Centrometal
HEATING TECHNIQUE

Centrometal d.o.o. - Glavna 12, 40306 Macinec, Croatia, tel: +385 40 372 600, fax: +385 40 372 611

TECHNICAL INSTRUCTIONS

CE

for **regulation**, use and maintenance
of pellet stove

CentroPelet ZS10

TUZS10ENG-4-2014-HR

Dear Client,

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We thank you for having chosen one of our products, the fruit of technological experience and of continual research for a superior quality product in terms of safety, dependability, and service.
In this manual you will find all the information and useful suggestions to use your product with the maximum safety and efficiency.

Please remember that the first lighting of the stove must be handled by our Authorized Assistance Centre (Law 37/2008) who will check the installation and complete the guarantee.

- Incorrect installation, incorrectly performed maintenance, improper use of the product **release the manufacturer from every eventual damage** derived from the use of the stove.
- The unit **cannot be used as an incinerator. Do not use fuels other than pellets.**
- This manual has been realized by the manufacturer and constitutes **an integral part of the product** and must remain with it during its entire lifetime. If the product is sold or transferred, **be sure that the booklet is present since the information contained in it are addressed to the buyer**, and to all those persons of various titles who complete the installation, use and maintenance.
- **Carefully read the instructions and the technical information** contained in this manual, before proceeding with the installation, use, and any operation on the product.
- The observance of the indications contained in the present manual **guarantees the safety of people and the product, the economy of use and a longer functioning lifetime.**
- Although the carefully studied design and the risk analysis done by our company has permitted the realization of a safe product, in any case, before effecting any operation on the stove, it is recommended to keep said manual available and **pay scrupulous attention to the instructions written therein.**
- **Be very careful when moving the ceramic details** where present.
- Check the precise flatness of the pavement where the product will be installed
- **The wall where the product will be placed must not be constructed in wood,** or in any case, made of an inflammable material, and in addition it is necessary to maintain a safety distance.
- While the stove is in operation, several **parts of the stove (door, handle, sides) can reach high temperatures.** Therefore pay attention and use the proper precautions, above all in the presence of children, elderly or disabled persons, and animals.
- Assembly must be performed by authorized persons (Authorized Assistance Centre).
- Diagrams and drawings are furnished for the purpose of illustration; the manufacturer, with the intent of pursuing a policy of constant development and renewal of the product **can, without any notice, make any modifications that are believed opportune.**
- When the stove is working at its maximum speed, it is strongly suggested to **wear gloves while handling** with the door for pellets loading and the door handle.
- **Installation is not recommended in a bedroom.**

Never cover the body of the stove in any way or obstruct the openings placed on the upper side when the device is operating. All our stoves are trial lighted on the construction line.

In the event of a fire, disconnect the power supply, use an extinguisher and call the fire fighters if necessary. After that contact the Authorised Assistance Centre.

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1.0 Norms and declarations of conformity

Our company declares that the stove conforms to the following norms for the EC European Directive labelling:
- 89/336 CE and 2004/CE (EMC regulation) and following amendments;
- 2006/95 CE (low tension regulation) and following amendments;
- 2006/42 EC (machinery directive);
- 89/106 CE (building materials);
- For installations in Italy, please refer to UNI 10683/98 or following changes. For the water-thermo-sanitary equipment, let the installer give you the conformity declaration in compliance with L. 37/2008. While installing the unit respect the local, national and Europena rules;
- EN 60335-1; EN 50165; EN 50366; EN 55014-1; EN 61000-3-2; EN 61000-3-3; EN 14785.

1.1 Safety Information

Please carefully read this use and maintenance manual before installing and operating the stove!
If clarification is needed, please contact the dealer or the Authorized Assistance Centre.
- The pellet stove must only be operated in living environments. This stove, being controlled by an electronic board, permits a completely automatic and controlled combustion; the exchange, in fact, regulates the lighting phase, 5 power levels and the shut down stage, guaranteeing the safe operation of the stove.
- The basket used for combustion allows most of the ash produced by the combustion of the pellets to fall into the collection compartment. Nevertheless, check the basket daily, given that not all pellets have high quality standards (use only quality pellets recommended by the manufacturer).
- The glass is equipped with a special circulation of air for self-cleaning, but still, it is not possible, after several hours of operation, to keep a light grey patina from forming on the glass. This also depends on the type of pellets used. Some pellets deposit more ash than others.

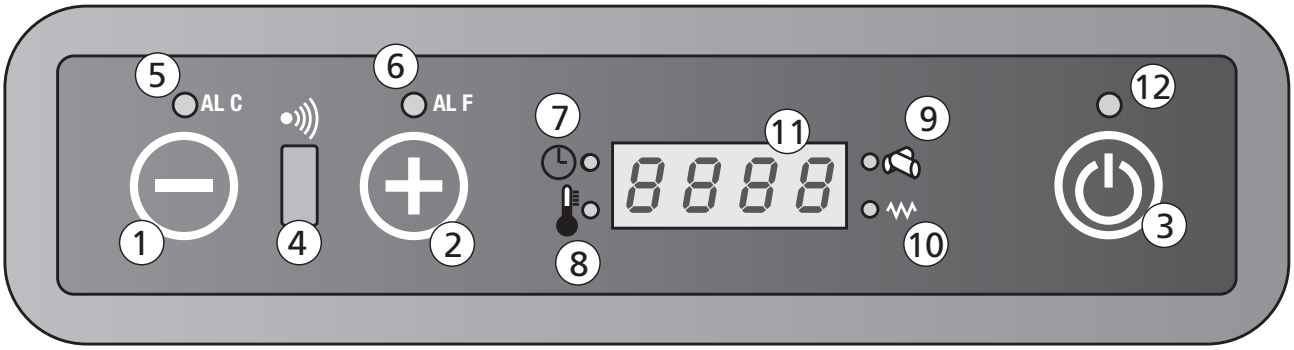
1.2 Responsibility

With the delivery of the present manual, we decline all responsibility, both civil and penal, for accidents deriving from the partial or total lack of observance of the instructions contained herein.
We decline every responsibility derived from improper use of the stove, from incorrect use by the user, from unauthorized modifications and/or repairs, from the use of replacement parts that are not original for this model.
The manufacturer declines every civil or penal, direct or indirect responsibility due to:
- Lack of maintenance;
- Failure to observe the instructions contained in the manual;
- Use in non-conformity with the safety directives;
- Installation in non-conformity with the norms in force in the country;
- Installation by unqualified or untrained personnel;
- Modifications and repairs not authorized by the manufacturer;
- Use of non-original replacement parts;
- Exceptional events.

