



PELLET STOVE

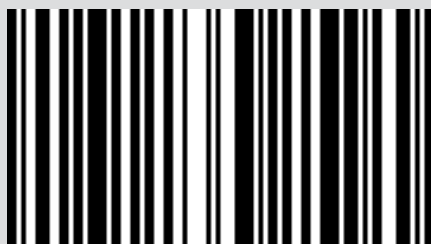
# **SUITE-CLUB-MUSA**

## **Hydromatic 16/24**

### **PART 2 - OPERATION AND CLEANING**

Instructions in English

# **MCZ**



8901617900

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## 11-PRECAUTIONS BEFORE START-UP

### GENERAL PRECAUTIONS

Remove any objects that may burn from the brazier (manual, various adhesive labels or any 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 FAILED IGNITION ALARM. REMOVE THE PELLETS 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, which **must rest snugly against the slots and be clean without 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 you touch the paint, you may expose the steel surface.*

If necessary, touch up the paint with the spray can of the specific colour. (See "Pellet stove accessories").



*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.



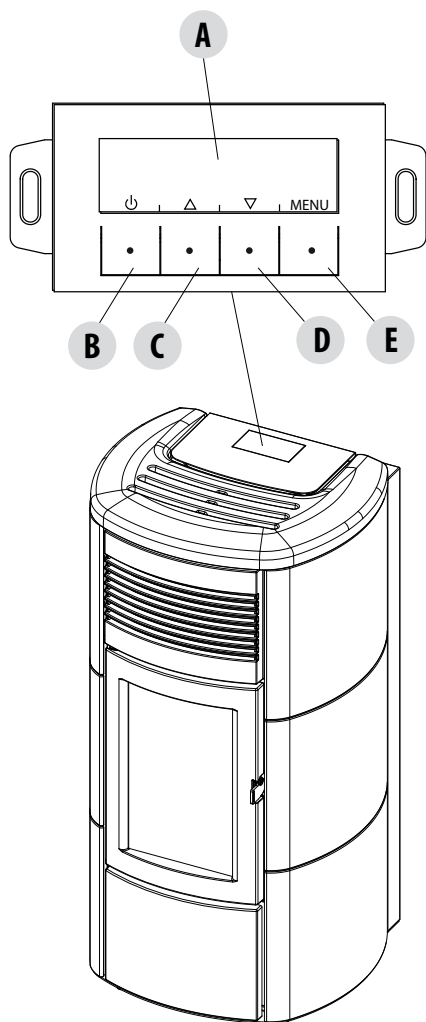
**DO NOT EXPECT HEATING EFFICIENCY IMMEDIATELY!!!**

**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.*

## 12-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)

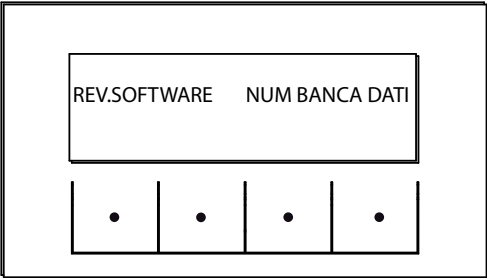
C - Function selection key indicated by the upper display (i.e. increase/scrolling)

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)

# 13-FIRST START-UP

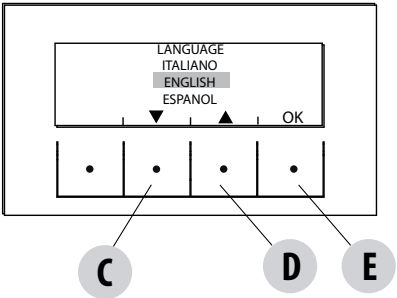
## INITIAL START-UP



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.

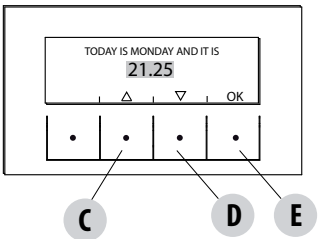
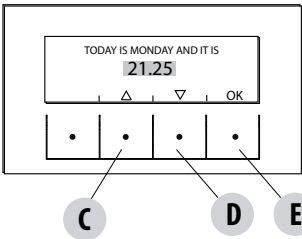
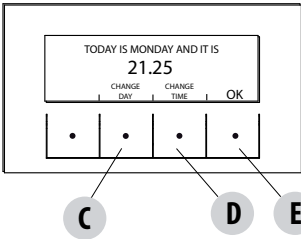
## SELECT LANGUAGE

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

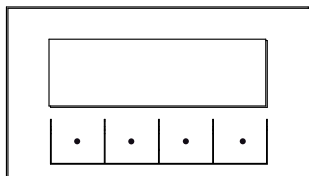


## 13-FIRST START-UP

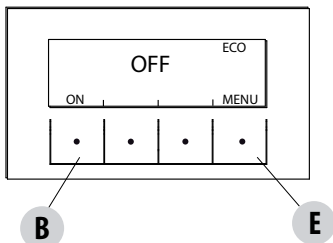
### SCREEN OFF

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

Pressing any one of the keys (B, C, D, E) will result in the first screen showing OFF to be displayed. From this screen, pressing keys "B" and "E" (respectively corresponding to ON and MENU) it is 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



OFF-DISPLAY ACTIVE

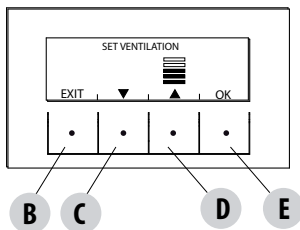
### PRELIMINARY OPTIONS

Hydro Air stoves are characterised by the presence of a heating hydraulic circuit and a room air fan for distributing hot air.

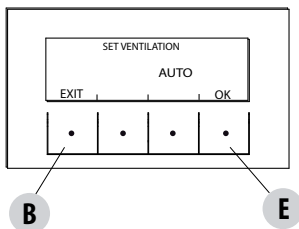
#### Room fan

The speed can be set manually or automatically.

In manual mode the speed, from 0 to 5, is selected by the user from the control panel. The fan is only activated if the temperature read by the smoke probe exceeds 100°C and is deactivated when it goes below 80°C; while at speed 0 the fan is off, if the flame power is below 40% otherwise it will run at speed 1.



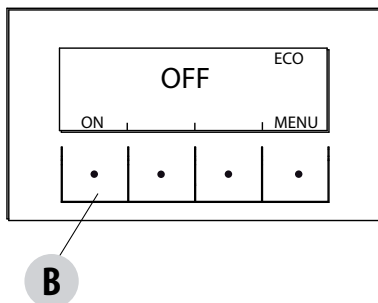
The stove adjusts the fan speed automatically according to the power of the flame.  
Even in this case the fan is only activated if air temperature of the smoke probe exceeds 100°C.



## 13-FIRST START-UP

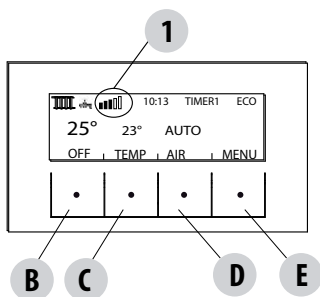
### Lighting the stove

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.



### Supplying power

The stove's power supply is signalled 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.



TOP BAR: active requirements, active programs, power bar, functions

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

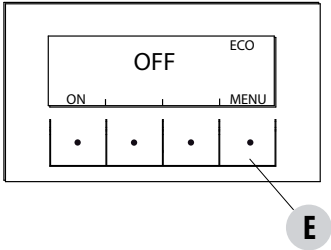
BOTTOM BAR/KEYS: shut-off "B", room temperature set modify "C" and fan set "D", menu "E"

1 = power level bars

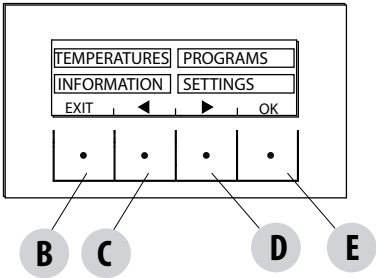
# 14-MENU STRUCTURE

## MENU STRUCTURE

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



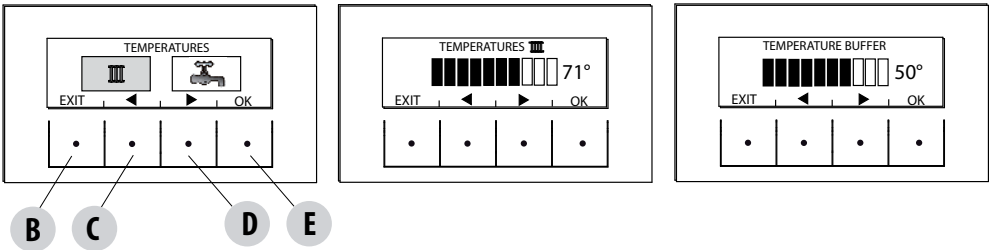
Next, this screen with the following functions is displayed:



**Sub-menu**  
TEMPERATURE  
PROGRAMMES  
INFORMATION  
SETTINGS

## TEMPERATURE (hydro air)

When accessing this function, the main screen makes it possible to set heating and sanitary water temperature (if boiler with probe 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.



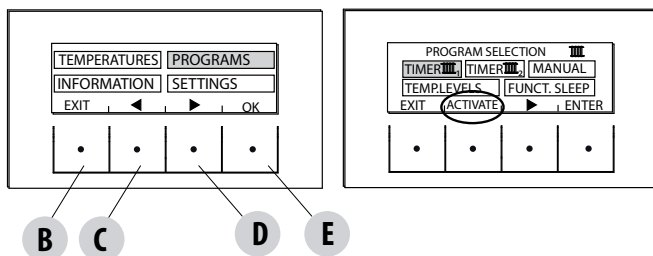
## PROGRAMMES

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.

