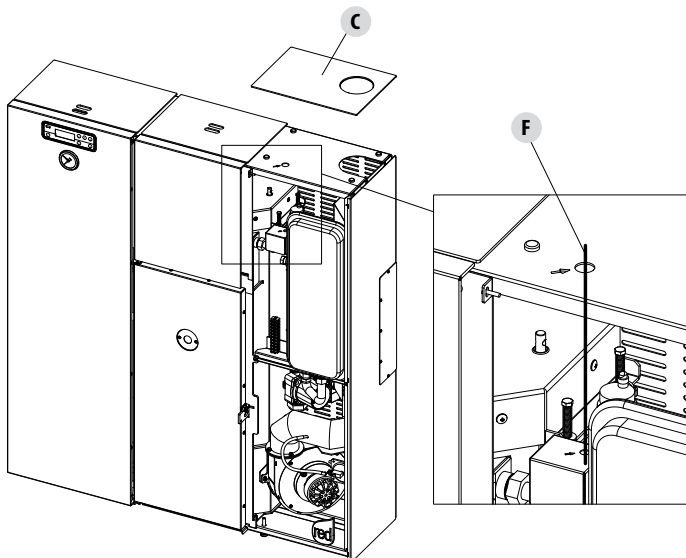
In this situation, the automatic shut-down sequence is activated.

When this sequence is initiated, any attempt to restart the system will be ineffective.

Safety thermostat with manual rearming at 95°C

The boiler enters a state of safety ALARM called "A03" Thermostat alarms, caused by high water temperature. To cancel the alarm status, the thermostat must be rearmed manually.

Only when the boiler has cooled, remove the upper cover "C" and insert tool "F", which is at least 30 cm long, through the hole with the arrow to press the reset button; you will hear the thermostat click. The manually rearmed thermostat has now been reactivated. Replace the cover "C".



16 - SAFETY DEVICES AND ALARMS

ALARM ALERTS

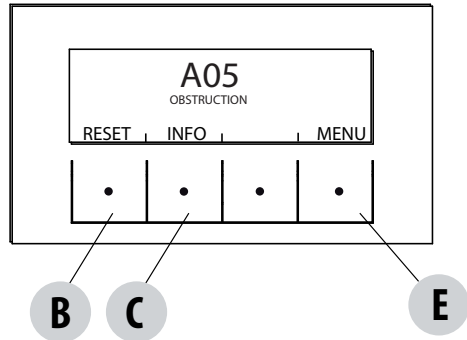
If there is an operational anomaly, the stove enters the alarm phase displaying the problem that has taken place through a code, a brief description of the alarm type and an acoustic warning.

The following table describes the possible alarms indicated by the stove, associated to the respective code that appears on the panel and helpful tips to solve the problem.

B = RESET (cancels alarm)

C = INFO (provides information on the alarm type)

E = MENU



WRITTEN ON THE DISPLAY	TYPE OF PROBLEM	SOLUTION
A01 NO IGNITION	The fire does not ignite. (without acoustic alarm)	Check the level of pellets in the tank. Check that the brazier rests correctly in its seat and has no visible deposits or unburnt pellets. Check whether the ignition plug becomes hot. Empty and clean the brazier before relighting..
A02 NO FLAME	The fire goes out abnormally. (without acoustic alarm)	Check the level of pellets in the tank. Check that the brazier rests correctly in its seat and has no visible deposits of unburned pellets.
A03 PLT SAFETY	Pellet tank temperature is too high	Wait for the cooling phase to end, cancel the alarm and reduce pellet loading (SETTINGS MENU - Pellet recipe). If the alarm persists, contact the service centre.
A04 FUMES TEMP	Fumes temperature is too high	Wait for the cooling phase to end, cancel the alarm and reduce pellet loading (SETTINGS MENU - Pellet recipe). If the alarm persists, contact the service centre.
A05 OBSTRUCTION	Chimney flue clogged	Verify brazier clogging, smoke duct, lower compartment and door closing. If the alarm persists, contact the service centre.