- ***The stove must only be fed with quality 6mm diameter pellets of the type recommended by the manufacturer;***
- ***Before making the electrical connection of the stove the discharge tubes must be connected with the flue;***
- ***The protective grill placed inside the pellet container must never be removed;***
- ***The environment where the stove is installed must have a sufficient exchange of air;***
- ***Never open the door of the stove while it is operating;***

- ***When the stove is operating, the surfaces, glass, handle and tubes become very hot: during operation do not touch these parts without adequate protection;***
- ***Keep/store the pellets in a cool dry place;***
- ***Keep the fuel and other inflammable materials off the stove.***

2.0 Control board



Display

1. Temperature or power decrease
2. Temperature or power increase
3. Key On/Off
4. Receiver
5. Led alarm ALC
6. Led alarm ALF
7. Led chrono-thermostat
8. Led temperature ok
9. Led pellets loading
10. Led resistance
11. Display LED 7 segments
12. Led On/Off

2.1 Display keys and functions

1. Temperature / working power decrease
Using the key on the menu Set temperature, you can decrease the temperature from a max. value of 40°C to a min. value of 7°C. With the key on the menu Set power, you can decrease the working power from a max. value of 5 to a min. value of 1.

2. Temperature / working power increase
Using the key on the menu Set temperature, you can increase the temperature from a min. value of 7°C to a max. value of 40°C. With the key on the menu Set power, you can increase the working power from a min. value of 1 to a max. value of 5.

3. Key On/Off
Keep the key pressed for 2 seconds to switch the stove on or off.

4. Receiver
Sensor receiving the settings of the remote control.

5. Led AL C
The led blinks in the event of a malfunction or alarm.

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6. Led AL F
The led blinks in the event of a malfunction or alarm.

7. Led chrono-thermostat
This means the automatic single or daily programming of the switching on or off of the stove is on. The automatic programming can be set only with the remote control (optional).

8. Led temperature ok
This is on when the stove reaches the set temperature. In this case you will read the word "Eco" and the set temperature on the display.

9. Led pellets loading
This led blinks every time the stove is loading pellets.

10. Led resistance
This led is on only while the stove is lighting up in order to indicate that the resistance is warming the air which will fire the pellets.

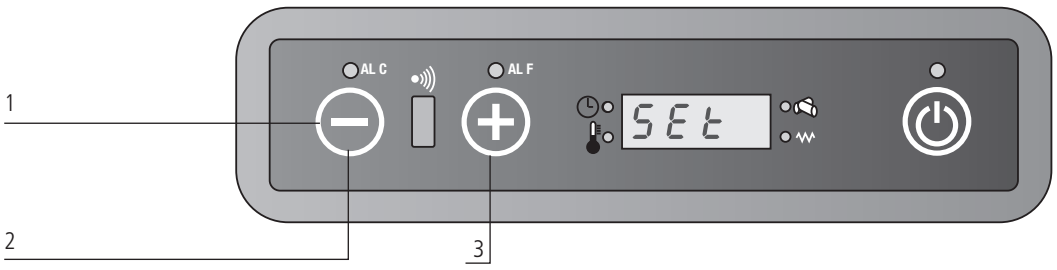
11. Display LED 7 segments
On the display you can read the different working functions of the stove, the room temperature and the set working power. In the event of a malfunction, the display shows the relative error codes (see paragraph on alarm codes).

12. Led On/Off
This led indicates the different phases of the stove:
- it is on if the stove is switched on and working
- it is off if the stove is switched off
- it blinks if the stove is switching off

2.2 Stove setting

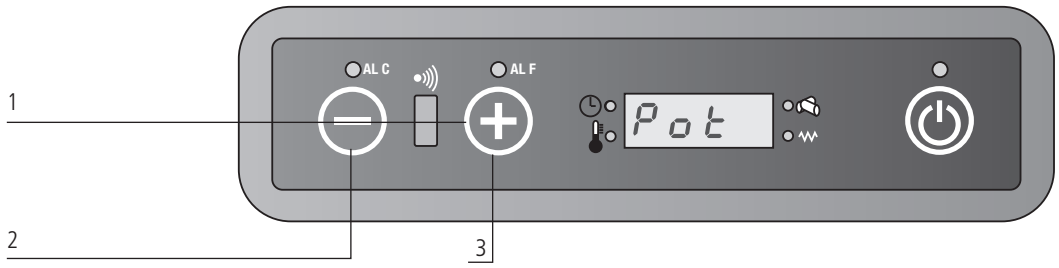
How to change the wished room temperature
Join the following procedure to change the wished temperature:

Press the key ⊖ (1) once to enter the menu and set temperature. You will read the word "Set" and the wished temperature on the display. Use the keys ⊖ (2) e ⊕ (3) to increase or reduce the wished value.
The stove will leave the menu Set temperature automatically as soon as you do not work on it for some seconds.