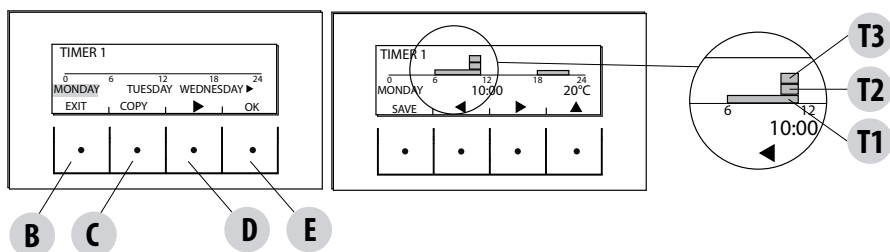
## 14-MENU STRUCTURE



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 programmes 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 (ENTER) "E" key, using arrow "D" highlight Monday and press OK ("E") to enter programming.

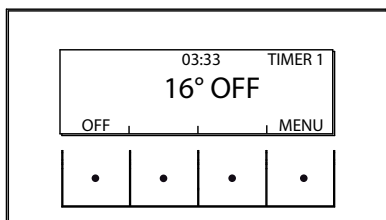
Using the centre arrow keys "C" and "D" select the half hour interval to be selected and use the "E" key to set temperature T1-T2-T3 (depending on whether the key is pressed 1-2-3 times the corresponding temperature can be read in the bottom right of the display). Once temperature programming for Monday is complete press the "B" SALVA (SAVE) key. If the same temperature scale of Monday is desired for other week days, after saving ("E" key) press the "C" key (COPIA-COPY), select the day where the program is to be copied using the "D" key and press the "C" key (INCOLLA-PASTE). Repeat the same procedure until the programmes for all the days of the week 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 available. 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.

14-MENU STRUCTURE

| Weekly programmes |  | Time table |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
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|                   |  | Days       | Temperatures<br>* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| Sunday            |  | T3         |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |

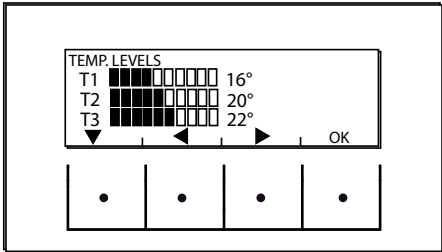
\* T1=16°C    T2=20°C    T3=22°C    OFF=switched off

# 14-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 programmes, 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” keys and enter the temperature settings screen. With the centre arrow keys “C” and “D” increases/decreases the temperature value, while the “B” is used to move to the next temperature. With the “E” key (OK) the set values are confirmed.

## SLEEP FUNCTION

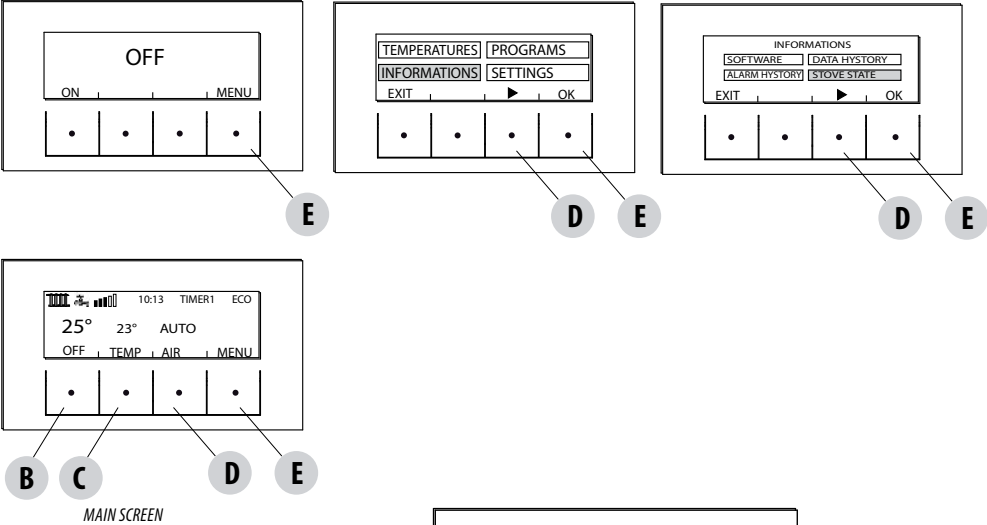
The sleep is only activated when the stove supplies power and makes it possible to programme a stove shut off time. The shut off can be delayed for a maximum of 8 hours from current time and with a 10 minute resolution. To activate, enter the PROGRAM menu, scroll using arrow key “D” up to the Function. 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”. When the Sleep function is active, the time remaining until shutdown is displayed in place of the current time.

# 15-INFORMATION MENU

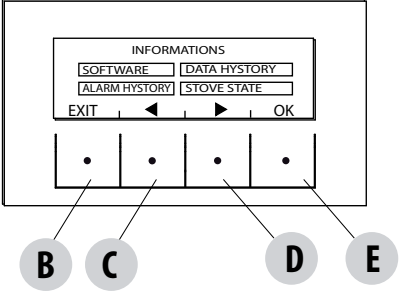
## INFORMATION

To enter the menu INFORMATION 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

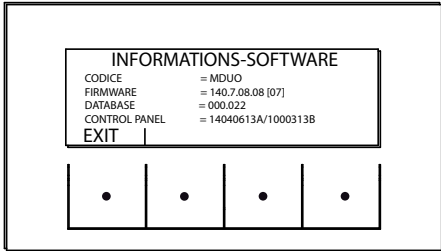


## SOFTWARE INFORMATION

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

# 15-INFORMATION MENU

## DATA MEMORY-INFORMATION

INFORMATIONS-DATA HYSTORY

WORKING HOURS = 100  
TOTAL IGNITIONS = 20  
TEST DATE = 15/01/2013

EXIT

The available data in this function are:  
WORKING HOURS  
TOTAL IGNITIONS  
TEST DATE

## ALARM MEMORY-INFORMATION

It gives information about the last alarms detected.

INFORMATIONS-ALARM HYSTORY

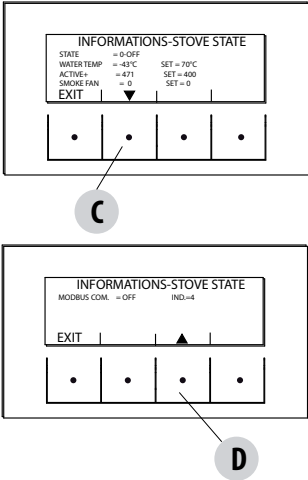
ALARM 02 - 28/06/13 13:44 1  
ALARM 02 - 21/06/13 08:03 2  
ALARM 02 - 21/06/13 08:02 3  
ALARM 02 - 21/06/13 09:46 4

EXIT

15-INFORMATION MENU

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:



| state       |            |
|-------------|------------|
| water temp. | set        |
| aux sensor  | set        |
| active+     | set        |
| fumes fan   | set        |
| auger       | set        |
| fumes temp. | req        |
| air fan     | pump       |
| relay aux   | spark plug |
| modbus com  | add.       |
| Auto Stop   |            |

- 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  
STATUS 80-92 stopped status/cooling/Auto Eco  
STATUS 93-98 auxiliary functions
- WATER TEMP.: Water temperature detected by the probe inside the stove and related SET
- AUX SENSOR: 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
- AUGER: Number of auger revolutions and related SET
- FUMES TEMP: fumes 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)
- RELAY AUX: 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
- AUTO STOP: minutes remaining before automatic shutdown for the mechanical brazier cleaning

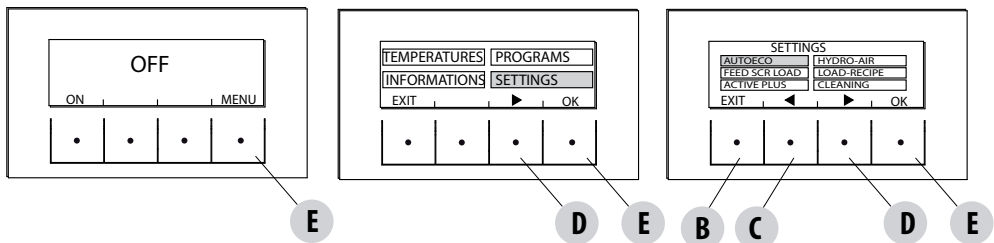
## 16-SETTINGS MENU

### 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 the 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.

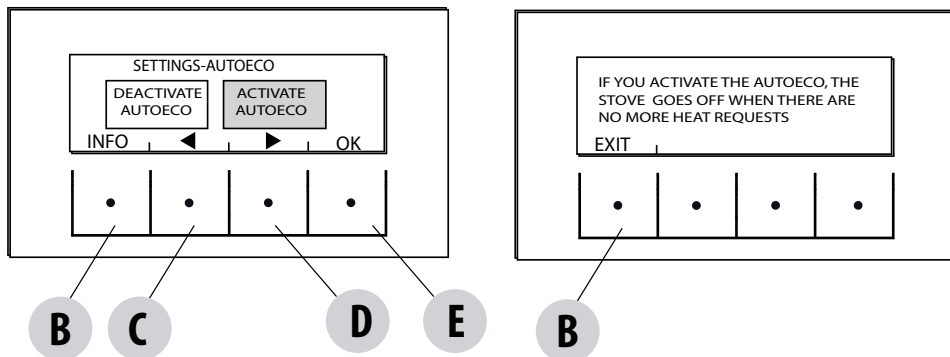


#### • SETTINGS

- Auto Eco (default activated)
- Max power (see boiler)
- Auger 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 specialized MCZ technician - password required)
  - Active +
  - Fume Analysis F
  - Calib.Active
  - Calib.S.fumes
  - Diagnostics
  - Parameters
  - Hour reset
  - Auto Stop

## 16-SETTINGS MENU

### AUTOECO (Factory activated)

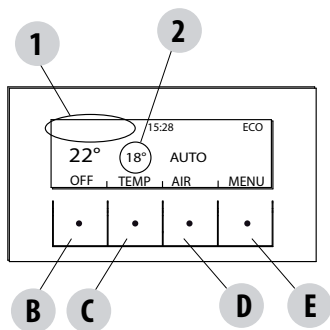


The Auto eco mode turns the stove off when the heating system does not require heat depending on the menu-settings-input aux configuration.

