PALAZZETTI

ANNA

USER DISPLAY MANUAL

INDEX

1   <u>INITIAL CONFIGURATION</u>

Depending on the type of installation, the best configuration needs to be selected for the stove operation.

Before proceeding, power up the stove using the safety switch on the rear.

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;

b) Use the ⊞ button to select the password "7" and then press ↵ to confirm;

c) Use the ⊞ ⊟ buttons to scroll to and select submenu [30]; "r--0" will flash on the display;

d) Press ↵ and enter the value "54" using the ⊞ ⊟ buttons;

e) Press ↵ to confirm;

f) The current configuration will be displayed;

g) To change the configuration, press ↵ and enter the value of the new configuration using the ⊞ ⊟ buttons;

h) Press ↵ to confirm.

!   **After having changed the configuration a communication error message may be displayed for a few seconds. Ignore this and switch the stove off using the safety switch on the rear, wait a few seconds and switch it back on.**

TWO DIFFERENT CONFIGURATIONS ARE AVAILABLE:

CONFIGURATION 1 (default)

Set this configuration to switch the stove on or off manually or in programmed mode.

The stove will module its power according to the room temperature read by the probe on the stove.

It is possible to set the function "Eco-mode" to allow the stove switch on or off according to the set temperature.

In this configuration it is possible to set also the antifreeze function.

CONFIGURATION 2

Set this configuration when the stove is controlled by an external thermostat (or timer thermostat).

In this configuration the stove switches off when reaching the external thermostat setting.

In this configuration it is not possible to set also the antifreeze function.

1.1   CONNECTION TO AN EXTERNAL TIMER THERMOSTAT

The stove can be connected to an external timer thermostat that switches the stove on or off according to the set temperature.

When the set temperature is reached the thermostat opens the circuit and consequently switches off the stove.

The external thermostat is connected to the two terminals on the board of the stove, which are jumpered in the factory. Disconnect the jumper and connect the two thermostat contacts.

The stove must be set to configuration 2 following the instructions shown in the paragraph on "Initial configuration".

!   After first installing the timer thermostat, the stove needs to be switched on manually, while the timer thermostat is in "call" status. This operation is also required in the event of power failures or if the stove is switched off manually.

!   To avoid overlapping the working time bands, it's recommend to disable (set to OFF) the stove's timer.

2 CONTROL PANEL

Before reading the manual, review the description of the stove given in the enclosed manual.

2.1 DESCRIPTION

The control panel consists of:

A) a top part with status LEDs and backlit icons that identify each function;

B) LED display;

C) ON button ⏻;

D) "Cancel" and display "error" button ⎌;

E) two arrow buttons to scroll between the various functions ◁ ▷;

F) two buttons + and − to set the operating parameters and access the submenus;

G) an enter button ↵ to confirm the parameter or the settings.

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☞ *All the buttons are capacitive, therefore the functions are activated without needing to press hard on the buttons, rather by just touching the surface.*

2.1.1 Status leds

ICON	WARNING	DESCRIPTION
	Pellets running out	Indicates that the pellet hopper needs to be refilled.
	Maintenance	Indicates the need to perform maintenance
	Service	Indicates an error
	Remote control receiver	It receives the inputs sent by the remote control (optional)
	Timer active	Indicates whether the timer function is active.
	Status LED (near the ⏻ button)	LED on steady: stove on and operating LED flashing: stove in the ignition stage or in standby LED off: stove off

2.1.2 Description of the menus

ICON	FUNCTION	DESCRIPTION	VALUES
🔥	Power	Stove output setting	1..5
🌀	Fan *(where featured)	It allows you to set the fan speed.	OFF*,1..5; Auto; Hi
🌡	Temperature	Displays the room temperature reading and is used to set the desired temperature.	6°C .. 51°C
⦂⦂⦂	Fuel	Not used	
🕐	Timer	Enables or disables the timer. When enabled, the icon 🕐 will be displayed steady (not flashing)	ON - OFF