How to change the working power
Join the following procedure to change the working power:

Press the key ⊕ (1) once to enter the menu and set the working power. You will read the word "Pot" and the range of 5 possible powers on the display. Use the keys ⊖ (2) and ⊕ (3) to increase or reduce the wished value.
The stove will leave the menu Set working power automatically as soon as you do not use it for some seconds.



Please remember that the first lighting must be performed by our certified Authorized Assistance Centre (Law 37/2008) that verifies the installation and completes the guarantee. During the first lighting the environment should be well ventilated since during the first hours of operation unpleasant odours could develop due to the physical stabilizing of the paint and from the grease in the tubyère wrapping.

2.3 Suggestions

- Do not continuously turn the stove on and off as this could provoke sparks that could shorten the life of the electrical components.
- Do not touch the stove with wet hands: the stove has electrical components that could produce sparks if handled incorrectly. Only authorized technicians can resolve possible problems.
- Do not remove any screws from the fire chamber without first lubricating them well.
- Never open the glass door of the pellet stove while the stove is in operation.
- Be sure that the brazier basket is positioned correctly.
- The flue system must be suitable for inspecion. If it cannot be removed, it must have some holes for inspection and cleaning.

2.4 How to load pellets in the tank

You can load pellets in the tank through the door on the upper part of the stove.
Join the following procedure to load pellets:

- Open the door on the upper part of the stove;
- Load the wished pellets quantity with caution (load enough pellets to grant a sufficient functioning of the stove);
- Close the door.

3.0 First Lighting of the Stove

3.1 Lighting the stove

- Fill the container 3/4 full with the pellets recommended by the manufacturer;
- Connect the stove to an electrical outlet with the cable that has been supplied;
- Press the lighting switch located on the back part of the stove;
- The upper display will read "OFF";
- Press the button ⏻ for 2 seconds. After a few moments the smoke extractor and the lighting resistor will start and the display will read "FAN acc"; The led resistence is switched on.
- After 1 minute the display will read "LOAD WOOD", the stove will load the pellets and continue lighting the resistor;
- Once the appropriate temperature has been reached the display will read "FIRE ON": this means that the stove has begun the last phase in lighting, at the end of which the stove will be completely operational; The led resistence is switched off.

- After several minutes of ventilation the display will read "ON 1-2-3-4-5" and the room temperature, according to the power that has been programmed;
- Once the programmed temperature is reached the display will read "ECO" and the room temperature;
- The temperature led lights when the programmed temperature is reached;

WARNING!
Before lighting a small amount of smoke may fill the combustion chamber.

3.2. Stove switching off

To switch off the stove, press the key ⏻ on the control board until you read "OFF" on the display. After the stove has been switched off, the fan continues working for a set time in order to grant a fast smokes exhaust from the combustion chamber.
If you have a model with remote control, you just need to switch the remote control off keeping the key ⏻ pressed for 2 seconds and confirming the selection pressing the key SEND.
During the switching off phase, you will read the word "Off" and the led above the key On/Off will continue blinking. If you try to switch the stove on during this phase, you will read the word "At:te" (Attention) on the display. This warns you that the stove is running a switching off phase. Wait until the phase is completed and the key On/Off stops blinking before starting up the stove again.

4.0. Remote control (optional) Keys and main functions

The remote control can be used to check the stove. The remote control offers some functions which are not available from the keyset, like the automatic programming of the switching on and off of the unit.

How to use the remote control:

1. Direct the remote control on the control board of the stove
2. Check there are no obstacles between the remote control and the receiver on the stove
3. Every function you set on the remote control must be confirmed pressing the key SEND. After selecting the wished function, an acoustic signal will confirm your choice.

LCD 2

On/Off

This function is used to switch the stove and the remote control on or off.
Keep the key pressed for at least two seconds to switch the system on or off. Then press the key SEND.

You can use the two keys to set the wished temperature between a min. value of 7°C and a max. value of 40°C.

Please join the following procedure to set the functioning mode:

- Automatic Functioning
- Power 1 (on1)
- Power 2 (on2)
- Power 3 (on3)
- Power 4 (on4)
- Power 5 (on5)

SEND

Use this key to transmit the selected information to the pcb.

ECONO

This key activates or deactivates the function ECONO. Keep the key pressed for at least two seconds to activate or deactivate this function.

TURBO

This key activates or deactivates the function TURBO. Keep the key pressed for at least two seconds to activate or deactivate this function.

CLOCK FUNCTION

Please join the following procedure to set the clock function on the remote control:

- press .
- You will see the symbol and the time blinking.
- use the keys to set hour and minutes.
- press again to confirm and SEND to transmit the function to the pcb.

ON1

Using this key you can set a single time schedule for the automatic switching on of the stove (program 1)

OFF1

Using this key you can set a single time schedule for the automatic switching off of the stove (program 1)

ON2

Using this key you can set a single time schedule for the automatic switching on of the stove (program 2)

OFF2

Using this key you can set a single time schedule for the automatic switching off of the stove (program 2)

AUTO

With this key you can decide to repeat the programmed switching on and off (program 1 and 2) every day. The key AUTO activates this function.

Keep the key pressed for at least two seconds to activate or deactivate this function.

CANCEL

Use the key CANCEL in the event you want to cancel some programmed switching on or off of the stove.