#### 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 set T is less than T room, or other heat request settings are satisfied the stove does not turn on.



1 = no heat request (T room > T set)

2 = T set

if set temperature is increased > T room (therefore in this case > 22°C) the stove with start-up after a few seconds due to the 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 a heat request for at least 10" consecutively; it is possible to restart if:

- at least 5' have elapsed from when shutdown began
- the  $\text{TH}_2\text{O}$  in the stove is < T set  $\text{H}_2\text{O}$

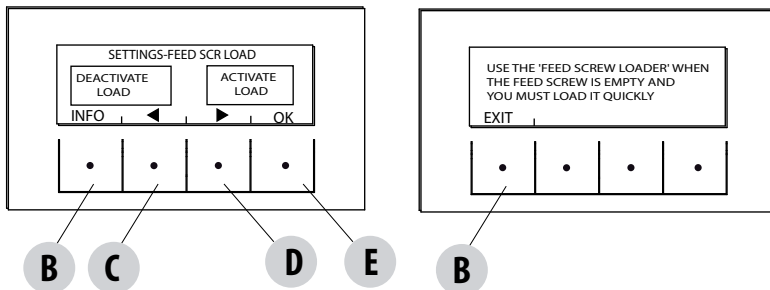
#### To modify the function:

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

## 16-SETTINGS MENU

### AUGER LOADING (only with the stove off)



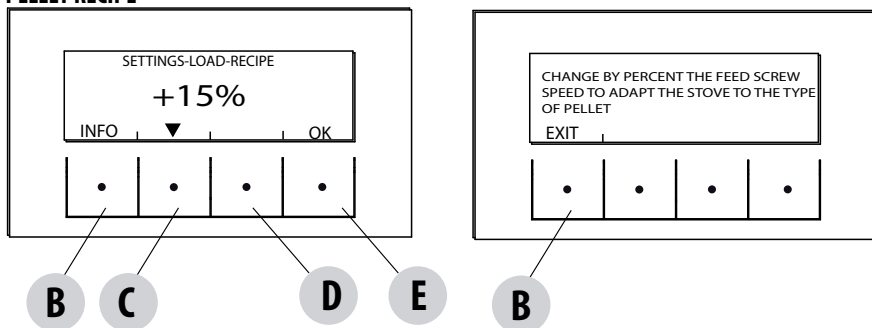
This function is for filling the pellet loading system. Can only be activated with the stove off.

To enter the function:

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

## 16-SETTINGS MENU

### 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:

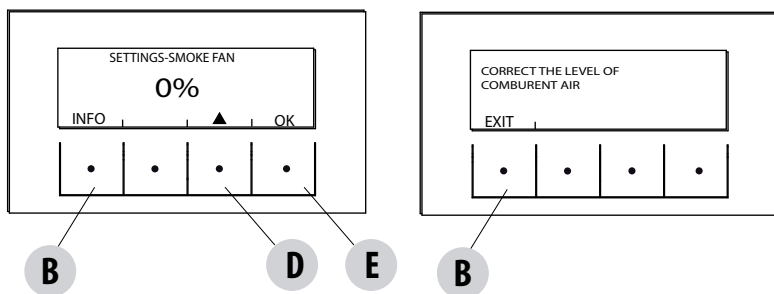
from the Settings menu- press ok (E key), press the D KEY (arrow) scroll up to pellet recipe and press OK (E key) and enter the function, using the "C" and "D" keys to modify the parameter and press Ok ("E" key).

### 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, guaranteeing an effective and efficient combustion this way that translates 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), and the new pellet stoves equipped with active plus are more silent.



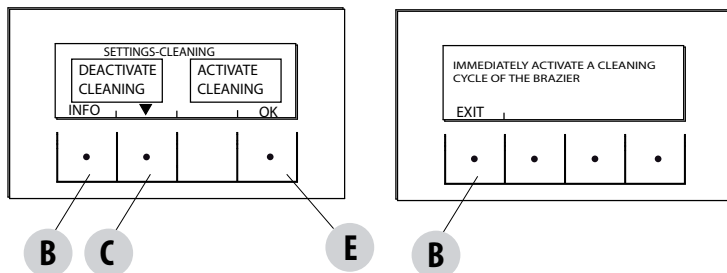
This function is used to adjust combustion air if the flame is too high or too low.

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

## 16-SETTINGS MENU

### CLEANING



This function can be activated as follows:

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

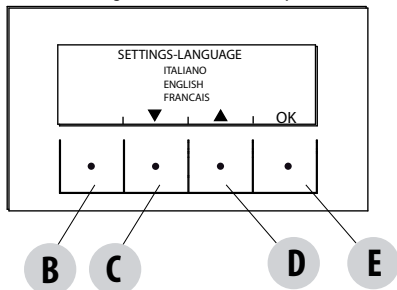
This procedure activates the fume extraction fan at the maximum level in order to clean the brazier and expel soot. If the stove is switched off, mechanical brazier cleaning is also activated.

### 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.

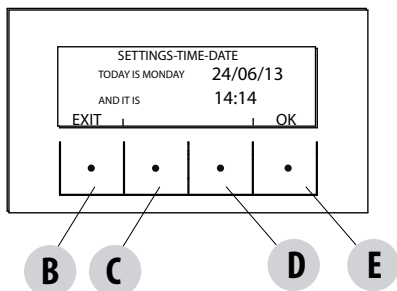
The available languages are: Italian/English/French/German/Spanish/Dutch/Danish



### DATE-TIME

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 and press the “E” key to confirm.



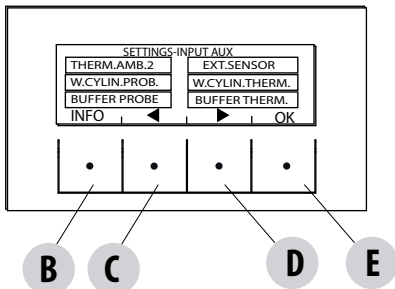
## 16-SETTINGS MENU

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

The auxiliary input allows choosing 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**

- **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. Contact closing the terminal kicks off the heat request.

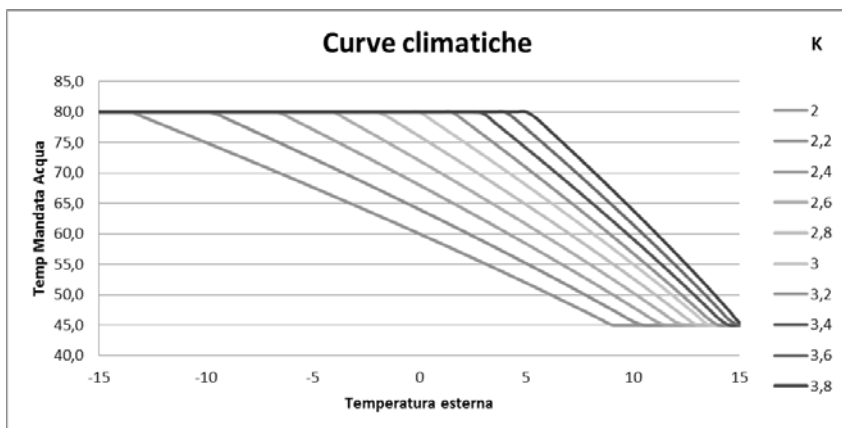
Notes: Installation of this thermostat is optional, the stove can also operate without it. Since the contact is N.O., the room probe is the only heat request command.

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

## 16-SETTINGS MENU

- **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 the 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 of + 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.

- **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 boiler thermostat closes the contact.

- **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.

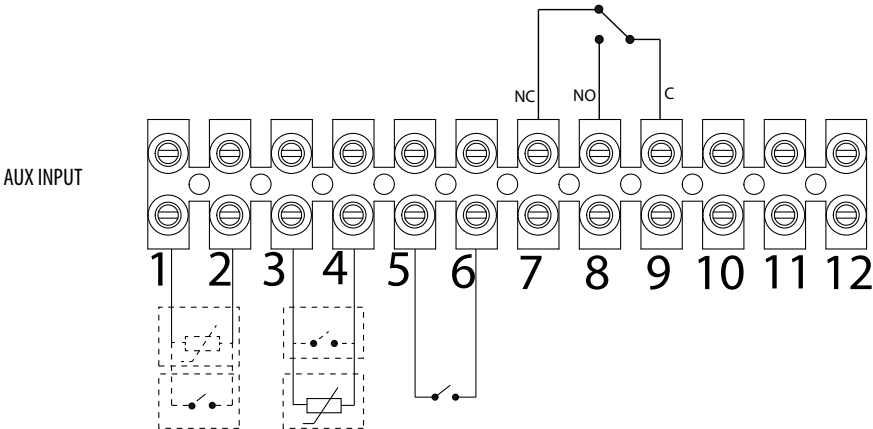
The heat request occurs when the boiler probe reads a temperature that is 2°C below the one set by the accumulation temperature marked by a radiator in the temperature menu.