16 - SAFETY DEVICES AND ALARMS

WRITTEN ON THE DISPLAY	TYPE OF PROBLEM	SOLUTION
A08 FLUE GAS FAN	Faulty smoke fan.	Check that the lower compartment is clean (see the pages dedicated to stove cleaning) and verify that it is not obstructed; clean it and cancel the alarm. If the alarm persists, contact the service centre.
A09 SMOKE TEMPERATURE PROBE	Smoke sensor fault.	Contact an authorised service centre to have the component checked and, if needed, replace the component.
A11 GEAR REDUCER	Feed screw gear reducer fault.	The component is not working regularly. Contact an authorised service centre to have the component checked and, if needed, replace the component.
A13 BOARD TEMP	Electronic board overheating	Wait for the cooling phase to end, cancel the alarm and reduce pellet loading (SETTINGS MENU - Pellet recipe). If the alarm persists, contact the service centre. .
A14 ACTIVE SENSOR	Active sensor anomaly	Active Plus sensor operation anomaly. Contact an authorised service centre to have the component checked and, if needed, replace the component.
A18 WATER SIC	Water thermostat intervention	Water temperature is too high or thermostat operation anomaly. If the alarm persists, contact the service centre.
A19 WATER PROBE	Fault with water sensor.	Possible fault in the safety component. Contact an authorised service centre to have the component checked and, if needed, replace the component.
A20 AUX PROBE	Auxiliary probe fault	Possible component fault. Check that the probe inserted in the system respects the characteristics specified in the instructions (see external probe). Contact an authorised service centre to have the component checked and, if needed, replace the component.

Exiting the alarm conditions



NEVER open the appliance door whilst the stove is either in the initial startup or on its shut down cycle, pellets will still be smoldering or therefore volatiles may be present.

ATTENTION!

If during operation or initial ignition you encounter smoke spillage in to the room from the appliance or the flue then please switch off the appliance, ventilate the room and contact the installation / service engineer immediately.

16 - SAFETY DEVICES AND ALARMS

When the stove enters an alarm state, an automatic cooling/shut-off phase begins, at the end of which the cause of the alarm is displayed on the small panel.

Before resetting the alarm, follow the controls indicated in the previous table, and then press the RESET key for a few seconds (or remove power to the stove using the main ON/OFF switch on the back of the stove).

If the indicated actions do not solve the problem, the alarm condition will occur once again with different timing based on the alarm type: in this case, contact technical assistance.

SHUT DOWN

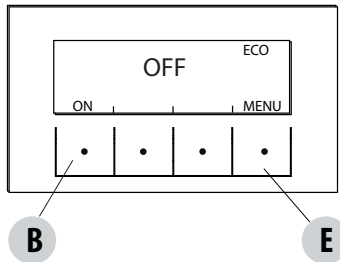
If the shut-down key is pressed or one of the following conditions occurs:

- power request ends (Power = 0) for Ecostop, Timer, Sleep
- an alarm condition occurs
- water overheating occurs

the stove enters the shut down and thermal cooling phase that automatically includes the execution of the following phases:

- pellet loading stops
- the room fan maintains the set speed until it cools down
- the fumes extractor is activated at maximum speed and remains on for a fixed period of 5 minutes, at the end of which the stove off temperature is reached.

During the shut down phase, the small panel displays the wording OFF (see screen) but if it is in shut down due to an alarm condition, the small panel displays the related code (See alarms table)



BLACKOUT WITH STOVE ON

If power is lost for less than 10" from stove start-up, it is repositioned in the phase where it was before the power failure.

If the loss of power exceeds 10", when the stove is powered once again, it goes back to the previous operational condition with the following procedure it

- carries out a cooling phase, during which the panel displays OFF BLACKOUT
- restarts the stove

If the stove is in ignition phase when the blackout occurs, it will not turn back on once the power is restored (there is a risk that residual pellet is present in the brazier) and the panel will display OFF BLACK-OUT.

If the ON key is pressed during the cooling phase, the stove stops executing the blackout restore state and it proceeds with ignition as requested by the command. In the same way, pressing OFF is interpreted as a shut off command.

17-RECOMMENDATIONS FOR A 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 inappropriate 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, like for 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 ignitions, generating an anomalous production of unburned 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 nonconforming 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 costal regions.

The combination of one or more of these factors could generate important malfunctioning conditions.

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

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

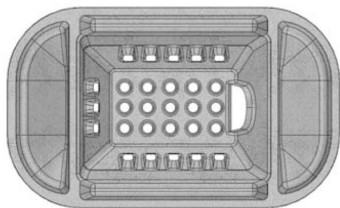
- Every time the brazier is removed for cleaning, it must always be put back properly in the work position before using the product, completely removing any residual filth left on the support base.
- Pellets must never be loaded in the brazier manually, either before ignition or during operation.
- The accumulation of unburned pellets ensuing a failed ignition must be removed before repeating ignition. Also check that they are fed correctly and that the combustion air inlet/smoke outlet are regular.
- 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 guarantee proper operation and to avoid any type of problems with the product.