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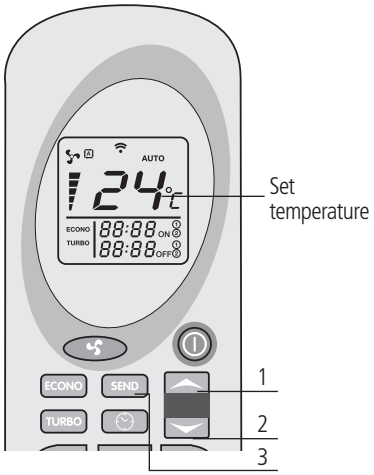
How to change the temperature

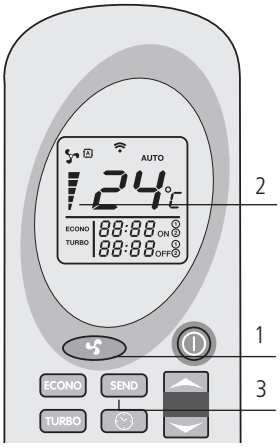
You can change the temperature using the keys (1) and (2). The temperature range goes from a min. value of 7°C to a max. value of 40°C. Once you have chosen the wished temperature, confirm your selection pressing the key SEND (3).



How to change the power

Use the key (1) to select the power of the stove. The marks (2) on the display of the remote control indicate the five possible powers. Press the key SEND (3) to confirm your selection. You will see the words on1-on2-on3-on4-on5 and the room temperature on the control board of the stove according to the selected power.

You can also select the automatic function. Please refer to the paragraph on the Automatic Power Function to understand how the stove works in this mode.

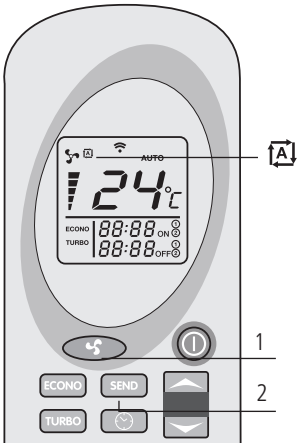


Automatic Power Function

To enter this function, press the key (1) until you see the symbol on the display. Press SEND (2) to transmit your selection. You will read the word "Auto" and the room temperature on the control board of the stove.

When you select this mode, the pcb will set the working power automatically according to the difference in degrees between the set temperature and the temperature idientified by the sensor on the back of the stove.

Press once more, select the wished power and press SEND to go back to the usual functioning.



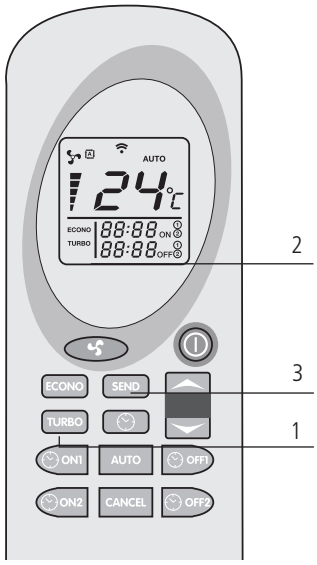
Function turbo

This function has been developed in the event you need to heat your room quickly, for example when you have just switched the stove on. When you choose this function, the stove will work at its max. power for a period of thirty minutes and the temperature will be automatically set at 30°C. After thirty minutes (or earlier if you give different selections from the remote control), the stove will restart working as it did before you activated the turbo function.

Keep the key TURBO (1) pressed for at least two seconds to activate this function. You will read the word "TURBO" (2) on the display of the remote control. Set temperature and working power will disappear. Press SEND (3) to transmit the selection to the pcb.

You will read the word "Turb" on the control board on the upper part of the stove. This word will appear together with the room temperature and working power set before activating the function TURBO.

If you want to deactivate this function before thirty minutes have passed, press the key TURBO (1) once again for at least two seconds. The word TURBO on the display of the remote control will disappear and you will see the set temperature and power again. Press the key SEND (3) to confirm your selection.



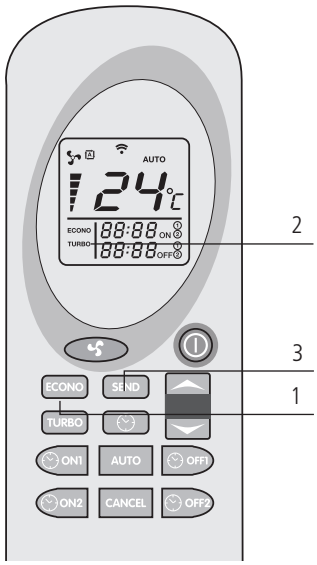
Function ECONO

The function ECONO has been developed to save money and it is used when you want to keep the temperature constant in the room. This function lets the stove decrease its working power every 10 minutes until it reaches the power 1.

Keep the key ECONO (1) pressed for at least two seconds to activate this function. You will read the word "ECONO" (2) on the display of the remote control. Set temperature and working power will disappear. Press SEND (3) to transmit the selection to the pcb.

You will read the word "Econ" on the control board on the upper part of the stove. This word will appear together with the room temperature and working power set before activating the function ECONO.

If you want to return to the standard function, press the key ECONO (1) once again for at least two seconds. The word ECONO on the display of the remote control will disappear and you will see the set temperature and power again. Press the key SEND (3) to confirm your selection.



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Function chrono-thermostat (available only through the remote control)

With the function chrono-thermostat, you can schedule up to two automatic switching on and off of the stove per day. If you want to repeat the switching on and off every day, then you need to use the function AUTO too (as explained in the paragraph "Daily repeat AUTO").

WARNING: the time of the automatic switching on and off must be set when the remote control is Off!

WARNING: in the event of an even very short lack of current, you will miss the set time for the automatic switching on or off. Once the power supply is back, please program the stove again using the remote control!

WARNING: the stove switching on at the scheduled time will keep the same temperature and power you set before you last switched it off.

WARNING: please consider an interval of min. 20 minutes between the switching off and subsequent switching on of the stove. In this way the unit will have time to arrange a complete cooling phase. In the event this minimal interval is not calculated, the stove will not switch on as scheduled.