During the installation with 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.

16-SETTINGS MENU

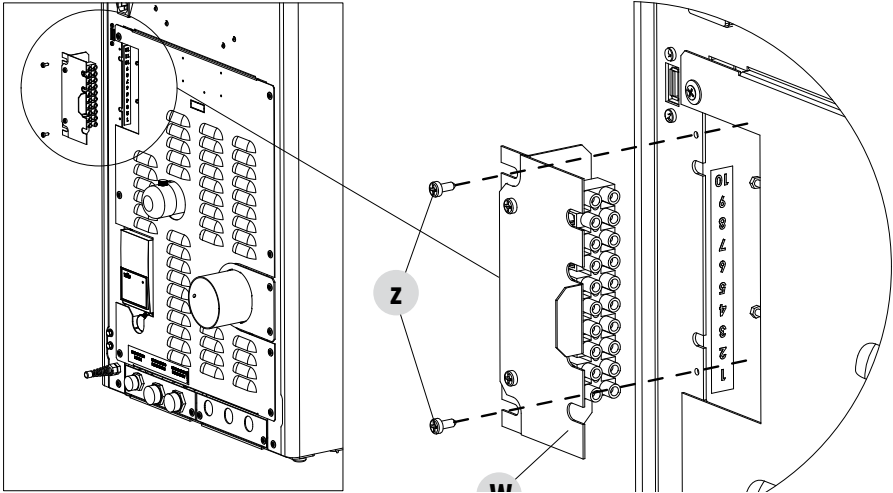
• Puffer thermostat

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/<br>BOILER/PUFFER BOILER PROBE/PUFFER | POS.10 - HEATING | 3-WAY VALVE |
| POS.3-4 ROOM INPUT: ROOM PROBE                                                         | POS.11 - COM     |             |
| POS.5-6 HOME AUTOMATION                                                                | POS.12 - DHW     |             |
| POS.7-8-9 AUX OUTPUT RELAY                                                             |                  |             |

To access terminal block "W", remove the cap as reported in part 1 of the manual (in the paragraph devoted to the removal of the back panel). Then loosen the two screws "z" and take out terminal block "W". Perform the necessary connections and place everything back.



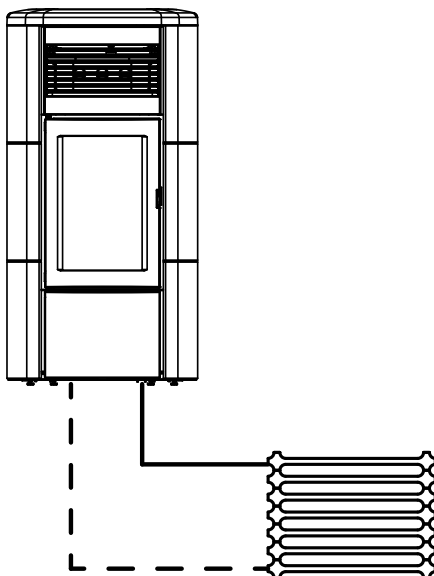
## 16-SETTINGS MENU

### HYDRO AIR STOVE PRINCIPLE DIAGRAMS

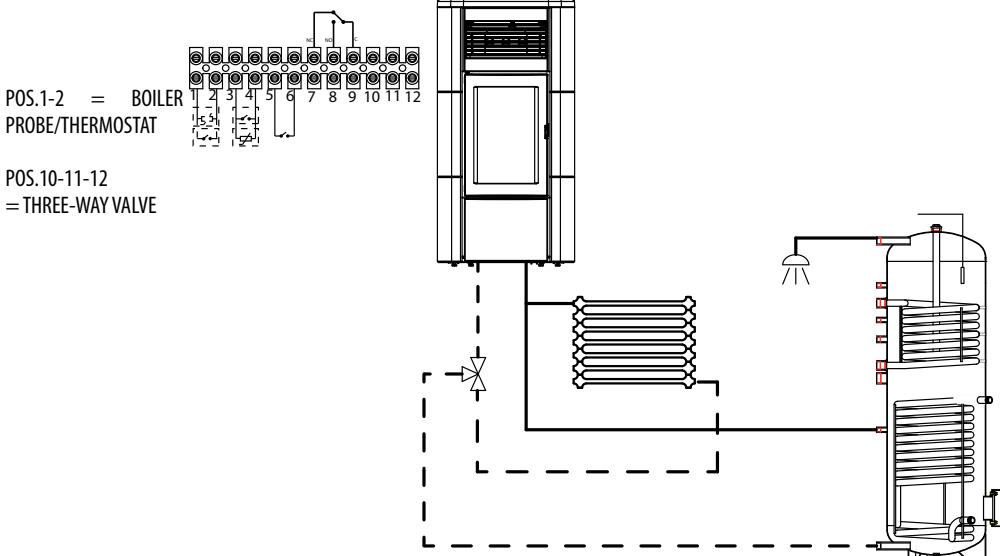


*The following diagrams are to be used only as a guideline. For proper connection, always follow the notes for the plumbing and heating installer. The plumbing system must meet local, regional or national requirements. Installation and verification of operation is to be performed only by specialized,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