If the above-mentioned 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 electrical power to the product for any reason whatsoever: this would stop the smoke extractor, releasing smoke into the environment.
- Take the precaution of opening the windows to ventilate the installation room from any smoke in the environment (the chimney might not work properly).
- Do not open the fire door: this would compromise regular operation of the smoke extraction system to the chimney.
- Just switch the stove off by acting on the on-off button on the control panel (not the rear power supply socket button!) and move away until smoke has completely evacuated.
- Before attempting re-ignition, clean the brazier and its air passage holes completely of all deposits and unburned 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.

18 - MAINTENANCE AND CLEANING



Example of a clean brazier



Example of a dirty brazier

Only a proper maintenance and cleaning of the product can assure you the correct functionality and a safe use of your stove.



ATTENTION!

All the cleaning operations of all parts must be performed with the product completely cold and the plug disconnected.

Disconnect the product from the 230V power supply before performing any maintenance operation.

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

DAILY OR WEEKLY CLEANING PERFORMED BY THE USER

Brazier cleaning

Before ignition, always clean the brazier and remove any ash or incrustation 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 tank 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 THE IGNITION AND OPTIMAL OPERATION OF YOUR PELLET PRODUCT. IN CASE OF FAILED IGNITION AND AFTER ANY OTHER LOCK STATE OF THE PRODUCT, IT IS ESSENTIAL TO EMPTY THE BRAZIER BEFORE PROCEEDING TO 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 good quality pellets are used, you will normally only need to use a brush to restore the optimal operating conditions of the component.

Ash tray cleaning

Remove and empty the ash tray. Wipe away any residual ash before reinserting the tray. Your experience and the quality of the pellets will determine the ash tray 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 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 gaskets (ceramic fibre cord).

18 - MAINTENANCE AND CLEANING

CLEAN THE EXCHANGER AND THE COMPARTMENT BENEATH THE BRAZIER EVERY 2/3 DAYS

Cleaning the exchanger and the compartment beneath the brazier is a simple operation but very important if the boiler is to maintain optimal performance.

We therefore recommend cleaning the internal exchanger every 2-3 days, performing these simple operations in sequence:

- **Activate the "PULIZIA" (CLEANING) function** – with the stove on press - menu ("E" key), select "IMPOSTAZIONI" (SETTINGS) using the "C" and "D" keys and press OK ("E" key), scroll using the "C" and "D" keys and select "CICLO PULIZIA" (CLEANING CYCLE), confirm pressing "OK" ("E" key), activate the "ATTIVA CICLO DI PULIZIA" (ACTIVATE CLEANING CYCLE) function, confirm by pressing OK ("E" key). This procedure starts the smoke extractor on the maximum setting to expel the soot that becomes dislodged when the exchanger is cleaned.
- **Clean the pipe unit** - Using the provided hook "A", shake the rods located beneath the top firmly for 5-6 times. This will remove any soot that has deposited in the exchanger's smoke ducts during normal stove operation.
- **Deactivate the "CICLO PULIZIA" (CLEANING CYCLE) function** – this function is deactivated by pressing the "DISATTIVA CICLO PULIZIA" (DEACTIVATE CLEANING CYCLE).
- **Clean the smoke conveyor compartment (fig. in following page)** - The stove is equipped with a removable ash tray "G", which collects any accumulations of soot and ash.
- Once cleaning is finished, reposition the top and the ash tray "G".



If cleaning is not done every 2-3 days, the boiler could go into alarm caused by ash clogging after several hours of operation.

Figure 1

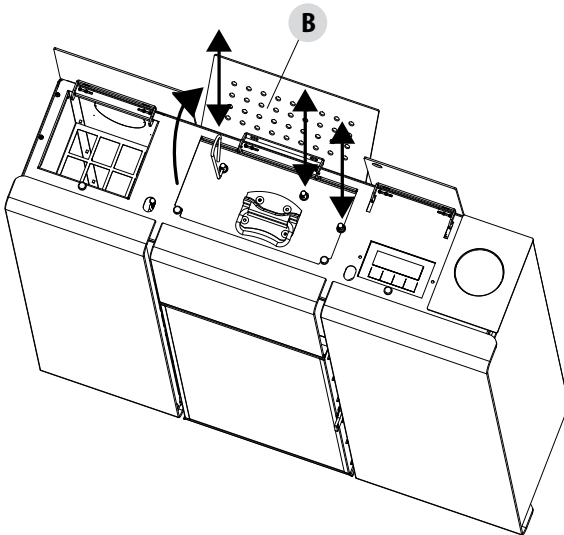
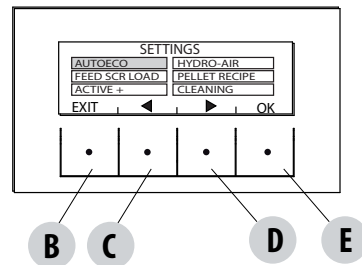
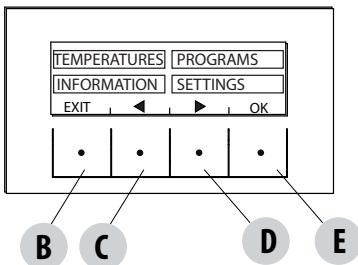
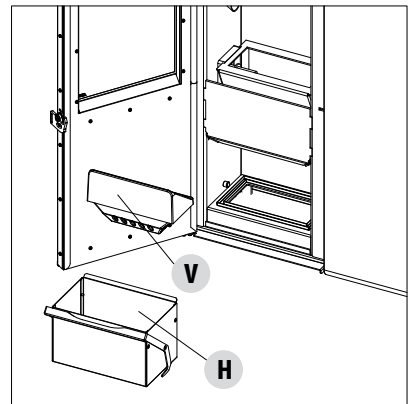