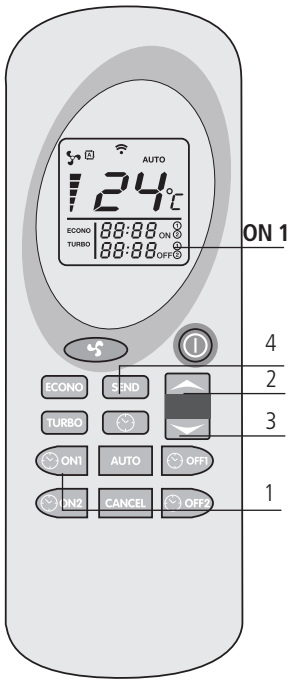
Program 1 (ON1 and OFF1)

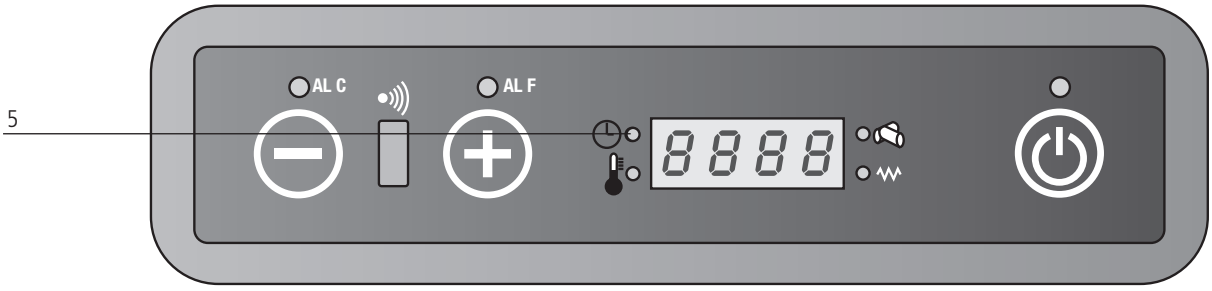
Automatic switching on ON1

Please join the following procedure to set the time for the automatic switching on according to the program 1:

Press the key ON1 1). You will see the hours and minutes and the symbol **ON1** blinking on the remote control. Use the keys (2) and (3) to change the wished time (intervals of 10 minutes). To scroll the time faster, keep the keys (2) and (3) pressed.
Confirm your selection pressing the key ON1 (1) once again. You will now read the set switching on time on the remote control. Press SEND (4) to transmit your selection to the pcb of the stove.

The LED chrono-thermostat will light up on the control board indicating that the programming is on (5).



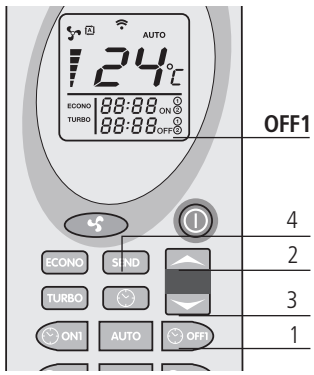


Automatic switching off OFF1

Press the key OFF1 (1). You will see the hours and minutes and the symbol **OFF1** blinking on the remote control. Use the keys (2) and (3) to change the wished time (intervals of 10 minutes). To scroll the time faster, keep the keys (2) and (3) pressed.

Confirm your selection pressing the key OFF1 once again. You will now read the set switching off time on the remote control. Press SEND (4) to transmit your selection to the pcb of the stove. The LED chrono-thermostat will light up on the control board indicating that the programming is on (5).

The LED chronothermostat switches off as soon as the automatic switching on and off are completed. The remote control does not show the previously set time schedule anymore.

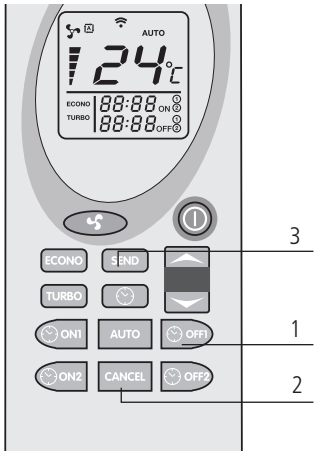


Program 2 (ON2 and OFF2)
As above but with the keys ON2 and OFF2.

How to cancel any eventual already set timetables.

Please join the following procedure to cancel any other already set timetables. This example refers to the automatic switching off of the program 1 (Off1). The procedure is the same for all plans.

Press the key corresponding to the switching on or off time you want to cancel. Referring to the example: press the key OFF1 (1). You will see the hours and minutes and the symbol **OFF1** blinking on the display of the remote control. Now press the key "CANCEL" (2) to cancel the automatic switching on or off timetables from the display. Press the key SEND (3) to confirm your selection and transmit it to the pcb of the stove.



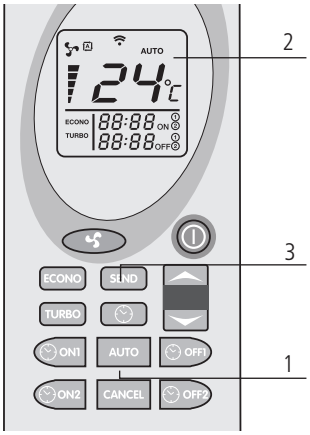
Daily repeat AUTO

Using the function AUTO, you can repeat the single automatic switching on and off you selected every day.

You just need to press the key AUTO (1) for at least two seconds to activate the function. You will read the words **AUTO** (2) on the display of the remote control. Press SEND (3) to confirm your selection and transmit it to the pcb of the stove. The LED chrono-thermostat will light up on the control board indicating that the programming is on.

You can deactivate the automatic repeat whenever you want just pressing the key AUTO again for at least two seconds. The words AUTO will disappear from the display. Press SEND (3) to confirm your selection and transmit it to the pcb of the stove.

WARNING: always clean the brazier before starting an automatic switching on in order to avoid any possible missed starts up which would damage your stove and the environment.