#### HEATING ONLY CONFIGURATION

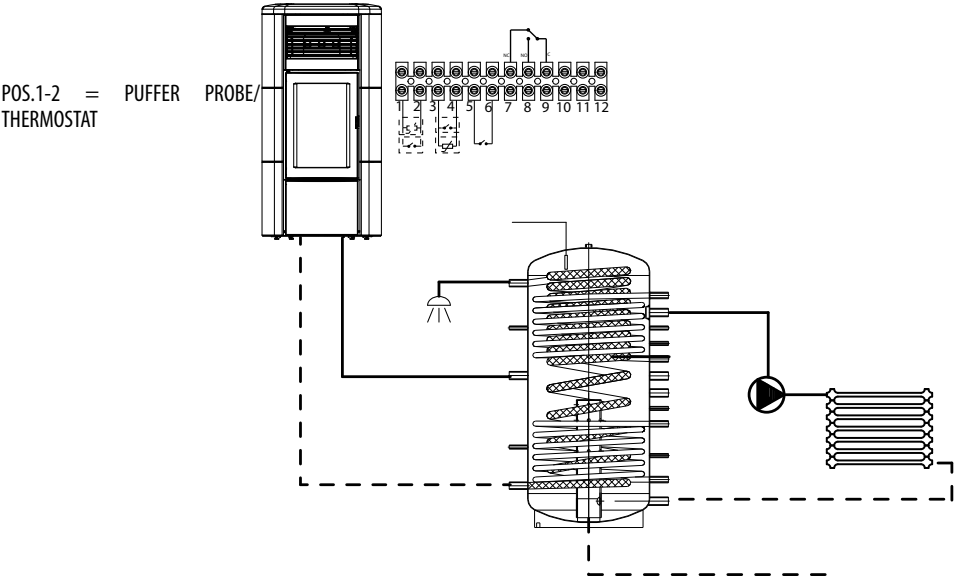


#### BOILER CONFIGURATION



# 16-SETTINGS MENU

## HYDRO STOVE WITH PUFFER CONFIGURATION

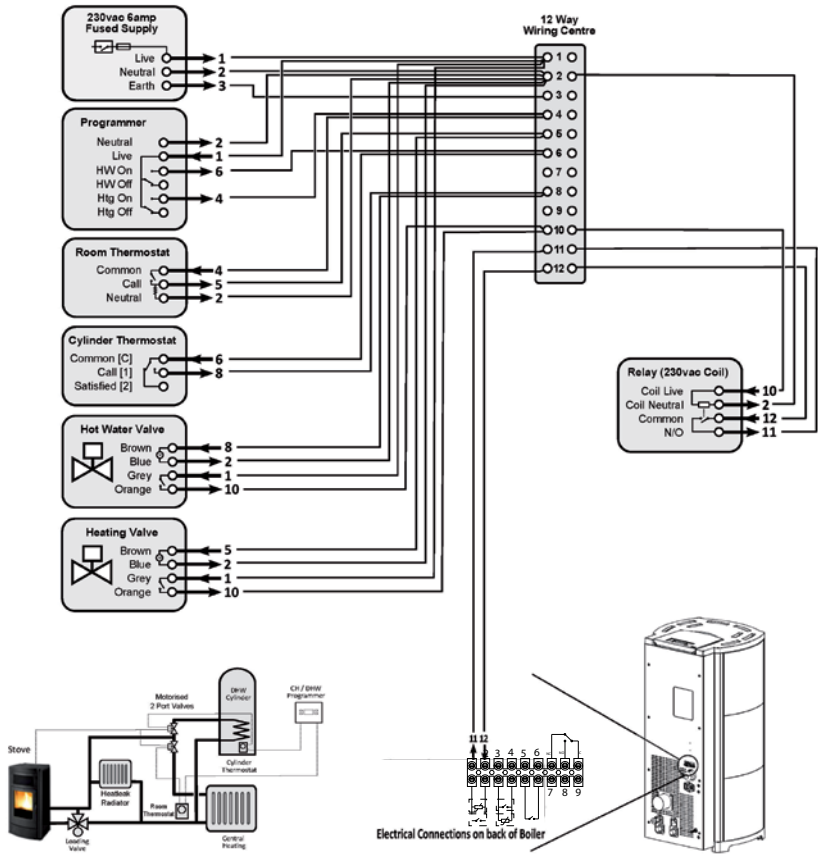


ONLY FOR UK

MCZ Hydro Stoves (Active System)  
SUITE/CLUB/MUSA

Wiring for S-Plan Systems

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



Simplified Schematic of S-Plan System

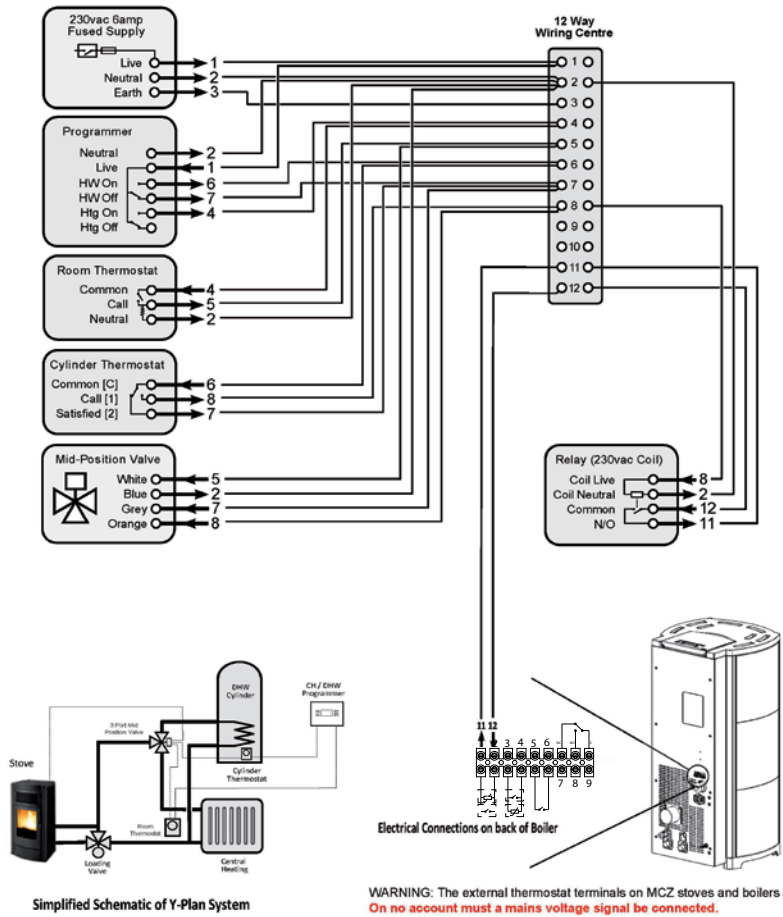
**WARNING:** The external thermostat terminals on MCZ stoves and boilers are volt-free.  
**On no account must a mains voltage signal be connected.**

ONLY FOR UK

MCZ Hydro Stoves (Active System)  
SUITE/CLUB/MUSA

Wiring for Y-Plan Systems

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



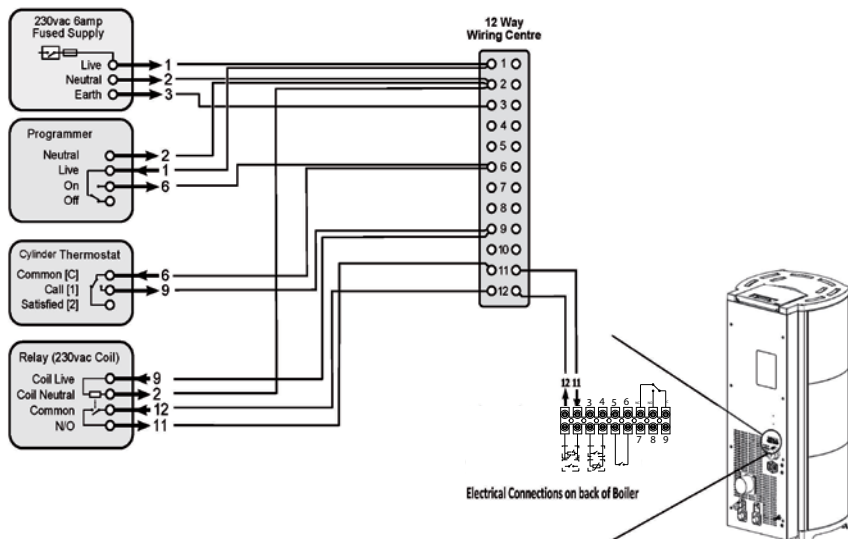
## ONLY FOR UK

### MCZ Hydro Stoves (Active System) SUITE/CLUB/MUSA

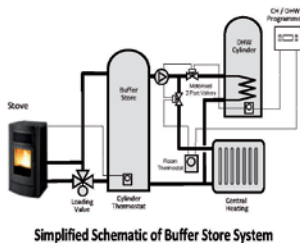
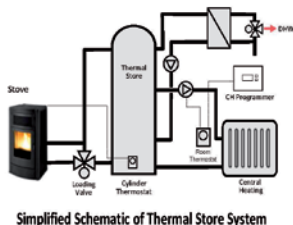
Wiring for Thermal Store or Buffer Systems where time control is by use of external programmer.

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.



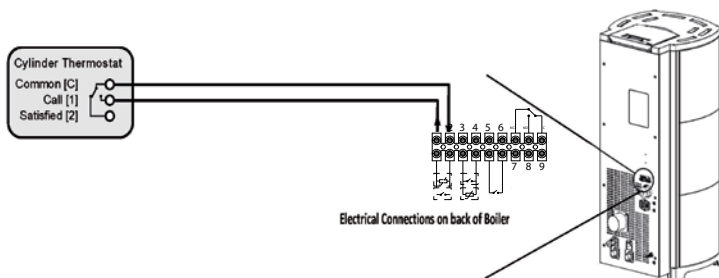
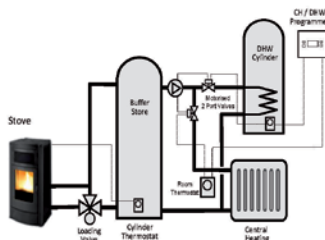
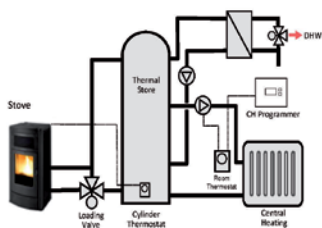
## ONLY FOR UK

### MCZ Hydro Stoves (Active System) SUITE/CLUB/MUSA

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

**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.

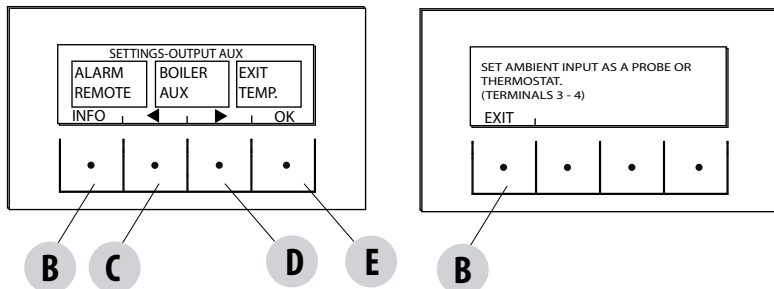
These notes must be read in conjunction with the full installation instructions



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

## 16-SETTINGS MENU

### 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:

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

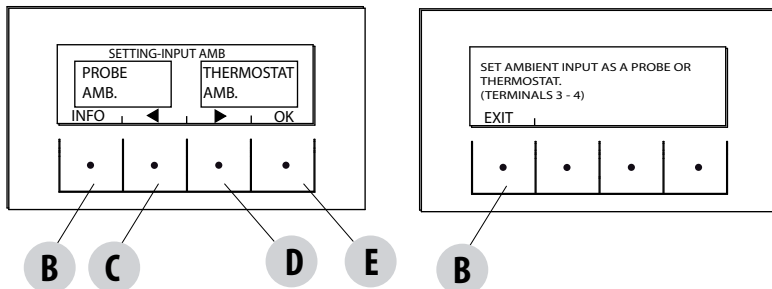
To enter the function press:

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 0 "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)

## 16-SETTINGS MENU

### ROOM INPUT



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.

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:

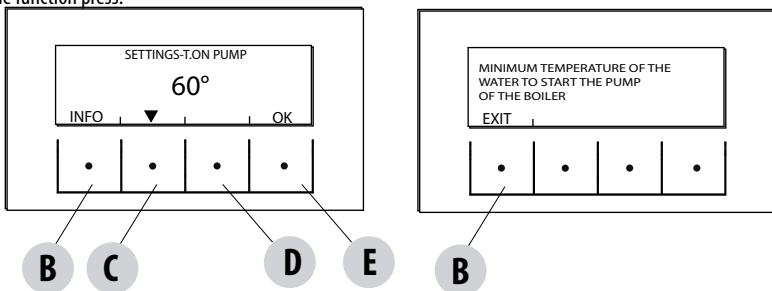
from the settings menu - press ok (E key), press the D key (arrow) and scroll up to Room Input, press OK (E key) and select room thermostat, press E key to confirm.

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.

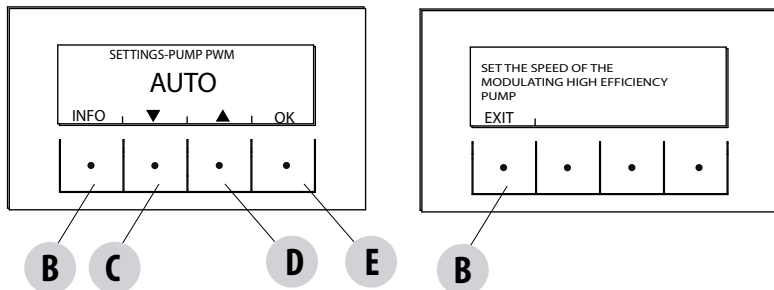
## 16-SETTINGS MENU

### PWM PUMP

This function is used to set the maximum speed for the high efficiency pump.