ICON	FUNCTION	SUBMENU		DESCRIPTION	VALUES
⚙	Setup	[1]	Weekly timer	Assigns the programs (max 3) to the different days of the week	[d1] ... [d7]
		[2]	Programs	Program setting menu	[P1] ... [P6]
		[3]	Time / date	Time and date setting	
		[4]	Hours remaining	Displays the number of hours remaining until recommended maintenance. When "Hi" is displayed, the remaining time exceeds 999 hours.	
		[5]	System information	Displays the current software version	
		[6]	Function not enabled		
		[7]	Eco function	Enables or disables Eco Mode, in which the stove automatically switches off and on based on room temperature (only in configuration 1).	OFF; Eco
		[8]	Restart delta	Difference in degrees from room temperature below which the stove switches on again (only in configuration 1).	0,5 ... 5,0°C
		[9]	Frost protection temperature	Minimum temperature below which the stove switches on (only in configuration 1).	OFF; 3 ... 20 °C
		[10]	Lock keypad	Disables the buttons on the keypad	OFF; Lo; Hi
		[11]	Display brightness	Sets display brightness	OFF; 1 ... 5
		[12]	Display mode	Sets how the data is displayed	OFF; 1 ... 4
		[13]	Buzzer volume	Sets the buzzer volume	OFF; 1 ... 5
		[14]	Combustion	Three different types of combustion can be set	1 ... 3
		[15]	Function not enabled		
		[30]	Installer menu	Sets/displays the stove configuration	PWD: "54"
		[31]	Manual auger load	Manual activation of the pellet load system	PWD: "54"
		[40]	Service menu	Menu reserved for the service centre	

Submenus [30] and [40] in the Setup menu are password-protected and reserved for service centre personnel.

2.2 USING THE CONTROL PANEL

- The arrow buttons ◁ ▷ are used to scroll between the different menus that are highlighted.
- When selecting a given function, simply press the ← button and then modify the values, again using the + − buttons.
- Pressing the ← button confirms the setting.
- In general all values that are flashing can be modified using the + − buttons.
- The "cancel" button ⎌ is used to cancel any changes; pressing and holding the button displays any active alarm or error codes.

2.3 OPERATING PARAMETERS

Stove operation is determined by the Power level, Fan and Temperature parameters set by the user.

2.3.1 setting the power level

The power level defines the amount of heat produced by the stove and consequently directly affects fuel consumption.

To change the power level:

a) Use the ◁ ▷ buttons to go to the power menu 🔥 and press ↵ ;

b) The power level value will flash; set the value using the ＋ － (buttons (**1** minimum,....**5** maximum)

c) Press ↵ to confirm the settings.

2.3.2 Modifying the fan speed (Silent Range excluded)

To modify the fan speed:

a) Use the ◁ ▷ buttons to go to the fan menu 🌀 and press ↵ ;

b) The fan speed value will blink; modify the value by pressing ＋ － ;

- "OFF" = the fan is completely excluded, and the stove will work with natural convection only (only on models where featured);
- "1" minimun,..., "5" maximum;
- "Auto" = automatic functioning (the stove will set automatically the fan speed and the stove power according to the room temperature);
- "Hi" = ultrarapid functioning (to use only in the case you need to quickly heat the room);

c) press the button ↵ to confirm the data you set.

2.3.3 Setting the room temperature

Setting this value defines the desired room temperature, read directly by a probe fitted on the stove.

To set the desired temperature:

a) Use the ◁ ▷ buttons to go to the temperature menu 🌡 and press ↵ ;

b) The current value will flash; change it using the ＋ － buttons

c) Press ↵ to confirm the settings.

3 PRELIMINARY OPERATIONS

3.1 LOADING THE PELLETS

The first operation to be performed before starting the appliance is to fill the hopper with fuel (pellets).

The pellets are loaded into in the hopper using a scoop.

Do not empty the sack directly into the hopper so as to avoid loading sawdust or other foreign bodies that may affect proper stove operation and avoid spilling pellets outside of the hopper.

☞ Make sure the hopper lid is well closed again after having loaded the pellets. A safety switch (just for the models that are equipped with it) makes sure that the pellet tank lid has been closed properly (IS in fig. 3.1) and triggers a stove alarm in case the pellet tank lid stays open for more than one minute while the stove is still working.

IS
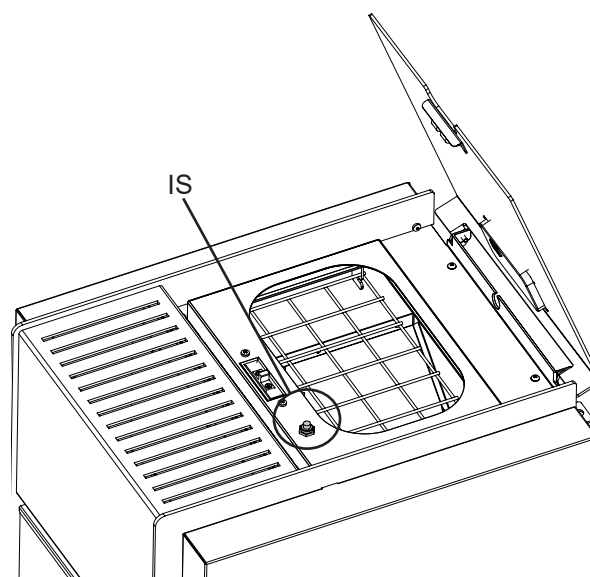
- 3.1 -

3.2 POWER SUPPLY

Plug the stove into the mains power supply, move the power switch at the rear of the stove to position "I" (Fig. 3.2). If the connections are correct the stove will emit a series of intermittent beeps, the display will come on.