Figure 2



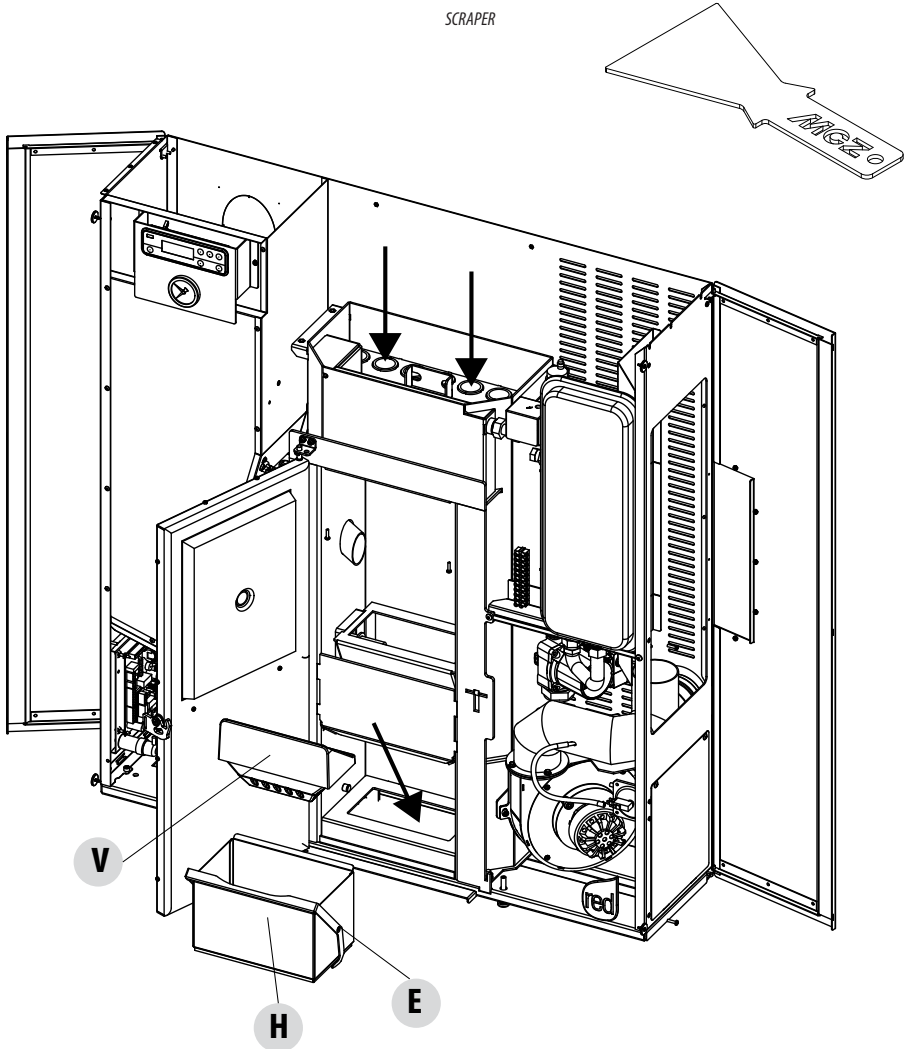
18 - MAINTENANCE AND CLEANING

CLEANING THE LOWER COMPARTMENT

Remove the brazier "V", lower the lever "E" and take out the tray "H". Clean the brazier and tray removing any ash and vacuum any ash or soot that may have accumulated under the tray.

Check the seal of the door seal and replace it if necessary.

Before removing ashes using a vacuum cleaner, it is recommended to clean the internal walls of the stove using the supplied scraper.