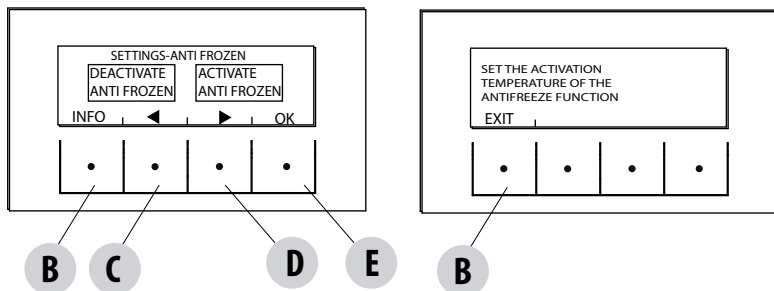
To enter the function press:

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 of 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

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.

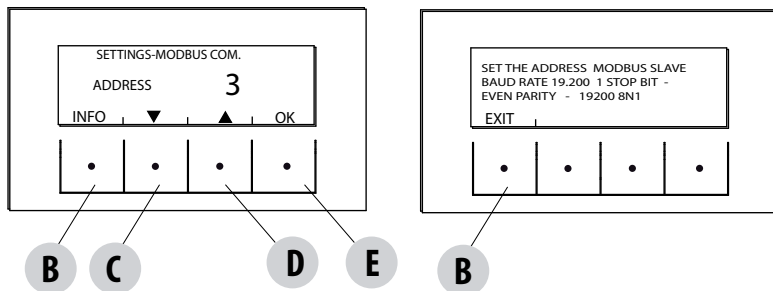
## 16-SETTINGS MENU

### MODBUS COM.

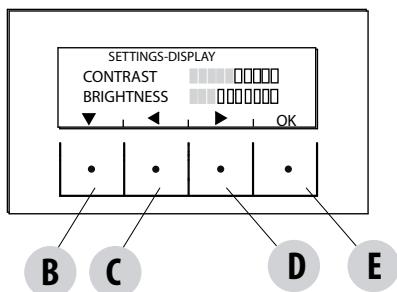
Is a communication system that makes it possible for the stove to receive commands from a Smartphone/tablet through a Web/Wi-fi interface.

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:

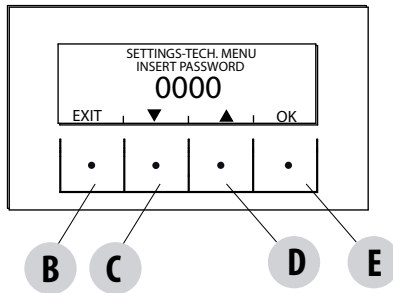
from the Settings menu- press ok (E key), press the C-D key (arrow) and scroll up to Display, press OK (E key)- Modify the settings using the B - C - D keys and press the E key to confirm.

## 17-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 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 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
- RESET HOURS
- AUTO STOP

## 18-SAFETY DEVICES AND ALARMS

### SAFETY DEVICES

The product is fitted with the following safety devices

#### ACTIVE +

Besides adjusting the stove operation, it also guarantees that the pellet loading auger is blocked if unloading 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 circuit boards are located 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.

## 18-SAFETY DEVICES AND ALARMS



### **TAMPERING WITH THE SAFETY DEVICES IS PROHIBITED**

*If the stove is NOT used as described in this instruction booklet, the manufacturer refuses to accept any 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:*

- *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.*



*Only after eliminating the cause of the intervention of the safety system is it possible to re-ignite the stove and thus restore its automatic operation. This manual will help you understand which anomaly has occurred, and explain how to intervene according to the alarm message displayed on the stove.*

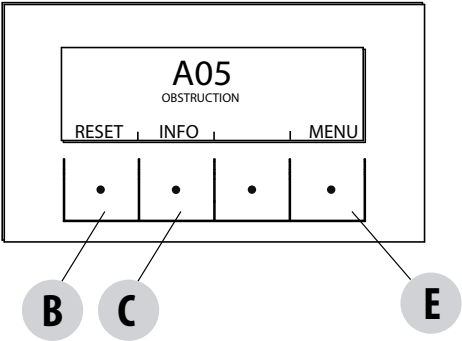
# 18-SAFETY DEVICES AND ALARMS

## 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                                                                                                                                                                                                                                        |
|---------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A01</b><br>NO IGNITION | The fire does not ignite.<br>(without acoustic alarm)     | Check the level of pellets in the tank.<br>Check that the brazier rests correctly in its seat and has no visible deposits or unburnt pellets.<br>Check whether the ignition plug becomes hot.<br>Empty and clean the brazier before relighting. |
| <b>A02</b><br>NO FLAME    | The fire goes out abnormally.<br>(without acoustic alarm) | Check the level of pellets in the tank.<br>Check that the brazier rests correctly in its seat and has no visible deposits of unburned pellets.                                                                                                  |
| <b>A03</b><br>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.                                                                               |
| <b>A04</b><br>FUME TEMP   | Fume 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.                                                                               |
| <b>A05</b><br>OBSTRUCTION | Chimney flue clogged                                      | Verify brazier clogging, smoke duct, lower compartment and door closing. If the alarm persists, contact the service centre.                                                                                                                     |

## 18-SAFETY DEVICES AND ALARMS

| WRITTEN ON THE DISPLAY                | TYPE OF PROBLEM               | SOLUTION                                                                                                                                                                                                                                                                |
|---------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A08</b><br>FLUE GAS FAN            | Faulty smoke fan.             | Check that the lower compartment is clean (see dedicated stove cleaning pages) and verify that it is not obstructed, is clean and cancel the alarm. If the alarm persists, contact the service centre.                                                                  |
| <b>A09</b><br>SMOKE TEMPERATURE PROBE | Smoke sensor fault.           | Contact an authorised service centre to have the component replaced and, if needed, replace the component.                                                                                                                                                              |
| <b>A11</b><br>GEAR REDUCER            | Auger gear reducer fault.     | The component is not working regularly. Contact an authorised service centre to have the component replaced and, if needed, replace the component.                                                                                                                      |
| <b>A13</b><br>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. .                                                                                                     |
| <b>A14</b><br>ACTIVE SENSOR           | Active sensor anomaly         | Active Plus sensor operation anomaly. Contact an authorised service centre to have the component replaced and, if needed, replace the component.                                                                                                                        |
| <b>A18</b><br>WATER SIC               | Water thermostat intervention | Water temperature is too high or thermostat operational anomaly. If the alarm persists, contact the service centre.                                                                                                                                                     |
| <b>A19</b><br>WATER PROBE             | Fault with water sensor       | Possible fault in the safety component. Contact an authorised service centre to have the component replaced and, if needed, replace the component.                                                                                                                      |
| <b>A20</b><br>AUX PROBE               | Auxiliary probe fault         | Possible component fault.<br>Check that the probe inserted in the system respects the characteristics specified in the instructions (see external probe).<br>Contact an authorised service centre to have the component replaced and, if needed, replace the component. |

## 18-SAFETY DEVICES AND ALARMS

| WRITTEN ON THE DISPLAY | TYPE OF PROBLEM    | SOLUTION                                                                                                                                          |
|------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| A22                    | Brazier not closed | Possible obstruction in the brazier. Clean.<br>If the problem persists, contact a service centre.                                                 |
| A23                    | Room probe failure | Possible fault in the safety component. 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.***

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 resolve the problem, the alarm condition will occur once again with different timing based on the alarm type: in this case, contact technical assistance.

## 18-SAFETY DEVICES AND ALARMS

### SHUT DOWN

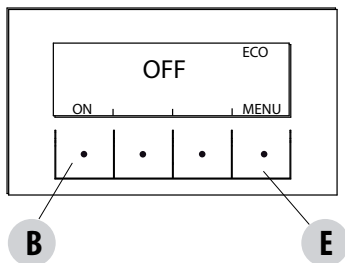
If the shut down key is pressed or one of the following conditions occurs:

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

the stove enters the shut down and thermal cooling phase that includes automatically executing 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 pellets are 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.

## 19-RECOMMENDATIONS FOR A SAFE USE

### RECOMMENDATIONS FOR A SAFE USE



**ONLY A SUITABLE INSTALLATION ACCORDING TO THE UK BUILDING REGULATIONS (ADJ) AND A PROPER MAINTAINANCE AND CLEANING OF THE PRODUCT CAN ASSURE YOU THE CORRECT FUNCTIONALITY AND A SAFE USE OF YOUR STOVE (ONLY FOR UK).**

We wish to notify you that we have been made aware of incidents involving domestic heating pellet stoves resulting from the stoves having been incorrectly installed or inadequately maintained. In some cases the incident provoked an explosion that caused the glass door on the stoves to shatter.

We would like to assure you that all of our products are very safe and are certified to the required European standards. The ignition system has been tested carefully to increase the lighting efficiency and avoid any trouble even in the worst working condition. Moreover our structures are also provided with a safety device studied to discharge the eventual overpressure in combustion chamber, and avoid any damage to the product and consequent risk for the final user. However, like any stove, our stoves need to be properly installed and maintained if they are to work safely.