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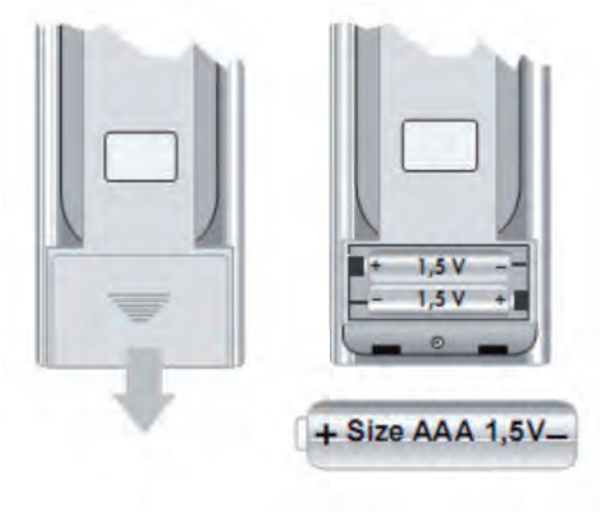
4.1 How to replace the batteries of the remote control
If you need to replace the batteries of the remote control, remove the back cover as shown in the picture. Replace the old batteries with the new ones respecting the polarity + and -.
The batteries needed are AAA, 1,5 V.



5.0 Display information

"OFF"
"OFF" : the stove is off or it is in a shutting down phase.

"FAN - ACC"
The stove is in the phase of preheating the resistor, preceding lighting.

"LOAD WOOD"
The stove is loading pellets. On the control board the LED resistance is on.

"FIRE ON"
The stove is in the flame stabilization phase (flame present).

"ON 1"
The stove is in the operational phase at minimum power.

"ECO"
The stove has reached the temperature set by the user and is in the energy saving phase. In this phase it is not possible to modify the power setting.
If the temperature is set at 41°C the stove will remain in continuous operation at the programmed work power without passing to the economy mode (ECO).

"STOP FIRE"
The stove is in a self-cleaning of the basket phase; the smoke extractor runs at the maximum speed and the pellet loader at minimum.

ATTE
You will read these letters when you try to start up the stove while it is completing a cooling cycle. Wait until the cooling phase is completed before proceeding with a new switching on.

5.1. Alarm codes

COOL FIRE
In the event of an even very short lack of current, the stove switches off.
As soon as the power supply is back, the stove will start a cooling cycle and the display will show the words "Cool fire". After completing the cooling cycle, the stove will start up again.
NOTE: If your stove is supplied with a remote control and there is a lack of current, remember to program the eventual switching on and off times again. In the event of a lack of current, the stove will loose any previous time settings.
Once the power supply is back, press the key SEND on the remote control to retransmit the automatic programming you previously set to the stove.

SERV
The signal "Serv" on the display means that the stove has reached 900 hours working. Please contact an authorised technical service to arrange a supplementary maintenance.

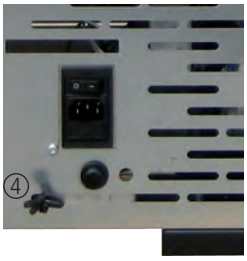
ALARM NO ACC: FAILED LIGHT UP
This alarm occurs when the time foreseen for a light up (around 15 minutes) passes and the smokes temperature is still too low. This can occur also when there is not enough pellets flow to light up the unit. Press the key On/Off on the control board to reset the alarm. Wait until the cooling phase is completed, clean the brazier and start up with a new switching on.

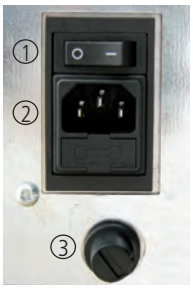
ALARM NO FIRE
This alarm occurs in the event the stove switches off during its working phase (for example if there is no pellets left in the pellets tank). You will read the words "Alarm No fire" on the display. Press the key On/Off on the control board to reset the alarm. Wait until the cooling phase is completed, clean the brazier and start up with a new switching on.

ALARM FAN FAIL
This alarm occurs in the event the smokes ejector is broken or the pcb cannot detect the speed of the smokes exhaust fan. In this case press the key On/Off to reset the alarm and contact the technical assistance.

ALARM SOND FUMI
This alarm occurs in the event the sensor for smokes temperature is broken or not connected. You will read the words Alarm Son fumi on the display. In this case press the key On/Off to reset the alarm and contact the technical assistance.

ALARM DEP SIC FAIL
This alarm is signalised by the Leds ALF and ALC blinking on the control board.
It indicates two different possibilities: an obstruction in the flue or a possible overheating of the stove. In both cases the motor reducer to load the endless screw stops working and the stove switches off. Press the key On/Off to reset the alarm. Check the possible activation of the manual reset thermostat on the back of the stove (4). Unscrew the safety cap and press the key.
In the event you have the same problem more than once, please contact the technical assistance.





1. Lighting button
2. Fuse F4AL250V
3. Thermostat reset button
4. Environmental probe

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Distribution of air between front and ducting (where present)

It is possible to adjust manually between the air distribution of the front panel and the distribution of the ducted air.

To adjust the air leakage it is necessary to move the lever from the top-down.
The more the lever is moved to the top, the more the air is directed on the front of the heater.
The hand adjustment will act on the air distribution gate.

6.0 Cleaning and maintenance

Before effecting any maintenance operation or cleaning on the stove, take the following precautions:

- Be sure that all parts of the stove are cold.
- Be sure that the ashes are completely cold.
- Be sure that the general switch is in the "OFF" position.
- Be sure that the plug is pulled out of the socket to avoid accidental contact.
- Once the maintenance phase is completed check that everything is in order as per before the intervention (the brazier is placed correctly).