18 - MAINTENANCE AND CLEANING

PERIODIC CLEANING PERFORMED BY A QUALIFIED TECHNICIAN

CLEANING THE EXCHANGER AND PIPE UNIT

CLEANING THE UPPER COMPARTMENT

With the boiler cool and after removing the covers (see paragraph on panel removal); loosen the 4 M6 screws "x" on the right and left and lift the cover "V" (fig.3).

The three pipes have now been extracted (fig.4). Using a rod or a brush for cleaning bottles, clean inside the pipe unit and the pipes, removing any ash deposits (fig.5).

Check the cover seal and replace it if necessary.



ATTENTION: the exchanger must be cleaned at the end of the season by an authorised technician so that any worn seals may be replaced.

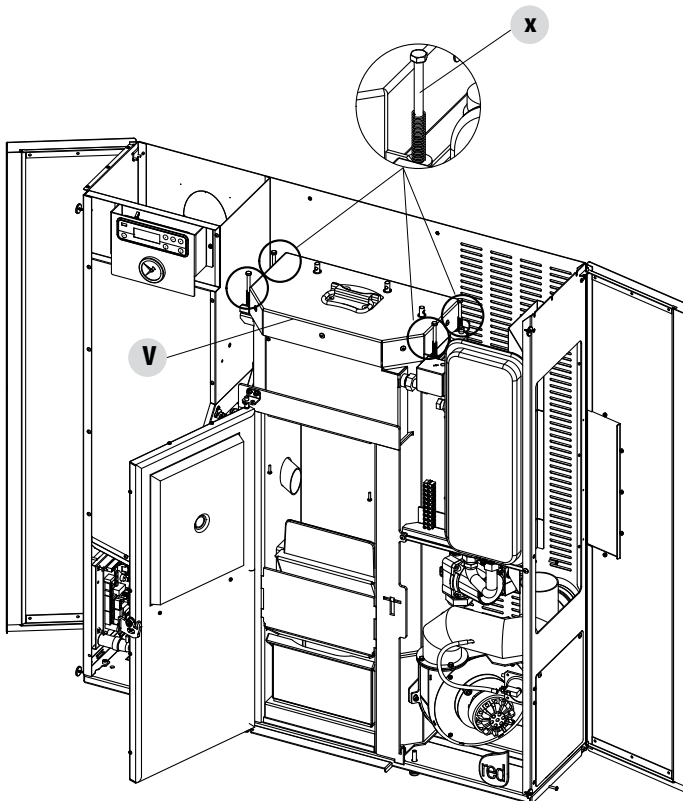


Figure 3

18 - MAINTENANCE AND CLEANING

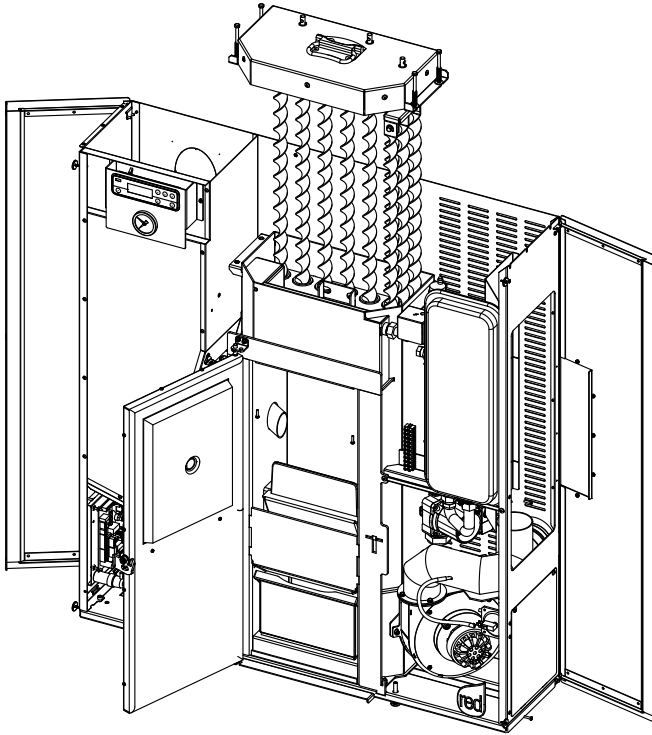


Figure 4

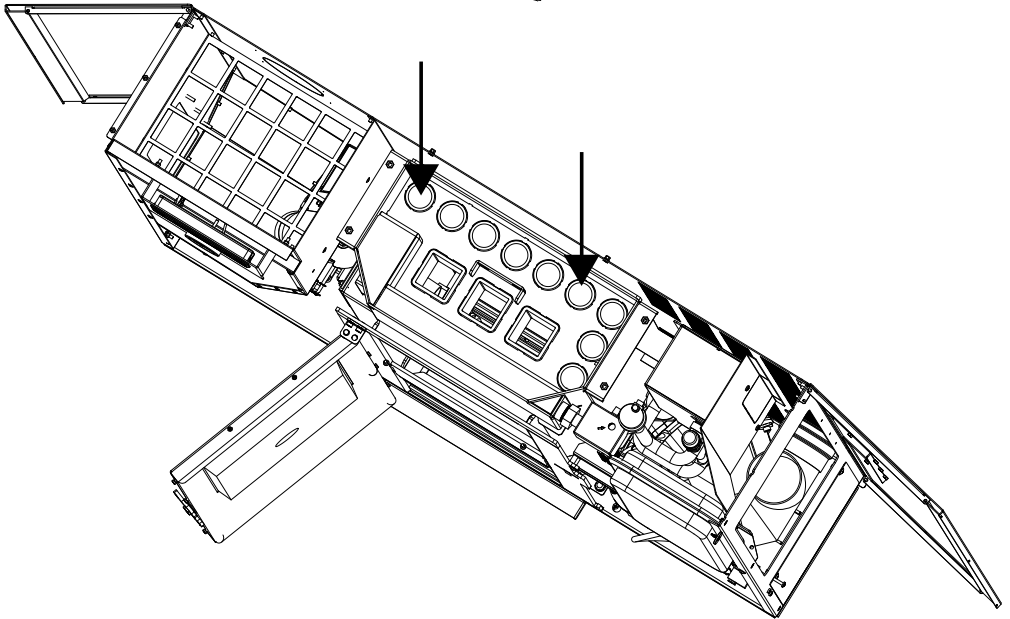
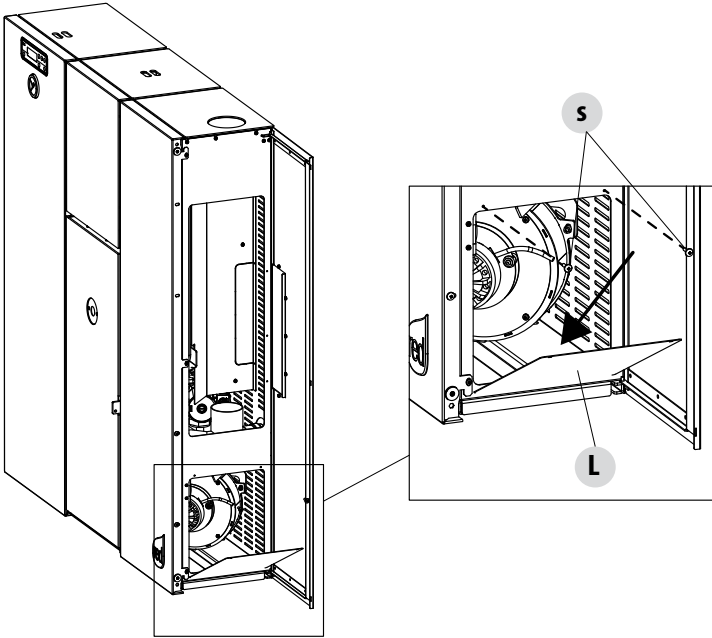


Figure 5

18 - MAINTENANCE AND CLEANING

CLEANING OF THE SMOKE EXTRACTOR COMPARTMENT

Open the access panel on the right side, and remove the two screws "s" at the bottom right. Lower the window "L" and use the vacuum cleaner to remove any ash that has accumulated on the extractor fan.



CLEANING OF SMOKE DUCT AND GENERAL CHECKS:

Clean the smoke extractor duct, especially around the T joints, bends and any horizontal sections. For information on cleaning the flue, contact a chimney sweep.

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



CAUTION:

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

We recommend relying on an authorized service centre for end-of-season cleaning and maintenance, they will carry out all of the previously mentioned work and make a general check of the stove's components.

END-OF-SEASON SHUTDOWN

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

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 fuse compartment on the back of the product, under the power socket. After having disconnected the plug from the socket, use a screwdriver to open the cover of the fuse compartment and, if necessary, replace them (3.15 A delayed).

18 - MAINTENANCE AND CLEANING

CLEANING THE CONTROL PANEL DISPLAY



ATTENTION!!

THE PANEL DISPLAY IS VERY DELICATE, IT IS SUPPLIED WITH A PROTECTIVE FILM.

RECOMMENDATIONS FOR CLEANING:

Clean using a soft cotton cloth, which should be dry or slightly moist.