☞ **Make sure not to touch the control panel while plugging the stove into the power supply.**

! If not using the appliance for an extended period, the switch at the rear of the stove should be moved to position (O).
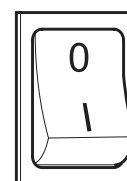
- 3.2 -

3.3 INITIAL SETTINGS

The language, current date and time need to be set before using the stove.

3.3.1 Time and Date setting

To set the date:

a) Use the ◁ ▷ buttons to go to the setup menu ⚙ and press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [3] and press ↵ to confirm;
d) The hour value will flash; set the value using the + − buttons and press ▷;
e) The minutes value will flash; set the value using the + − buttons and press ▷;
f) The day value will flash; set the value using the + − buttons and press ▷;
g) The month value will flash; set the value using the + − buttons and press ▷;
h) The year value will flash; set the value using the + − buttons and press ▷;
i) The current weekday value will flash (Monday = 1... Sunday = 7); set the value using the + − buttons;
j) Press ↵ to confirm the settings.

3.3.2 Setting the display brightness

Display brightness when in standby mode can be set.

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [11] and press ↵ to confirm;
d) Set the desired brightness (OFF, 1 ... 5) using the + − buttons and press ↵ to confirm.

3.3.3 Setting the display mode

The data shown on the display when this is in standby mode can be set.

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [12] and press ↵ to confirm;
d) Set one of the following values using the + and − buttons:

"OFF"	• The display remains on the last operation set by the user;
"1"	• All operating parameters are displayed cyclically;
"2"	• The room probe temperature is shown
"3"	• The current time is shown
"4"	• The operating autonomy in hours before having to refill the hopper is shown, If the function "filling" has been activated.

e) Press ↵ to confirm the settings.

3.3.4 Setting the volume

The volume of the buzzer can be set based on requirements:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [13] and press ↵ to confirm;
d) Set the desired volume (OFF, 1 to 5) using the + − buttons and press ↵ to confirm.

3.3.5 Improving the combustion

A good combustion depends on several factors (type of installation, operation and maintenance conditions, type of pellet etc ..)

If at the end of combustion in the brazier are many waste, it is advisable to change the combustion configurations (increasing the value) to find the most satisfactory solution.

a) Use the arrow buttons ◁ ▷ to go to the setup menu ⚙ and then press ↵;
b) Use the + button to select the password "7" and then press ↵ to confirm;
c) Use the + button to scroll to and select submenu [14] and press ↵ to confirm;
d) Set one of the following values using the + and − buttons:

"1"

"2"

"3"

e) Press ↵ to confirm the settings.

4 STOVE OPERATION

4.1 STARTING THE STOVE

⚠ Before every ignition, be sure that burning pot is completely empty and properly positioned in its seat.

To start the stove hold the ⏻ button for several seconds.

The flame icon will start flashing during the ignition stage until remaining on steady when the stove has started.

! Automatic stove ignition: the stove comes with an automatic device that starts the pellet stove without using other traditional fire lighters.

⚠ Avoid lighting the flame manually if the stove's automatic ignition system is not working correctly.

! When the stove is started the first time, unpleasant odours or smoke may be generated, caused by evaporation or drying of certain materials used. This phenomenon will gradually disappear.

The room should be well ventilated when starting the stove the first few times.

"SEALED" SERIES STOVES
When opening the firebox door, never leave it open too long, otherwise the door sensor will set off the open door signal (audible alarm).

4.2 MODIFYING THE PARAMETERS

The stove operating parameters can be modified as described.

☞ The values set will be retained until next modified, even when the stove is switched off or unplugged from the power supply.

4.3 SWITCHING OFF

To switch the stove off hold the ⏻ button for a few seconds; the flame icon will switch off.

☞ To start the stove again it's recommended to wait for the stove to cool down completely.

⚠ The stove should only be switched off following the procedure described above. Never switch the stove off by unplugging it from the power supply.