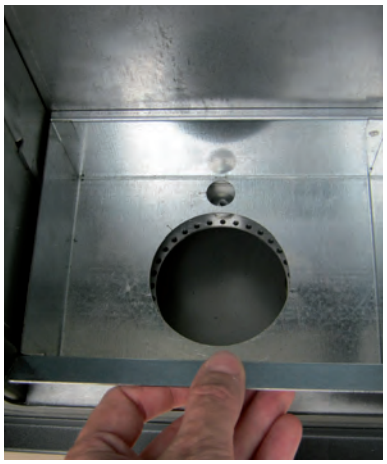
Follow carefully the following cleaning instructions. Failure to follow these instructions could create problems with the operation of the stove.

6.1 Cleaning of the combustion chamber (once a month)

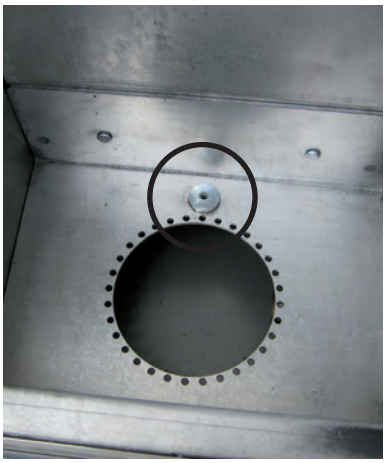
The wiper is situated in the middle of the frontal grid.

Activate 5/6 times the scraper back and forth.
For the extraction of the scraper use the appropriate fork.

Remove the brazier and to clean it from any residue.



Open the door and extract the ash tray. Remove with an aspirator all the ash deposited within it. This operation can be carried out more or less frequently depending on the amount of pellets used.



Remove the combustion chamber floor with the aid of a screwdriver and with a vacuum cleaner, clean under the plate.

Remove the upper flame beater by pulling it with an open hand towards you and aspirate the upper and bottom of the battifiamma.

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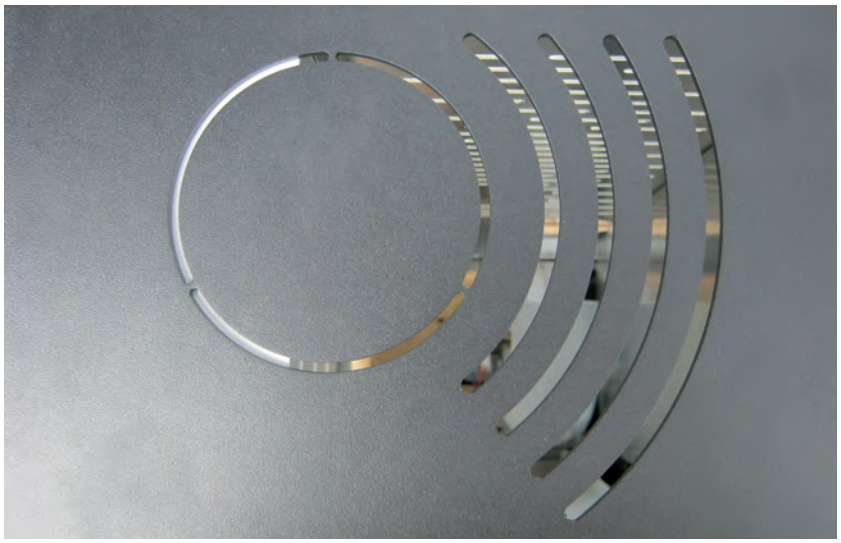
6.2 Cleaning of the "T" fitting glass (to be carried out at least twice a year, starting at mid winter season)



Raise the whole top.
Unscrew the two retaining screws of the heater front.

Turn the ash collection glass.

Clean up the glass from the residues accumulated during the heater operation

6.3 Cleaning the surfaces

To clean the surfaces, use a rag dampened with water or with water and a neutral detergent.

The use of aggressive detergents or thinners can damage the surfaces of the stove. Before using any detergent it is advisable to try it on a small section out of sight or contact the Authorized Assistance Centre for information regarding the product.

6.4 Cleaning the metal parts

To clean the metal parts of the stove, use a soft cloth dampened with water.
Never clean the metal parts with alcohol, thinners, petrol, acetone or other degreasing substances. If such substances are used, our company declines any responsibility.
Eventual variations in the colour of the metal parts can be caused by an incorrect use of the stove.

WARNING!
it is necessary to daily clean the brazier and often clean the ash box. The lack of cleanliness can prevent the starting of the stove, causing damages to the stove itself and to the environment (possible emission of unbrunt material and soot). Do not re-use the pellet possibly remained in the brazier due to no starting-up.

6.5 Cleaning the brazier and brazier support

When the flame assumes a red colour or seems weak, and is accompanied by black smoke, this means that there are ash deposits or incrustations that do not permit the correct functioning of the stove and that must be removed (Pict. 5). Remove the brazier every day by simply raising it from its slot; then clean out the ashes and eventual incrustations that may have formed, paying particular attention to liberating the holes by using a pointed tool (not included with the stove).
This operation is made particularly necessary before every lighting the first several times and above all if using pellets that differ from those supplied by our company. The frequency of this operation is determined by how frequently the stove is used and the choice of pellets.
It is also a good idea to check the brazier support, vacuuming the eventual ash present.

Pict. 10: cleaning the brazier

6.7 Daily cleaning by scraper

With heater off and cold, activate 5-6 times the duct scraper of the heat exchange by stretching back and forth.

Fig. 11: operating scraper.

Fig. 12: non-operating scraper.

6.8 Cleaning of the flame beater

Remove the flame beater from its seat and proceed with cleaning according to the following procedure:
- Pull a few centimetres towards you the flame beater until it is released completely (1).
- Turn the flame beater by about 30° and extract it from the combustion chamber (2).
- Remove with an aspirator all the ash deposited on top of the flame beater.
- Replace the flame beater in its original position and make sure that it is securely inserted.