Do not use aggressive detergents or polyester materials.

Do not use abrasive sponges or powder detergents nor solvents such as alcohol and petrol, since they may damage the surface of the device.

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 that an annual maintenance service is carried out with a scheduled service contract. This service is essentially a visual and functional inspection of the following components: The following is a summary of the checks and/or maintenance that are indispensable for the correct operation of the product.

PARTS/INTERVAL	1 DAY	2-3 DAYS	7 DAYS	30 DAYS	60-90 DAYS	1 YEAR
Brazier	•					
Ash pan			•			
Glass		•				
Lower compartment			•			
Complete exchanger					•	
Smoke duct				•		
Door gasket					•	
Internal parts						•
Flue						•
Circulation pump						•
A plate heat exchanger						•
Plumbing components						•
Electro-mechanical components						•

* The frequency of cleaning should be increased if the pellets are of poor quality.

19-FAULTS/CAUSES/SOLUTIONS



CAUTION:

All repairs must be carried out exclusively by a specialised technician, while the boiler is completely cold and the electric plug is disconnected.

ANOMALY	POSSIBLE CAUSES	SOLUTIONS
The pellets are not fed into the combustion chamber.	The pellet hopper is empty	Fill the hopper with pellets
	Sawdust has blocked the feed screw	Empty the hopper and remove the sawdust from the feed screw by hand
	Faulty gear motor	Replace the gear motor
	Faulty electronic board	Replace the circuit board
The fire goes out or the stove stops automatically	The pellet hopper is empty	Fill the hopper with pellets
	The pellets are not fed	See the previous anomaly
	The pellet temperature safety probe has been triggered	Let the stove cool down, reset the thermostat until the problem is resolved and switch the stove back on. If the problem persists, contact technical assistance.
	Chrono active.	Check if the chrono setting is active.
	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 booklet.
	The combustion chamber is dirty	Clean the combustion chamber, following instructions in the manual
	Clogged outlet	Clean the smoke duct
	Faulty smoke extraction motor	Check the motor and replace it, if necessary
Water tank temperature too high	Check correct operation of the water circulation pump and the hydraulic system in general.	

19-FAULTS/CAUSES/SOLUTIONS

ANOMALY	POSSIBLE CAUSES	SOLUTIONS
The stove runs for a few minutes and then goes out	Start-up phase is not completed	Repeat start-up
	Temporary power cut	Wait for the automatic restart
	Clogged smoke duct	Clean the smoke duct
	Faulty or malfunctioning temperature probes	Check and replace the probes
Pellets accumulate in the brazier, the glass of the door gets dirty and the flame is weak	Insufficient combustion air	Make sure that the air inlet in the room is fitted and clear. Check that the combustion air filter on the Ø 5 cm air inlet pipe is not clogged. Clean the brazier and check that all the holes are clear. Perform a general cleaning of the combustion chamber and the smoke duct. Check the condition of the door gaskets.
	Damp or unsuitable pellets	Change the type of pellets
	Faulty smoke evacuation motor	Check the motor and replace it, if necessary
The smoke evacuation motor does not work	No electrical supply to the stove	Check the mains voltage and the protection fuse
	Motor block caused by clogging.	Perform a general cleaning of the combustion chamber and the smoke duct.
	The motor is faulty	Check the motor and capacitor and replace them, if necessary
	Defective motherboard	Replace the electronic board
	Control panel broken	Replace the control panel
The stove does not run	No power supply	Check that the plug is inserted and the main switch is in the "I" position.
	Pellet or water probe fault	Wait for the pellet or water tank to cool down and restart the stove
	Blown fuse	Replace the fuse.
	Faulty spark plug	Check the spark plug and replace it, if necessary