4.4 OPERATION WITH ROOM THERMOSTAT

When the stove is controlled by an external thermostat (or timer thermostat) the installer must have set Configuration 2. In this configuration the stove switches off when reaching the external thermostat setting.

The stove switches on again automatically when the temperature falls below the value set on the external thermostat (circuit closed).

☞ **On first ignition, or if the stove has been switched off manually (⏻ button), the stove needs to be started directly from the control panel.**

4.5 OPERATION WITH ROOM PROBE ON THE STOVE

The stove can be switched on/off manually or in programmed mode.

The stove modulates output according to the room temperature read by the probe on the stove (that is, the stove attempts to maintain the desired temperature while minimising fuel consumption).

If the user has enabled the "Eco-mode" function , the stove rather than modulating its output, switches off when reaching the set temperature, and switches on again when the room temperature falls below the delta set (see par.).

The desired room temperature can be set in the temperature menu 🌡.

5   <u>FUNCTIONS AVAILABLE</u>

5.1   TIMER

It's possible to set, enable and assign to the various days of the week, customised programs for automatically switching the stove on and off.

Up to six customised programs can be set.
For each program, the following can be set: on time, off time and desired temperature.
Up to three programs can be assigned for each day of the week.
The days of the week are identified by numbers: Monday = "d1", Tuesday = "d2";...; Sunday = "d7"..

5.1.1   Setting the programs

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the ⊕ button to select the password "7" and then press ↵ to confirm;
c) Select submenu [2] and confirm by pressing ↵;
d) Use the ⊕ ⊖ buttons to scroll the programs P1...P6;
e) The on hours value will flash; set the value using the ⊕ ⊖ buttons and press ▷;
f) The minutes value will flash; set the value using the ⊕ ⊖ buttons and press ▷;
g) The off hours value will flash; set the value using the ⊕ ⊖ buttons and press ▷;
h) The minutes value will flash; set the value using the ⊕ ⊖ buttons and press ▷;
i) The desired temperature value will flash; set the value using the ⊕ ⊖ buttons and press ▷;
j) Press ↵ to confirm the settings.

5.1.2   Assigning the programs to specific days

This function can be used to assign up to three different programs to a certain day.

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the ⊕ button to select the password "7" and then press ↵ to confirm;
c) Select submenu [1] and confirm by pressing ↵;
d) Use the ◁ ▷ buttons to choose the day [d1]...[d7] to assign the programs to
e) Select this using the ↵ button;
f) The value of the first program to assign will flash: P1...P6 or "OFF" to disable;
g) Set the value using the ⊕ ⊖ buttons and press ▷;
h) The value of the second program to assign will flash: P1...P6 or "OFF" to disable;
i) Set the value using the ⊕ ⊖ buttons and press ▷;
j) The value of the third program to assign will flash: P1...P6 or "OFF" to disable;
k) Set the value using the ⊕ ⊖ buttons and press ↵ to confirm the settings.

5.1.3   Enabling/disabling the timer

a) Use the arrow buttons ◁ ▷ to go to the Timer menu ◷;
b) Select this using the ↵ button;
c) Use the ⊕ ⊖ buttons to scroll and select: "ON" to enable the timer or "OFF" to disable it;
d) Press ↵ to confirm the selection.

When the timer is enabled, the ◷ icon will be on steady, indicating that the timer is active.

5.2 "ECO MODE" SAVING FUNCTION

Enabling this function means that the stove switches off when reaching the desired room temperature. If this function is not enabled, the stove modulates operation so as to maintain the desired temperature while consuming the least amount of fuel possible. The "Eco Mode" function is only available in configuration 1.

To enable/disable the function:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the ⊕ button to select the password "7" and then press ↵ to confirm;
c) Select submenu [7] and confirm by pressing ↵.
d) Set one of the following values using the ⊕ ⊖ buttons:

   Eco → "Eco Mode" function enabled

   Off → "Eco Mode" function disabled
e) Press ↵ to confirm the settings.

5.3 RESTART DELTA FUNCTION

The Restart delta is the number of degrees centigrade below the switch-off temperature at which the stove switches on again automatically. For example, if the stove is set to switch off at 20°C (Eco Mode active) and "Restart delta" is set to 4°C, the stove will switch on again when the temperature measured is less than or equal to 16°C.

To set the restart delta value:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the ⊕ button to select the password "7" and then press ↵ to confirm;;
c) Select submenu [8] and press ↵ to confirm;
d) The value will flash; change it using the ⊕ and ⊖ buttons (0,5 ... 5,0°C);
e) Press the ↵ button to confirm the set value.