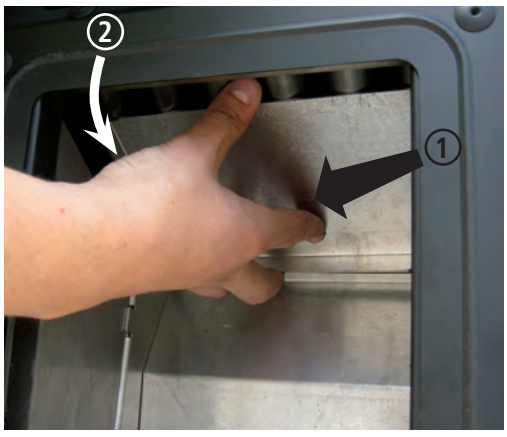


Fig. 13

6.9 Ash box

Open the door and extract the ash box. Use a vacuum to remove all the ash deposited within.
This operation must be performed more or less frequently depending on the quality of the pellets used (Fig. 14).

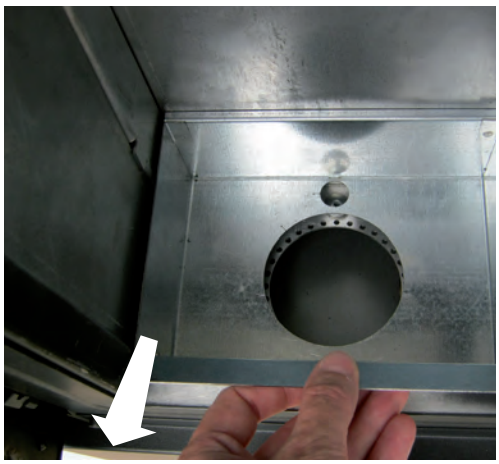


Fig. 14: cleaning the ash box

6.10 Cleaning the glass

The glass is a self cleaning type, therefore, while the stove is working, a veil of air is blown across its surface to remove ash and dirt; nevertheless over a period of several hours, a greyish patina tends to form which should be cleaned when the stove is next shut down. How dirty the glass becomes also depends on the quality and quantity of pellets used.
Cleaning the glass should be done when the stove is cold with products recommended and tested by our company.
When performing this operation, always check that the grey seal around the glass is in a good state; failure to check the efficiency of this gasket can compromise the function of the stove. Poor quality pellets can, in any case, cause the glass to become dirty.

WARNING! If the glass is broken, do not attempt to light the stove.

6.11 Cleaning the clearing system

Until a reasonable experience is acquired regarding the operating conditions, it is advisable to perform this maintenance on at least a monthly basis.

- Remove the electrical feed cable;
- Remove the cap from the T-joint and proceed with the cleaning of the ducts. If necessary, at least for the first few times, call in qualified personnel;
- Carefully clean the smoke discharge system: for this, contact a professional chimney sweep;
- Once a year clean the dust, cobwebs, etc. from the zone behind the internal covering panels, paying particular attention to the fans.

6.12 Cleaning the fans

The stove is furnished with fans (environmental and smoke) positioned at the rear and below the stove.
Eventual deposits of dust or ash on the blades of the fan can cause an imbalance in the fans leading to noisy performance. It is, therefore, necessary to clean the fans at least once a year.
Since said operation requires dismantling several parts of the stove, have the fans cleaned only by our Technical Assistance Centre.

6.13 Season end cleaning

At the end of the season, when the stove will not be used for some time, it is advisable to perform a thorough and general cleaning:

- Remove all the pellets from the container and the screw feeder;
- Carefully clean the brazier, the brazier support, the combustion chamber and the ash box

Once the preceding points have been observed, it only means that the state of the stove has been verified. It is necessary to thoroughly clean the smoke discharge tube or flue and check the condition of the basket. If necessary, order a new one from our Authorized Assistance Centre. If necessary, lubricate the hinges of the door and the handle. Also check the ceramic fibre cord near the glass, on the internal wall of the door; if it is worn or too dry, order a new one from the Authorized Assistance Centre.

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7.0 Replacing elements

7.1 Replacing the glass

The stove is furnished with a 4 mm thick ceramic glass that is resistant to a thermal shock of 750°C; the glass can break only from a strong impact or from improper use.
Do not slam the door or hit the glass.
In case of breakage, replace the glass only with an original replacement furnished by the Authorized Assistance Centre.

8.0 Annual maintenance by the Authorized Assistance Centre

The following operations are to be programmed annually by the Authorized Assistance Centre and are necessary to insure that the product remains efficient and guarantee safe operation.

- Careful cleaning of the combustion chamber;
- Cleaning and inspection of the smoke clearing ducts;
- Checking the seal of the gaskets;
- Cleaning the mechanisms and moving parts (motors and fans);
- Checking the electrical parts and the electronic components.

8.1 Operations to perform every season before the first lighting..

- A general cleaning inside and outside;
- A careful cleaning of the exchange tubes;
- A careful cleaning and disincrustation of the crucible and the relative cavity;
- Clean the motors, checking the play and fastenings of the mechanisms;
- Clean the smoke channel (substitute the tube gaskets) and smoke extractor fan cavity;
- Clean silicone tube connected to the pressure switch;
- Clean, inspect and disincrust the lighting resistor cavity, replacing it if necessary;
- Clean/check the synoptic panel;
- Visually inspect the electrical cables, the connections and the electrical power cable;
- Clean the pellet container and verify the play with the screw feeder gear motor;
- Replace the door seals;
- Functional assessment, loading the screw feeder, lighting, 10 minutes of operation and shut down.

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Company shall not be responsible for possible incorrect data caused by printing errors or error made in transcription and all figures and diagrams are for explanatory purposes only and relevant adjustment have to be made at the spot. In any case, it reserves the right to modify its products as deemed to be required and useful without any prior notification.

Centrometal