Our studies suggest that these explosions are mainly caused by a combination of some or all of the following factors:

- Clogged brazier holes or a deformed brazier, resulting from insufficient maintenance, creating the conditions for a delayed ignition causing a build up of unburnt gases
- Insufficient combustion air due to the stove not having a big enough air inlet or not having an air inlet at all
- The use of smoke connections or flue pipe assembly which don't comply with UK regulations and which don't create the draught required to effectively suck the smoke outside (e.g. too many bends in the flue).
- Partially blocked flue pipes, which indicates poor maintenance, reducing the draw on the chimney making ignition difficult.
- The chimney terminal not complying with our installation instructions and failing to prevent potentially dangerous down-draught. This component becomes essential when the stove is installed in windy areas like coastal zones.

Any of the above factors or any combination of them could generate unburnt gasses which in the worst cases could explosively ignite when there becomes enough oxygen present.

To avoid this rare but not impossible inconvenient, first of all the installation shall be done in compliance with UK building regulations and the suggestions described in this manual.

Furthermore it's absolutely important to respect the following simple rules:

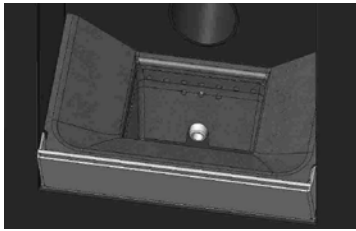
- The brazier shall be always layed down in its proper position before any use of the product, removing completely the dirt if present in the base plate
- Pellets must not be fed manually into the brazier, both before ignition and during the working condition.
- Eventual accumulated unburnt pellets in the burner after a failed ignitions must be removed before lighting
- If a failed ignition affects the product repeatedly, despite a clean brazier and a usual fuel loading, we recommend that you immediately stop using the stove and contact a qualified technician to check the stove functionality.

The respect of these suggestions is absolutely enough to guarantee a safe ignition and to avoid any inconvenient to the product.

If the above precautions are not fulfilled, and the ignition shows an abnormal amount of pellet in the brazier and a consequent heavy generation of unburned gas in the combustion chamber, respect carefully the following suggestions:

- Do not switch off the electrical power from the stove for any reason: this would arrest the gas exhaust blower with a consequent spread of smoke into the room.
- Precautionally open the windows to ventilate the installation room from eventual smoke outlet in ambient (the flue gas outlet could work not properly).
- Do not open the fire door: this would affect the regular smoke evacuation from the chimney.
- Simply switch off the stove by pressing the on/off button in the control panel (not the rear button of power supply!), and wait till the smoke has been evacuated completely.
- Before any re-lighting attempt, clean completely the brazier and its air passages from any dirt and unburned pellet; put it in the proper position removing the dirt eventually present in the base plate. If a repeated failed ignition happens, stop using the stove and contact a qualified technician to check the stove and chimney functionality

## 20-CLEANING AND MAINTENANCE



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.*

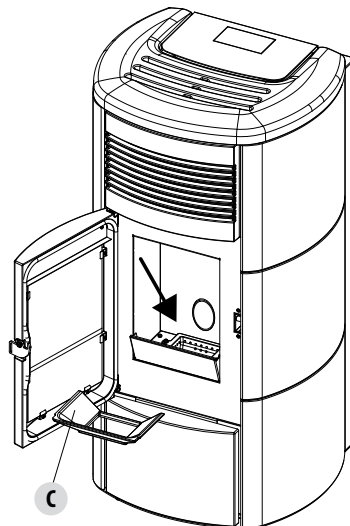
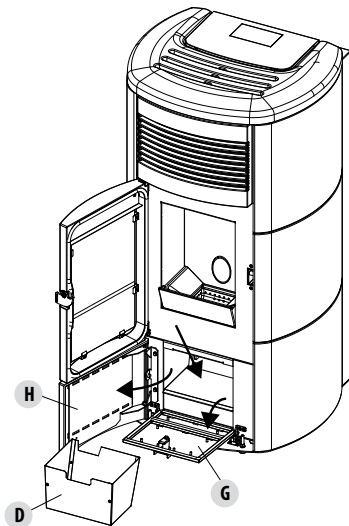
### DAILY OR WEEKLY CLEANING PERFORMED BY THE USER

#### Ash pan cleaning

Press door "H" at the bottom right and open it. Turn the handle of door "G" to the right and open it by moving it downwards.

Remove and empty ash pan "D". Wipe away any residual ash before reinserting the pan. Your experience and the quality of the pellets will determine the ash pan cleaning frequency. However, it is recommended not to exceed 2 or 3 days.

When cleaning the ash pan, we recommend removing piece "C" near the brazier and use the nozzle of the vacuum cleaner to remove any ash deposits.



### 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).**

## 20-CLEANING AND MAINTENANCE

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

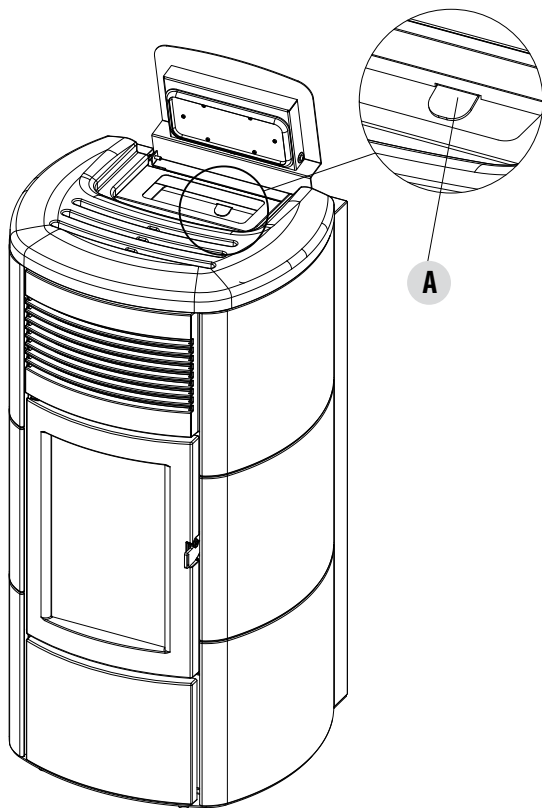
Cleaning the exchanger and the compartment beneath the brazier is a simple operation but very important if the boiler is to maintain optimal performance.

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" key 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 5-6 times. This will remove any soot that has deposited on 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 (pic. on next page)**
- The stove is equipped with a removable ash drawer "D" which collects any accumulations of soot and ash.
- Once cleaning is finished, reposition the top and the ash tray "D".



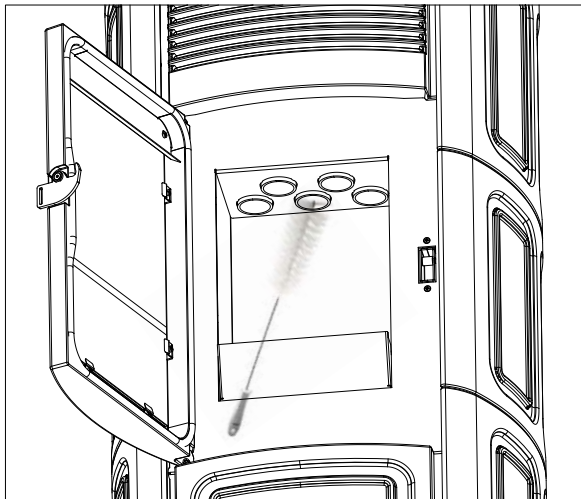
*If such cleaning is not done every 2-3 days the stove could go into alarm caused by ash clogging after several hours of operation.*



## 20-CLEANING AND MAINTENANCE

### CLEANING THE PIPE UNITS

For better performance of the boiler, the pipes inside the combustion chamber should be cleaned once a month. Open the firebox door and use the brush provided to clean the 5 pipes positioned at the top inside the combustion chamber. Brush the pipes several times so that the ash deposited inside them falls to the bottom around the brazier. Use a vacuum cleaner to remove all fallen material.



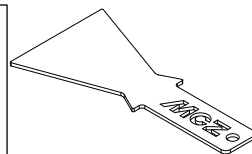
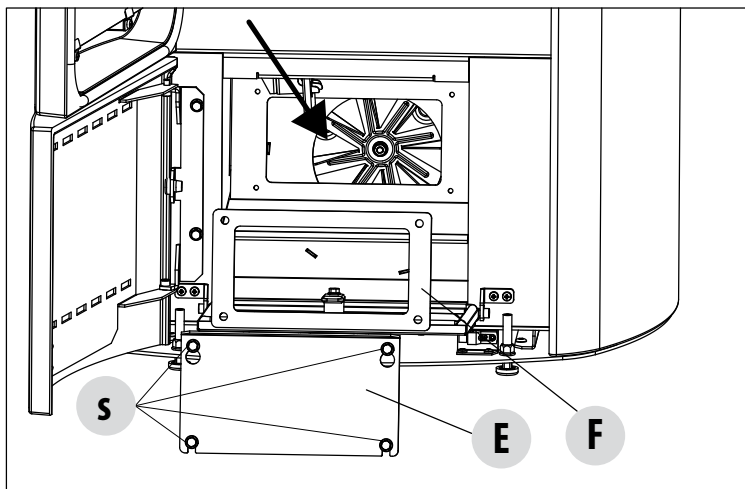
### CLEANING THE SMOKE EXTRACTOR COMPARTMENT

In the area behind ash pan "D", there is the smoke cap "E", which must be removed to clean the smoke extractor. Therefore:

- loosen the screws "S"
- remove smoke cap "E"

Now, using the nozzle of a vacuum cleaner, remove any ash and soot that may have built up in the lower exchanger indicated by the arrow. Before putting the cap "E" back, it is recommended to change gasket "F"

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



SCRAPER

CLEANING THE LOWER COM-  
PARTMENT

## 20-CLEANING AND MAINTENANCE

### CLEANING THE SMOKE EXHAUST SYSTEM AND GENERAL CHECKS

**Clean the smoke extractor system, especially around the "T" joints, 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 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 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.*

### 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 pellet from the tank because it can retain humidity. Disconnect any combustion air ducting that can lead humidity 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 CAT) during the necessary annual end of season scheduled maintenance operations. In 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 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).