5.4 RESTARTING AFTER A POWER FAILURE

In the event of power failures, the stove will switch back on automatically, checking the safety conditions, when power returns.

5.5 "LOCK KEYPAD" FUNCTION

This function is used to disable the use of the control panel and avoid accidental modifications.

To enable/disable the function:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the ⊕ button to select the password "7" and then press ↵ to confirm;
c) Select submenu [10] and confirm by pressing ↵ .
d) Use the ⊕ ⊖ buttons to set one of the following values:
   "Off" Lock keypad disabled
   "Lo"   Only the on/off button ⏻ is enabled
   "Hi"   Lock keypad enabled
e) Press ↵ to confirm the settings.

5.6 FROST PROTECTION FUNCTION

(Only in configuration 1)

A minimum temperature can be set below which the stove will switch on (outside of the set time bands, and only if the timer is active). To set the "frost protection" temperature:

a) Use the arrow buttons ◁ ▷ to go to the setup menu ☼ and then press ↵;
b) Use the ⊕ button to select the password "7" and then press ↵ to confirm;
c) Select submenu [9] and confirm by pressing ↵;
d) The value will flash; change it using the ⊕ ⊖ buttons (OFF; 3...20°C);
e) Press ↵ to confirm the settings.

5.7 MANUAL ACTIVATION OF THE LOAD SYSTEM

In case of first use (pellet tank initially empty) or to test operation of the load unit, manual activation of loading is possible.

On the control panel of the stove:

a) Using the arrow keys ◁ ▷ navigate to the set-up menu ⚙ and press the key ↵;

b) Select password "7" with the key + and confirm with the key ↵;

c) Scroll with the key + and select sub-menu [3 1] ;

d) Select password "54" with the key + and confirm with the key ↵;

e) Holding the key ↵ the load system will activate and the display will show the incremental bars

f) Releasing the key will end the load operation.

Attention!
• This function is only active when the stove is off and cold.
• Before switching on again, ensure that there are no pellets in the grate.

6 ALARM MANAGEMENT

If a malfunction occurs, the following procedure is activated:
1) audible alarm (beep);
2) one of the following system LEDs come on: ⚠ 🧹 🔧 ;
3) if the problem concerns an error, the stove will switch off.

Pressing and holding the "cancel" button ⌫ shows the error code on the display:

ERROR/ WARNING CODE	DESCRIPTION	POSSIBLE CAUSES	LED
E001	Faulty control panel	Control panel fault	🔧
E002	Remote control signal communication error	Control panel fault	🔧
E004	Communication error	Connection cable between board and control panel interrupted or detached. If this appears when changing configuration, ignore the error	🔧
E101	Failed ignition error	No pellets Pellet quality Faulty ignition system Burn pot dirty Problems with the heating system Problems with the pump	🔧
E105	Pellet probe malfunction	Pellet probe disconnected or faulty	🔧
E108*	Safety error	Door or hopper lid open	🔧
E109	Pressure error or thermal safety	Flue gas exhaust system dirty Seal gaskets worn Insufficient combustion air Problems with overheating in the pellet hopper	🔧
E110	Temperature probe malfunction	Faulty air temperature probe	🔧
E111	Flue gas temperature probe malfunction	Faulty flue gas temperature probe	🔧
A001	Low pellet level *(icon flashing)*	Pellets running out	⚠
A002	Scheduled maintenance warning *(icons flashing)*	The stove periodically requires maintenance to be performed by a qualified technician	🧹🔧
A007	Pressure sensor malfunction *(icon flashing)*	Pressure sensor or board fault.	🔧
----	Clean stove	Combustion chamber, burn pot or flue gas exhaust system dirty. Pressure measuring tubes detached or blocked. Combustion air intake blocked.	🧹
----	Failed ignition error	No pellets; Faulty ignition heater; Worn gaskets; Incorrect burn pot position	⚠

* Only for the models equipped with safety microswitches on the door or on the hopper lid.

After having checked the type of message, the alarm can be reset by pressing the on/off button ⏻ for a few moments.

If the error code is "E109", before resetting the alarm, manually reset the thermostat located on the rear of the stove (Fig. 6.1) *(this should be carried out by an authorized technician).* Then the stove can be started again.

☞   *Before proceeding with a new ignition, check that:*
   • *the stove has cooled*
   • *the burning pot is clean and free of any ash residue or pellet*
   • *the burning pot is correctly positioned in its seat*
   • *the doors of the hearth and the tank are perfectly closed*

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