19-FAULTS/CAUSES/SOLUTIONS

ANOMALIES RELATED TO THE HYDRAULIC CIRCUIT

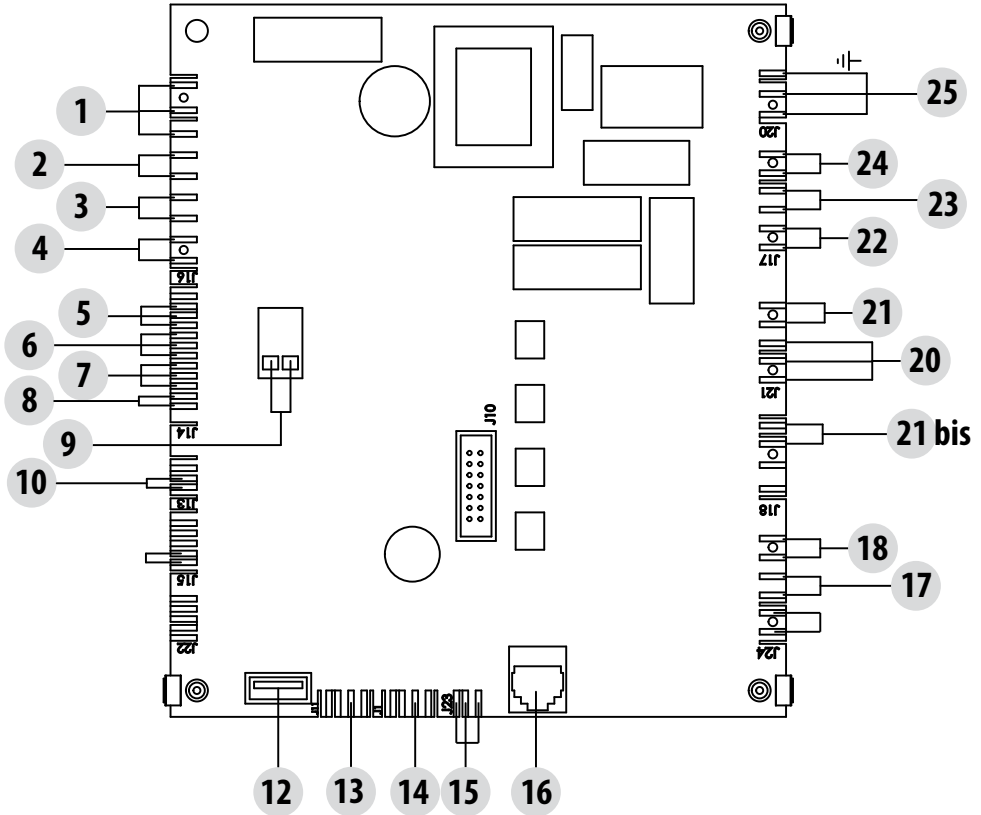
ANOMALY	POSSIBLE CAUSES	SOLUTIONS
No increase in temperature with stove in operation	Incorrect combustion adjustment.	Check recipe
	Boiler / system dirty.	Check and clean the boiler.
	Insufficient stove power	Check that the stove is properly sized for the requirements of the system
	Poor pellet quality	Using pellets from the producer
Condensation in boiler	Incorrect boiler or pump temperature setting	Set the stove or the pump to a higher temperature
	Insufficient fuel consumption.	Check recipe
Radiators cold in winter	Room thermostat (local or remote) set too low. If remote thermostat, check if it is defective.	Set to higher temperature or replace. (if remote)
	Circulator does not run because it is blocked.	Free up the circulator by removing the plug and turning the shaft with a screwdriver.
	Circulator does not go round.	Check the electrical connections of the circulator; replace if necessary.
	Radiators have air in them	Vent the radiators
Hot water is not provided	Circulator (pump) blocked	Free the circulator (pump)



If the stove is NOT used as described in this instruction booklet, the manufacturer declines all responsibility for damage to persons and property that may arise. The manufacturer furthermore refuses to accept responsibility for damage to persons and property arising from the failure to observe all the rules contained in the manual and in particular:

- ***The operations in italics must be carried out by specialised personnel from the manufacturer***
- ***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 stove to an efficient smoke extraction system.***
- ***First, check that the environment where it is to be installed is properly ventilated.***

20 - CIRCUIT BOARD



MOTHERBOARD WIRING KEY

- | | |
|------------------------------------|----------------------------------------|
| 1. AUX RELAY (C-NO-NC) | 14. SERIAL COMMUNICATION |
| 2. HOME AUTOMATION CONTACT | 15. PWM PUMP CONTROL |
| 3. ROOM PROBE | 16. CONTROL PANEL |
| 4. INPUT AUX | 17. WATER TEMPERATURE OVERLOAD CUT-OUT |
| 5. SMOKE FAN ENCODER | 18. HOPPER OVERLOAD CUT-OUT |
| 6. GEAR MOTOR ENCODER | 19. ----- |
| 7. PRESSURE TRANSDUCER | 20. 3-WAY VALVE |
| 8. WATER PROBE | 21. PWM PUMP SUPPLY |
| 9. SMOKE TEMPERATURE PROBE | 21bis. STANDARD PUMP |
| 10. PELLET LEVEL SENSOR (OPTIONAL) | 22. GEAR MOTOR |
| 11. ----- | 23. SMOKE FAN |
| 12. SOFTWARE UPDATE | 24. SPARK PLUG |
| 13. EXPANSION | 25. SWITCH |

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



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