## 20-CLEANING AND MAINTENANCE

### REPLACEMENT OF OVERPRESSURE SILICON DAMPER FOR COMBUSTION CHAMBER

The overpressures silicon damper "G" for combustion chamber (fig. A) shall be replaced with a new one yearly (during the periodical maintenance) in order to keep the overpressure safety system efficient.

For replacement use the following instructions

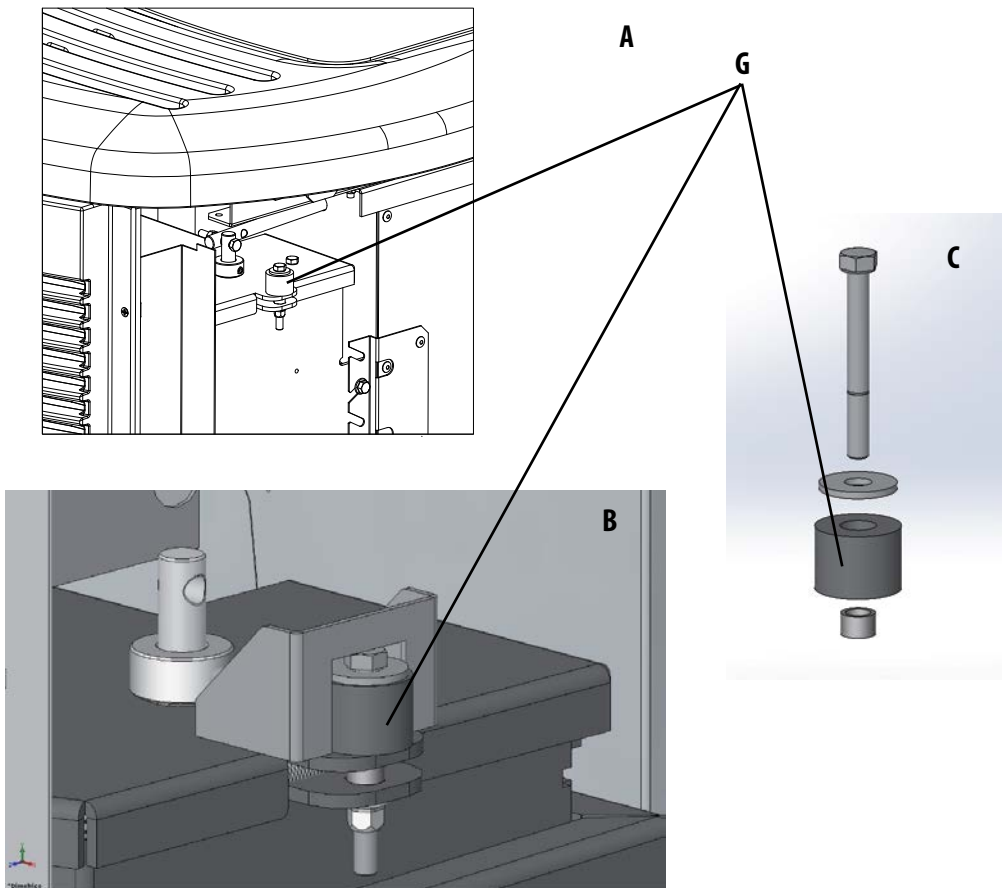
- remove the top
- remove the first lateral ceramic covering / metal covering (in accordance with the model)
- unscrew the screw-washer-damper-spacer shown in fig. A/C (operate same way on both sides)

Install the new kit as follows:

- Prepare the screw-washer-damper-spacer aligned as shown in fig.C and screw them in the structure.
- screw it completely

Check now the proper compression of dampers, using the gauge included in the kit:

- lay the gauge on the lid (fig.B); the gauge has to lay completely, while the head of the screw has to be in contact with the gauge. If it's not the case, register the screw accordingly.



## 20-CLEANING AND MAINTENANCE

### 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 internal components. The following is a summary of the checks and/or maintenance that are essential for the correct operation of the product.

| PARTS/INTERVAL                                     | 2-3 DAYS | 7 DAYS | 30 DAYS | 60-90 DAYS | EVERY SEASON |
|----------------------------------------------------|----------|--------|---------|------------|--------------|
| 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                      |          |        |         |            | •            |
| Overpressure silicon damper for combustion chamber |          |        |         |            | •            |

\* WITH POOR QUALITY PELLETS CLEANING FREQUENCY MUST BE INCREASED

### 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, 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.

## 21-FAULTS/CAUSES/SOLUTIONS



### CAUTION:

*All repairs must be carried out exclusively by a specialised technician, with the stove completely cold and the electric plug pulled out.*

| 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.                                                                      |

## 21-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                                                                                                                                                                                                                                                                          |

## 21-FAULTS/CAUSES/SOLUTIONS

### ANOMALIES RELATED TO THE HYDRAULIC CIRCUIT

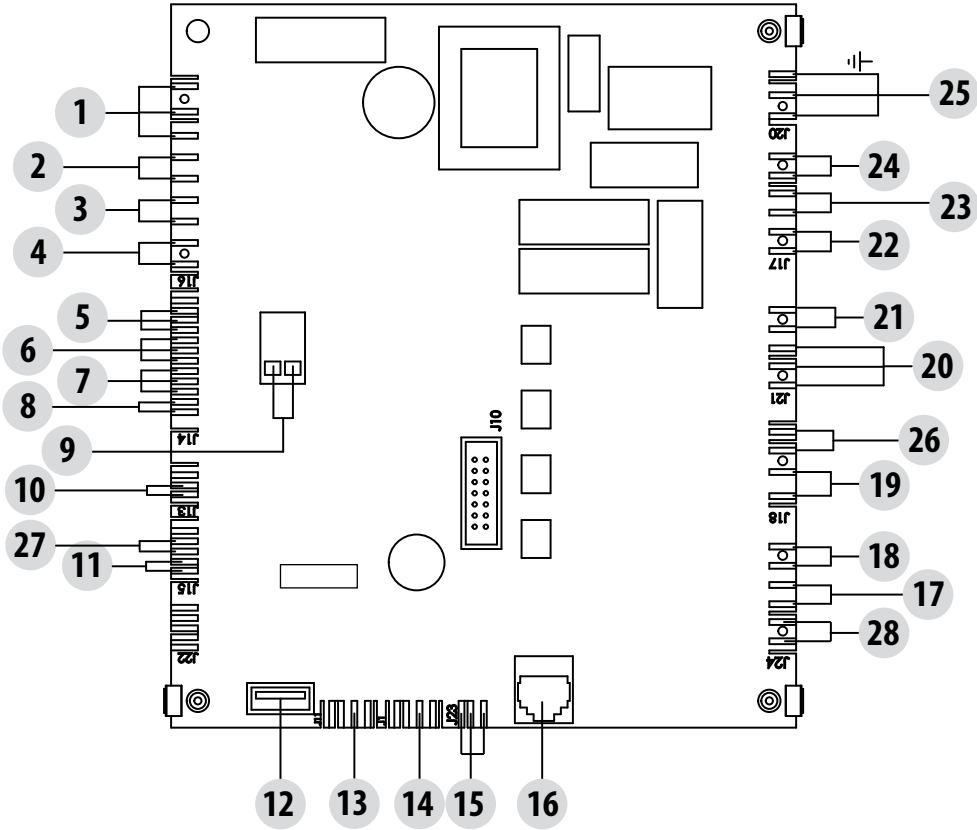
| ANOMALY                                            | POSSIBLE CAUSES                                                                                | SOLUTIONS                                                                            |
|----------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 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                                                                            | Use 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 run                                                                        | 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)                                                           |
| Noises and gurgling                                | Air in the system                                                                              | Release the air and fill the system                                                  |



***If the stove is NOT used as described in this instruction booklet, the manufacturer refuses to accept any 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.***

# 22-CIRCUIT BOARD



## MOTHERBOARD WIRING KEY

- |                                    |                                        |
|------------------------------------|----------------------------------------|
| 1. AUX RELAY (C-NO-NC)             | 15. PWM PUMP CONTROL                   |
| 2. HOME AUTOMATION CONTACT         | 16. CONTROL PANEL                      |
| 3. ROOM PROBE                      | 17. WATER TEMPERATURE OVERLOAD CUT-OUT |
| 4. AUX INPUT                       | 18. HOPPER OVERLOAD CUT-OUT            |
| 5. SMOKE FAN ENCODER               | 19. AIR FAN                            |
| 6. GEAR MOTOR ENCODER              | 20. 3-WAY VALVE                        |
| 7. PRESSURE TRANSDUCER             | 21. PUMP/CLEANING POWER SUPPLY         |
| 8. WATER PROBE                     | 22. GEAR MOTOR                         |
| 9. SMOKE TEMPERATURE PROBE         | 23. SMOKE FAN                          |
| 10. PELLET LEVEL SENSOR (OPTIONAL) | 24. SPARK PLUG                         |
| 11. DHW FLOW SWITCH                | 25. SWITCH                             |
| 12. SOFTWARE UPDATE                | 26. BRAZIER CLEANING                   |
| 13. EXPANSION                      | 27. BRAZIER CONTACT                    |
| 14. SERIAL COMMUNICATION           | 28. AIR AND WATER PRESSURE SWITCHES    |

**N.B.** The wiring of the individual components is fitted with pre-wired connectors of different sizes.





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